

2019 New SWMD Coordinator Training



Presented by Ohio EPA and OSWDO
November 7, 2019

Ohio EPA SWMD New Coordinator Training
Thursday, November 7, 2019
CCAO Office, 209 East State Street, Columbus, OH 43215
10:00 AM – 3:00 PM

10:00 – 10:05 Sign-In and Introductions

10:05 – 10:20 Welcome from Laurie Stevenson, Ohio EPA Director

10:20 – 11:50 SWMD Coordinator Bootcamp

- Solid Waste Management History and Structure (20 minutes)
- Solid Waste Management Plan and Format (20 minutes)
- Re-TRAC (20 minutes)
- Grant/Loan Programs (20 minutes)
- Q&A (10 minutes)

11:50 – 12:35 Lunch (provided)

- Walkthrough of Ohio EPA Planning Website

12:35 – 2:50 Afternoon SWMD Panels (30 minutes each)

- Session One (12:35 – 1:35)
 - Recycling Programming Panel
 - Managing Special Waste Panel
- Break (1:35 – 1:50)
- Session Two (1:50 – 2:50)
 - Education/Outreach Panel
 - Administrative Panel

2:50 – 3:00 Adjourn/Closing Remarks

Solid Waste Management History and Structure

New Coordinators' Training



1

A Brief History of Solid Waste



Municipal waste
collection dates
back 2000 years



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A Brief History of Solid Waste

- Garbage often tossed into the streets
- Pigs were used as a means of disposing of garbage



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Industrialization



- Changed the amount and makeup of waste
- Invention of disposable products and packaging



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Solid Waste Regulations

- 1963 – US Supreme Court bans dumping MSW in the Ocean
- 1965 – Solid Waste Disposal Act
- 1968 – Ohio's First Solid Waste Rules
- 1976 – Rule Revision
- 1976 – Resource Conservation and Recovery Act



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House Bill 592



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Solid Waste Issues Prior to HB 592

- Disposal Rate Increased Significantly
- Shortage of Landfill Capacity and Operating Facilities
- Lack of Planning for New Disposal Facilities
- Increased amount of out-of-state waste imported into Ohio



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Solid Waste Issues Prior to HB 592

- Bad Operating History at Some Landfills
- Ground Water Contamination at Badly Designed Facilities
- Lack of Effective Enforcement



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House Bill 592

- Passed in 1988
- Comprehensive Regulations Governing Solid Waste Disposal Facilities
- Increased Efforts to Reduce, Reuse and Recycle



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House Bill 592

- Maximize Disposal Capacity through the Planning Process
- Established Solid Waste Management Districts



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Solid Waste Management Districts

- Every County Must Belong to a SWMD
- Districts may be Single or Multi County
- Ohio's 88 Counties are Organized into 52 SWMDs
 - 33 Single County
 - 14 Multi County
 - 5 Authorities



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Solid Waste Management Districts

- Range from one county to six counties
- Population: 22,000 to 1.4 million
- Budgets: Less than \$50,000 to more than \$7 million
- Account Balances: No funds - \$8 million



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Responsibilities of SWMDs

- Prepare and implement a solid waste management plan
- Achieve the goals of the state solid waste management plan
- Safe and sanitary management of all solid waste generated within the SWMD or authority



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Board of Directors

- Convene the policy committee
- Adopt and enforce rules
- Establishes rates and charges
- Ratify solid waste management plan



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Policy Committee

- Prepare, adopt and receive approval for a plan
- Reviews progress toward implementing plan
- Authorize board to adopt and enforce rules



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Policy Committee

- Authorize board to designate facilities
- Levies disposal and generation fees



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Board of Trustees

- Governing body of Solid Waste Management **Authorities**
- Performs functions of policy committee and board of directors
- Members composed of the same representatives as SWMD policy committee



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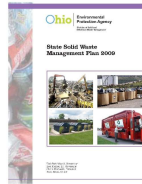
Materials Management Advisory Council (MMAC)

- Formerly Solid Waste Advisory Council and Recycling and Litter Prevention Advisory Council
- Provide guidance on solid waste issues and grants
- Appointed to three-year terms by the governor
- Members include stakeholders in the solid waste management system



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State Solid Waste Management Plan



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State Solid Waste Management Plan

What is it?

