

# CLOSED Loop

Winter '03

## ICE slides into reality

**By Traci McCollom and Kristen Smart**

*Iowa Waste Reduction Center*

The Iowa Waste Reduction Center (IWRC) has been awarding funding from the Environmental Protection Agency (EPA) to implement a year long pollution prevention (P2) project aimed at community improvement. The project, Iowa Communities for the Environment (ICE), will expand the IWRC's current technical assistance program by offering a holistic community approach service, involving small business, area schools and local hospitals

In partnership with the Institute for Decision Making (IDM) at the University of Northern Iowa (UNI), the IWRC has chosen to concentrate efforts on three communities located in the northwestern segment of the state, Spencer, Spirit Lake and Milford, more commonly known as the Iowa Great Lakes Corridor of Opportunity. IDM, UNI's economic development assistance program, will work closely with the Corridor's economic development group, as they

will be the key provider in promoting IWRC's technical assistance program including other services. Throughout this project, the IWRC will develop a community baseline measurement protocol, conduct multi-media community-wide on-site reviews at interested small businesses, provide P2 education

“**IWRC [will bring] Iowa small businesses one-step closer to environmental compliance and understanding**”

at local schools, work closely with the Spencer hospital, concentrating on mercury elimination. In addition, the IWRC will coordinate Iowa's first household mercury collection program. Additionally, the Iowa Waste Exchange (IWE), a free and confidential program that promotes the reuse and recycling of business and industry by-products and waste, will provide additional assistance.

Iowa Communities for the Environment is a project devoted towards meeting the environmental needs of a community, as well as increasing trust levels between Iowa small businesses and the IWRC. Integrating the local economic development group will establish a valuable partnership between small businesses, IDM and the IWRC, as they are considered a “trusted third party.” Working hand-in-hand with IDM and the Corridor's economic development group, IWRC will be able to expand services while bringing Iowa small businesses one-step closer to environmental compliance and understanding.

IOWA WASTE REDUCTION CENTER UNIVERSITY OF NORTHERN IOWA

WASTE REDUCTION WORKS FOR BUSINESS & IOWA

# Attention Western Iowa

**By Traci McCollom**  
*IWRC Public Relations  
Research Assistant*

The Iowa Air Emissions Assistance Program (IAEAP) at the Iowa Waste Reduction Center (IWRC) will begin Minor Source Emissions Inventory Questionnaire (MSEIQ) assistance for the Western part of Iowa in late winter. Recently, small- to medium- sized businesses that emit air pollutants and are classified as non-major sources have been targeted by the Iowa Department of Natural Resources (IDNR) to complete this inventory. Businesses will be required to report all actual and potential emissions from both permitted and fugitive sources. Facilities having fewer than 100 employees are given the option of completing the inventory on their own or can request assistance from IAEAP staff at the IWRC. If a business requests assistance, IAEAP staff will complete all necessary MSEIQ forms and calculations for the business.

The purpose of the inventory is to gather data about the sources and quantities of air pollutants emitted into the atmosphere by businesses. Collectively, the information accumulated will assist the IDNR in continuing to manage our air resources, which includes planning pollution control programs, identifying general emission levels, and

locating monitors to ensure our air quality meets federal health standards. Also, the data collected in this inventory will assist Iowa and other states in the management of pollution that drifts across state borders and to different regions of the nation.

Businesses located in the Western part of the state can expect to be contacted by both the IDNR and the IAEAP about the inventory and available assistance within the next few months. In addition, workshops will be held by the IAEAP staff in Spencer, Sioux City, Council Bluffs and Carroll late this winter to offer both assistance and valuable information to affected businesses.

Considered a knowledgeable resource for small business, IAEAP staff completed 165 inventories for businesses this year alone.

Businesses required to complete the MSEIQ, must submit it to the IDNR by May 15th, 2003. Because IDNR requires small businesses in the state to complete a MSEIQ every three years, it is recommended businesses in western Iowa take advantage of the expert assistance offered by IAEAP staff. For a detailed list of what counties will be affected by the inventory or for more information on the IAEAP, please call Program Manager Dan Nickey of the IAEAP at 1-800-422-3109 or visit [www.iwrc.org](http://www.iwrc.org).

