



STATE OF IOWA

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DEPARTMENT OF NATURAL RESOURCES
CHUCK GIPP, DIRECTOR

MEMO

FROM: Chuck Gipp, Director, Dept. of Natural Resources

Cc: Bruce Trautman, Deputy Director, Dept. of Natural Resources
Bill Ehm, Administrator, Environmental Services Division
Sharon Tahtinen, Legislative Liaison, Dept. of Natural Resources
Alex Moon, Chief, Land Quality Bureau

DATE: December 17, 2015

RE: Household Hazardous Waste Cleanup Program Report

The Department of Natural Resources submits the attached report to the General Assembly as required in 455F.8. As directed, the report provides information on the costs and results of the Household Hazardous Materials collection and disposal program.

Inquiries related to these reports should be directed to Jennifer Wright, Supervisor of Financial and Business Assistance, Land Quality Bureau, at 515-725-8302 or jennifer.wright@dnr.iowa.gov

SAFE, SMART SOLUTIONS FOR IOWA



HOUSEHOLD HAZARDOUS MATERIALS PROGRAM FISCAL YEAR 2015

Household Hazardous Materials (HHMs) are found in nearly every home – under sinks and in closets, basements and garages. Through local partnerships with the Iowa Department of Natural Resources' HHM program, Iowa citizens are able to access Regional Collection Centers (RCCs) in 93 of Iowa's 99 counties for proper management of HHMs to protect public health and the environment.

Last year, Iowa residents and small businesses properly disposed of more than 7 million pounds of toxic, flammable, corrosive and reactive materials through their local RCC. Reducing exposure to HHMs helps prevent household poisonings. In 2015, more than 4,200 reported poisonings of children under six were from HHMs.

This report discusses actions undertaken and results from the DNR's HHM program and its stakeholder partners in Fiscal Year 2015.



The table below breaks down disposal methods and amounts of HHMs collected by Iowa RCCs, including the Plymouth County RCC in northwest Iowa (pictured above).

WHAT EXACTLY IS A HOUSEHOLD HAZARDOUS MATERIAL?

HHM is a term defining common household 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

REACTIVE: explosive through exposure to heat, sudden shock, pressure or comes into contact with incompatible chemicals

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 HHMs. In Iowa, businesses generating small amounts of hazardous waste are included in the definition of HHW and are eligible to participate in DNR HHM programs.

REGIONAL COLLECTION CENTER FY 2015 SUMMARY & ACCOMPLISHMENTS

MATERIALS MANAGED BY HAZARD TYPE

TOXIC insecticides, pesticides, poison	167,171 lbs.
CORROSIVE drain cleaners, mercury	107,635 lbs.
FLAMMABLE lighter fluid, aerosols, thinners, oil-based paint	417,288 lbs.
REACTIVE pool chemicals, toilet bowl cleaners, ammonia	10,690 lbs.

MATERIALS MANAGED BY COMMON PRODUCT TYPE

E-WASTE computers, televisions, cell phones	2,219,857 lbs.
FLUORESCENTS	132,268 lbs.
BATTERIES lead acid, lithium-ion, nickel-cadmium	201,041 lbs.
MOTOR OIL	491,082 lbs.
OTHER MATERIALS sharps, scrap metals, oil filters, antifreeze	1,568,794 lbs.
PAINTS	1,629,630 lbs.

HHM DISPOSAL SUPPORT

HHMs REUSED LOCALLY THROUGH EXCHANGE/SWAP SHOP The majority of RCCs make usable HHMs available to residents at no charge, providing an opportunity to reuse the HHMs for their intended purpose and reducing RCC disposal cost.	427,417 lbs.
CONTRACTED HHM DISPOSAL HHMs that are removed from an RCC facility by a licensed hazardous waste contractor for treatment at a hazardous waste facility outside of Iowa.	1,862,727 lbs.
HHMs MANAGED LOCALLY Non-hazardous material such as latex paint or hazardous material that an RCC manages with a local business; including oil, oil filters, lead acid batteries or scrap metal cans from bulking paint.	4,749,097 lbs.