- Ohio's strategy for reducing use of landfills
- Sets recycling goals for Ohio and SWMDs
- Establishes requirements for other aspects of waste management
- Prepared by Ohio EPA working with MMAC



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State Solid Waste Management Plan

2009 State Plan has 8 goals

- Primary goals:
 - Goal 1 – Provide recycling opportunities
 - Goal 2 – Recovery Rates
 - Goal 4 – Outreach and Education



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State Solid Waste Management Plan

In process of adopting the 2020 State Plan

Notable changes over 2009 version:

Provides additional flexibility to SWMDs for achieving goals

- Eliminates industrial reduction/recycling rate
 - Existing = reduce/recycle 66% of industrial waste
 - New = Strategy for assisting industrial generators
- Reduces standard for achieving Goal 1
 - Existing = 90% of residential sector has ability to recycle
 - New = 80% of residential sector has ability to recycle

Establishes a market development strategy for Ohio EPA



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Solid Waste Management Plans



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What is a Solid Waste Management Plan?

The SWMD's strategy for operating...

A public engagement process that results in a strategy for:

- Achieving goals of the state plan
- Managing solid waste during the planning period

Governs the activities of the SWMD over the planning period:

- How it spends money
- What programs it offers
- What rules/authorities it has

Prepared by the policy committee/board of trustees every 3 or 5 years



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Why Plan?

Planning helps SWMDs...

- Remain relevant and responsive
- Identify what is needed by constituents
- “Sell” programs and gain buy-in
- Ensure programs/approaches are reviewed on a regular basis
- Continue moving forward



SWMD Coordinator Training



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What is in a plan?

Contents are prescribed by law and a format issued by Ohio EPA

Key components:

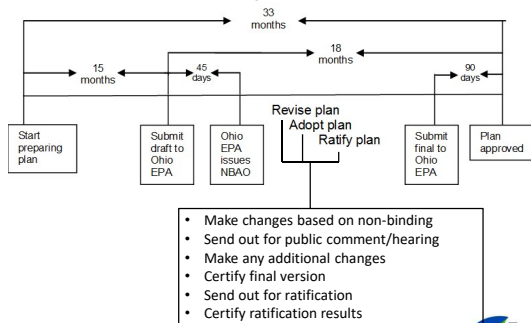
- Inventory of waste & recycling infrastructure
- Current “snapshot” of district operations (descriptions, strengths & challenges)
- Waste generation & recycling projections
- Future programming
- Projected disposal and recycling
- Demonstrate meeting goals
- Budget
- Rules & authorities

...any other information policy committee deems necessary



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Plan Development Timeline



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How can Ohio EPA help?

We will assist when appropriate...

- Attend policy committee meetings.
- Attend community meetings.
- Give feedback throughout the process.
- Provide a statewide perspective on trends and ideas.
- Be a cheerleader when you need it.



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District Solid Waste Management Plan Format



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District Solid Waste Management Plan Format

The Format is...

- ✓ The “how-to” manual for preparing a solid waste management plan.
- ✓ Issued by Ohio EPA (as required by law) to prescribe contents and layout of a solid waste management plan
- ✓ Specifies information constituents need to ratify plan and Ohio EPA needs to approve plan

...Kinda like the planning equivalent of a permit application for a landfill



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District Solid Waste Management Plan Format

Current version is Format 4.0...

Format 4.0 consists of the following:

- Instructions (Adobe .pdf)
- Working Document (Word)
- Workbook (Excel)
- Workbook Instructions (Adobe .pdf)

Will be updating Format 4.0 to address changes to goals from 2020 State Plan



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Structure

Results in a solid waste plan with...

- *6 concise, easy to read chapters*
 - ✓ ...Kinda like an executive summary
 - ✓ Convey most important information

Audiences are general public and elected officials
- *Series of appendices*
 - ✓ Provide technical information and data
 - ✓ Keep the boring stuff out of the way

Audience is Ohio EPA (and other data geeks)



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Format as a Planning Tool

Provides a “module” for strategic analyses

- ✓ Structure for strategic analysis of programs and factors
- ✓ SWMDs perform 14 analyses (kinda like mini studies)
- ✓ Leads the policy committee through a review of the SWMD

A holistic review of the SWMD from an objective perspective



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Format as a Planning Tool

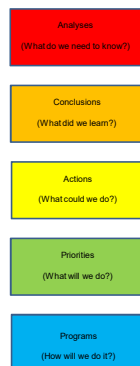
Purposes of Analyses:

- ✓ Give the policy committee a full understanding of the SWMD, its programs, and its region of the state
- ✓ Help the policy committee prioritize what the SWMD will do under the new plan
- ✓ Increase policy committee's (and hopefully others') involvement in the planning process and making decisions

Goal is for policy committee to have information to make informed decisions



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What are we asking SWMDs to do?

