

2010 Annual Report



ERIE COUNTY SOLID WASTE MANAGEMENT DISTRICT

2010 Solid Waste Management Plan



Vermilion Township drop-off recycling location provided by the Vermilion Township Trustees.

The Erie County Solid Waste Management District (the District) is responsible for adequate landfill space, providing recycling opportunities to residents, providing environmental education, and technical assistance to the residents. The District was formed in 1993 and the first plan was written in 1995. The plan is updated every five years and projects the District's

budget and programs for the next 15 years.

The plan is written by the Policy Committee members and the District Coordinator. The plan must be approved by 75% of the municipalities in Erie County before it can be sent to Ohio Environmental Protection Agency (Ohio EPA).

The 2010 plan was approved on September 28, 2010 by the Ohio EPA. The District is now responsible for implementing the plan by 2013.

The goals in this plan include:

- That 50% of the population will have curbside recycling five years after the plan is approved.

- That 75% of the population will have curbside recycling ten years after the plan is approved.

To reach these goals the District removed 8 of the total 14 drop-off locations between 2009-2011. These drop-off recycling locations were removed to implement curbside recycling programs.

Many of the communities that were affected decided to keep their drop-off recycling locations operating at their own expense. Even in locations where drop-off recycling locations remain residents still have the ability to set-up curbside recycling service. See below paragraph for recycling options in Erie County.

Recycling Options in Erie County

The District operated seven drop-off recycling locations in Erie County which includes:

- Florence Township
- Berlin Township
- Oxford Township
- Groton Township
- Erie County Sanitary

Landfill

- Osborn Park
- Services Center (will be removed in 2011)

The municipalities that operate their own drop-off recycling locations includes:

- Vermilion Township

- Margaretta Township
- City of Sandusky

Residents can call a waste hauler for curbside trash, recycling, and yard waste services. City of Huron residents have a contract with FSI Disposal for curbside trash, recycling, and yard waste services.

What you do matters:

- RECYCLING 21 ALUMINUM CAN SAVES 1 GALLON OF GASOLINE.
- USING RECYCLED GLASS REDUCES WATER POLLUTION BY 50%.
- RECYCLING 43 NEWSPAPERS WILL SAVE 1 MATURE TREE.
- MOTOR OIL NEVER WEARS OUT. OIL CAN BE REFINED, RECYCLED, AND RE-USED INDEFINITELY.
- AN ESTIMATED 80 MILLION HERSHEY'S KISSES ARE WRAPPED EACH DAY, USING ENOUGH ALUMINUM FOIL TO COVER ALMOST 40 FOOTBALL FIELDS AND ALL THAT ALUMINUM IS RECYCLABLE!

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Drop-Off Recycling Stats



The Erie County Services Center is the District's largest drop-off recycling location collecting 970 tons of materials.

This site is being evaluated as a location where curbside recycling is feasible.

The District operated seven drop-off recycling locations in 2010. The locations were all open 24 hours a day, everyday. The locations accept:

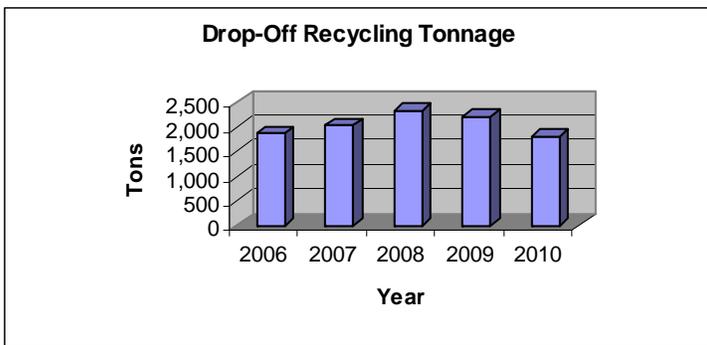
- Paper/cardboard/newspaper/magazines
- #1 & #2 Plastic
- Steel, aluminum, and bi-metal cans
- Glass

During 2010, a total of 1,556.73 tons were collected at the District operated sites and an additional 252.89 tons were collected from the municipalities operating their own drop-off locations. A total of 1,809.62 tons were collected from the drop-off recycling locations, down 18% from last years 2,215.34 tons.

