

# Household Hazardous Materials Programs



A Report to the Iowa General Assembly

January 2006

Iowa Department of Natural Resources  
Energy and Waste Management Bureau

# **Household Hazardous Materials Programs**

## **Toxic Cleanup Days Regional Collection Centers**

A Report to the Iowa General Assembly

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Iowa Department of Natural Resources  
Jeffrey R. Vonk, Director

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# Executive Summary

This report summarizes accomplishments of Toxic Cleanup Days and Regional Collection Centers, two programs that play an important role in educating the public and providing for the appropriate disposal of hazardous waste. Both are operated by the Department of Natural Resources, which provides this report to the Iowa General Assembly in accordance with Iowa Code Section 455F.8. The Code of Iowa authorizes the Department of Natural Resources to provide for the collection and disposal of small amounts of hazardous wastes that are stored in residences, on farms, or in certain small businesses.



A bottle of Mercury collected at a Regional Collection Center.

**The Energy and Waste Management Bureau of the Department of Natural Resources has developed a variety of Household Hazardous Material programs that work together in promoting proper purchases, safe use, storage and disposal of these wastes.**

**Regional Collection Centers (RCC)** — Permanent collection facilities designed to assist the public and small quantity generators with proper management and disposal of hazardous waste. Grants are provided to a local government or public agency on behalf of local governments who wish to establish a Regional Collection Center in their area.

**Toxic Cleanup Days** (illustrated on this page) — One-day collection events for household hazardous waste in counties that are not yet served by a permanent RCC. Cost share is available for any local entity who would like to host a Toxic Cleanup day in their service area.

**Retailers Consumer Education Program** — (RCEP) A retailer permit and consumer information program to assist retailers with compliance in the Household Hazardous Material (HHM) Retailer permit and consumer education program. All retailers who sell HHMs are required by law to purchase an HHM permit and post signs to help educate the general public about HHMs. Permits are renewed annually and customer information signs are provided free of charge to all participating retailers by the DNR. Applications are accepted annually for competitive grants addressing retailer compliance and consumer awareness.

**Household Hazardous Materials Education** — A grant program to assist local governments and others to educate the public on the proper purchase, use, storage and disposal of household hazardous waste.

**Applications for all of these programs are available online at [www.iowadnr.com](http://www.iowadnr.com) or by calling (515) 281-4367.**



## Household Hazardous Waste

Hazardous waste is 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).

Children are of special concern, as they are more susceptible to toxins than adults. A majority of all poisonings in Iowa (54 percent) were children under the age of six. In children especially, toxins may impair their immune and reproductive systems. A total of 17,801 exposures to hazardous materials were reported to the Iowa Poison Control Center in 2004.

Hazardous waste also has a negative impact on the environment. It contaminates groundwater and surface water, and it destroys the effectiveness of wastewater treatment plants and septic systems. Dumping household hazardous wastes into drainage ditches or storm sewers may cause toxins to flow untreated into rivers and lakes contaminating Iowa's drinking water in approximately 8 percent of the systems which effects 41.6 percent of residents. Improper disposal of household hazardous waste may contaminate our groundwater, which is the primary source of drinking water for most Iowa communities.

## Toxic Cleanup Days- Summary of 2005

TCD host applications were sent to County Conservation Boards in the 30 counties without regional collection center services late in 2004 and early 2005. This mailing was followed up with a mailing to both County Board of Supervisors and City officials. Neither mailing resulted in Toxic Cleanup Day events being funded in 2005.

The DNR is preparing to meet with city and county officials to discuss the benefits of hazardous materials management whether through periodic Toxic Cleanup Day events or permanent Regional Collection Center services. As part of a comprehensive marketing and public awareness campaign, the DNR is developing the process to conduct DNR-sponsored TCD events. These events will showcase new household hazardous materials education materials as part of the comprehensive marketing initiative.

## Poison Control

A total of 17,801 exposures to household hazardous materials were reported to the Iowa Poison Control Center in 2004. 54% of the poisonings in Iowa were children under the age of six.

## Household Hazardous Waste

**Household hazardous waste** is defined as the unused or leftover portions of household hazardous materials. Household hazardous materials possess any or all of the following characteristics:

**Toxic** — poisonous, causing cancer or other health problems.

**Corrosive** — destroys human tissues or corrodes metal

**Flammable** — easily ignitable and will burn

**Reactive** — explosive through exposure to heat, sudden shock, pressure or incompatible chemicals

## Toxic Cleanup Days

Toxic Cleanup Days are voluntary, one-day events in which a designated site is promoted and staffed as a drop-off point for disposal of small amounts (220 pounds or 25 gallons per household) of hazardous materials. TCDs are provided at no charge for households and farms. These events are publicized through the media and hosted by individual counties. Funding and administrative assistance are provided by the DNR.



## Household Hazardous Program Updates

### Retailers Consumer Education Program: Compliance Survey

In the fall of 2004 through spring of 2005, retailers selling household hazardous materials (HHMs) were surveyed to gauge compliance with Iowa law. Volunteers through the DNR's Keepers of the Land Program conducted on-site compliance surveys. Six hundred businesses in 91 of Iowa's 99 counties were randomly selected for on-site compliance surveys conducted by Keepers of the Land volunteers.

Survey results showed:

- ◆ 98 percent of businesses surveyed had obtained the required permit
- ◆ 10 percent of businesses were in compliance with Iowa law regarding provision of consumer education materials.

HHM retailers are required to provide consumers with information regarding products that are considered more environmentally friendly, proper HHM purchase, use, storage and disposal. The DNR is establishing an advisory committee to discuss methods of increasing retailer's awareness of their requirements, barriers to compliance, and review of existing educational materials. Representatives of chemical manufacturers, retailer associations, regional collection center managers, EPA, etc. will be invited to participate in the program review.