## **Discarded Appliance Demanufacturing Training**

Iowa Administrative Code Chapter 118, Discarded Appliance Demanufacturing requires that all permitted appliance demanufacturers have at least one full time employee or owner who has received department approved training. The Iowa DNR will be offering the training at the following times and locations:

- ❖ **January 28:** Cherokee Community Center
- ❖ **February 5:** Raccoon River Park Nature Lodge, Des Moines
- ❖ **February 6:** Muscatine Public Safety Building

There is no charge for the workshop. However, you need to register and space may be limited.

*If you have any questions please contact Theresa Stoner at 515-281-8646 or Jim Thayer at 515-281-3426.*

# news briefs

## Maintaining environmental compliance

Helping to keep Iowa small businesses in compliance with existing environmental regulations is important to the IWRC. We have conducted almost 2,300 on-site reviews since our inception nearly 15 years ago that have provided small businesses with the information and expert advice they need to stay up-to-date with Environmental Protection Agency (EPA) regulations, Department of Natural Resources (DNR) requirements, permits needed, and pollution prevention and waste management suggestions.

Because environmental laws and regulations are constantly changing, it is important that a business' waste generation and air emissions be evaluated periodically. Businesses that the IWRC have previously visited could benefit significantly from an additional on-site review to stay current on environmental issues that may affect their specific operation.

Whether the IWRC has reviewed your business in the past or not, it may be a good idea to request a free, confidential, and non-regulatory on-site visit or revisit to determine if your operation is environmentally compliant. To schedule a visit with a waste reduction specialist or for more information, call 1-800-422-3109 or visit [www.iwrc.org](http://www.iwrc.org).

## IWRC Develops P2 Equipment Cost Benefit Calculators for Auto Body Industry

**By AnaMariaNanra**

*Waste Reduction Specialist*

Because many of the economic benefits of pollution prevention are less tangible than investments that contribute directly to production, the justification of pollution prevention measures is foregone. Few small businesses have the time to research the benefits of P2 technologies such as waste reduction and cost savings. When the cost-justification for a pollution prevention recommendation is complete, the business is able to establish the long-term economic benefits.

For these reasons, the IWRC has developed three cost calculators to help the small auto body repair shop determine if it is beneficial for a facility to invest in such equipment. The equipment evaluated is High Volume – Low Pressure Paint Spray Guns in combination with the Laser Touch™ spray training device and Spray Technique Analysis and Research (STAR®) training program, Small Batch Solvent (Thinner) Distillation Units, and Automatic Gun Wash Units. Visit [www.iwrc.org](http://www.iwrc.org) to use the cost calculators or contact AnaMaria Nanra at the IWRC at 800-422-3109 for more information.

## Free Event Offers Business Waste Reduction Tips

CEDAR RAPIDS – Local businesses are invited to learn how to start or enhance existing workplace recycling and waste reduction programs from other area companies, including recycling service providers.

The Third Annual Business Recycling Challenge will be held 12 p.m.—6 p.m., Wednesday, April 2, at the Kirkwood Training & Outreach Services Center, 3375 Armar Drive, Marion, Iowa. This year a grant was received from the Iowa DNR to expand the event, making it bigger and better than ever. The Linn County event is organized by the Bluestem Solid Waste Agency, the Iowa Waste Exchange, and the East Central Iowa Council of Governments.

Last year eighteen area businesses with effective waste reduction and recycling programs staffed exhibits showcasing their programs. Waste reduction experts were also on hand to offer tips and services. A new feature this year is the inclusion of table displays by companies providing waste and recycling related services to businesses.

“Last year, both attendees and exhibitors said they got a lot out of the event. This year we will not only showcase exceptional business waste diversion programs, but we will also add the vendor tables to give attendees even more information and resources to assist them in their waste reduction efforts,” says Rick Meyers, Iowa Waste Exchange Resource Specialist.

*(continued on back page)*

## News

*(continued from inside page)*

"Businesses generate 80 percent of the waste in Linn County so it is critical for them to reduce and recycle," says Meyers. "We hold this event to help promote best waste reduction practices to the business community and to recognize the companies that are leaders in this area."

Among the ways companies can reduce the material being sent to landfills is to utilize the free, confidential, and non-regulatory services of the Iowa Waste Exchange (IWE). The IWE helps companies realize their waste diversion potential by identifying the opportunities for the company and then locating landfill alternatives.

Art Potratz, Engineer for General Mills in Cedar Rapids, explains, "Many businesses have materials in their waste stream that can be cost effectively recovered and recycled. The Iowa Waste Exchange helps businesses to identify these opportunities and provides the resources necessary to make it happen."