The total cost of the mixed recycling contract (plastic #1 & #2, aluminum, steel,

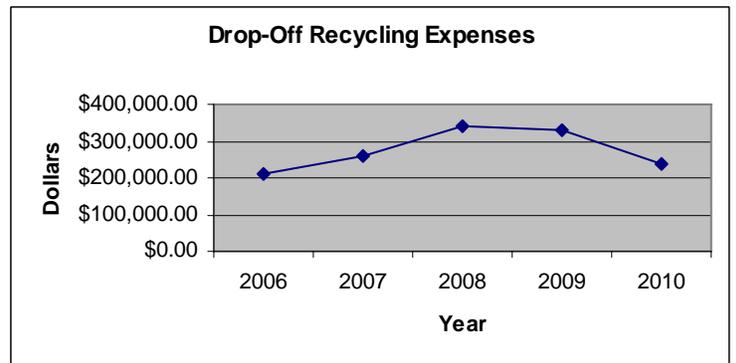
bi-metal, and glass) was \$184,909.51 or \$170 per ton, down 28% from \$258,930.00 in 2009. Total cost of the paper (cardboard, office paper, newspaper, and magazines) was \$69,195 or \$96 per ton, down 1% from \$70,075 in 2009.

The sale of paper yielded \$16,126.40 in revenue to the District. This lowered the net cost of paper processing to \$53,068.60 or \$73 per ton.



Total tons collected at the drop-off recycling locations for 2010 was 3,596 tons. This is a 62% increase over 2009's total 2,215 tons as seen in the above chart.

The District reduced the amount of drop-off recycling locations to reduce the expenditures. This cost cutting measure is working as shown in the chart below.



Battery Recycling



12,245 pounds of household batteries were collected in 2010. Please check www.ErieCountyRecycles.org for more locations.

Household battery recycling for 2010 totaled 12,245 pounds, up 34% from 2009's total of 9,126 pounds.

There are a total of eleven public locations for residents to drop-off their batteries. A few of those locations include:

- BGSU Firelands Campus

- Erie County Water/Sewer Billing Office
- Osborn MetroPark
- Huron & Vermilion Ace Hardware
- SBA Sandusky Goodwill

Wet cell batteries (automotive) are collected at the Erie County Sanitary Landfill and

processed free of charge. During 2010, a total of 1.32 tons of wet cell batteries were recycled.

This is down 76% from 2009's total of 5.56 tons. This is most likely from many automotive part stores offering a cash back incentive for return of the old batteries.

Mercury Recycling

The District operates a mercury thermometer exchange program with local fire departments and Emergency Management office.

Erie County residents have the ability to bring in their mercury thermometer and exchange it for a digital thermometer.

This program has been successful at collecting 2 to 3 pounds of thermometers a

year. In 2009, this program dropped dramatically to around a pound. This is indicator that the program is working.

Emergency Management and the District also collect mercury and mercury containing devices to be recycled.

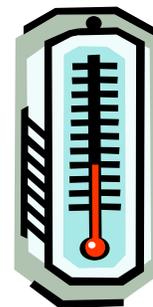
A resident has the ability to drop the mercury and/or mercury containing device off at the Huron Basin

Wastewater Treatment Plant on River Road.

- Huron Basin Wastewater Treatment Plant at 554 River Road, Huron, Ohio 44839
- Or call (419) 433-7303 and ask for the Lab

This program has collected 25 to 35 pounds of mercury per year.

www.ErieCountyRecycles.org for more information on mercury recycling.



Exchange your mercury thermometer for a digital thermometer at an Erie County Fire Station. Please call ahead.

Tire Recycling

A tire amnesty grant was received from Ohio Department of Natural Resources, Division of Recycling and Litter Prevention in July of 2004.