Prepare a plan by:

- ✓ Using best available data to make decisions and project results
- ✓ Making informed, strategic decisions about what the SWMD will do over the next 6 years
- ✓ Clearly identifying and describing the programs and services that will be available
- ✓ Demonstrating financial solvency
- ✓ Making a good faith effort to fulfill intent of the planning process

Plan is a strategy for implementing programs not a strategy for making decisions



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Reporting in Re-TRAC

November 7, 2019



1

ReTrac Basics

- Required reporting done through ReTrac
- Login information provided by Ohio EPA
- Reports are broken up in to individual “surveys”
- Saving vs. Marking Complete



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Annual District Reports

- **Contacts**
 - Always draft
 - Required Contact Info.
- **General Information**
 - Population
 - Not the same every year
 - Adjustments should be made
 - Highlights and Challenges
 - Studies and Subcommittees
 - Fees and Funding
- **Out of State Waste Disposal**



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Annual District Reports

- **SWMD Waste Reduced and Recycled**
 - Analysis of Plan Projections
 - Credible vs Non-Credible Materials
 - Explanations Column
 - Analytics - Disposal Recycling and Generation
 - Other Materials
 - Sources of Data



4

Annual District Reports

- **Status of Plan Implementation Surveys**
 - Single/Multi County
 - Annual ADR Submittal vs. Plan Approval Surveys
 - Paginated Surveys
 - Comments/Activities Columns
 - Examples
 - No Activity Explanations
 - Adding and Removing Programs
- **Certification and Submittal Survey**



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Residential programs, Commercial/Institutional programs, Industrial Programs, Restricted/Hard to recycle materials (Survey)	Education/Outreach (Survey)	Grants/Incentives, Facilities, Enforcement/Other (Survey)
Residential Sector Reduction and Recycling Programs Curbside Recycling Initiatives Drop-off Recycling Initiatives Other Drop-off Recycling Multi-Family Programs Other Residential Recycling Programs Commercial/Institutional Sector Reduction and Recycling Programs School Recycling Collection Services Public Venue and Special Event Recycling Waste Assessment and Audits Contracting Assistance Workgroups/Roundtables Award/Recognition Programs Other Commercial/Institutional Programs Industrial Sector Reduction and Recycling Programs Collection Services Waste Assessments and Audits Contracting Assistance Workgroups/Roundtables Award/Recognition Programs Other Industrial Programs Restricted & Difficult to Manage Wastes, Special Collection Events Appliances Electronics HHW Batteries Scrap Tire Yard Waste Organics Pharmaceuticals Glass Other	Category Website/Social Media Resource Guide Speaker/Presenter Residential Sector Education & Outreach Commercial/Institutional Education & Outreach Industrial Sector Education & Outreach Elected Officials Education & Outreach School Education & Outreach Other Education & Outreach Material or Focus General Curbside Drop-off HHW Multifamily Organics/Food Waste Scrap Tire Yard Waste NOTE: The "Category" and "Material or Focus" can be used together in any combination. "General" is the default Material or Focus.	Grants, Economic Incentives, Market Development Community Grants Business Grants Pass-through Grants Other Grants Financial Award Programs Other Economic Incentives Market Development Facility Operation Landfill Transfer Facility Compost Facility Recycle Processing (MRF)/ Transfer Mixed Waste Processing Other Facility Enforcement & Clean-up Health Dept. Sheriff Dept. Open Dump surveillance Open Dump and Scrap Tire Clean-up Litter and Community Clean-up Other Enforcement or Clean-up Activity Other Programs Feasibility Studies Data Collection Efforts Disaster Debris Management Other Programs



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Quarterly Fee Reports

Reports are due according to the following schedule:

- First quarter (January 1 through March 31) due May 15;
- Second quarter (April 1 through June 30) due August 15;
- Third quarter (July 1 through Sept 30) due November 15;
- Fourth quarter (Oct 1 through Dec 31) due February 15.
- **Fee Levels**
- **Revenues**
 - Detailed Reporting of Fees Form
 - Other Revenue



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Quarterly Fee Reports

- **Expenditures**
 - 10 Allowable Uses
 - Expense Columns
 - Other
 - Fund Balance
 - Pass Through Grant Balance



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Recycling and Litter Prevention Grant Program

SWMD New Coordinator Training

Nov. 7, 2019



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Grant Types

Community & Litter Grant

- Litter prevention efforts, processing collection equipment, litter collection & tire amnesty events
 - Local & state government, non-profits are eligible
 - Match is 25%; Grant period = 12 months
 - Up to \$200,000



