



HOUSEHOLD HAZARDOUS MATERIALS PROGRAMS

JANUARY 2008



Iowa Department of Natural Resources
Energy and Waste Management Bureau

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FOREWORD

The Energy and Waste Management Bureau develops, implements and administers a variety of programs and projects that work together to provide Iowans proper management education and proper disposal opportunities for hazardous materials generated in the household, on the farm, in industrial and commercial sectors, and in schools.

The Household Hazardous Material Programs report discusses actions and results of these actions undertaken by the Energy and Waste Management Bureau and its stakeholder partners in 2007.

The Energy and Waste Management Bureau believes that this report will provide the reader with a better understanding of the opportunities afforded them and the activities taking place to address the negative consequences common household hazardous materials have on human health and safety and our environment.

Thank you for investing your time in the review of this report. It is important that Iowans share in the understanding of how everyday actions, including the common products we use, store and dispose of affects our lives.

In 2007, the Iowa Poison Control Center reported over 13,000 exposures to household hazardous materials through November.

Household Hazardous Materials are the leading cause of poisonings in children.

55% of all poisonings occurred in children under the age of six.

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INTRODUCTION

HOUSEHOLD HAZARDOUS MATERIALS

A Household Hazardous Material (HHM) is a term defining common household materials or products that have one or more of the following characteristics:

- **Toxic** – poisonous, causing cancer or other health problems
- **Corrosive** – destroys human tissue or corrodes metal
- **Flammable** – easily ignitable and will burn
- **Reactive** – explosive through exposure to heat, sudden shock, pressure or comes into contact with incompatible chemicals

Common household hazardous materials include, but are not limited to:

- pesticides
- petroleum based fertilizers
- motor oil & antifreeze
- cathode ray tubes (CRTs)
- oil based paints
- caustic household cleaners
- waxes and polishes
- degreasers

Household Hazardous Waste (HHW) is commonly defined as waste from residential sources composed of old or unwanted products that exhibit any of the characteristics of household hazardous materials.

In Iowa, HHMs and HHW also include wastes generated by businesses classified as a Conditionally Exempt Small Quantity Generator (CESQG) by the US EPA. *This classification applies to businesses that generate less than 220 pounds of hazardous waste or less than 2.2 lbs of acute hazardous waste per month or less than 220 pounds of spill residue per month.*

HHW contains most of the same chemical types found in commercial and industrial hazardous waste. Though less concentrated, HHW in aggregate should be managed with the same considerations that caused the EPA and States to ban commercial and industrial hazardous waste from sanitary landfills.

HHMs are found in nearly every store, under every sink, in closets, basements and garages. Consequently, nearly every household and business in the state generates HHW. This hazardous waste is likely to end up in local solid waste facilities, or in municipal sewer systems, septic tanks or released directly into the environment, unless steps are taken to manage this waste independently from other household and business wastes. This report discusses several HHW programs and projects the Energy and Waste Management Bureau provides Iowans to properly manage hazardous wastes.

WHY ARE HHMS OF CONCERN?

HHMs and HHWs are associated with adverse health, environmental and safety effects. Health effects caused by hazardous waste can be acute (sudden or immediate onset of severe symptoms) or chronic (gradual onset of symptoms occurring through repeated exposure over an extended period of time).

Through November 2007, the Iowa Poison Control Center reported more than 13,000 exposures to HHMs. Children are of special concern, as they are more susceptible to toxins than adults. A majority of all poisonings in Iowa (55 percent) occurred in children under the age of six. Particularly in children, toxins may impair their immune and reproductive systems, and can impact mental development.

WHAT ABOUT HHMS STORED IN HOMES?

HHMs found in homes cause a major percentage of accidental poisonings of humans and pets. The majority of poisonings in the home occur in children and are directly related to common household hazardous products improperly used and stored. Improper storage of HHMs in homes and businesses is a common cause of fires, explosions and the release of toxic fumes which can put firefighters in danger when they respond to an emergency call.

WHAT IS THE VALUE OF HHW COLLECTION PROGRAMS?

HHW collection programs allow households and businesses to minimize their impact on the environment and to improve the health and safety in our homes and businesses. Improper disposal of household hazardous waste includes dumping into ditches or on the ground, pouring down drains or sewers, and placing in the trash. Each of these improper disposal actions result in negative consequences.

Dumping HHWs in ditches or on the ground releases hazardous chemicals directly into the environment where these toxins often flow directly into Iowa's water bodies, exposing wildlife, pets and humans to direct and indirect contact and uptake through inhalation, absorption and ingestion.

Pouring HHWs down drains and sewers can cause severe consequences. Numerous reports exist where improper disposal of HHWs in this manner has caused explosions and noxious fumes in the sewer system and residential basements. Storm sewers often empty directly into lakes and streams, a direct conduit for hazardous chemicals to impact drinking water, recreation, and aquatic life. Studies have also shown that some hazardous chemicals can pass through water treatment systems unaltered and are again discharged to the environment, contaminating our lakes and streams.

Water treatment and septic systems are also put at risk as HHWs kill the beneficial bacteria that aid in the breakdown of waste, compromising the effectiveness of waste treatment thus preventing raw sewage from being properly treated.

Placing HHW in the trash easily provides the opportunity for incompatible chemicals to mix. Numerous reports exist where trash collectors and landfill operators have been injured from hazardous waste in municipal trash. Chemical reactions from mixing various HHW's can result in explosions, fires, and toxic fumes causing personal injury and damage to equipment.

Improper disposal of HHW has an environmental, safety, and economic cost. Counties and cities depend upon healthy waterways to support tourism including fishing and other water based recreation activities. Rivers serve as the source of drinking water for many Iowans. The benefits of contaminant free drinking water are obvious. Aquatic life and wildlife using our lakes and streams are also put at risk by improper disposal of hazardous wastes.

REGIONAL COLLECTION CENTER PROGRAM (RCC)

Regional Collection Centers (RCCs) are permanent collection facilities designed to assist the public and conditionally exempt small quantity generators (CESQG) with proper management and disposal of hazardous waste. RCCs accept specific types of hazardous waste for disposal, provide a materials exchange (Swap Shop) and work to educate Iowans in proper purchasing and management techniques for HHMs.

Currently, 20 operating RCCs serve 83 counties with a variety of programs including daily access to a hazardous material drop-off site. Twenty-five cities in five counties have contracts with RCC's to provide mobile pick up events at least twice a year. Facilities in Northwest Iowa (Clay, Lyon, Sioux, O'Brien, and Osceola), and Appanoose County are under construction and are expected to begin operations in spring of 2008. The DNR received two requests for establishment funding in FY 2007. These requests totaled \$75,476 for the addition of new satellite facilities in Sac and Ida counties which opened in the fall of 2007.

REGIONAL COLLECTION CENTER PROGRAM - SUMMARY OF 2007

Establishment Grants	\$75,476
Operating Assistance Support	\$248,032
Total Cost to Department	\$323,508
Total Waste Collected (pounds)	2,957,014
Total Waste - Contracted for Disposal (pounds)	617,628
Number of Participant Households	20,643
Average HHW Collected per participant (pounds)	125
Number of CESQG* participants	841
Average HHW Collected per CESQG (pounds)	452

*Conditionally exempt small quantity generators (*businesses that generate less than 220 pounds of hazardous waste or less than 2.2 lbs of acute hazardous waste per month*)

Note: Floyd-Mitchell-Chickasaw (FMC) RCC received an establishment grant in FY 2008 to locate a satellite facility in Winneshiek County and mobile collection service to Howard County. Both counties will begin collections in 2008.