The grant funds of \$10,000 helped establish a permanent recycling program for scrap tires at the Erie County Sanitary Landfill.

In August 2005, the District established the user fee (\$2.00 for passenger tire without the rim or \$0.10 a pound) to be collected by the Erie County Sanitary Landfill to maintain the program.

The tire recycling program at the Erie County Sanitary Landfill is now self sufficient with revenues and expenditures nearly balancing.

The tire recycling program collected 32.10 tons of tires in 2010, down 30% from 2009's total 45.56 tons.

TAKE YOUR OLD TIRES TO THE ERIE COUNTY SANITARY LANDFILL TO BE RECYCLED. THE FEE IS \$0.10 PER POUND OR AROUND \$2 PER TIRE WITHOUT A RIM.

Scrap Metal Recycling

A scrap metal collection bin was placed at the Erie County Services Center in September 2004.

Due to the success of the pilot project, the box remains at the site at no cost to the District.

A total of 33 tons was collected in 2010 down 30% from 46 tons in 2009.

The Erie County Sanitary

Landfill also collects and



separates scrap metal from incoming loads to be recycled.

The user still has to pay the

gate fee for entering the landfill when using this program.

In 2010, the Erie County Sanitary Landfill collected 38 tons of scrap metal.

This program will be discontinued in 2011 with the removal of the Services Center Drop-off recycling location.



You can take old appliances to the Erie County Landfill or local scrap yards to be recycled.

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Bring your old appliances and electronics to the Appliance & Electronics Round-Up. This event is free to Erie County residents and happens every July at the Fairgrounds.

Appliance & Electronics Round-Up

On Saturday, July 10, a total of 250 cars came through the Appliance & Electronics Round-Up event. The event was held at the Erie County Fairgrounds from 9am-noon.

Collections for 2010 included:

- 8.55 tons of appliances
- 14.03 tons of electronics
- 22.58 total tons

Total cost of this event was \$5,579.53, which included

labor costs of two Erie County operators and expenses for the electronics handler. The expenses were up from last year's \$521.34 because of an increased cost of electronics handling.

The revenues that the scrap metal from the appliances brought in were \$855 and offset the total cost of expenses from \$5,579.53 to \$4,724.53.

Anytime that this event generates revenue the District

allocates those funds to be used to properly recycle tires found in clean-ups along roadways, beaches, and streams in Erie County.

The District will be seeking electronics recyclers that pay for electronics recycled for next year's collection. These funds should offset the expenses and make the District a profit.

ALL THREE
BERLIN-MILAN
SCHOOLS
PARTICIPATED IN
SCHOOL
RECYCLING AND
RECYCLED A
TOTAL OF
32,250 POUNDS
OF MATERIALS.

School Recycling

In 2008, the District partnered with Christie Lane Industries to write and receive an Ohio Department of Natural Resources Grant to provide school recycling.

The grant gave each school several recycling containers to place in their school and paid for the hauling services provided by Christie Lane Industries.

Several schools have stuck with the program and pay

the \$10 a pick-up for hauling services.

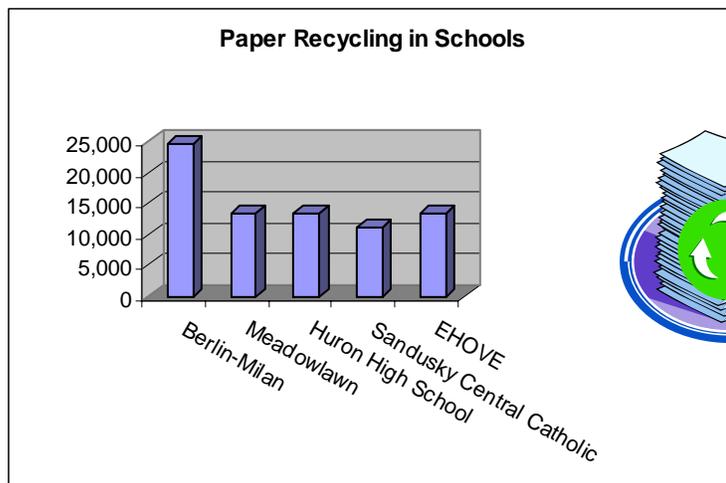
The total school recycling program has recycled 84,000 pounds of materials.