Potratz adds, "Businesses have a responsibility to help minimize their impacts on the environment. Conserving resources and saving landfill space is part of this."

For more information on the Third Annual Business Recycling Challenge, contact Rick Meyers, 319-398-5665, Teresa Kurtz, 319-398-1278, or Jennifer Ryan, 319-365-9941, ext. 31.

**VOLUME 13.0 - WINTER 2003**  
**Iowa Waste Reduction Center**  
Creating Tools for Small Business

**SMALL BUSINESS POLLUTION  
PREVENTION CENTER**

**SPRAY TECHNIQUE ANALYSIS  
AND RESEARCH PROGRAM**

**IOWA AIR EMISSIONS  
ASSISTANCE PROGRAM**

**IOWA WASTE EXCHANGE**

**MOBILE OUTREACH FOR  
POLLUTION PREVENTION**

**POLLUTION PREVENTION FOR  
PAINTING AND COATING  
COMPLIANCE ENHANCEMENT**

Articles in



may be reprinted.

As a courtesy, please  
contact the IWRC.

Traci McCollom, Editor  
(800) 422-3109

PRINTED WITH SOY INK



**WINTER  
2003**

**Return Service Requested**

Iowa Waste Reduction Center  
University of Northern Iowa  
1005 Technology Parkway  
Cedar Falls, IA 50613-6951



# IOWA waste exchange

winter  
2003

A cooperative effort of the

- Iowa Waste Reduction Center/ University of Northern Iowa
- Iowa Department of Economic Development/Recycle Iowa
- Iowa Department of Natural Resources

- Iowa Community Colleges
- Local Councils of Government
- Iowa Solid Waste Agencies

## IWE welcomes Dale Frank

By Jeff Beneke

Iowa Waste Reduction Center

The Iowa Waste Exchange (IWE) would like to welcome Dale Frank as the new IWE Area Resource Specialist for the Mason City area. Dale will reside out of the North Iowa Area Community College (NIACC) office and joins other IWE Area Resource Specialists in providing Iowa business and industry with waste management alternatives and assistance that result in both economic and environmental benefits.

Dale comes to the IWE program with a great deal of experience in the manufacturing industry. He has 38 years of professional experience associated with Johns-Manville Products Corporation, Salsbury Laboratories, Solvay Animal Health and Fort Dodge Animal Health. He recently retired from the Charles City, IA facility of Fort



Dodge Animal Health. Most of his career involved staff and management work related to traditional industrial engineering functions. His last five years of experience covered quality assurance auditing of outside suppliers to the pharmaceutical and biological industry.

He is a native of Eagle Grove, IA and holds a B.S. in Industrial Engineering from Iowa State University. Registrations include Professional Industrial Engineer, Certified Quality Engineer and Certified Quality Auditor. He resides in Charles City, IA.

Dale will be responsible for ten counties (Area C) including Cerro Gordo, Floyd, Franklin, Hancock, Hardin, Kossuth, Mitchell, Winnebago, and Worth counties as well as a portion of Wright county.

Feel free to contact Dale at 641/422-4352.

## Iowa Waste Exchange Regions and Specialists



- |  |  |
|--|--|
| <b>A:</b><br>PERRY NELSON<br>Western Iowa Tech<br>Community College<br>(712) 274-8733<br>Ext. 1560 | <b>F:</b><br>RICK MEYERS<br>(Linn County only)<br>and<br>JOHN KOCH<br>Kirkwood Training<br>and Outreach<br>Services<br>(319) 398-5665,<br>(319) 398-4904 |
| <b>B:</b><br>FRED KESTEN<br>Region XII Council of<br>Governments<br>(712) 792-9914                 | <b>G:</b><br>JIM REIMER<br>Indian Hills<br>Community College<br>(641) 683-5269   |
| <b>C:</b><br>DALE FRANK<br>North Iowa Area<br>Community College<br>(641) 422-4352                  | <b>H:</b><br>BILL PENDGRAFT<br>Iowa Western<br>Community College<br>(712) 325-3309<br>Ext. 3309  |
| <b>D:</b><br>JULIE PLUMMER<br>Eastern Iowa<br>Community College<br>District<br>(563) 336-3319      | <b>I:</b><br>JODI JEANES<br>Iowa Northland<br>Regional<br>Council of<br>Governments<br>(319) 235-0311  |
| <b>E:</b><br>DENNIS<br>HAYWORTH<br>DMACC - Business<br>Resources<br>(515) 964-6346                 |  |

## Iowa Waste Exchange wins state recycling award

The Iowa Waste Exchange was recently named winner of the Best Business Assistance Provider Award for the 2002 awards program of the Iowa Recycling Association. The Iowa Recycling Association recognized the Iowa Waste Exchange (IWE) for its work helping businesses find creative uses and new users for industrial by-products and waste materials and acknowledged its commitment to the businesses it serves.