SCHOOL CHEMICAL MANAGEMENT

The Department applied for and received a grant from the U.S. Environmental Protection Agency to assist Iowa Schools in providing safer classrooms. The School Chemical Management project conducted by the EWMB offered grant funds to schools (up to \$900 per eligible school) that successfully completed Phase 1 (school chemical clean out) and Phase 2, school chemical management training conducted by Growning Green Communities. Available grant funds coupled with the management training was designed to provide administrators and teachers with the tools they needed for quality classroom instruction without having to purchase, store, or dispose of large quantities of highly hazardous chemicals. The school chemical clean out showed that these chemicals will often be neglected at the back of storage cabinets and in classrooms for decades at a time.

Specifically the project offered funding assistance for the purchase of:

- Small scale chemical kits to replace large quantities of hazardous chemicals
- Aqueous parts washers to replace solvent based parts washers
- Laboratory management and education supplies
- Up to fifty percent of the disposal cost to remove any newly discovered unwanted hazardous chemicals.

MEASURABLES:

1. 81 schools assisted with financial assistance to implement one or more project objectives
2. 60 schools implemented the use of small scale chemical resources
3. 4 schools installed aqueous parts washers to replace solvent based parts washers
4. 7 schools replaced mercury thermometers with digital thermometers
5. 52 schools purchased spill kits and components
6. 8 schools disposed of highly hazardous, unstable or unwanted chemicals (~84 lbs.).

In addition to actions taken by the schools as outlined above, The Chemical Management Guide for the Laboratory was developed by the EWMB and distributed to each participating school for future reference. The guide outlined several content areas* in an attempt to provide a strong curriculum with the least amount of hazardous chemicals as possible and in a safe classroom/laboratory setting.

* Content areas include:

- Components of a Safe and Effective Chemical Storage Area
- Resources for Reducing the Scale of Experiments and Analyses
- Chemical Spill Management

The guide is also available on the DNR website at the Household Hazardous Materials Educational page <http://www.iowadnr.gov/waste/hhm/hhmeducation.html> or on the main HHM page under Publications and Reports <http://www.iowadnr.gov/waste/hhm/index.html>

PAINT PROCESSING INITIATIVE

The Department surveyed each RCC regarding methods used to process and manage oil based and latex paint. Paint is one of the largest HHW streams received at RCCs. Based on the level of staff time and effort reported by the RCCs that they expended to manage paint waste, the Department offered funding for the purchase and coordinated the delivery of paint can crushers to each RCC for the bulking of waste paint. RCC's were responsible for installation and building modifications as necessary.

The Department again surveyed each RCC to determine the impact of the paint can crushers once operational for an extended period of time. Survey results indicated nearly 75% of the RCC's have seen a reduction in costs, on average RCC's have seen nearly \$2200 in processing cost savings and 170 hour reduction in staff time. In addition 50% of the RCC's are now able to recycle the metal paint cans previously landfilled.

PHARMACEUTICAL PILOT COLLECTION AND DISPOSAL PROJECT

Though pharmaceuticals are specifically excluded from the definition of household hazardous waste, they do pose a related safety and environmental quality concern to that of HHWs. Because this pharmaceutical waste stream may pose significant risks closely resembling the risks of HHWs, the pharmaceutical waste pilot project is briefly discussed in this report.

In 2006, the Iowa Poison Control Center reported over 12,600 **unintentional** exposures to pharmaceuticals. Of these unintentional poisonings, 60% involved children under the age of six and 70% involved kids under the age of thirteen.

During the 2007 legislative session, Senate File 579 was passed and signed into law calling for a one year pharmaceutical collection and disposal pilot project. The project is to demonstrate how to properly manage and dispose of unused, excess, old, or seized pharmaceuticals through approved techniques that exclude disposal in a landfill and disposal to a wastewater treatment facility. The pilot project is funded through the **Solid Waste Alternatives Program**, not to exceed \$225,000.

Through a Request for Proposal process, the Department selected to partner with Metro Waste Authority to develop and implement this pilot project. The project will take place in at least 15 counties served by Metro Waste Authority's Regional Collection Center in central and west-central Iowa. Prioritized collection sites are local pharmacies, though other collection sites may be utilized. There will be at least one collection site in each county.

Pharmaceuticals, both prescription and over the counter, are being detected in our water ways. Wastewater treatment plants are not currently able to remove these chemicals from discharged water. The full extent of the environmental impact of this is not yet known. However, several studies throughout the US have shown aquatic life to be adversely impacted and a potential risk to drinking water. This issue continues to be investigated including specific impacts on human health and development.

TOXICS IN PACKAGING

Iowa law does not allow the intentional introduction of any amount of four toxic heavy metals in any package or packaging component. These metals include lead, mercury, cadmium, and hexavalent chromium. In addition Iowa law places limits on the amount of these metals incidentally introduced.

Iowa's Toxics in Packaging law is mirrored in 18 other states, many of which, including Iowa belong to the Toxic In Packaging Clearinghouse (TPCH). The TPCH was established in 1989 to encourage and coordinate the implementation of individual state toxics in packaging laws through joint consideration of exemptions and/or clarifications, to minimize the administrative process for states and applicants, and to create a centralized location for receipt and processing of written requests. The Clearinghouse serves as a cost-effective vehicle and forum for its member states to administer the states' toxics in packaging laws in a manner that promotes consistency and uniformity in administration and enforcement by participating states.

Iowa passed increased enforcement language during the 2007 legislative session (Iowa Acts, Senate File 344) which strengthened the state's ability to enforce this health concern. The legislation incorporates changes which restrict the liability of distributors for the distribution of toxic packages without knowledge and substitute civil enforcement proceedings for the former criminal enforcement provisions.

SECTION 1: INDIVIDUAL STATISTICS FOR REGIONAL COLLECTION CENTERS

This section highlights statistics from Regional Collection Centers in the State of Iowa that are currently in operation and collecting household hazardous waste. Regional Collection Centers listed below are either not actively collecting HHW, initiated operations too late in FY2007 to be included in this report, or are self-funded:

Bremer Co. RCC
Dickinson Co. RCC
Floyd, Mitchell, Chickasaw RCC
Mahaska County RCC
Monona RCC
Northwest Area SWA RCC
Rathbun Area RCC

REGIONAL COLLECTION CENTER ACCOMPLISHMENTS Fiscal Year 2007

COUNTY COVERAGE

RCCs	20 counties
Satellites	39 counties
Mobile Collections	24 counties
Cities with contracts for Cleanup Days	5 counties
Total Counties with RCC service	83 counties

RCC BENEFITS

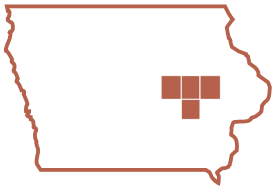
- Permanent availability, often year-round
- Increased surface and groundwater protection
- Increase in worker safety for both solid waste collectors and landfill operators
- Decrease in hazardous exposures to humans and pets
- Reduced potential for damage to sewer and septic systems from improper disposal
- Lower disposal cost per pound
- Ongoing education for Iowa residents
- Available to CESQG businesses, schools etc.
- One facility can serve several counties

Total program cost for FY 2007	\$323,508
Contracted Household Hazardous Waste disposed	617,628 lbs.
Household Hazardous Materials managed locally	
Latex Paint	470,100 lbs.
Used Motor Oil	472,156 lbs.
Used Lead-acid Batteries	142,338 lbs.
Other Waste (sharps, scrap metals, electronics, etc.)	1,030,893 lbs.
Materials reused locally through Swap Shop	223,899 lbs.
TOTAL MANAGED LOCALLY	2,339,386 lbs.
TOTAL AMOUNT OF HHW MANAGED	2,957,014 lbs.