The schools that participate are:

- Berlin-Milan (all schools)-they recycled 24,750lbs of paper, 6,000lbs of cardboard, and 1,500lbs of steel.
- Meadowlawn (Perkins)-recycled 13,500 pounds of paper.
- Huron High School-recycled 13,500 pounds of paper.
- Sandusky Central Catholic-recycled 11,250 pounds of paper.
- EHOVE-recycled 13,500 pounds of paper.

School Recycling Chart

All the schools that participate in the school recycling program recycle paper. Paper is the most used material in the school which makes it very easy to recycle.



Education



The District is mandated by Ohio Environmental Protection Agency (Ohio EPA) through the eight goals set in the State Solid Waste Plan.

Two of these goals are to provide education and awareness of solid waste issues to the residents and

businesses of Erie County (specifically Goal #3 and Goal #4).

Goal #3 states that the District must provide informational and technical assistance on source reduction.

Goal #4 states the District must provide informational and technical assistance on recycling, reuse, and composting opportunities.

To meet these goals the District conducts classroom, adult, youth group presentations, and participates in special events.

In 2010, the District performed 22 programs and participated in 32 events that had 104 volunteers and 31,925 participants.



How can we change behavior to instill environmental education?

Ohio EPA Educational Updates

The District is required to update their Solid Waste Plan every five years to project out 15 years.

During the 2015 update the District will have to meet the minimum requirements of Goals #3 and #4 regarding education:



- **Webpage**-create and maintain a web site providing basic information.
- **Comprehensive Resource Guide**-prepare and regularly update a guide with basic information.
- **Infrastructure Inventory**-maintain and make

available up-to-date information about basic solid waste management and recycling infrastructure.

- **Speaker/Presenter**-employ or have readily available someone who can function as a speaker or presenter when needed.

CHECK OUT OUR WEBPAGE:
WWW.ERIECOUNTYRECYCLES.ORG



Education Plan

As part of the 2015 Solid Waste Plan update the District will be required to develop an outreach and marketing plan for providing education to residents and businesses.

There will be three components that the District will have to incorporate into the outreach and marketing plan:

1. Address the five specified target audiences; residents, schools, industries,

institutions, commercial businesses, communities and elected officials.

2. Follow basic best practices when developing outreach programs.
3. Select an outreach priority and provide programs to all appropriate audiences in the context of the priority.

The District has been working on the education and awareness plan since 2009 when Ohio EPA announced the changes in order to be proactive.

The first outreach priority will cover the infrastructure changes the District has currently undergone with the approval of the 2010 Solid Waste Plan.



The Education Plan targets the priorities for the year and how we plan to change behaviors.

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THE ANNUAL ENVIRONMENTAL POSTER CONTEST THAT THE DISTRICT SPONSORS IS UTILIZED AS MARKETING THE DISTRICT'S MESSAGE.

Marketing Plan



The District will use the same three components that are listed in Education for Marketing the District.

Utilizing partnerships the District has developed over the years (see below) a common message and theme

will be used for any education and outreach.

A combination of marketing avenues will be utilized to reach all five of the previously listed target audiences, including:

- Website
- Newspaper Ads
- Brochures
- TV Commercials
- Contests

- Give-a-way Items

With the infrastructure changes of eliminating drop-off locations and implementing curbside programs the District will be shifting some of the savings to the education and outreach plan.

For more information regarding these changes please contact Lisa Beursken at (419) 433-7303.

www.ErieCountyRecycles.org

Partnerships



Erie Soil & Water Conservation District is one of the partnerships the District utilizes when writing grants or creating events and programs.