### Code and Administrative Rule Changes

House File 602, passed during the 2005 legislative session, redistributes the funding by shifting approximately \$247,000 annually from establishment grants to semiannual assistance payments. House File 602 also made private agencies eligible to receive semiannual assistance payments. In light of the code change, the DNR is in the process of updating the Administrative Rules (IAC 567 chapter 123 & Chapter 211) dealing with the Regional Collection Center program. The Environmental Protection Commission will be asked to approve the administrative rule changes at their January meeting. The proposed rules were published in the November 9 Iowa Administrative Bulletin and can be viewed at <http://www.legis.state.ia.us/Rules/Current/Bulletin/>.

## Education Programs in Progress

### Rural Outreach for Household Hazardous Material Management

The Department is partnering with the U.S. Department of Agriculture, Rural Development Division, to provide HHM education to rural residents of the state of Iowa. Agren Inc. is developing educational materials for Regional Collection Centers to use in their outreach and education programs. These educational materials will focus exclusively on assisting rural residents and farm businesses with management of HHM's. State wide training tools will be developed for all RCC's and interested partners.

### School Chemical Management

The DNR is partnering with the Environmental Protection Agency to provide mini-grants to schools who participate in an Advanced Rehab the Lab Chemical Management Training Course. The training classes are conducted by Growing Green Communities, offered over the ICN, and instruct Junior and Senior High school educators on proper chemical management of school laboratories, industrial tech areas, and custodial areas. Upon completion of training, schools may receive \$900 per building to implement the chemical management procedures taught in the class. An EPA grant of \$75,000 allows the DNR to assist more than 80 Iowa schools.



## Regional Collection Centers

Regional Collection Centers (RCCs) are permanent collection facilities designed to assist the public and conditionally exempt small quantity generators 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.

The DNR received seven requests for funding for Regional Collection Centers. Funding requests totaled \$504,565 and affected 15 counties. This is the largest request for funding in the history of the RCC program. Funding was approved for six applications covering 12 counties. The grants enabled six counties to begin an RCC program and six counties to improve existing RCC programs.

### Record Request for Funding in 2005

Counties requested \$504,565 dollars to establish Regional Collection Centers in their areas. These requests affected 15 percent of the counties in the State of Iowa. Beginning in 2006, 70 percent of Iowa counties will have some type of permanent program in place for proper management of household hazardous materials.

### 2005 RCC Expenditures

Number of Establishment Grants Awarded	Six
Total Establishment Grant Awards	\$348,288
Total Operations Support Provided	\$169,433
Total Department Contribution	\$517,721

## Regional Collection Centers - Summary of 2005

Avg. Hazardous Waste Amount Collected Per Household Participant	94 lbs
Avg. Hazardous Waste Amount Collected Per Business Participant	272 lbs
Total Hazardous Waste Collected - Managed Locally (i.e., electronics, motor oil, lead acid batteries)	1,542,308 lbs
Total contracted Hazardous Waste Disposal	612,378 lbs
Total Hazardous Materials Reused	265,924 lbs
Total Hazardous Waste Collected	2,420,612 lbs

Note: RCC accomplishments during fiscal year 2005 can be found on page 10 of this report.

# **Section 1:**

## Regional Collection Centers





# Regional Collection Centers

## RCCs serve two purposes

**1. Educate the public** regarding the proper management of household hazardous materials (i.e., purchase of safer alternatives, buy only what you need, use what you buy, give away what you cannot use, proper storage and disposal).

**2. Provide regular access** to properly dispose of hazardous materials for which alternative uses are not available.

Regional Collection Centers (RCCs) are Iowa's answer for disposal of hazardous materials from households, farms and conditionally exempt small quantity generators<sup>1</sup>, businesses, schools, ect.

An RCC is a public, locally managed facility for the collection, sorting and packaging of hazardous materials prior to their transport for proper disposal. Satellites are smaller drop off sites that contract with RCCs for disposal of hazardous materials. In 1991, the Iowa General Assembly provided for the establishment of regional collection centers (455F.8A) to serve households and conditionally exempt small quantity generators on an ongoing basis. The establishment of the RCC program has provided a permanent, ongoing and cost-effective mechanism for the proper management of hazardous materials in Iowa.

Since the inception of this program, more than 16 million pounds of waste have been diverted from Iowa landfills through RCCs, including more than 4.8 million pounds of toxic, flammable or reactive household hazardous waste. These materials pose significant threat to Iowa's groundwater, wildlife, solid waste haulers, landfill operators, children, families and pets through personal exposure or contamination. RCCs have assisted households, farming operations, schools and businesses in disposal of thousands of pounds of banned pesticides, mercury, various organic solvents and a wide scope of other toxic and hazardous chemicals.

Currently, 17 operating RCCs serve 69 counties with a variety of programs including daily access to a hazardous material drop-off site. Fifteen cities in four counties have contracts with RCC's to provide clean up day events twice a year. Facilities in Dickinson Co. and WRD (Wayne, Ringgold, Decatur counties) are under construction and are expected to begin operations in spring of 2006. Warren and Cass counties have just established satellite facilities and are expected to begin operations and shipping waste in 2006.

## Counties without RCC Services



It is the goal of the DNR program to have each county in Iowa included in the service area of an RCC.

A summary of the RCC accomplishments for fiscal year 2005 can be found on page ten.

A summary of information for the operations of all individual RCCs is provided on the following pages.

<sup>1</sup> A conditionally exempt small quantity generator (CESQG) meets the following criteria: Within one month will not generate more than 100 kilograms (approximately 220 lbs.) of hazardous materials, will not produce or store more than 22 lbs of an acute hazardous material (these are listed in 40CFR261.33) in one month, and never stores more than 1,000 kilograms (approximately 2,200 lbs.) of hazardous waste at any one time.