Total Household Participation	20,643
Total Small Quantity Generator Participation	841
TOTAL PARTICIPATION	21,484

KEY POINTS SUMMARY

Average weight of waste collected per household	125 lbs.
Average weight of waste collected per business	452 lbs.
Total IDNR Reimbursement per pound of hazardous waste collected for contracted disposal	\$0.33



MAIN FACILITY:
Linn County

SATELLITE FACILITIES:
Benton, Iowa and
Tama Counties

POPULATION:
99,680 households

CONTACT INFO:
Cedar Rapids/Linn
Co. SWA
P.O. Box 2068
Cedar Rapids, IA
52732

Bill Sloop
(319) 373-4771

Disposal Costs
\$53,467

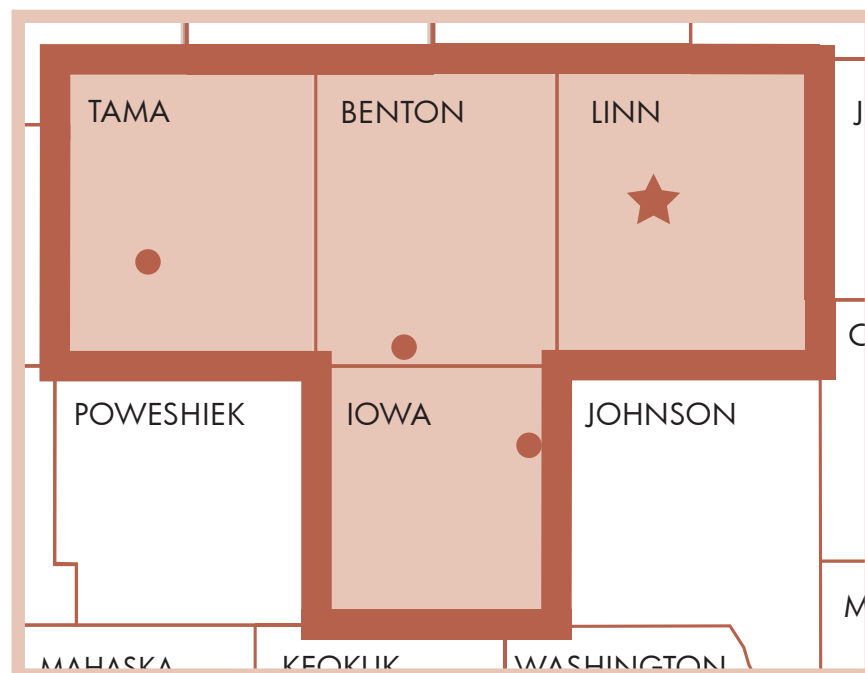
Operation and
Disposal Support
from DNR
\$38,315.29

CEDAR RAPIDS/LINN COUNTY SWA REGIONAL COLLECTION CENTER

PARTICIPATION OVERVIEW		
	Number of Participants	Percent Participation
Households participating	3,124	3.13
Conditionally exempt small quantity generators	173	not available

TYPE OF WASTE COLLECTED		
	Subtotal Lbs.	Total Lbs.
Lead acid batteries managed locally	1,651	
Latex paint managed locally	88,240	
Used oil managed locally	0	
Other managed locally (sharps, electronics)	97,798	
TOTAL MANAGED LOCALLY		187,689
Household hazardous waste (HHW)		123,142
TOTAL POUNDS MANAGED		358,313
Amount distributed in a Swap Shop	47,482	

KEY POINTS SUMMARY	
Total pounds collected per household	104
Total pounds collected per CESQG	179





MAIN FACILITY:
Clinton County

MOBILE COLLECTION SERVICE: Clinton, Cedar, Jackson and Jones Counties

SATELLITE FACILITIES:
Cedar, Jackson and Jones Counties

POPULATION:
42,890 households

CONTACT INFO:
Clinton County Area Solid Waste Agency
4292 220th St.
Clinton, IA 52732

Brad Seward
(563) 243-4749

CLINTON COUNTY AREA REGIONAL COLLECTION CENTER

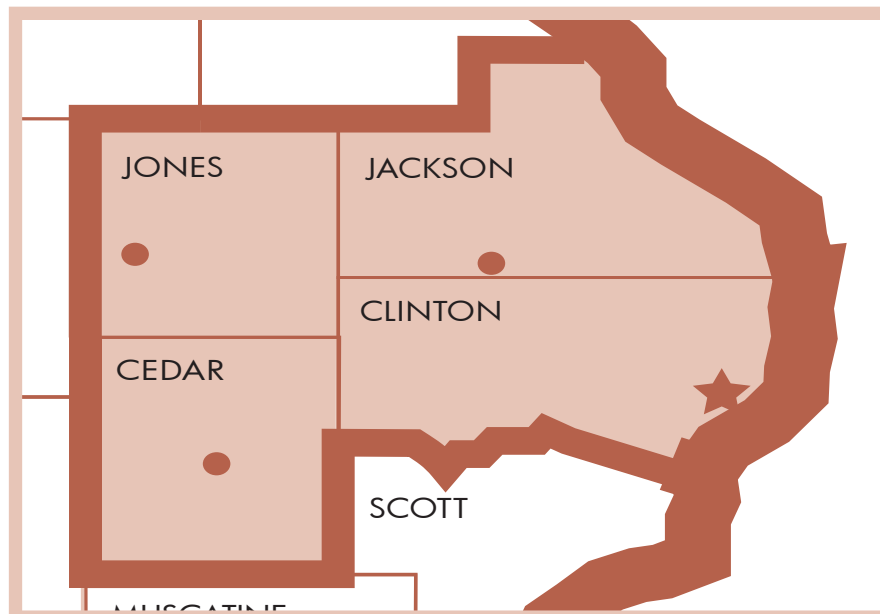
PARTICIPATION OVERVIEW		
	Number of Participants	Percent Participation
Households participating	823	1.9
Conditionally exempt small quantity generators	29	not available

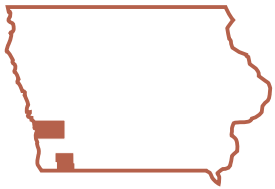
TYPE OF WASTE COLLECTED		
	Subtotal Lbs.	Total Lbs.
Lead acid batteries managed locally	39,620	
Latex paint managed locally	29,055	
Used oil managed locally	102,960	
Other managed locally (sharps, electronics)	27,025	
TOTAL MANAGED LOCALLY		198,660
Household hazardous waste (HHW)		35,166
TOTAL POUNDS MANAGED		233,826
Amount distributed in a Swap Shop	0	

KEY POINTS SUMMARY	
Total pounds collected per household	278
Total pounds collected per CESQG	162

Disposal Costs
\$20,559

Operation and Disposal Support from DNR
\$14,672.99





MAIN FACILITY:
Council Bluffs

MOBILE COLLECTION SERVICE:
Pottawattamie and Page Counties

POPULATION:
45,876 households

CONTACT INFO:
Council Bluffs Regional Collection Center
4441 Gifford Road
Council Bluffs, IA
51501

Tony Fiala
(712) 328-4985

COUNCIL BLUFFS REGIONAL COLLECTION CENTER

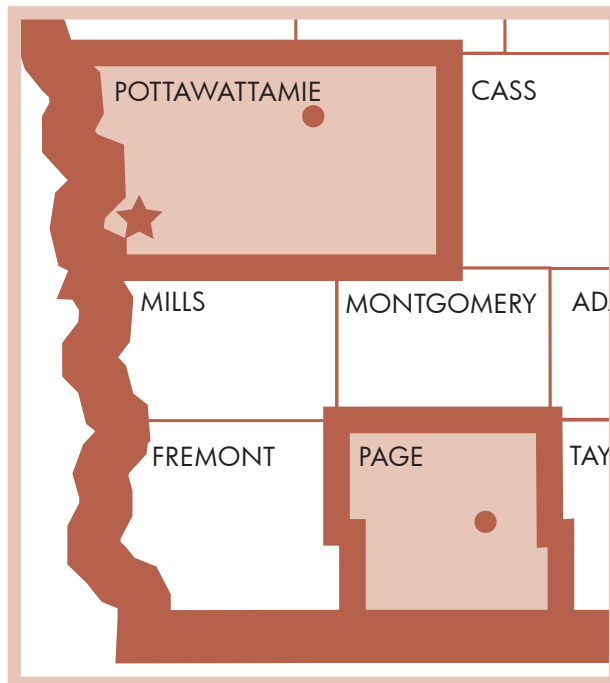
PARTICIPATION OVERVIEW		Number of Participants	Percent Participation
Households participating		1,699	3.70
Conditionally exempt small quantity generators		6	not available