The District along with many other organizations understands the power in numbers, when it comes to spreading the same message, providing events, and combining programs.

Due to the current economic trends the District has combined forces with:

- Erie MetroParks

- Firelands Coastal Tributaries
- Barnes Nursery
- Friends of Pipe Creek Watershed
- SBA Goodwill Industries
- Huron County Board of DD workshop Christie Lane Industries

- Old Woman Creek
- Erie Soil & Water Conservation District

By partnering with other organizations the District is better served when filing grants, providing programs, and combined events.

THE DISTRICT IS A MEMBER OF OHIO ASSOCIATION OF LITTER PREVENTION AND RECYCLING PROFESSIONALS AND CAN NOMINATE AN ERIE COUNTY STUDENT FOR A SCHOLARSHIP.

Educational Scholarships Available

The Ohio Association of Litter Prevention & Recycling Professionals (OALPRP) established an annual scholarship for college students and college-bound high school seniors to further their educational careers. Meyers was a long-time Ashland County Commissioner who, along with serving on the Ohio Department of Natural

Resources Division of Recycling and Litter Prevention advisory board, was a strong supporter of OALPRP and its mission.

Mr. Meyers was an advocate of litter prevention and recycling in the state of Ohio and of the professionals given the charge to promote the program in our communities. The scholarship was named in his memory as a token of our appreciation for all his

contributions, counsel, and support of the organization and its members.

The program began with two \$500 scholarships that were awarded annually to those that meet the criteria stated in the application.

Visit the OALPRP website for more information: www.oalprp.org

Erie County Fair: House of Recyclables

The District partnered with:

- Christie Lane Industries
- Barnes Nursery
- Menards
- Erie MetroParks
- Erie Soil & Water Conservation District
- Future Green LLC
- ThermOhio

To build the recycled house that was featured at the Erie

County Fair.

The goal of the house was to bring awareness about how much “stuff” people generate and how recycling can help reduce their waste..

Green tips and facts were posted through the recycled house on how to reduce, re-use, and recycle at home.

Future Green LLC and ThermOhio put together a display on thermal imaging to show heat loss and dis-

played a working solar panel for the recycled house.

A rain barrel was on display compliments of Erie Soil & Water Conservation District.

The entire back wall of the recycled house was made of cardboard, and children were encouraged to decorate it with markers.



The finished house just in time for the first day of the Erie County Fair!



Construction started with a frame made from reclaimed lumber, a cardboard roof that was shrink wrapped, and even the installation of a solar panel. Future Green LLC loaned out the solar panel and lights for the recycled house.

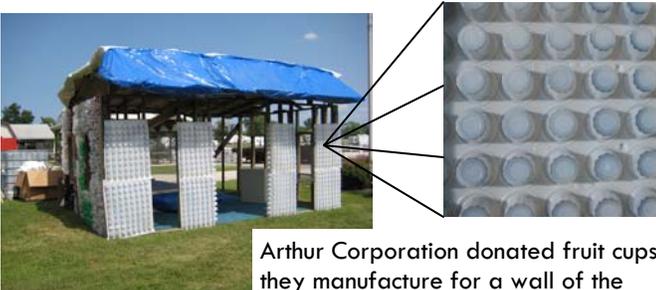


Inside the recycled house, homey touches were added. Recycling and alternative energy information was displayed throughout the recycled house.

“THE GOAL OF THE HOUSE WAS TO BRING AWARENESS ABOUT HOW MUCH “STUFF” PEOPLE GENERATE AND HOW RECYCLING CAN HELP REDUCE THEIR WASTE.”



Materials included: glass bottles, plastic bottles, cardboard, textiles, plastic boat wrap, wood from torn down houses, plastic fruit cups, and old carpeting.



Arthur Corporation donated fruit cups they manufacture for a wall of the recycled house. The Arthur Corp recycles plastic to make their products.

Earth Day Extravaganza

The 4th Annual Earth Day Extravaganza was held on Saturday, April 17th from 11am-5pm at the Sandusky Mall.