2

Grant Types

Market Development Grant (\$200,000)

- Create or expand types of recycled products
- Equipment to process recyclable materials
 - Match 100%; Grant Period = 24 months
 - Requires Govt. sponsor



Scrap Tire Grant (\$300,000)

- Create or expand scrap tire processing & beneficial use projects
 - Beneficial use projects include ground tire rubber & recycled asphalt shingles
 - Match 100%; Grant Period = 24 months
 - Communities eligible for GTR projects
 - Businesses requires Govt. sponsor



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Focus on Education

Governor DeWine's Education Agenda

Director Stevenson's push for student/school engagement

- Encouraging Environmental Excellence in Education (E4) program
- Added Academic Institution Grant



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New Grant Type

Academic Institution (New)

- Public & private K-12 schools, colleges & universities may receive funding for recycling efforts, outreach & education, recycling equipment & conference sponsorships
 - Match 25% (except GTR paving = 100%)
 - Grant period = 12 months (GTR paving = 24 months)
 - Up to \$100,000 (\$300,000 for GTR)



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2019 Grant Awards

	Requested	Awarded
Community & Litter Grants	83	55
Market Development Grants	13	5
Scrap Tire Grants	8	5
Total Applications	104	65



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2019 Grant Funds

	Requested	Awarded
Community & Litter Grants	\$3,995,563.00	\$2,378,418.00
Market Development Grants	\$1,693,160.00	\$625,041.00
Scrap Tire Grants	\$1,663,846.00	\$927,336.00
Total Applications	\$7,352,569.00	\$3,930,795.00



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SWMD's role?

Grantee

Community & Litter Grant

- Up to \$200,000 for certain projects
- Can combine requests up to \$100,000

Govt. Sponsor (still the Grantee)

Market Development & Scrap Tire

- Serves as sponsor to private business
- Business (Cooperating Enterprise) works closely with sponsor



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2020 Grant Schedule

Due to the competitiveness of the program, not all eligible projects will be approved for funding

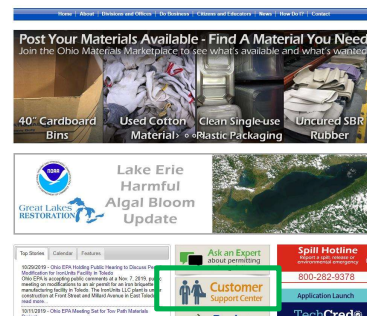
- Online Grant Application Opened: Nov. 4, 2019
- 2020 Grant Informational Webinar: Jan. 8, 2020
- Grant Review Deadline: Jan. 31, 2020
- Online Grant Application Closes: Feb. 7, 2020
- Business Documentation Deadline: Feb. 14, 2020



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How to Apply

Go to: epa.ohio.gov



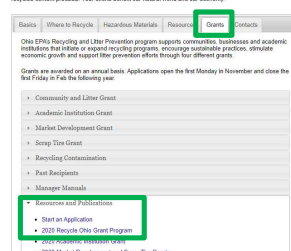
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How to Apply

Go to: recycleohio.gov

Recycling

Recycling is an important way for individuals and businesses to reduce the waste they generate and reduce the negative impact of that waste. Because recycling is big business in Ohio, every time you recycle you support the many companies and employees doing this important work. So reduce, reuse, recycle and buy recycled-content products. Your efforts benefit our natural world and our economy.



QUICK LINKS

- Sustainable Events Guide
- Green Ribbon Exhibits
- Litter Prevention
- Glass Recycling
- Recycling and Litter Prevention
- Where to Recycle
- Our Partners
- Scrap Tires
- Electronic Waste Management



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Additional Resources & Funding Opportunities

The Ohio Air Quality Development Authority (OAQDA)

- Projects contribute to better air quality
- Offers grants equal to 30% of equipment costs and limited to \$30,000
- Incentivized through conduit bonds issued by OAQDA
- <https://ohioairquality.ohio.gov/>



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Additional Resources & Funding Opportunities

♻️ The Ohio Water Development Authority (OWDA)

- 🌱 Solid Waste Loan Program
- 🌱 Financial assistance for the acquisition and construction of solid waste facilities
 - MRFs, Compost facilities, Transfer stations, Landfills, Incinerators
 - Local government agencies & solid waste districts

🌱 <https://www.owda.org/summary-list>



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Additional Resources & Funding Opportunities

♻️ United States Department of Agriculture Rural Development

- 🌱 Solid Waste Management Grants
 - funding for technical assistance or training to improve the planning and management of solid waste sites
 - Most state and local governmental entities, non-profits, federally recognized tribes, academic institutions, and rural areas with a population of 10,000 or less

🌱 <https://www.rd.usda.gov/programs-services/solid-waste-management-grants>



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Encouraging Environmental Excellence in Education (E4)

- ♻️ Recognizes any K-12 public or private school for their achievement in environmental stewardship & efforts to educate & involve students in environmental topics

- ♻️ Focuses on "Reduce, Reuse, & Recycle"

<https://epa.ohio.gov/ocapp/ohioe3#112305285-education-e4>



"We want to recognize schools for incorporating environmental principles into their curriculum or as part of extra activities."