# Regional Collection Center (RCC) Accomplishments

Fiscal Year 2005

### RCC Benefits

- Permanent availability, often year-round
- Increase groundwater and aquifer protection
- Increase in worker safety for both Sanitation and Water Treatment Plants
- Decrease in hazardous exposures to humans and pets
- Decrease in 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

The following data are derived from 17 Regional Collection Centers currently in operation:

Total program cost <sup>1</sup> for FY 2005	\$2,273,462
Household hazardous waste disposed	612,755 lbs.
Latex paint managed locally	647,307 lbs.
Used motor oil managed locally	642,285 lbs.
Used lead-acid batteries managed locally	138,901 lbs.
Other waste (sharps, scrap metals, electronics, ect.)	706,279 lbs.
Materials reused locally through Swap Shop	292,978 lbs.
<b>TOTAL MANAGED LOCALLY*</b>	<b>2,398,167 lbs.</b>
<b>TOTAL AMOUNT OF WASTE COLLECTED**</b>	<b>2,897,793 lbs.</b>

Total Household Participation	23,992
Total Small Quantity Generator Participation	797
<b>Total Participation</b>	<b>24,789</b>

<b>County Coverage</b>	
<b>RCCS</b>	<b>17 counties</b>
<b>Satellites</b>	<b>32 counties</b>
<b>Mobile Collections</b>	<b>16 counties</b>
<b>Cities w/ Clean up Days only</b>	<b>4 counties</b>
<b>Total covered counties</b>	<b>69</b>

<b>Key Points Summary</b>	
Disposal cost per pound of <i>hazardous waste collected</i>	\$0.70
Program cost per pound of <i>total hazardous waste collected</i> ***	\$0.78
Average weight of waste collected per household	94 lbs
Average weight of waste collected per business	272 lbs
Total IDNR reimbursement per pound of <i>hazardous waste collected for contracted disposed</i>	\$0.21
Total IDNR reimbursement per pound of <i>total hazardous waste collected</i> ****	\$0.05

<sup>1</sup> Total program cost includes: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.  
<sup>\*</sup> Amount of material not contracted to a Hazardous Waste Contractor for disposal  
<sup>\*\*</sup> Includes Swap shop and non hazardous poundage.  
<sup>\*\*\*</sup> Total program cost per pound calculated by dividing total program cost by total pounds managed.  
<sup>\*\*\*\*</sup> Total IDNR Reimbursement per pound calculated by dividing total IDNR reimbursement by total pounds managed.



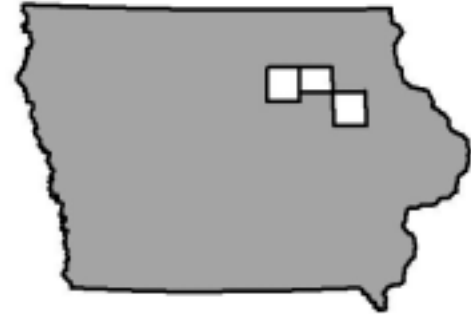
# Bremer County Regional Collection Center

**Population:**  
22,968 households

**Contact info:**  
Bremer Co. Regional  
Collection Center  
415 E. Bremer Ave.  
Waverly, IA 50677

(319) 352-4574

**Facility Service Area:**  
**Main Facility:** *Bremer County*  
**Satellite Facilities:** *Butler and Buchanan counties*



Participation Overview	Number of participants	Percent participation
Households participating	357	1.5
Conditionally exempt small quantity generators	8	NA <sup>1</sup>

Disposal costs \$7,856.40  
RCC disposal cost per pound \$0.78

Total RCC Expenditures\*  
\$74,668.40

Operation & Disposal Support From DNR  
\$2,539.55

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	0	
Latex paint managed locally	3,096	
Used oil managed locally	0	
Other managed locally (sharps,electronics)	0	
Total managed locally**		3,096
Household hazardous waste (HHW)		10,038
<b>TOTAL POUNDS MANAGED***</b>		<b>13,134</b>
Amount distributed in a Swap Shop		0

Key Points Summary	
Total pounds collected per household	155
Total pounds collected per CESQG	146
Total operational cost per pound of waste collected****	\$0.48

1 NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

\* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

\*\* Includes Swap shop and non hazardous poundage.

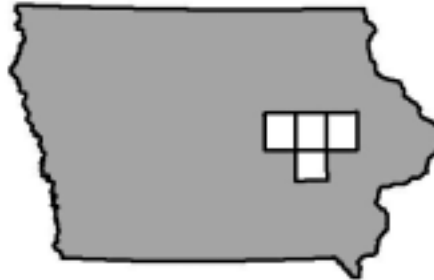
\*\*\* Includes waste managed locally with no contractor disposal costs.

\*\*\*\* Total Cost Per Pound of Waste managed calculated by dividing Total RCC Expenditures by Total Pounds Managed.



# Cedar Rapids/Linn County SWA Regional Collection Center

**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*

*Floyd Pelkey  
 (319) 373-4771*

Participation Overview	Number of participants	Percent participation
Households participating	2698	2.7
Conditionally exempt small quantity generators	133	NA <sup>1</sup>

Disposal costs \$31,206  
 RCC disposal cost per pound \$0.27

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	7315	
Latex paint managed locally	104,593	
Used oil managed locally	0	
Other managed locally (sharps,electronics)	199,171	
Total managed locally**		323,615
Household hazardous waste (HHW)		113,793
<b>TOTAL POUNDS MANAGED***</b>		<b>437,408</b>
Amount distributed in a Swap Shop	38,598	

Total RCC Expenditures\*  
 \$209,610

Operation & Disposal Support From DNR  
 \$29,441.28

Key Points Summary	
Total pounds collected per household	155
Total pounds collected per CESQG	146
Total operational cost per pound of waste collected****	\$0.48

<sup>1</sup> NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.  
 \* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.  
 \*\* Includes Swap shop and non hazardous poundage.  
 \*\*\* Includes waste managed locally with no contractor disposal costs.  
 \*\*\*\* Total Cost Per Pound of Waste Managed calculated by dividing Total RCC Expenditures by Total Pounds managed.