Earth Day Extravaganza is a free event for the public and the vendors involved.

There are about 40-50 vendors representing local organizations, non-profits, and county agencies. A few of those agencies include:

- Erie Soil & Water

Conservation District

- Sandusky Children's Museum
- Friends of Pipe Creek Watershed
- Erie MetroParks
- WKFM live remote

The public can view displays, participate in activities, learn about local efforts in the community and pick-up green give-a-way items.

The District displays the Environmental Poster contest winners and has their prize packages available for pick-up.

A Recycled Art Contest is promoted through the District in which participants have a table of recyclables, hot glue guns, scissors, and 30 minutes to make art. PR Miller, Industrial Artist is the celebrity judge for the Recycled Art Contest.



SK Worm was Erie Soil & Water Conservation District's guest at Earth Day discussing soil issues.

Special Events

The District attends a variety of special events throughout the year to educate the public on solid waste management issues. Some of these special events include:

- **BGSU Firelands Earth Day**-the District sets up a display at the campus
- **BGSU Arbor Day**-the District participates in the

annual tree planting for Arbor Day

- **Go Green Celebration**-the City of Sandusky hosts an open house at the Sandusky Greenhouse, and the District and many other organizations have displays set-up.
- **City of Huron Clean-Up-**

the District partners with the Parks & Recreation Department to host a city-wide clean-up.

- **Harvest Happenings**-the District provides a display and hands on activities discussing solid waste issues in Erie County.

THE DISTRICT IS INVOLVED WITH A VARIETY OF SPECIAL EVENTS THROUGHOUT ERIE COUNTY.

Recycle Bin Loan Program

The District received a United States Department of Agriculture Rural Development Grant in 2006 that gave the District the funds to purchase recycling containers (seen on the right) that could be loaned out to organizations, non-profits, and government agencies.

The recycling containers are loaned out at no cost with a signed Agreement.

These containers allow the organizers of an event to collect recyclable materials rather than throwing everything into the trash.

The District asks that the organizer keep track of the

amount of materials collected by the containers and that the material is recycled at a drop-off location.

In 2010, the containers were loaned out to five organizations and collected 2 tons of recyclable materials.



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Solid Waste Disposal

To be a licensed waste hauler in Erie County, the hauler must have a Service Provider Agreement (SPA).

Implementation of these SPA in May of 1999. The use of the SPA increased waste receipts at the Erie County Sanitary Landfill substantially diverted waste which had previously been taken to a privately owned landfill.

Waste receipts at the Erie County Sanitary Landfill in 2010 totaled 134,783 tons, up 71% from 78,891 tons in

2009. The increase is due to a five year agreement between Erie and Huron counties to accept waste from Huron County at the Erie County Landfill.

Municipal Solid Waste (MSW)-is waste generated by businesses or residents and in 2010 totaled 61,134 tons is up 8% from 56,771 in 2009.

Industrial Solid Waste (ISW)-is waste generated by industry and in 2010 totaled 12,831 is down 4% from

13,426 tons in 2009.

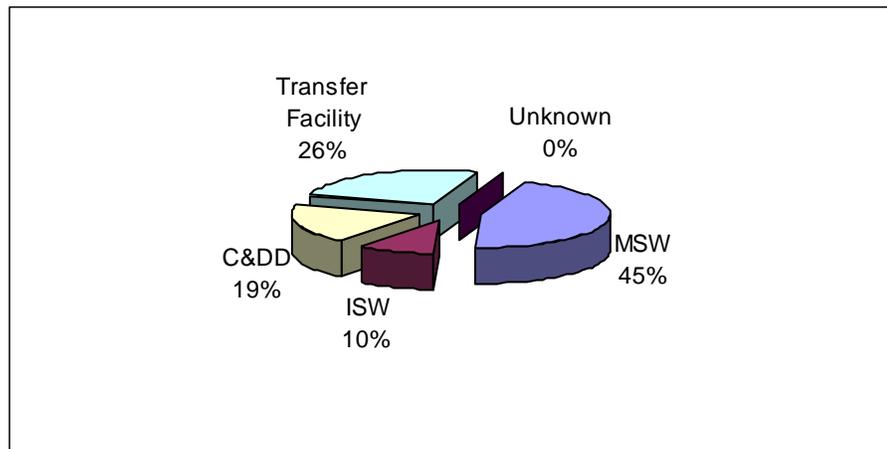
Construction and Demolition Debris (C&DD)-is waste generated from construction or demolition of buildings/houses and in 2010 totaled 25,207 tons up 67% from 12,143 tons in 2009.