Laurie A. Stevenson,
Director, Ohio EPA



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Recycling and Litter Prevention Team

Marie Barnett, Grants Administrator
marie.barnett@epa.ohio.gov
(614) 705-1019

Dave Foulkes, Environmental Specialist
david.foulkes@epa.ohio.gov
(614) 644-3118

Kelsey Heyob, Environmental Specialist
kelsey.heyob@epa.ohio.gov
(614) 705-1013

Travis Limbert, Grants Coordinator
travis.limbert@epa.ohio.gov
(614) 644-2827



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Ohio Solid Waste Mgt Districts: Ohio EPA Planner Assignments

Matthew Hittle

Phone: 614-728-5369
E-mail: Matthew.Hittle@epa.ohio.gov

Adams-Clermont, Athens-Hocking,
Belmont-Jefferson, Brown, Butler,
Clark, Clinton, Darke, Gallia-Jackson-
Meigs-Vinton, Greene, Guernsey-
Monroe-Morgan-Muskingum-Noble-
Washington, Hamilton, Lawrence-Scioto,
Miami, Montgomery, Pike, Preble,
Warren



Jeff Montavon

Phone: 614-728-5357
E-mail: Jeff.Montavon@epa.ohio.gov

Allen-Champaign-Hardin-Madison-Shelby-
Union, Coshocton-Fairfield-Licking-Perry,
Delaware-Knox-Marion-Morrow, Logan,
Fayette-Highland-Pickaway-Ross, Franklin,
Richland



Ernie Stall

Phone: 614-728-5356
E-mail: Ernest.Stall@epa.ohio.gov

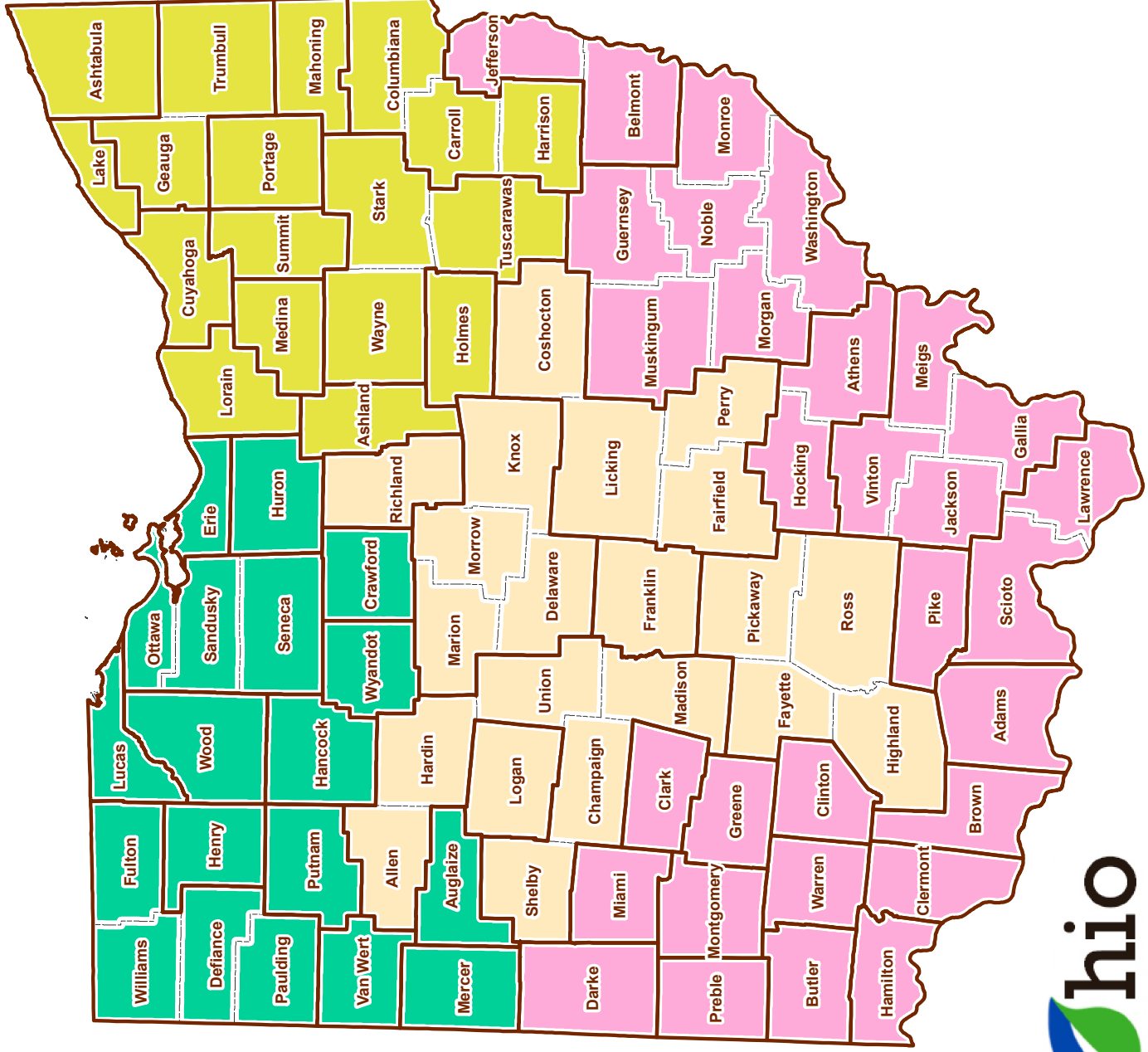
Ashland, Ashtabula, Cuyahoga, Holmes,
Carroll-Columbiana-Harrison,
Geauga-Trumbull, Lake, Lorain,
Mahoning, Medina, Portage, Summit
Stark-Tuscarawas-Wayne