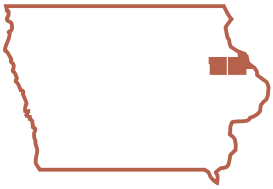
TYPE OF WASTE COLLECTED	Subtotal Lbs.	Total Lbs.
Lead acid batteries managed locally	22,720	
Latex paint managed locally	16,706	
Used oil managed locally	69,923	
Other managed locally (sharps, electronics)	89,969	
TOTAL MANAGED LOCALLY		199,318
Household hazardous waste (HHW)		46,711
TOTAL POUNDS MANAGED		282,957
Amount distributed in a Swap Shop	36,928	

KEY POINTS SUMMARY	
Total pounds collected per household	166
Total pounds collected per CESQG	86

Disposal Costs
\$24,915.56

Operation and Disposal Support from DNR
\$11,636.95





MAIN FACILITY:
Dubuque County

MOBILE COLLECTION SERVICE: Dubuque and Delaware counties

POPULATION:
40,524 households

CONTACT INFO:
Dubuque Regional Collection Center
925 Kerper Blvd.
Dubuque, IA 52001

Nancy Otterbeck
(563) 589-1720

DUBUQUE REGIONAL COLLECTION CENTER

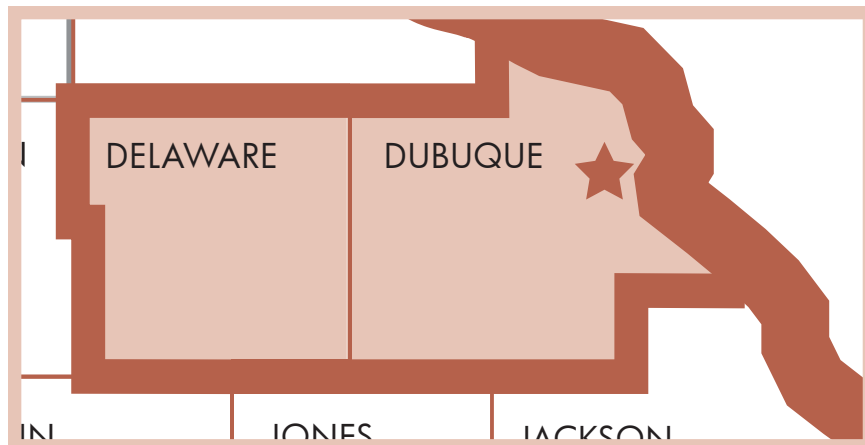
PARTICIPATION OVERVIEW		
	Number of Participants	Percent Participation
Households participating	606	1.49
Conditionally exempt small quantity generators	68	not available

TYPE OF WASTE COLLECTED		
	Subtotal Lbs.	Total Lbs.
Lead acid batteries managed locally	1,380	
Latex paint managed locally	0	
Used oil managed locally	0	
Other managed locally (sharps, electronics)	7,009	
TOTAL MANAGED LOCALLY		8,389
Household hazardous waste (HHW)		12,031
TOTAL POUNDS MANAGED		36,778
Amount distributed in a Swap Shop	16,358	

Disposal Costs
\$3,985.58

Operation and Disposal Support from DNR
\$8,497.30

KEY POINTS SUMMARY	
Total pounds collected per household	47
Total pounds collected per CESQG	120





MAIN FACILITY:
Des Moines County

MOBILE COLLECTION SERVICE: Des Moines, Henry, Lee Counties and Van Buren

SATELLITE FACILITY:
Lee County

POPULATION:
44,757 households

CONTACT INFO:
HazChem Center of Southeast Iowa
1818 W. Burlington Ave.
Burlington, IA 52601

Elyn Holton-Dean:
(319) 753-8126

Disposal Costs
\$7,514

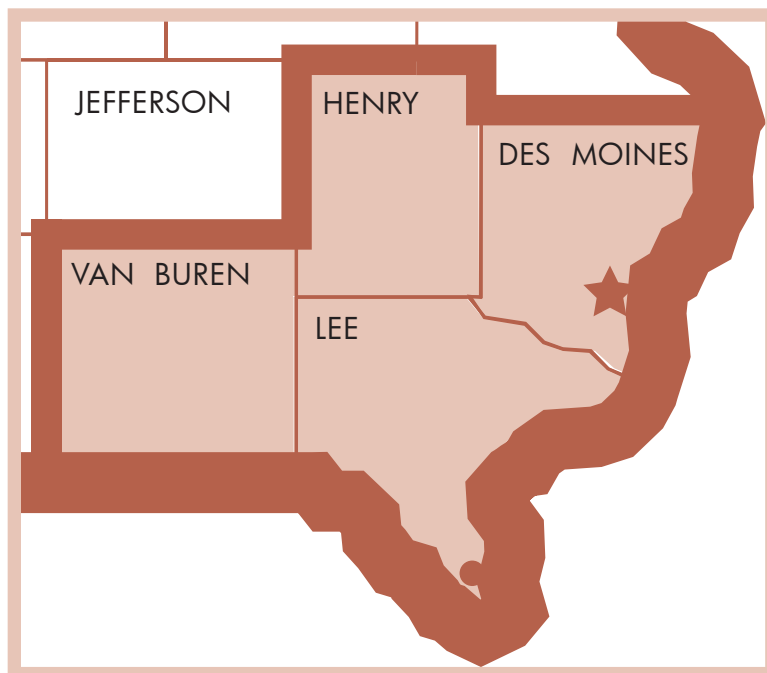
Operation and Disposal Support from DNR
\$5,030.70

HAZCHEM CENTER OF SOUTHEAST IOWA

PARTICIPATION OVERVIEW		
	Number of Participants	Percent Participation
Households participating	548	1.36
Conditionally exempt small quantity generators	51	not available

TYPE OF WASTE COLLECTED		
	Subtotal Lbs.	Total Lbs.
Lead acid batteries managed locally	0	
Latex paint managed locally	21,302	
Used oil managed locally	598	
Other managed locally (sharps, electronics)	0	
TOTAL MANAGED LOCALLY		21,900
Household hazardous waste (HHW)		9,109
TOTAL POUNDS MANAGED		33,688
Amount distributed in a Swap Shop	2,679	

KEY POINTS SUMMARY	
Total pounds collected per household	41
Total pounds collected per CESQG	228