TOTAL AMOUNT OF HHMs MANAGED 7,039,241 lbs.

REGIONAL COLLECTION CENTERS IN IOWA

Regional Collection Centers (RCCs) are local permanent collection facilities designed to assist the public and conditionally exempt small quantity generator (CESQG) businesses with proper management and disposal of HHMs. RCCs accept specific types of hazardous waste for disposal; either through local outlets or through contracted service, RCCs provide a materials exchange (Swap Shop) and educate citizens about proper purchasing and management for HHMs.

Currently, 27 main facilities and 42 satellite facilities operate across Iowa, serving a total of 93 counties. Last year, more than 7 million pounds of HHMs were removed from the solid waste stream, including 424,417 pounds of materials placed in RCC materials exchanges. In 2015, RCCs collected twice the amount of reactive materials; these materials can cause explosions, fires and toxic gases.

For local RCC contact information and service areas, go to www.safesmartsolutions.org.

2015 RCC INNOVATION/IMPROVEMENT & ESTABLISHMENT GRANT RECIPIENTS

1 CHEROKEE: \$1,000 to improve operational efficiencies, including a 15-gallon portable pressurized eye wash system. The portability allows the RCC to take the unit on mobile collections, increasing safety for both staff and participants.

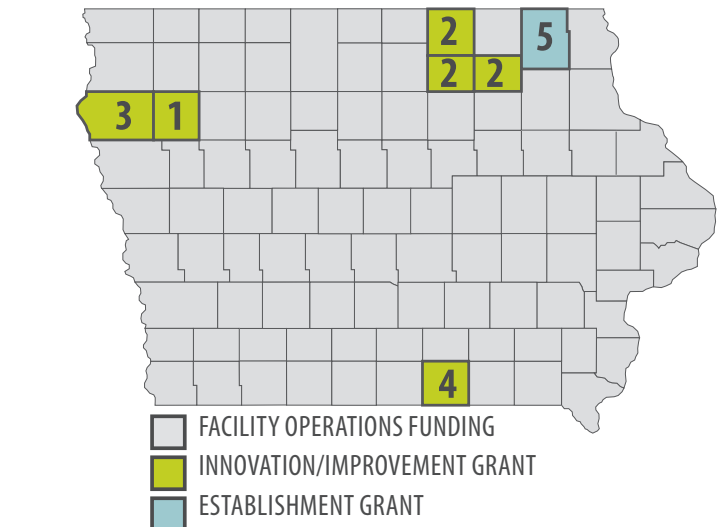


2 FLOYD MITCHELL CHICKASAW: \$10,082 to improve operational efficiencies with an air-supplied system for sorting organic and toxic materials, and for remodeling and enclosing the current Swap Shop, increasing customer convenience and safety.



3 PLYMOUTH COUNTY: \$1,000 for educational materials to be used at the RCC facility, mobile events and other educational events.

4 RATHBUN: \$10,296 to remodel and insulate the RCC, allowing it to operate year-round, resulting in customer convenience. Funds will also be used to notify businesses and residents of the new operating hours.



5 WINNESHIK: \$54,663 for the construction of a satellite collection facility. The satellite collection facility will allow Winneshiek County to improve their level of service, moving from one-day mobile events to a permanent year-round facility. The facility will include a concrete pad, a hazardous storage building and supplies, an awning covering the unloading area and chain link fencing to secure the area.



HHM PROGRAM INVESTMENT FOR RCC FACILITIES

Establishment Grants	\$54,663
Innovation/Improvement Grants	\$32,378
Facility Operations Funding	\$423,985
TOTAL PROGRAM INVESTMENT FOR FY 2015*	\$511,026

* The DNR's RCC Facilities are funded through solid waste tonnage fees remitted to the solid waste account of the Groundwater Protection Fund.



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