"Iowa Waste Exchange achievement is largely due to the dedication and diligence of the specialists across the state who assist businesses on a one-on-one basis every day," said CJ Niles, Director of the Iowa Department of Economic Development (IDED). "The specialists are knowledgeable, experienced and tenacious when it comes to matching difficult materials."

The Iowa State Legislature established the materials exchange program in 1990 as part of the Groundwater Protection Fund to support businesses in their efforts to divert materials from the state's sanitary landfills. Since its inception, the IWE has served thousands of businesses and diverted over 740,000 tons of materials from landfills with a related savings in avoided disposal costs of over \$20 million.

**GENERAL  
INFORMATION:**

If you are not sure  
who to contact,  
call or write

**IOWA WASTE REDUCTION CENTER:** or  
1005 Technology Parkway ♦ Cedar Falls, IA 50613-6951  
800/422-3109 or 319/273-8905

**RECYCLE IOWA:**  
200 East Grand Avenue ♦ Des Moines, IA 50309  
800/532/1216

# How to use the Iowa Waste Exchange

Winter 2003

ITEM	DESCRIPTION/AMOUNT	ID#	CONTACT
<b>Chemicals</b>			
Activated Carbon	Ongoing, 8,000 pounds per year	10011	A - Perry
Bag House Dust	One time only, 10,000 pounds	10008	I - Jodi
Dyes	One time only, 247 pounds	9549	B - Fred
Oakite 32	One time only, 1,648 pounds	7624	B - Fred
Paint powder	Ongoing, 52,000 pounds per year	5573	B - Fred
Power Kleen Cleaner and Degreaser	One time only, 1,125 pounds	9672	B - Fred
Sulfuric Acid (clear 45%)	One time only, 78,850 pounds	10045	G - Jim
Titanium Dioxide	One time only, 600 pounds	10007	I - Jodi
Zinc oxide bags	One time only, 8,000 pounds	9977	H - Bill
<b>Construction and Demolition</b>			
Portland Cement - bulk	One time only, 180,000 pounds	10018	D - Julie
<b>Drums</b>			
Fiber Drums	Ongoing, 6,240 pounds per year	10012	B - Fred
HDPE, drums - 55-gal	Ongoing, 2,700 pounds per year	5888	B - Fred
<b>Metals</b>			
Aluminum foil scrap	Ongoing, 48,000 pounds per year	9728	H - Bill
Underground Storage Tanks	One time only, 8,800 pounds	9017	B - Fred
<b>Miscellaneous</b>			
Barrel Tumbler (50 gal.)	One time only, 500 pounds	9943	G - Jim
Barry Blowers (grain dryer blowers)	One time only, 5,000 pounds	10043	G - Jim
Christmas light bulbs, 1/2 A, 120 V, 7 W	One time only, 3,200 pounds	10105	F - Rick
Cold Press	One time only, 6,000 pounds	9942	G - Jim
Denison hydraulic hot 50 ton press	One time only, 10,000 pounds	9941	G - Jim
Fiberglass cable	Ongoing, 20,000 pounds per year	10062	F - Rick
Film negatives (silver)	One time only, 120,000 pounds	9979	H - Bill
Glue cylinders	One time only, 2,000 pounds	10108	F - Rick
Graphite	Ongoing, 4,000 pounds per week	4147	B - Fred
Heat Treating Machine (small)	One time only, 125 pounds	9945	G - Jim
Rolls of tape	One time only, 700 pounds	10110	F - Rick
Safe(4'x7'x3') fire proof	One time only, 2,000 pounds	10103	G - Jim
Sand, foundry - can be used as flowable fill	Ongoing, 1,200 tons per month	1604	D - Julie
Seamless wall coating	One time only, 1,500 pounds	10093	D - Julie
Soap	One time only, 1,980 pounds	10033	I - Jodi
Solvent-based paint	One time only, 13 - 55 gal drums	10041	D - Julie
Speakers and wires for vehicle	Ongoing, 600 pounds per year	10074	I - Jodi
Toilet Paper Dispensers	One time only, 120 pounds	10042	D - Julie
Water slides	One time only, 4 semiloads	10115	F - Rick
Wire Brush (Slightly Used)	Ongoing, 400 pounds per year	9729	G - Jim
<b>Motor Vehicle Items</b>			
Polyisocyanate foam	Ongoing, 9,360 pounds per year	10027	D - Julie
Side mirrors for vehicle	Ongoing, 1,800 pounds per year	10076	I - Jodi
<b>Organic Waste</b>			
Carnuba Wax	One time only, 600 pounds	10034	I - Jodi
Protein By-Product	Ongoing, 936,000 pounds per year	9643	A - Perry
Soybean gum	Ongoing, 40,000 pounds per year	3087	E - Dennis