# Clinton County Area Regional Collection Center

**Main Facility:** *Clinton County Mobile Connection Unit supporting: 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

*Laura Liegois*  
 (563) 243-4749

Participation Overview	Number of participants	Percent participation
Households participating	1,441	3.3
Conditionally exempt small quantity generators	42	NA <sup>1</sup>

Disposal costs \$27,281.80  
 RCC Disposal cost per pound \$0.70

Total RCC Expenditures\*  
 \$62,402.54

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	12,660	
Latex paint managed locally	28,690	
Used oil managed locally	152,720	
Other managed locally (sharps,electronics)	8240	
Total managed locally**		208,972
Household hazardous waste (HHW)		38,734
<b>TOTAL POUNDS MANAGED***</b>		<b>247,706</b>
Amount distributed in a Swap Shop		0

Operation & Disposal Support From DNR  
 \$12,675.94

Key Points Summary	
Total pounds collected per household	168
Total pounds collected per CESQG	100
Total operational cost per pound of waste collected****	\$0.25

1 NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.  
 \* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.  
 \*\* Includes Swap shop and non hazardous poundage.  
 \*\*\* Includes waste managed locally with no contractor disposal costs.  
 \*\*\*\* Total Cost Per Pound of Waste managed calculated by dividing Total RCC Expenditures by Total Pounds Managed.



# Council Bluffs Regional Collection Center

**Population:**  
45,876 households

**Contact info:**  
Council Bluffs  
Regional Collection  
Center  
4441 Gifford Road  
Council Bluffs, IA  
51501

Tony Fiala  
(712) 328-4985

**Main Facility:** Council Bluffs  
**Mobile Collection Unit supporting:** Pottawattamie and Page Counties



Participation Overview	Number of participants	Percent participation
Households participating	1,466	3.1
Conditionally exempt small quantity generators	14	NA <sup>1</sup>

Disposal costs \$23,996  
RCC disposal cost per pound \$0.69

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	30,640	
Latex paint managed locally	49,921	
Used oil managed locally	87,960	
Other managed locally (sharps,electronics)		
Total managed locally**		187,148
Household hazardous waste (HHW)		34,669
<b>TOTAL POUNDS MANAGED***</b>		<b>221,817</b>
Amount distributed in a Swap Shop	55,283	

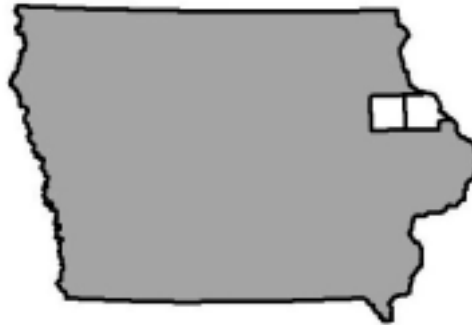
Key Points Summary	
Total pounds collected per household	149
Total pounds collected per CESQG	200
Total operational cost per pound of waste collected****	\$0.83

1 NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.  
 \* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.  
 \*\* Includes Swap shop and non hazardous poundage.  
 \*\*\* Includes waste managed locally with no contractor disposal costs.  
 \*\*\*\* Total Cost Per Pound of Waste Managed calculated by dividing Total RCC Expenditures by Total Pounds managed.



# Dubuque Regional Collection Center

**Main Facility:** *Dubuque County*  
**Mobile Connection Unit supporting:** *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

Participation Overview	Number of participants	Percent participation
Households participating	619	1.5
Conditionally exempt small quantity generators	63	NA <sup>1</sup>

Disposal costs \$35,966.78  
 RCC disposal cost per pound \$1.16

Total RCC  
 Expenditures\*  
 \$61,039.93

Operation &  
 Disposal Support  
 From DNR  
 \$7,796.49

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	3,550	
Latex paint managed locally	18,520	
Used oil managed locally	8,000	
Other managed locally (sharps,electronics)	3,700	
<b>Total managed locally**</b>		<b>38,390</b>
Household hazardous waste (HHW)		30,904
<b>TOTAL POUNDS MANAGED***</b>		<b>69,294</b>
Amount distributed in a Swap Shop	25,170	

Key Points Summary	
Total pounds collected per household	107
Total pounds collected per CESQG	119
Total operational cost per pound of waste collected****	\$0.88

1 NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.  
 \* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.  
 \*\* Includes Swap shop and non hazardous poundage.  
 \*\*\* Includes waste managed locally with no contractor disposal costs.  
 \*\*\*\* Total Cost Per Pound of Waste managed calculated by dividing Total RCC Expenditures by Total Pounds Managed.



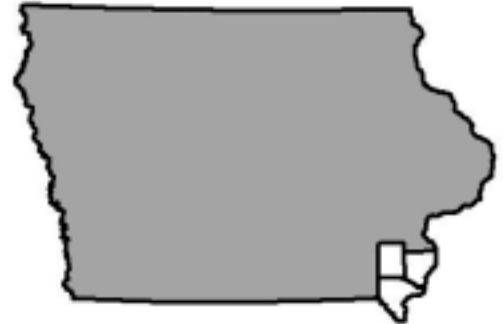
# HazChem Center of Southeast Iowa

**Population:**  
**44,757 households**

**Contact info:**  
HazChem Center of  
Southeast Iowa  
1818 W. Burlington  
Ave.  
Burlington, IA 52601

*Elyn Holton-Dean:*  
*(312) 753-8758*

**Facility Service Area:**  
Main Facility: *Des Moines County*  
Mobile Collection Unit  
supporting: *Des Moines, Henry,  
Lee Counties*  
Satellite Facility: *Lee County*



Participation Overview	Number of participants	Percent participation
Households participating	684	1.5
Conditionally exempt businesses	66	NA

Total RCC  
expenditures\*  
\$134,722

Disposal costs \$9,212  
RCC disposal cost per pound \$0.81

Operation &  
Disposal Support  
From DNR  
\$942.74

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	0	
Latex paint managed locally	0	
Used oil managed locally	0	
Other managed locally (sharps,electronics)	37,482	
<b>Total managed locally**</b>		<b>37,482</b>
Household hazardous waste (HHW)		11,329
<b>TOTAL POUNDS MANAGED***</b>		<b>48,811</b>
Amount distributed in a Swap Shop	0	

Key Points Summary	
Total pounds collected per household	155
Total pounds collected per CESQG	146
Total operational cost per pound of waste collected****	\$0.48

1 NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

\* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

\*\* Includes Swap shop and non hazardous poundage.

\*\*\* Includes waste managed locally with no contractor disposal costs.