MAIN FACILITY:
Johnson County

MOBILE COLLECTION SERVICE:
Selected cities in Washington County

POPULATION:
44,080 households

CONTACT INFO:
Iowa City RCC
3900 Hebl Ave. SW
Iowa City, IA 52240

Dave Elias
(319) 356-5170

IOWA CITY REGIONAL COLLECTION CENTER

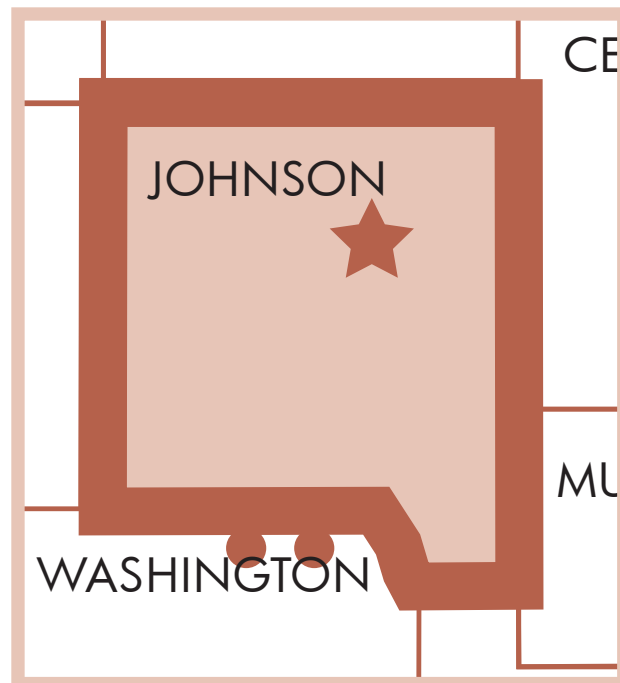
PARTICIPATION OVERVIEW		
	Number of Participants	Percent Participation
Households participating	1,794	4.06
Conditionally exempt small quantity generators	29	not available

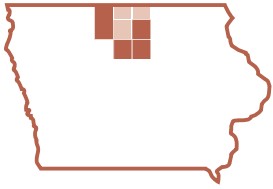
TYPE OF WASTE COLLECTED		
	Subtotal Lbs.	Total Lbs.
Lead acid batteries managed locally	12,090	
Latex paint managed locally	45,369	
Used oil managed locally	54,200	
Other managed locally (sharps, electronics)	229,750	
TOTAL MANAGED LOCALLY		341,409
Household hazardous waste (HHW)		75,011
TOTAL POUNDS MANAGED		425,250
Amount distributed in a Swap Shop	8,830	

Disposal Costs
\$78,995

Operation and Disposal Support from DNR
\$16,588.84

KEY POINTS SUMMARY	
Total pounds collected per household	232
Total pounds collected per CESQG	197





MAIN FACILITY:
Cerro Gordo County

SATELLITE FACILITIES:
Kossuth County

MOBILE COLLECTION SERVICE: Cerro Gordo, Franklin, Kossuth Counties and select cities in Worth, Hancock, and Winnebago Counties

POPULATION:
59,840 households

CONTACT INFO:
Landfill of North Iowa
15942 Killdeer Ave.
Clear Lake, IA 50428

Bill Rowland
(641) 357-5452

LANDFILL OF NORTH IOWA REGIONAL COLLECTION CENTER

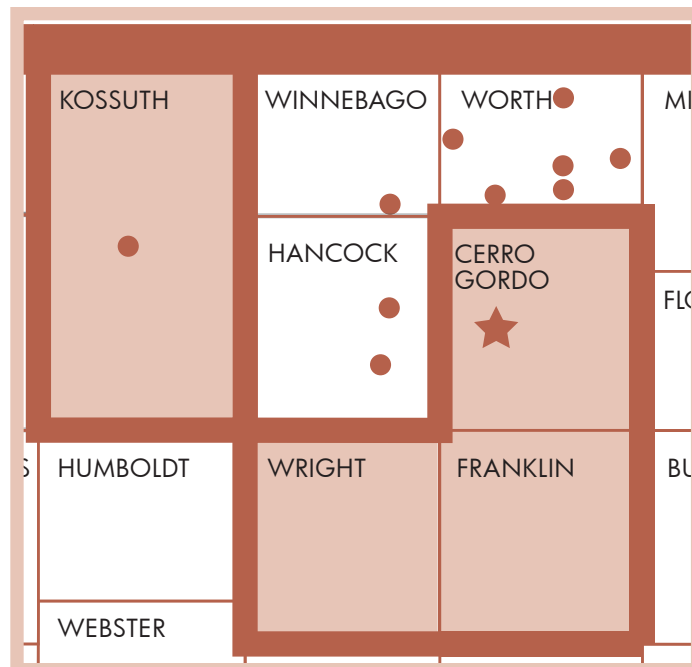
PARTICIPATION OVERVIEW		Number of Participants	Percent Participation
Households participating		805	1.4
Conditionally exempt small quantity generators		54	not available

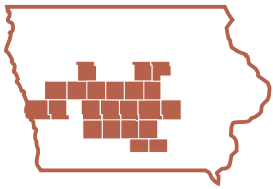
TYPE OF WASTE COLLECTED	Subtotal Lbs.	Total Lbs.
Lead acid batteries managed locally	14,600	
Latex paint managed locally	20,800	
Used oil managed locally	12,240	
Other managed locally (sharps, electronics)	2,111	
TOTAL MANAGED LOCALLY		49,751
Household hazardous waste (HHW)		45,277
TOTAL POUNDS MANAGED		96,357
Amount distributed in a Swap Shop	1,329	

KEY POINTS SUMMARY	
Total pounds collected per household	101
Total pounds collected per CESQG	276

Disposal Costs
\$20,107.74

Operation and Disposal Support from DNR
\$19,372.14





MAIN FACILITY:
Polk County

SATELLITE FACILITIES:
Adair, Boone,
Calhoun, Carroll,
Crawford, Grundy,
Hardin, Harrison,
Jasper, Madison,
Marion, Marshall,
Shelby and Story
Counties

**MOBILE COLLECTION
SERVICE:** Dallas,
Greene, Lucas,
Monroe, Poweshiek,
and Warren Counties

POPULATION:
337,597 households

CONTACT INFO:
MWA Regional
Collection Center
225 Prairie Dr.
Bondurant, IA 50035

Judi Mendenhall
(515) 967-5512

Disposal Costs
\$177,359.34

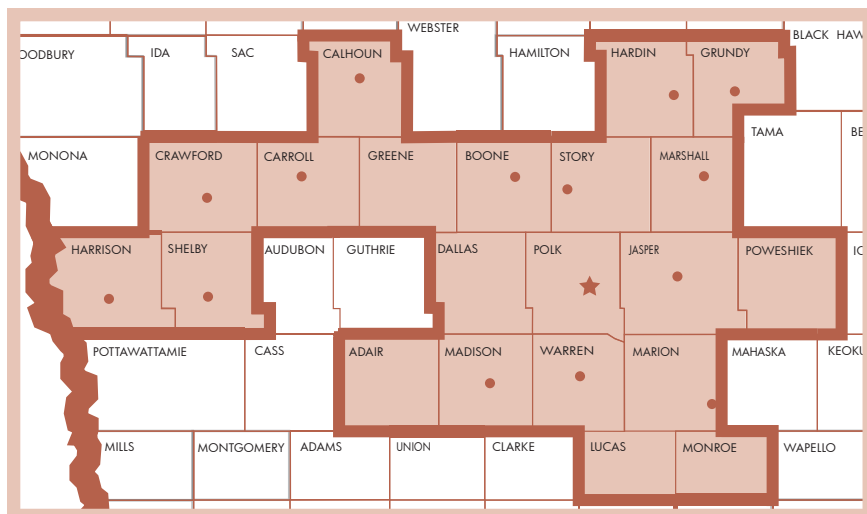
**Operation and
Disposal Support
from DNR**
\$42,357.54

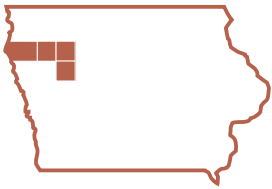
METRO WASTE AUTHORITY REGIONAL COLLECTION CENTER

PARTICIPATION OVERVIEW	Number of Participants	Percent Participation
Households participating	7,072	2.09
Conditionally exempt small quantity generators	215	not available