The materials listed on this insert are available for reuse or recycling. By using the Iowa Waste Exchange, you may be able to save your company money. At the same time, you can help reduce waste and save natural resources. Listing is free-of-charge. Solid waste fees fund the service.

For more information about listed materials, see the column marked "Contact" and call the specialist(s) listed on the front page of this insert. A searchable list of materials available through the Iowa Waste Exchange can be found at: [www.recycleiowa.org](http://www.recycleiowa.org) or [www.iwrc.org/exchange](http://www.iwrc.org/exchange).

ITEM	DESCRIPTION/AMOUNT	ID#	CONTACT
<b>Paper</b>			
Cardboard	Ongoing, 62,400 pounds per year	5444	H - Bill
Fiber cores	Ongoing, 19,500 pounds per year	7878	E - Dennis
<b>Plastics</b>			
Caution tape (printed)	One time only, 4,500 pounds	10057	F - Rick
HDPE pellets, teal colored	One time only, 1,050 pounds	10113	F - Rick
HDPE trailer lining scraps	Ongoing, 6,000 pounds per year	8343	H - Bill
Heavy Plastic Bag (3'x4' velcro closures & loop)	One time only, 36,000 pounds	10017	G - Jim
Lidded Totes	Ongoing, 927 pounds per year	10029	B - Fred
Lumber wrappers	Ongoing, 13,000 pounds per year	7515	F - John
Plastic housings for computers and other electronics	One time only, 8,000 pounds	9025	H - Bill
Plastic storage trays	Ongoing, 360 pounds per year	10075	I - Jodi
Plastic super bags	One time only, 3,125 pounds	9978	H - Bill
Plexiglas clear acrylic 1/8"x96"x81" (new)	One time only, 10,900 pounds	9676	G - Jim
Polypropylene	Ongoing, 10,400 pounds per year	4385	B - Fred
Polyurethane, foam	Ongoing, 2,080 pounds per year	1385	F - John
PVC shavings	Ongoing, 38,000 pounds per year	3772	B - Fred
Roller Bottles	Ongoing, 57,600 pounds per year	9819	B - Fred
Rolls of stretch wrap (new)	One time only, 1,200 pounds	10107	F - Rick
Super Sacks 36"x36"x65"	Ongoing, 78,000 pounds per year	9999	G - Jim
Supersacks	Ongoing, 4,200 pounds per year	9954	B - Fred
Tyvek envelopes foil liner	Ongoing, 1,200 pounds per year	10119	F - John
Vinyl Siding	Ongoing, 48,000 pounds per year	4790	E - Dennis
Virgin Resin and Regrind	One time only, 40,000 pounds	10088	B - Fred
<b>Rubber</b>			
EPDM insulating boots	One time only, 675 pounds	10127	F - Rick
Recycled rubber matting	Ongoing, 5,000 pounds per year	8340	H - Bill
Rubber 1/8"x1/4" strips	Ongoing, 4,000 pounds per month	2980	B - Fred
<b>Textiles</b>			
Denim	Ongoing, 650 pounds per year	4635	H - Bill
Fabric scrap	Ongoing, 30,000 pounds per year	2397	E - Dennis
Leather scrap	Ongoing, 28,080 pounds per year	3455	B - Fred
Poly blend thread	Ongoing, 3,120 pounds per year	7877	E - Dennis
Poly cotton	Ongoing, 74,880 pounds per year	7876	E - Dennis
Processed Wool	Ongoing, 1,000 pounds per week	9352	B - Fred
<b>Wood</b>			
Cedar Dimensional Lumber	Ongoing, 30,000 pounds per month	10136	A - Perry
Hardwood Sawdust, some walnut	Ongoing, 374,400 pounds per year	10118	F - John
Maple scraps	Ongoing, 48,000 pounds per year	144	G - Jim
Sawdust	Ongoing, 13,000 pounds per year	10015	F - Rick
Western Red Cedar	Ongoing, 30,000 pounds per month	10148	A - Perry
Wood crates	Ongoing, 37,500 pounds per year	9617	F - John
Wood shavings with turkey litter	Ongoing, 700 tons per year	9740	B - Fred
Wooden crates - shipping containers	Ongoing, 104,000 pounds per year	10124	D - Julie