Transfer Facilities-is a temporary location for bringing in waste from places such as Kelleys Island and in 2010 totaled 35,593 tons.

Unknown-this includes animals and other trash brought in along side road.

HOUSEHOLD TRASH REPRESENTS 45% OF THE TOTAL VOLUME ENTERING THE ERIE COUNTY SANITARY LANDFILL.

Solid Waste Disposal Chart



Revenues

Revenues are collected by the following means:

Generation Fees-per the Solid Waste Plan at \$4 per ton of trash collected at the Erie County Sanitary Landfill on MSW and ISW only.

County Contributions-other county agencies, organizations, and businesses

that aid the District.

User Fees-fees paid for service including tire recycling.

Grants-the District applies for several grants per year to subsidize District expenses.

Other-this includes recycling revenue and reimbursements to the District.

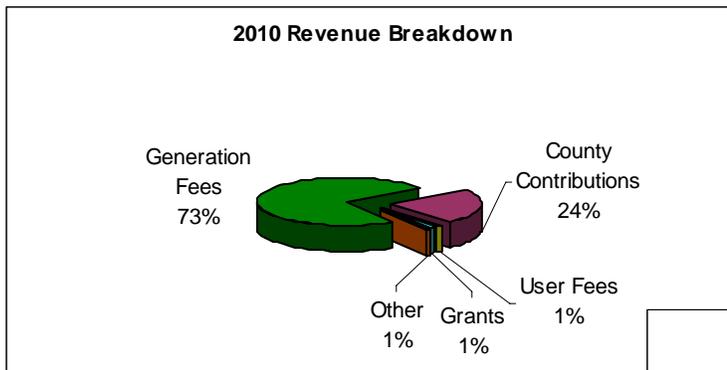
Total revenues for 2010 were \$382,019 which is down 17% from 2009's \$459,270. This drop in revenue is from decreased tonnage and contributions from the Erie County Sanitary Landfill.

The District is working toward self reliance through curbside and self funded programs.



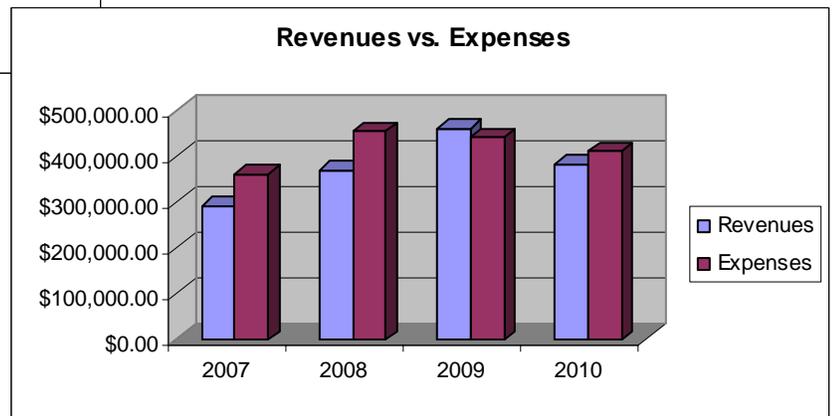


Revenues Chart



The below chart shows the Districts revenues versus the expenses. The District is working on sustainable programs to become financially responsible.

The above chart shows the District relies on the tonnage at the Erie County Sanitary Landfill for 73% of the revenues generated to operate the Erie County recycling program.