TYPE OF WASTE COLLECTED	Subtotal Lbs.	Total Lbs.
Lead acid batteries managed locally	18,626	
Latex paint managed locally	82,120	
Used oil managed locally	59,289	
Other managed locally (sharps, electronics)	347,466	
TOTAL MANAGED LOCALLY		507,501
Household hazardous waste (HHW)		129,666
TOTAL POUNDS MANAGED		695,412
Amount distributed in a Swap Shop	58,245	

KEY POINTS SUMMARY	
Total pounds collected per household	95
Total pounds collected per CESQG	1142





MAIN FACILITY:
Cherokee County

MOBILE COLLECTION SERVICE: Plymouth, Cherokee, Buena Vista and Sac Counties

POPULATION:
22,249 households

CONTACT INFO:
PCB Regional Collection Center
1805 Linden St.
Cherokee, IA 51012

Dennis Henrich
(712) 225-3749

Disposal Costs
\$21,822.38

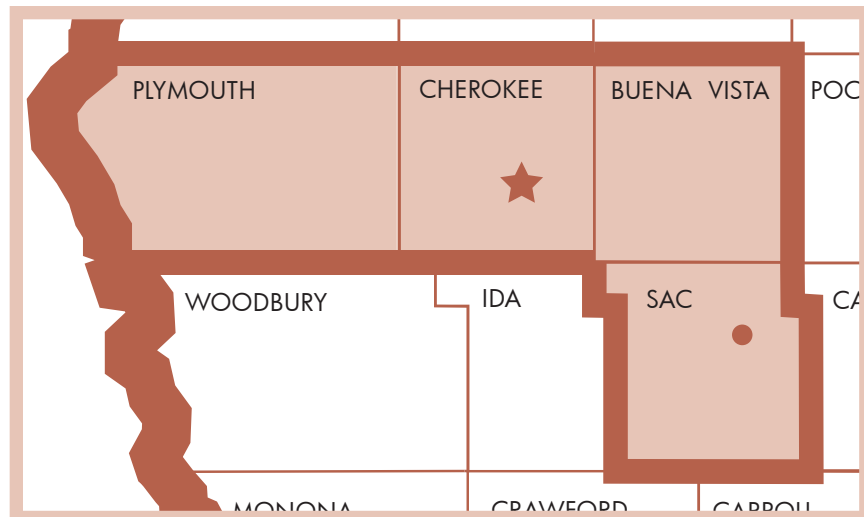
Operation and Disposal Support from DNR
\$12,086.99

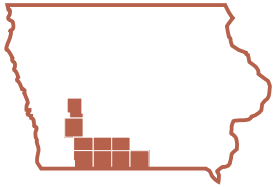
PCB REGIONAL COLLECTION CENTER

PARTICIPATION OVERVIEW		
	Number of Participants	Percent Participation
Households participating	618	2.7
Conditionally exempt small quantity generators	5	not available

TYPE OF WASTE COLLECTED		
	Subtotal Lbs.	Total Lbs.
Lead acid batteries managed locally	0	
Latex paint managed locally	4,800	
Used oil managed locally	800	
Other managed locally (sharps, electronics)	13,427	
TOTAL MANAGED LOCALLY		19,027
Household hazardous waste (HHW)		23,778
TOTAL POUNDS MANAGED		43,057
Amount distributed in a Swap Shop	252	

KEY POINTS SUMMARY	
Total pounds collected per household	59
Total pounds collected per CESQG	1,223





MAIN FACILITY:
Union County

SATELLITE FACILITIES:
Audubon, Cass,
Clarke, and WRD
Counties (Wayne,
Ringgold, Decatur)

MOBILE COLLECTION SERVICE: Adams and Taylor counties

POPULATION:
5,242 households

CONTACT INFO:
Prairie RCC
1774 Lark Ave.
P.O. Box 227
Creston, IA 50801

Leslie Bullock-
Goldsmith
(641) 347-5022

Disposal Costs
\$10,166.75

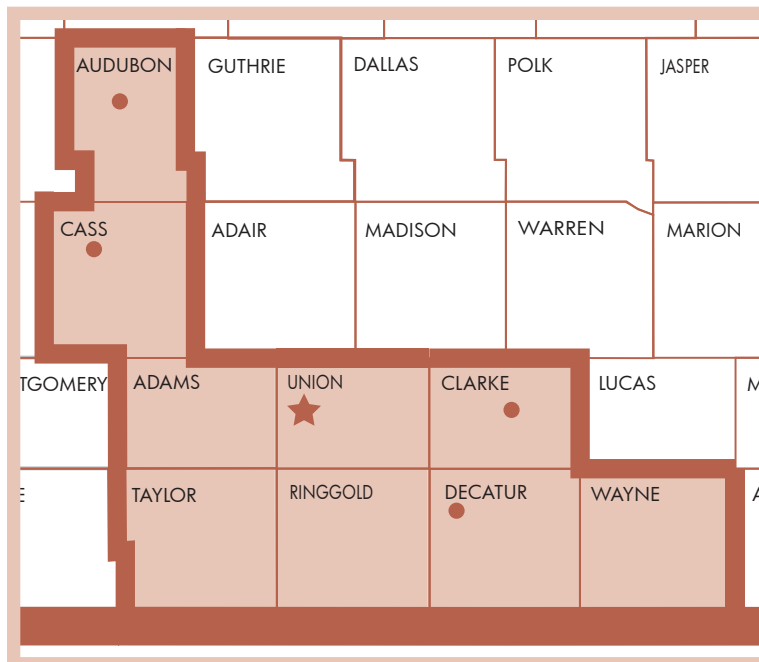
Operation and Disposal Support from DNR
\$4,067.61

PRAIRIE SWA REGIONAL COLLECTION CENTER

PARTICIPATION OVERVIEW		
	Number of Participants	Percent Participation
Households participating	388	1.08
Conditionally exempt small quantity generators	13	not available

TYPE OF WASTE COLLECTED		
	Subtotal Lbs.	Total Lbs.
Lead acid batteries managed locally	5,600	
Latex paint managed locally	7,946	
Used oil managed locally	3,409	
Other managed locally (sharps, electronics)	64,932	
TOTAL MANAGED LOCALLY		81,887
Household hazardous waste (HHW)		9,341
TOTAL POUNDS MANAGED		96,941
Amount distributed in a Swap Shop	5,713	

KEY POINTS SUMMARY	
Total pounds collected per household	280
Total pounds collected per CESQG	175





MAIN FACILITY:
Jefferson County

SATELLITE FACILITIES:
Jefferson, Keokuk and
Washington Counties

POPULATION:
19,291 households

CONTACT INFO:
SEMCO Regional
Collection Center
29997 Hwy. 78
Richland, IA 52585

Ray Griffin
(319) 456-6171

SOUTHEAST IOWA MULTI COUNTY SWA (SEMCO) REGIONAL COLLECTION CENTER

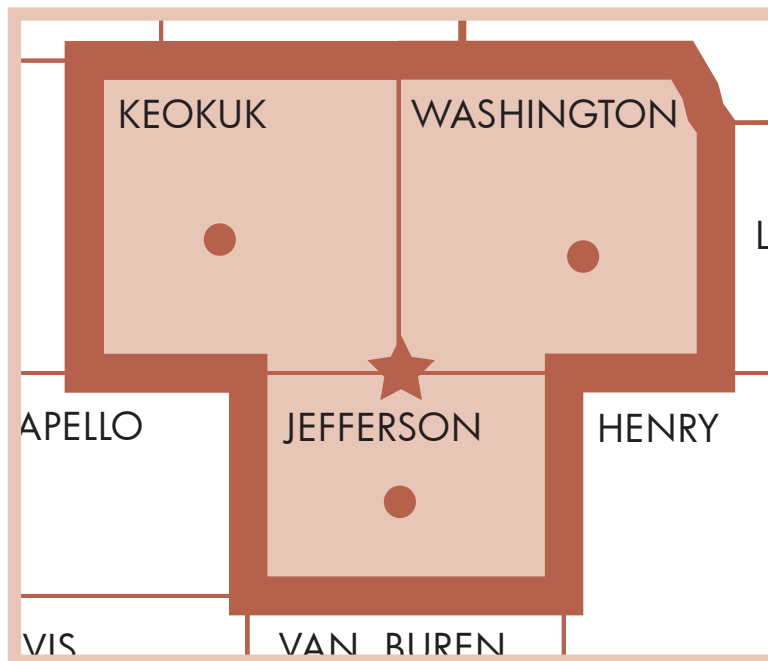
PARTICIPATION OVERVIEW	Number of Participants	Percent Participation
Households participating	68	0.5
Conditionally exempt small quantity generators	0	not available