Kevin Zacharyasz

Phone: 614-728-5317
E-mail: Kevin.Zacharyasz@epa.ohio.gov

Auglaize, Crawford, Erie, Hancock, Henry,
Defiance-Fulton-Paulding-Williams, Huron,
Lucas, Mercer, Ottawa-Sandusky-Seneca,
Putnam, Van Wert, Wood, Wyandot



Ohio Materials Management Advisory Council (MMAC)

2020 Meeting Dates

Wednesday, February 19

Wednesday, June 17

Wednesday, August 19

Wednesday, October 21

Wednesday, December 16

All meetings begin at **10:00am** and will be held at Ohio EPA's Central Office located at¹:

*50 W. Town Street
Suite 700
Columbus, Ohio 43215*

Please click [here](#) to get directions to Ohio EPA's office in the Lazarus Government Center

Please click [here](#) to get directions to the Columbus Commons Parking Garage

Please RSVP to ernest.stall@epa.ohio.gov or 614-728-5356.

Meeting materials will be posted at www.epa.ohio.gov/dmwm/home/mmac.aspx prior to each meeting. Any questions may be directed to Ernie Stall.

¹ unless another location is designated by MMAC

Ohio EPA/SWMD Workgroup Meeting 2020 Schedule

All meetings begin at 10:00 a.m.

Thursday February 6

State Library of Ohio
Boardroom
274 E First Ave., Suite 100
Columbus, OH 43201
[Directions](#)

Thursday May 7

Ohio Department of Natural Resources
Assembly Center East in Building E on the first floor.
2045 Morse Rd
Columbus, Ohio 43229
[Directions](#)

Thursday August 6

State Library of Ohio
Boardroom
274 E First Ave., Suite 100
Columbus, OH 43201
[Directions](#)

Thursday November 5

State Library of Ohio
Boardroom
274 E First Ave., Suite 100
Columbus, OH 43201
[Directions](#)

For more information, contact Ernie Stall at 614-728-5356 or ernest.stall@epa.ohio.gov

Analytics Ohio EPA - SWMD Coordinator/Director Report

Ohio EPA - SWMD Coordinator/Director Report

Program: Ohio EPA Annual District Reports
Report Generated On: Oct 28, 2019 at 12:34 PM CDT
Displaying data collected for: 2018