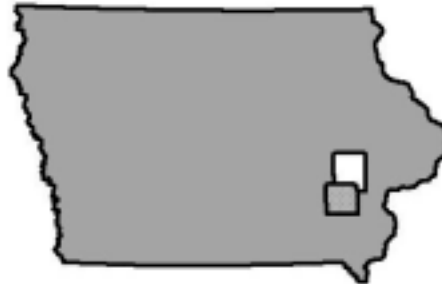
\*\*\*\* Total Cost Per Pound of Waste Managed calculated by dividing Total RCC Expenditures by Total Pounds managed.





# Iowa City Regional Collection Center

**Main Facility:** Johnson County  
**Mobile Service:** To select 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

Participation Overview	Number of participants	Percent participation
Households participating	2847	6.45
Conditionally exempt small quantity generators	34	NA <sup>1</sup>

Disposal costs \$55,619.74  
RCC disposal cost per pound \$0.81

Total RCC Expenditures\*  
\$138,609.28

Operation & Disposal Support From DNR  
\$15,025.90

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	7,398	
Latex paint managed locally	161,597	
Used oil managed locally	52,000	
Other managed locally (sharps,electronics)	139,737	
<b>Total managed locally**</b>		<b>368,444</b>
Household hazardous waste (HHW)		55,992
<b>TOTAL POUNDS MANAGED***</b>		<b>424,436</b>
Amount distributed in a Swap Shop	39,522	

Key Points Summary	
Total pounds collected per household	146
Total pounds collected per CESQG	198
Total operational cost per pound of waste collected****	\$0.33

1 NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

\* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

\*\* Includes Swap shop and non hazardous poundage.

\*\*\* Includes waste managed locally with no contractor disposal costs.

\*\*\*\* Total Cost Per Pound of Waste managed calculated by dividing Total RCC Expenditures by Total Pounds Managed.



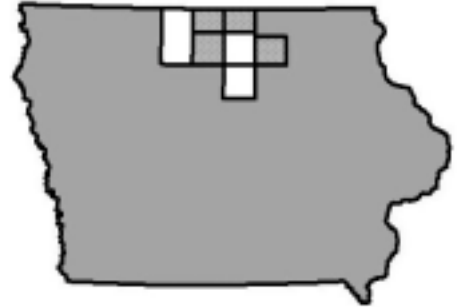
# Landfill of North Iowa Regional Collection Center

**Population:**  
59,840 households

**Contact info:**  
Landfill of North Iowa  
15942 Killdeer Ave.  
Clear Lake, IA 50428

Bill Rowland  
(641) 357-5452

**Main Facility:** Cerro Gordo County  
**Satellite Facilities:** Kossuth County  
**Mobile Collection Unit:** supporting:  
Cerro Gordo, Franklin, Kossuth,  
Counties and select cities in Worth,  
Hancock, and Winnebago Counties.



Participation Overview	Number of participants	Percent participation
Households participating	1,853	3.0
Conditionally exempt small quantity generators	72	NA <sup>1</sup>

Total RCC  
Expenditures\*  
\$125,166.82

Operation &  
Disposal Support  
From DNR  
\$11,702.06

Disposal costs \$48,213.19  
RCC disposal costs per pound \$1.28

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	0	
Latex paint managed locally	56,445	
Used oil managed locally	21,048	
Other managed locally (sharps,electronics)	0	
Total managed locally**		114,713
Household hazardous waste (HHW)		37,631
<b>TOTAL POUNDS MANAGED***</b>		<b>152,344</b>
Amount distributed in a Swap Shop	4709	

Key Points Summary	
Total pounds collected per household	66
Total pounds collected per CESQG	381
Total operational cost per pound of waste collected****	\$0.82

1 NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.  
\* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.  
\*\* Includes Swap shop and non hazardous poundage.  
\*\*\* Includes waste managed locally with no contractor disposal costs.  
\*\*\*\* Total Cost Per Pound of Waste Managed calculated by dividing Total RCC Expenditures by Total Pounds managed.

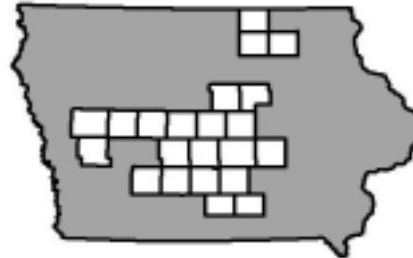


# Metro Waste Authority Regional Collection Center

**Main Facility:** Polk County

**Satellite Facilities:** Adair, Boone, Carroll, Chickasaw, Crawford, Floyd, Grundy, Hardin, Jasper, Madison, Marion, Marshall, Mitchell, Shelby, and Story counties

**Mobile Connection Unit supporting:** Dallas, Greene, Lucas, Mitchell, 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

Participation Overview	Number of participants	Percent participation
Households participating	8,796	2.6
Conditionally exempt small quantity generators	221	NA <sup>1</sup>

Disposal costs \$202,352.11  
RCC disposal cost per pound \$1.20

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	43,487	
Latex paint managed locally	111,540	
Used oil managed locally	84,343	
Other managed locally (sharps,electronics)	308,166	
<b>Total managed locally**</b>		<b>592,688</b>
Household hazardous waste (HHW)		168,853
<b>TOTAL POUNDS MANAGED***</b>		<b>761,541</b>
Amount distributed in a Swap Shop	94,749	

Key Points Summary	
Total pounds collected per household	56
Total pounds collected per CESQG	1219
Total operational cost per pound of waste collected****	\$0.48

Total RCC Expenditures\*  
\$924,187.12

Operation & Disposal Support From DNR  
\$48,380.26

1 NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.

\* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.

\*\* Includes Swap shop and non hazardous poundage.

\*\*\* Includes waste managed locally with no contractor disposal costs.

\*\*\*\* Total Cost Per Pound of Waste managed calculated by dividing Total RCC Expenditures by Total Pounds Managed.