Photos of materials with this symbol are available at [www.iwrc.org/exchange](http://www.iwrc.org/exchange)

# Closed Loop leads to match

**By John Koch**

*IWE Resource Specialist, Area F*



*John Koch*

Located on an acreage west of Williamsburg, R Family Recycling was owned and operated by John Roland. R Family Recycling picked up scrap metal and appliances from area residents and businesses and was also under contract to accept appliances from the Iowa County Landfill. R Family Recycling was registered to remove freon and other hazardous materials from appliances before sold as scrap metal.

When John passed away, his wife Kathy was left with a yard full of metal and appliances that she did not know how to remove or dispose of from the site.

Unfortunately, a metal dealer who had originally agreed to clean up the metal left after taking all the aluminum and copper from the site.

Kathy, uncertain on how to deal with the situation, contacted John Koch, Area Resource Specialist from the Iowa Waste Exchange. Doing what he could to help, John contacted companies that dealt with scrap metal. However, all of the ini-

tial contacts made would only accept the metal if it was delivered to them, since the marketplace for the used appliances was so low. No businesses were willing to pick up the appliances because the labor and transportation costs were prohibitive; there was too much empty space inside of an appliance to accommodate efficient transportation.

John decided to list the appliances in the Closed Loop. Ironically, soon after the listing appeared, a tariff was imposed on imported steel making scrap prices rise. Steve Pattebaum, of Midwest Scrap Metal, read the Closed Loop listing and called John for more information. Steve owned a mobile crushing unit that could crush the appliances, thereby allowing for more efficient hauling. Koch put Kathy in touch with Midwest Scrap Metal and they were able to work out an arrangement where Steve could pick up the appliances and metal in exchange for the scrap value of the material. The only additional cost to Kathy was the disposal of capacitors through Safety-Kleen.

From this successful match, Steve has picked up 11 trailer loads of metal weighing 220 tons and continues to retrieve even more from the site.

## Nestle Recycling Efforts Increased Dramatically

**By Jodi Jeanes**

*IWE Resource Specialist, Area I*



*Jodi Jeanes*

The Nestle Company, located in Waverly, IA, contacted Iowa Waste Exchange specialist Jodi Jeanes requesting assistance in diverting some of its waste products from the landfill to a

more efficient means of disposal or recycling. Nestle had previously been recycling cardboard, food waste and slingbags (mini bulk bags), but knew there was much more they could do to preserve the environment. With the assistance of the Iowa Waste Exchange and City Carton Recycling, Nestle was able to add plastic, cans, bottles, caps, pouch material (foil type), shrink wrap, plastic banding and foil seal to its list of recycled items.

To assist in their recycling efforts, Nestle has added new equipment to their facility. For instance, they now chip their plastic banding and ask that their distributors use only green banding. These chippers, along with three Vertech M-30 Compactors used for compacting pouch foil, have proven quite efficient. Three Welger RV Balers were also purchased for baling shrink-wrap and one Vertech M-72 Compactor is used for compacting Kraft-bag material.

Since the implementation of this new equipment only one year ago, the impact has been quite remarkable. Nestle has increased their recycling efforts by 78 percent. This increase has been made possible through a cooperation of recycling efforts between The Nestle Company, Iowa Waste Exchange and City Carton Recycling.

The Iowa Waste Exchange is a cooperative effort of Recycle Iowa/ Iowa Department of Economic Development, the Iowa Waste Reduction Center, the Iowa Department of Natural Resources, Iowa Community Colleges, Local Councils of Government and Iowa Solid Waste Agencies. The Exchange will not determine what may constitute a hazardous substance or create a hazardous situation. The Exchange will not make judgements with respect to any legal requirements, particularly for the storage, transportation, treatment or disposal of what may be defined as hazardous substances. For information about hazardous waste reduction and/or proper disposal, call the Department of Natural Resources Energy and Waste Management Bureau at (800) 367-1025 or the IWRC at (800) 422-3109.