Expenses

Expenses are broken down into the following categories:

- **Contract Services**- contracts for the operation of the drop-off recycling locations, battery recycling, and special

events.

- **Personnel**-includes one full-time and one part-time employee with benefits.
- **Cost Allocation**-are reimbursements for services rendered by

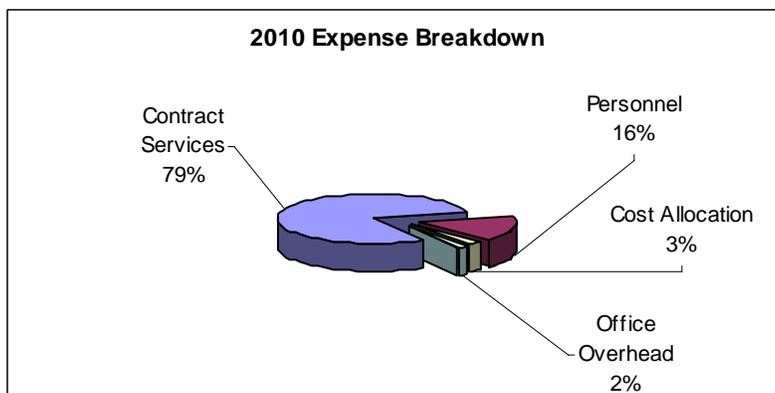
county employees covered under the general fund.

- **Office Overhead**-covers printing, advertising, supplies, and travel.

Total expenses for 2010 were \$409,388.87 down 7%

from 2009's total \$439,654.65. This drop in expenses is mainly due to removal of drop-off recycling locations and increasing curbside recycling programs.

Expenses Chart



The chart to the left reflects the breakdown of the total expenses. Contracts for the drop-off and battery recycling program as well as special events are reflected in this percentage.



If you're not recycling....you're throwing it all away!

ERIE COUNTY SOLID WASTE MANAGEMENT DISTRICT

2010 Accomplishments

554 River Road
P. O. Box 469
Huron, Ohio 44839
Phone: (419) 433-7303
Fax: (419) 433-6214
E-mail:
Recycle@eriecounty.oh.gov

- The 2010 Erie County Solid Waste Management District Plan was approved by Ohio EPA on September 28, 2010.
- Partnered with Christie Lane Industries and received several donations to build the Recycled House at the Erie County Fair.
- Held several meetings to discuss the Erie County Solid Waste Management District Plan with municipalities and waste haulers
- Offset the District's budget with \$2,500 of grant funding
- Coordinated in the following special events: Appliance & Electronics Round-Up, Great American Clean-Up, Earth Day Extravaganza, Harvest Happenings, and the Go Green Celebrations.
- A total of 104 volunteers aided the District working 372 man hours, saving an estimated \$7,533 (based on dollar amounts from the Erie County Volunteer Center) in paid time and benefits.

Visit us on the web!
www.ErieCountyRecycles.org

Goals for 2011



Getting on target for 2011!

The District likes to set goals to make sure we are on target with the Erie County Solid Waste Management Plan and to better serve Erie County.

Here are the 2011 goals:

- Establish self sufficient drop-off recycling locations for rural areas.
- Implement curbside recycling programs for populations of 5,000 or more.
- Offset the District's budget by applying for grants to provide educational programs, infrastructure improvements, and provide an education and outreach program.
- Establish a mattress recycling program at the Erie County Sanitary Landfill.
- Incorporate a mercury recycling program in the District budget.
- Partner with Christie Lane Industries and Double S Industries to provide a free paper shredding event.
- Implement and stay in compliance with the Erie County Solid Waste Management District Plan.
- Encourage purchasing recycled content materials by local governments, organizations, businesses, and local schools.
- Bring back programs that have been on hold due to decreasing revenues such as; Household Hazardous Waste Collection Event, increase educational programs, and the Community Grants Program.
- Utilize webinars for educational programs.