# PCB

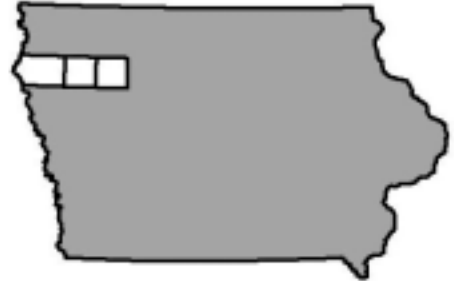
## Regional Collection Center

**Population:**  
22,249 households

**Contact info:**  
PCB Regional  
Collection Center  
1805 Linden St.  
Cherokee, IA 51012

*Dennis Henrich*  
(712) 225-3749

**Main Facility:** *Cherokee County*  
**Mobile Collection Unit**  
**supporting:** *Plymouth,*  
*Cherokee and Buena Vista*  
*counties*



Participation Overview	Number of participants	Percent participation
Households participating	930	4.1
Conditionally exempt small quantity generators	5	NA <sup>1</sup>

Total RCC  
Expenditures\*  
\$51,453.14

Disposal costs \$32,954.36  
RCC disposal cost per pound \$1.50

Operation &  
Disposal Support  
From DNR  
\$7,300

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	404	
Latex paint managed locally	2,640	
Used oil managed locally	800	
Other managed locally (sharps,electronics)	320	
Total managed locally**		4,164
Household hazardous waste (HHW)		21,900
<b>TOTAL POUNDS MANAGED***</b>		<b>26,064</b>
Amount distributed in a Swap Shop	1360	

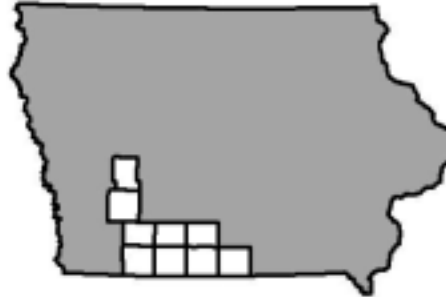
Key Points Summary	
Total pounds collected per household	64
Total pounds collected per CESQG	194
Total operational cost per pound of waste collected****	\$1.97

1 NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.  
 \* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.  
 \*\* Includes Swap shop and non hazardous poundage.  
 \*\*\* Includes waste managed locally with no contractor disposal costs.  
 \*\*\*\* Total Cost Per Pound of Waste Managed calculated by dividing Total RCC Expenditures by Total Pounds managed.



# Prairie SWA Regional Collection Center

**Main Facility:** Union County  
**Satellite Facilities:** Audubon, Cass, Clarke, and WRD Counties (Wayne, Ringgold, Decatur)  
**Mobile Connection Unit supporting:** 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

Participation Overview	Number of participants	Percent participation
Households participating	305	5.8
Conditionally exempt small quantity generators	11	NA <sup>1</sup>

Disposal costs \$6,314.00  
 RCC disposal cost per pound \$0.25

Type of Waste Collected	Subtotal	Totals (pounds)
Lead acid batteries managed locally	4,180	
Latex paint managed locally	7,057	
Used oil managed locally	4,894	
Other managed locally (sharps, electronics)	900	
Total managed locally**		20,370
Household hazardous waste (HHW)		6,035
<b>TOTAL POUNDS MANAGED***</b>		<b>26,405</b>
Amount distributed in a Swap Shop	5,406	

Total RCC Expenditures\*  
\$38,019

Operation & Disposal Support From DNR  
\$2,011.85

Key Points Summary	
Total pounds collected per household	82
Total pounds collected per CESQG	135
Total operational cost per pound of waste collected****	\$0.48

1 NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.  
 \* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.  
 \*\* Includes Swap shop and non hazardous poundage.  
 \*\*\* Includes waste managed locally with no contractor disposal costs.  
 \*\*\*\* Total Cost Per Pound of Waste managed calculated by dividing Total RCC Expenditures by Total Pounds Managed.



# SEMCO Regional Collection Center

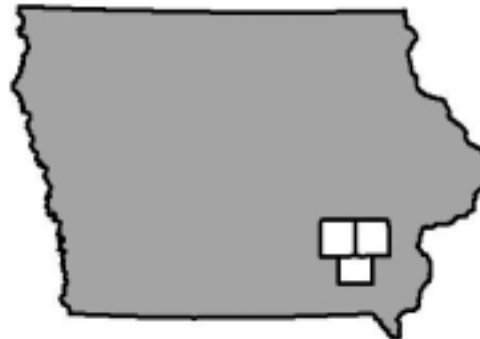
**Population:**  
19,291 households

**Contact info:**  
SEMCO Regional  
Collection Center  
29997 Hwy. 78  
Richland, IA 52585

Ray Griffin  
(319) 456-6171

**Main Facility:** Jefferson  
County.

**Mobile Collection Unit :**  
Jefferson, Keokuk and  
Washington counties



Participation Overview	Number of participants	Percent participation
Households participating	70	0.4
Conditionally exempt small quantity generators	1	NA <sup>1</sup>

Total RCC  
Expenditures\*  
\$16,313.08

Disposal costs \$3,125  
RCC disposal cost per pound \$0.95

Operation &  
Disposal Support  
From DNR  
\$1,100.77

Type of Waste Collected	Subtotal	Totals (pounds)
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)		3,302
<b>TOTAL POUNDS MANAGED***</b>		<b>3,302</b>
Amount distributed in a Swap Shop	0	