TYPE OF WASTE COLLECTED	Subtotal Lbs.	Total Lbs.
Lead acid batteries managed locally	0	
Latex paint managed locally	0	
Used oil managed locally	0	
Other managed locally (sharps, electronics)	0	
TOTAL MANAGED LOCALLY		0
Household hazardous waste (HHW)		2,990
TOTAL POUNDS MANAGED		2,990
Amount distributed in a Swap Shop	0	

Disposal Costs
\$2,590

Operation and
Disposal Support
from DNR
\$1,313.15

KEY POINTS SUMMARY	
Total pounds collected per household	43
Total pounds collected per CESQG	0





MAIN FACILITY:
Sioux City

POPULATION:
39,151 households

CONTACT INFO:
Sioux City Regional
Collection Center
405 6th St.
Sioux City, IA 51101

Dave Dorsett
(712) 279-6222

Disposal Costs
\$22,941.25

Operation and
Disposal Support
from DNR
\$6,388.11

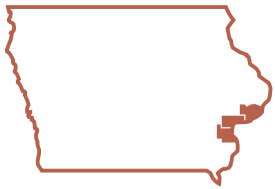
SIOUX CITY REGIONAL COLLECTION CENTER

PARTICIPATION OVERVIEW	Number of Participants	Percent Participation
Households participating	376	0.96
Conditionally exempt small quantity generators	0	not available

TYPE OF WASTE COLLECTED	Subtotal Lbs.	Total Lbs.
Lead acid batteries managed locally	1,005	
Latex paint managed locally	4,842	
Used oil managed locally	2,617	
Other managed locally (sharps, electronics)	185	
TOTAL MANAGED LOCALLY		8,649
Household hazardous waste (HHW)		22,773
TOTAL POUNDS MANAGED		34,576
Amount distributed in a Swap Shop	3,154	

KEY POINTS SUMMARY	
Total pounds collected per household	91
Total pounds collected per CESQG	0





MAIN FACILITY:
Scott County

SATELLITE FACILITY:
Muscatine County

MOBILE COLLECTION SERVICE: Louisa County

POPULATION:
78,181 households

CONTACT INFO:
Waste Commission of Scott County
P.O. Box 563
Buffalo, IA 52728

Kathy Morris
(563) 381-1300

Disposal Costs
\$31,917.58

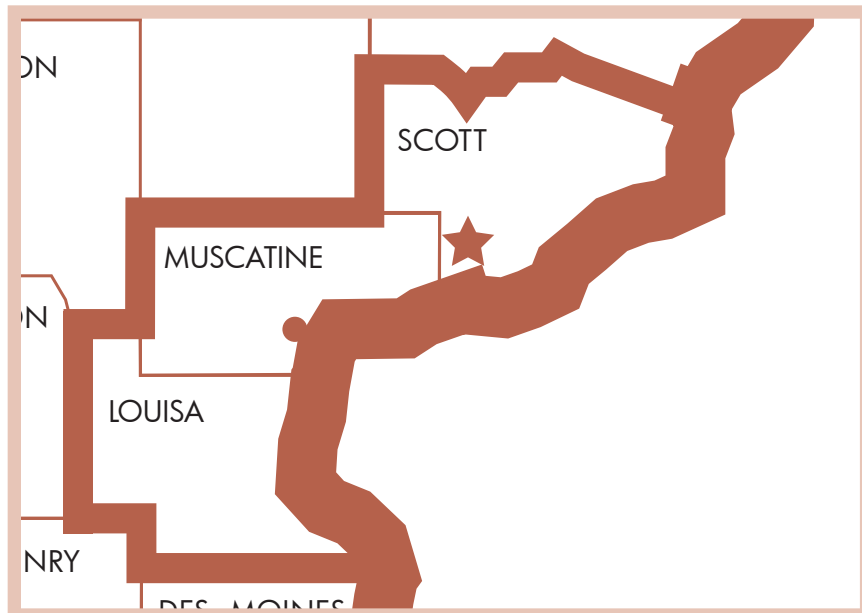
Operation and Disposal Support from DNR
\$25,109.88

WASTE COMMISSION OF SCOTT COUNTY REGIONAL COLLECTION CENTER

PARTICIPATION OVERVIEW		Number of Participants	Percent Participation
Households participating		2,582	3.3
Conditionally exempt small quantity generators		180	not available

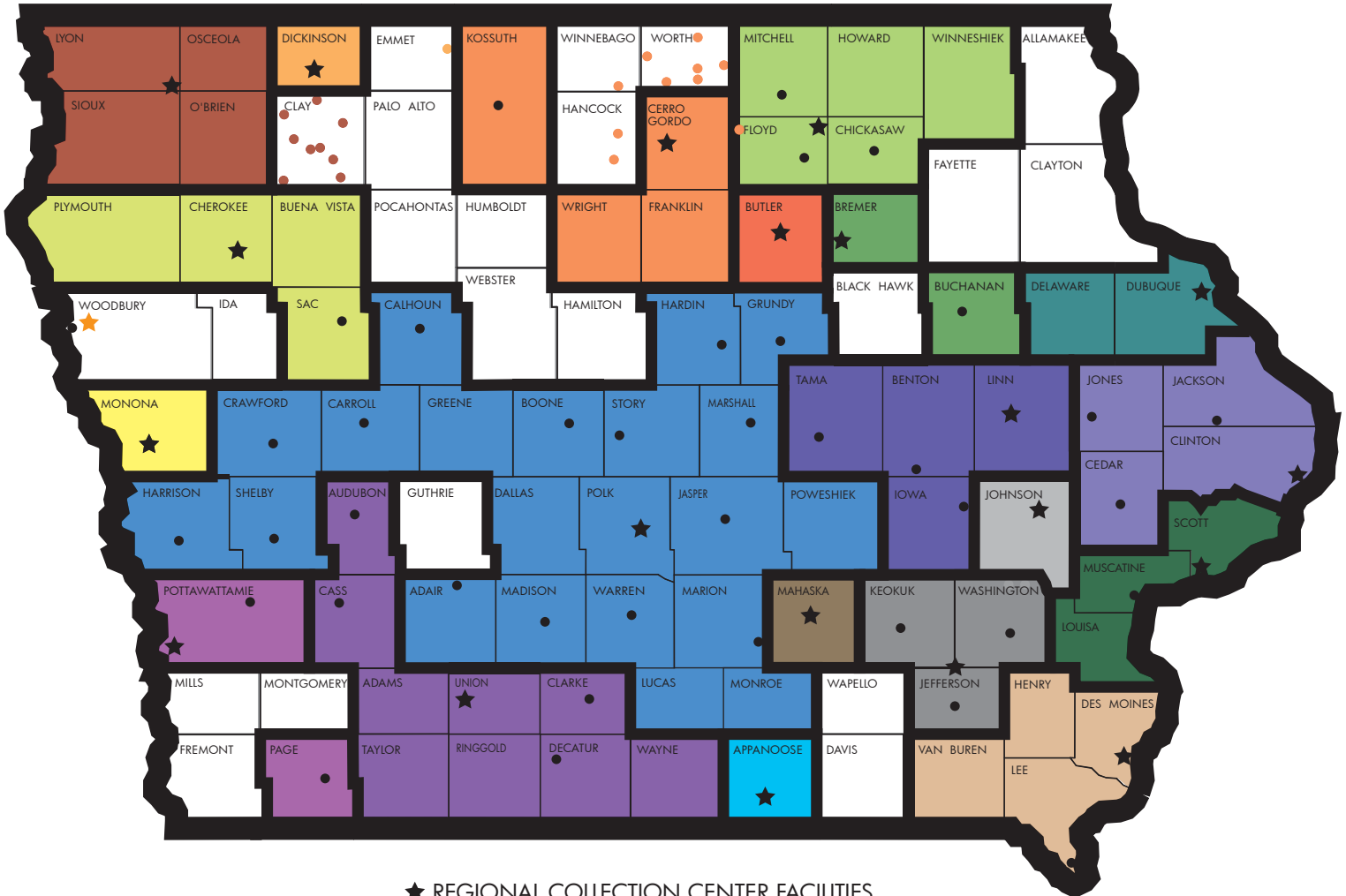
TYPE OF WASTE COLLECTED	Subtotal Lbs.	Total Lbs.
Lead acid batteries managed locally	25,046	
Latex paint managed locally	148,920	
Used oil managed locally	166,120	
Other managed locally (sharps, electronics)	151,221	
TOTAL MANAGED LOCALLY		491,307
Household hazardous waste (HHW)		82,631
TOTAL POUNDS MANAGED		616,867
Amount distributed in a Swap Shop	42,929	