MEMBER	SWMD COORDINATOR - NAME	TITLE	GENERAL PHONE:	ADDRESS:	CITY:	STATE:	ZIP:	COORDINATOR EMAIL	WEB ADDRESS:
Adams-Clermont Joint SWMD	Hannah Lubbers	Director	513-732-7894	4400 Haskell Lane	Batavia	OH	45103	hlubbers@clermontcountyohio.gov	www.oeq.net
Allen-Champaign-Hardin-Madison-Shelby-Union Joint SWMD (North Central SWMD)	Jack DeWitt	Executive Director	419-228-8278	815 Shawnee Road	Lima	OH	45805	jack@ncowaste.org	www.ncowaste.org
Ashland County SWMD	Cindy Brady	Coordinator	419-289-7382	1270 Middle Rowsburg Road	Ashland	OH	44805	cbrady@ashlandcounty.org	www.ashlandcounty.org
Ashtabula County SWMD	Janice Switzer	Director	440-576-1530	25 West Jefferson St.	Jefferson	OH	44047	jgswitzer@ashtabulacounty.us	www.ashtabulacounty.com/recycle
Athens-Hocking Joint SWMD	Roger Bail	Operations Coordinator	740-753-6885	P.O. Box 693, Athens OH 45701	Athens	OH	45701	ahswd@nelsonvilletv.com	www.ahswd.org
Auglaize County SWMD	Scott Cisco	District Coordinator	419-394-1270	15502 St. Marys River Road	St. Marys	OH	45885	scisco@auglaizecounty.org	http://www2.auglaizecounty.org/resources/recycling-solid-waste
Belmont-Jefferson Regional Solid Waste Authority	Anita Petrella	Executive Director	740-266-6899	125 Technology Way	Steubenville	OH	43953	apetrella@jbgreenteam.org	www.jbgreenteam.org

Brown County Solid Waste Authority	Dan Wickerham	Coordinator	937-378-3431	800 Mt. Orab Pike	Georgetown	OH	45124-1184	dwickerham@abcap.net	www.browncountysolidwaste.org
Butler County SWMD	Anne Fiehrer Flaig	Director	513-887-3653	130 High St.	Hamilton	OH	45011	anne.fiehrerflaig@bcchio.us	recycle.bchio.us
Carroll-Columbiana-Harrison Joint SWMD	Barbara Walton	Director	330-627-7311	618 Canton Road NW, Suite B	Carrollton	OH	44615	director@ccchenvironmental.org	www.cchenvironmental.org
Clark County SWMD	Charles Bauer	Director	937-521-2020	1602 West Main St.	Springfield	OH	45504	cbauer@clarkcountyohio.gov	www.32trash.org
Clinton County SWMD	Jeffrey D. Walls	Solid Waste Coordinator	937-382-6177	180 E. Sugartree St.	Wilmington	OH	45177	Walls.Jeff@clintoncountyohio.us	www.co.clinton.oh.us/recycling
Coshocton-Fairfield-Licking-Perry Joint SWMD	Carol Philipps	Executive Director	740-349-6308	675 Price Rd.	Newark	OH	43055	cflpswd@windstream.net	www.cflpswd.org
Crawford County SWMD	Brian F. Rockwell	Executive Director	419-562-4169	5128 Lincoln Hwy E.	Bucyrus	OH	44820	crawfordswmd@midohio.twcbc.com	www.crawfordcountysolidwaste.com
Cuyahoga County SWMD	Diane T. Bickett	Executive Director	216-443-3749	4750 East 131st Street	Garfield Heights	OH	44105	dbickett@cuyahogacounty.us	www.CuyahogaRecycles.org
Darke County SWMD	Krista Fourman	Director	937-547-0827	684 Wagner Avenue, Suite C	Greenville	OH	45331-2648	kfourman@co.darke.oh.us	http://www.co.darke.oh.us/solidwaste/
Defiance-Fulton-Paulding-Williams Joint SWMD	Warren Schlatter	District Coordinator	419-782-5442	500 Court Street, Suite E	Defiance	OH	43512	dce@defiance-county.com	www.4cswd.com
Delaware-Knox-Marion-Morrow Joint SWMD	Jenna Hicks	Director	740-393-4600	117 East High Street, Suite 257	Mount Vernon	OH	43050	jhicks@dkmm.org	www.dkmm.org
Erie County SWMD	Tiffini McNeely	SWMD Coordinator	419-433-7303	554 River Rd	Huron	OH	44839	Tmcneely@eriecounty.oh.gov	www.ErieCountyRecycles.org