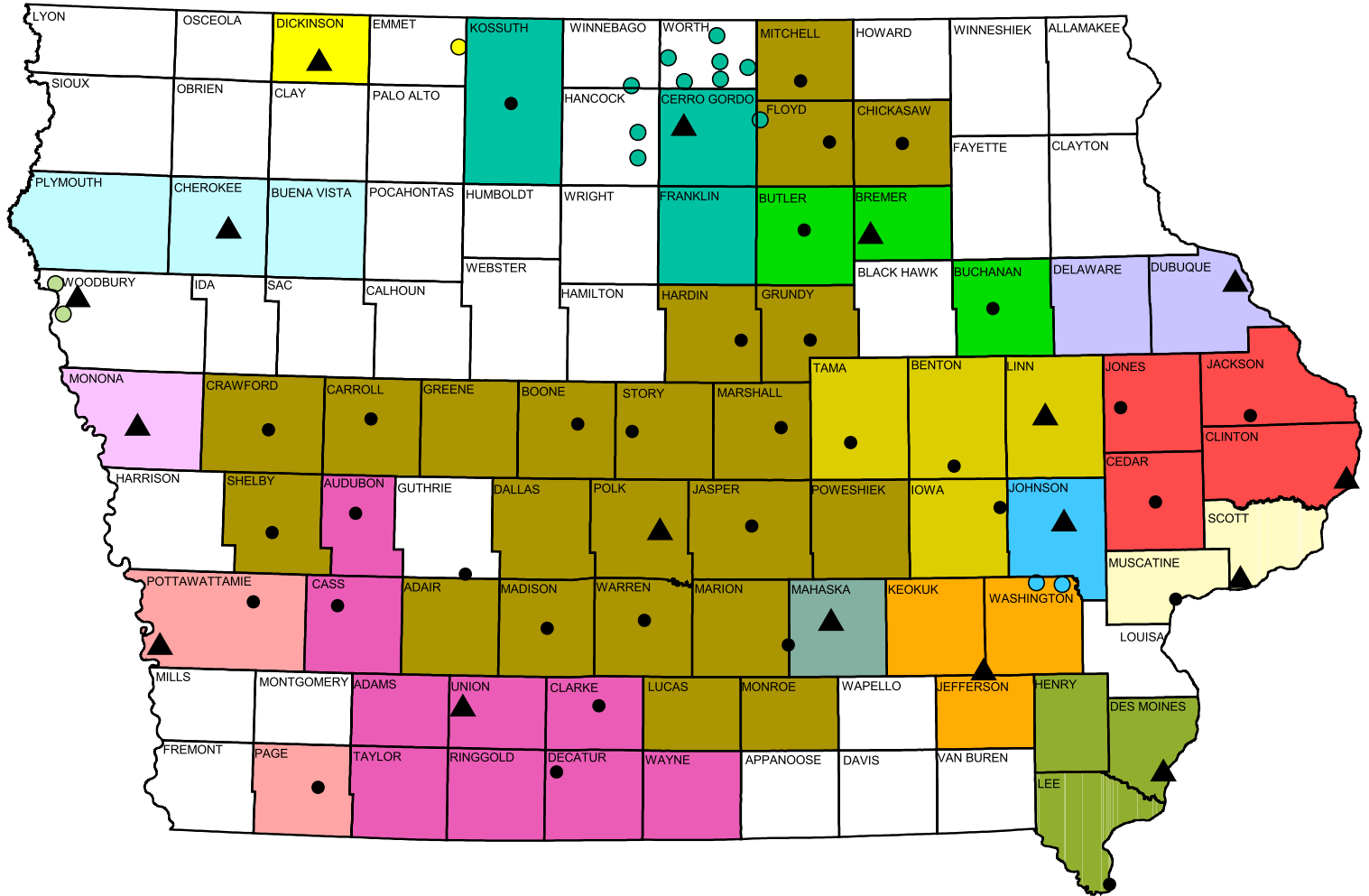
Key Points Summary	
Total pounds collected per household	46
Total pounds collected per CESQG	85
Total operational cost per pound of waste collected****	\$4.94

1 NA: Not Available - Industries meeting the requirements of a conditionally exempt small quantity generator (CESQG) are not required to register with the Environmental Protection Agency and therefore the total number of CESQGs in the region are unknown.  
 \* Total RCC Expenditures include: disposal costs, salaries and benefits, equipment and supplies, overhead, public education, training and insurance.  
 \*\* Includes Swap shop and non hazardous poundage.  
 \*\*\* Includes waste managed locally with no contractor disposal costs.  
 \*\*\*\* Total Cost Per Pound of Waste Managed calculated by dividing Total RCC Expenditures by Total Pounds managed.



# HHM Regional Collection Centers

Regional Collection Centers (RCC) are permanent collection facilities designed to assist the public and small businesses with proper management of hazardous materials.



▲ Regional Collection Center Facilities

● RCC Satellites

### RCC Service Areas

- |   |  |
|---|--|
| <span style="display: inline-block; width: 15px; height: 15px; background-color: yellow; border: 1px solid black;"></span> Dickinson Co. RCC                | <span style="display: inline-block; width: 15px; height: 15px; background-color: lightblue; border: 1px solid black;"></span> Dubuque Co. RCC                |
| <span style="display: inline-block; width: 10px; height: 10px; background-color: yellow; border-radius: 50%; border: 1px solid black;"></span> Served City  | <span style="display: inline-block; width: 15px; height: 15px; background-color: #d4af37; border: 1px solid black;"></span> CR/Linn Co. SWA RCC              |
| <span style="display: inline-block; width: 15px; height: 15px; background-color: #add8e6; border: 1px solid black;"></span> Iowa City RCC                   | <span style="display: inline-block; width: 15px; height: 15px; background-color: #fff9c4; border: 1px solid black;"></span> Waste Commission of Scott County |
| <span style="display: inline-block; width: 10px; height: 10px; background-color: #add8e6; border-radius: 50%; border: 1px solid black;"></span> Served City | <span style="display: inline-block; width: 15px; height: 15px; background-color: #add8e6; border: 1px solid black;"></span> PCB SWA RCC                      |
| <span style="display: inline-block; width: 15px; height: 15px; background-color: #00b050; border: 1px solid black;"></span> Landfill of North Iowa          | <span style="display: inline-block; width: 15px; height: 15px; background-color: #808080; border: 1px solid black;"></span> Metro Waste Authority RCC        |
| <span style="display: inline-block; width: 10px; height: 10px; background-color: #00b050; border-radius: 50%; border: 1px solid black;"></span> Served City | <span style="display: inline-block; width: 15px; height: 15px; background-color: #e6e6fa; border: 1px solid black;"></span> Monona Co. RCC                   |
| <span style="display: inline-block; width: 15px; height: 15px; background-color: #f08080; border: 1px solid black;"></span> Council Bluffs RCC              | <span style="display: inline-block; width: 15px; height: 15px; background-color: #808080; border: 1px solid black;"></span> Mahaska Co. RCC                  |
| <span style="display: inline-block; width: 15px; height: 15px; background-color: #ff0000; border: 1px solid black;"></span> Clinton Co. SWA RCC             | <span style="display: inline-block; width: 15px; height: 15px; background-color: #ffa500; border: 1px solid black;"></span> SEMCO RCC                        |
| <span style="display: inline-block; width: 15px; height: 15px; background-color: #808000; border: 1px solid black;"></span> Haz Chem RCC                    | <span style="display: inline-block; width: 15px; height: 15px; background-color: #00ff00; border: 1px solid black;"></span> Bremer Co. RCC                   |
| <span style="display: inline-block; width: 15px; height: 15px; background-color: #e61e9a; border: 1px solid black;"></span> Prairie Solid Waste Agency      | <span style="display: inline-block; width: 15px; height: 15px; background-color: #ffffff; border: 1px solid black;"></span> Unserved Counties                |