KEY POINTS SUMMARY	
Total pounds collected per household	220
Total pounds collected per CESQG	258



SECTION 2:
REGIONAL
COLLECTION
CENTER
CONTACT
INFORMATION

HHM REGIONAL COLLECTION CENTERS



★ REGIONAL COLLECTION CENTER FACILITIES

● REGIONAL COLLECTION CENTER SATELLITES

- NIASWA
- Serviced City
- Dickinson Co.
- Serviced City
- Landfill of North Iowa
- Serviced City
- FMC
- PCB SWA
- Butler Co.
- Bremer Co.
- Monona Co.
- Metro Waste Authority
- Cedar Rapids/Linn Co. SWA
- Dubuque Co.
- Clinton Co. SWA
- Council Bluffs
- Prairie SWA
- Mahaska Co.
- SEMCO
- Iowa City
- Serviced City
- Waste Commission of Scott Co.
- Rathbun Area SWC
- HazChem Center
- Sioux City HHM Collection Center

IOWA REGIONAL COLLECTION CENTER CONTACT INFORMATION

Main facilities are in CAPS with satellite facilities listed beneath

RCC	PHONE	COUNTIES SERVED	WEBSITE
BREMER CO. Buchanan Co. Butler Co.	319-352-4574 319-440-1080 319-267-2070	Bremer Buchanan Butler	
CEDAR RAPIDS/LINN CO. SWA Benton Co. Iowa Co. Tama Co.	319-373-4771 319-828-4401 319-472-2211 641-484-3341	Linn Benton Iowa Tama	www.solidwasteagency.org/services_pollution.asp
CLINTON CO. AREA SWA Cedar Co. Jackson Co. Jones Co.	563-243-4749	Clinton Cedar Jackson Jones	www.ccaswa.org www.jcsda.org
COUNCIL BLUFFS Page Co. Pottawattamie Co.	712-328-4985 712-542-4215 712-328-4985	Pottawattamie Page	www.health.council-bluffs.ia.gov/solid-waste.asp
DICKINSON CO.	712-338-4786	Dickinson •City of Armstrong (Emmet Co.)	
DUBUQUE CO.	563-589-1720	Dubuque Delaware	www.dmaswa.org
FLOYD-MITCHELL-CHICKASAW SWMA Mitchell Co. Chickasaw Co. Floyd Co.	877-982-4288	Floyd Mitchell Chickasaw Howard Winneshiek	www.fmclandfill.org/householdhazmat.html
HAZCHEM CENTER – DES MOINES CO. RCC Lee Co.	319-753-8758	Des Moines Henry Lee Van Buren	www.wastewrap.org
IOWA CITY RCC	319-356-5170	Johnson	www.icgov.org/hazardous.htm
LANDFILL OF NORTH IOWA Kossuth Co.	641-357-5452 515-924-3739	Cerro Gordo Kossuth Franklin Wright •Cities of Klemme and Garner (Hancock Co.) •Forest City (Winnebago Co.) •Cities of Joice, Hanlontown, Northwood, Kennset, Manly and Grafton (Worth Co.) •Nora Springs (Floyd Co.)	www.landfillnorthiowa.org

RCC	PHONE	COUNTIES SERVED	WEBSITE
SEMCO Jefferson Keokuk Washington	319-456-6171 641-472-2952 641-622-3080 319-653-6373	Jefferson Keokuk Washington	
RATHBUN AREA RCC Opening Spring 2008	641-437-7279	Appanoose	
SIOUX CITY RCC	712-279-6222	Cities of Sioux City and Sergeant Bluff	
WASTE COMM. OF SCOTT CO. Muscatine Co.	563-381-1300 563-263-9689	Scott Muscatine Louisa	

HOUSEHOLD HAZARDOUS MATERIALS REFERENCE LIST (not inclusive)

The CAPITALIZED HEADINGS are categories listed in the Groundwater Protection Act. The materials listed under the headings are there to assist you in identifying the types of products included under the HHM program.

MOTOR OILS & MOTOR OIL ADDITIVES

- All motor oil products
- Engine lubricants
- Oil and transmission fluid additives
- Transmission fluid
- Oil

MOTOR OIL FILTERS

- All types, canister or replaceable filter elements

GASOLINE & DIESEL ADDITIVES

- All types of gas treatments & gas line freeze-up products

DEGREASERS

- All engine cleaners, most of these are also solvents, many come in aerosol cans

WAXES & POLISHES (except nail polish)

- Shoe polishes
- Car waxes
- Spray dust cleaners
- Floor waxes
- Furniture polishes
- Furniture stains

SOLVENTS (except water)

- Mineral spirits
- Alcohols
- Naphtha
- Turpentine
- Cresol

PAINTS (except latex-based materials)

- All other paints-brush or spray including aerosol paints
- Lacquers & thinners (except water)

CATHODE RAY TUBES, CRT's (effective June 1, 2006)

- Found in Computer monitors and television sets (not LCD or Plasma screens)

CAUSTIC HOUSEHOLD CLEANERS

- Drain cleaners
- Most oven cleaners
- Brass cleaners
- Toilet bowl cleaners
- Rust removers
- Silver & Chrome

SPOT & STAIN REMOVERS (petroleum base)

PETROLEUM BASED FERTILIZERS

PESTICIDES

Any insecticide product including, but not limited to:

- Yard & garden sprays
- Flea & tick products for pets
- Moth balls
- Rodenticides
- Bug sprays or stick creams
- Roach powder
- Fly strips
- Algaecides
- Fungicides
- Herbicides

MISCELLANEOUS

- Lead-acid batteries
- Pool chemicals
- Photography chemicals
- Eye glass cleaner
- Windshield wiper solution
- Self-lighting charcoal
- Gun cleaner solution
- All aerosols (except personal care products)
- Rechargeable batteries
- Antifreeze
- Wood preservatives
- Butane lighters
- Most glues & adhesives
- Charcoal lighter fluid
- Jewelry cleaner

QUESTIONS?

Contact the Department of Natural Resources at 515-281-4367
or visit our website at www.iowa.dnr.gov