▲ Sioux City HHM Collection Center Service Area





# Iowa Regional Collection Center Contact Information

Main facilities are in bold with satellite facilities listed beneath

RCC Name	Phone	Counties Served	Website
<b>Bremer Co. RCC</b> Buchanan Co. Satellite Butler Co. Satellite	<b>319-352-4574</b> 319-440-1080 319-267-2070	Bremer, Buchanan, Butler Buchanan Butler	<a href="http://www.co.bremer.ia.us/departments/landfill/index.html">www.co.bremer.ia.us/ departments/landfill/index.html</a>
<b>Cedar Rapids/Linn Co. SWA</b> Benton Co. Satellite Iowa Co. Satellite Tama Co. Satellite	<b>319-373-4771</b> 319-828-4401 319-472-2211 641-484-3341	Linn, Benton, Iowa, Tama Benton Iowa Tama	
<b>Clinton Co. Area SWA</b> Cedar Co. Satellite Jackson Co. Satellite Jones Co. Satellite	<b>563-243-4749</b>	Clinton, Cedar, Jones, Jackson Cedar Jackson Jones	<a href="http://www.ccswa.org">www.ccswa.org</a> <a href="http://www.jcsda.org">www.jcsda.org</a>
<b>Council Bluffs RCC</b> Page Co. Satellite	712-328-4985 712-542-4215	Pottawattamie, Page Page	
<b>Dickinson Co. RCC</b> (Open in Fall 2006)	<b>712-338-4786</b>	Dickinson & City of Armstrong in Emmet Co.	
<b>Dubuque Co. RCC</b>	<b>563-589-1720</b>	Dubuque, Delaware	<a href="http://www.dmaswa.org">www.dmaswa.org</a>
<b>HazChem Center/SE IA</b> Lee Co. Satellite	<b>319-753-8758</b>	Des Moines, Henry, Lee Lee	<a href="http://www.wastewrap.org/HouseholdHazardousWaste.html">www.wastewrap.org/Household HazardousWaste.html</a>
<b>Iowa City RCC</b>	<b>319-356-5170</b>	Johnson	<a href="http://www.icgov.org/hazardous.htm">http://www.icgov.org/ hazardous.htm</a>
<b>Landfill of North Iowa</b> Kossuth Co. Satellite  Cities of Klemme, Garner, Forest City, Joice, Hanlontown, Northwood, Kennset, Manly, Grafton, Nora Springs	<b>641-357-5452</b> <b>515-924-3739</b>	Cerro Gordo, Franklin, Kossuth	<a href="http://www.landfillnorthiowa.org">www.landfillnorthiowa.org</a>
<b>Mahaska Co RCC</b>	<b>641-673-9266</b>	Mahaska	



# Iowa Regional Collection Center Contact Information (continued)

Main facilities are in bold with satellite facilities listed beneath

RCC Name	Phone	Counties Served	Website
<b>Monona Co RCC</b>	<b>712-353-6300</b>	Monona	
<b>Metro Waste Authority</b>	<b>888-603-2739</b> <b>515-967-5512</b>	In addition to those listed below. Polk, Dallas, Greene, Lucas, Mitchell, Poweshiek, Warren	
Adair Co. Satellite		Adair	www.acslrc.org
Boone Co. Satellite	641-743-8343	Boone	
Carroll Co. Satellite	515-433-0591	Carroll	
Chickasaw Co. Satellite	712-792-5001	Chickasaw	
Crawford Co. Satellite	877-982-4288	Crawford	
Floyd Co. Satellite	712-792-5001	Floyd	
Grundy Co. Satellite	641-982-4288	Grundy	
Hardin Co. Satellite	319-824-6967	Hardin	
Jasper Co. Satellite	641-939-5808	Jasper	
Madison Co. Satellite	641-792-3866	Madison	
Marion Co. Satellite	515-462-3083	Marion	
Marshall Co. Satellite	641-828-8545	Marshall	
Mitchell Co. Satellite	641-752-0646	Mitchell	
Shelby Co. Satellite	877-982-4288	Shelby	
Story Co Resource Recovery Plant	712-792-5001 515-239-5137	Story	
Indianola Satellite	515-961-9410	Warren	
<b>PCB</b>	<b>712-225-3749</b>	Buena Vista, Cherokee, Plymouth	
<b>Prairie RCC</b>	<b>641-347-5022</b>	Adams, Taylor, Union	www.praireswa.org
Union Co.	641-347-5022		
Audubon Co.	712-563-3589		
Clarke Co.	641-342-2662		
Cass Co.	712-243-1991		
Wayne-Ringgold-Decatur (Open in Fall 2006)	641-773-5229		
<b>SEMCO</b>	<b>319-456-6171</b>	Jefferson, Keokuk, Washington	
<b>Sioux City RCC</b>	<b>712-279-6222</b>	Cities of Sioux City and Sargents Bluff	
<b>Waste Comm. Scott Co.</b>	<b>563-381-1300</b>	Scott, Muscatine	
Muscatine Co. Satellite	563-263-9689	Muscatine	



## Household Hazardous Materials Reference List (not inclusive)

### **MOTOR OILS & MOTOR OIL ADDITIVES**

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

### **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

The BOLD FACED 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. This list is not all inclusive.

Questions? Contact the Department of Natural Resources at 515-281-4367, or visit our website at [www.iowadnr.com](http://www.iowadnr.com).