Fayette-Highland-Pickaway-Ross Joint SWMD	Erica Tucker	Director	740-420-5452	1110 Island Rd.	Circleville	OH	43113	etucker@pickaway.org	rphsolidwastedistrict.com
Franklin County SWMD (Solid Waste Authority of Central Ohio)	Ty Marsh	Executive Director	614-871-5100	4239 London Groveport Road	Grove City	OH	43123	ty.marsh@swaco.org	www.swaco.org
Gallia-Jackson-Meigs-Vinton Joint SWMD	Cindy Saltsman	Director/Treasurer	740-384-2164	1056 S. New Hampshire Avenue	Wellston	OH	45692	csaltsman.gjmvrecycles@gmail.com	www.gjmvrecycle.com
Geauga-Trumbull Joint SWMD	Jenn Jones	SWMD Director	330-675-2673	5138 Enterprise Blvd.	Warren	OH	44481	jenn@startrecycling.com	www.gottagogreen.org
Greene County SWMD	Dana Storts	Manager, Greene County Environmental Services	937-562-5925	2145 Greene Way Blvd.	Xenia	OH	45385	dstorts@co.greene.oh.us	www.co.greene.oh.us
Guernsey-Monroe-Morgan-Muskingum-Noble-Washington Joint SWMD (Southeast Ohio SWMD)	Robert Reiter	District Coordinator	740-732-5493	46049 Marietta Road, Suite 6	Caldwell	OH	43724	robert.reiter@wasteabate.org	www.wasteabate.org
Hamilton County SWMD	Michelle Balz	Solid Waste Manager	513-946-7766	250 William Howard Taft, 1st Floor	Cincinnati	OH	45219	michelle.balz@hamilton-co.org	www.hamiltoncountycycles.org
Hancock County SWMD	Mollie Welly	Coordinator	419-299-3638	3761 County Road 140	Findlay	OH	45840	mnwelly@co.hancock.oh.us	www.hancockenvironment.com
Henry County SWMD	Michael Imbrock	Coordinator	419-256-7343	PO Box 96	Malinta	OH	43535	solidwaste@henrycountyohio.com	www.henrycountyohio.com/landfill.htm

Holmes County SWMD	Tim Morris	Director	(330) 674-4860	2 Court Street	Millersburg	OH	44654	tmorris@co.holmes.oh.us	http://www.co.holmes.oh.us/solid-waste-district-overview
Huron County SWMD	Peter Welch	Director of County Operations	419-668-3092	180 Milan Avenue	Norwalk	OH	44857	petewelch@huroncountyswmd.com	www.huroncountyswmd.com
Lake County SWMD	Timothy Gourley	Coordinator	440-350-2908	105 Main Street	Painesville	OH	44077	tim.gourley@lakecountyohio.gov	http://www.lakecountyohio.gov/utilities/Divisions/SolidWasteManagementDistrict.aspx
Lawrence-Scioto Joint SWMD	Dan Palmer	Director	740-532-1231	101 North 3rd Street	Ironton	OH	45638	dpalmer@sciotocounty.net	www.lsswmd.org
Logan County SWMD	Angel Payne	Coordinator	937-599-1253	1100 South Detroit Street	Bellefontaine	OH	43311	angel@logancountyrecycles.com	www.logancountyrecycles.com
Lorain County SWMD	N/A - Position currently vacant	Solid Waste Director	440-329-5760	226 Middle Ave.	Elyria	OH	44035	jcordes@loraincounty.us	https://www.loraincounty.us/solidwaste
Lucas County SWMD	Julie Riley	Director	419-213-2230	1011 Matzinger Road	Toledo	OH	43612	jriley@co.lucas.oh.us	www.lucascountyrecycles.org
Mahoning County SWMD	Lou Vega	Director	330-740-2060	345 Oak Hill Ave.	Youngstown	OH	44502	lvega@mahoningcountyoh.gov	www.greenteam.cc
Medina County SWMD	Elizabeth Biggins-Ramer	District Coordinator	330-769-0289	P.O. Box 542	Medina	OH	44258	bbiggins-ramer@medinaco.org	http://recyclemedinacounty.com/
Mercer County SWMD	Kent Hinton	District Coordinator	419-586-3695	220 West Livingston Street	Celina	OH	45822	solidwaste@mercercountyohio.org	http://mcswmd.webs.com
Miami County SWMD	Scott Pence	Interim Solid Waste Management District Coordinator	937-440-5653	2200 N. Co. Rd. 25A	Troy	OH	45373	SPence@MiamiCountySED.com	https://www.miamicountyrecycles.org/
Montgomery County SWMD	Bob Downing	Assistant Director Environmental Services	937-225-4999	2550 Sandridge Drive	Moraine	OH	45439	downingb@mcchio.org	www.mcswd.org

Ottawa-Sandusky-Seneca Joint SWMD	Kathleen Rocco	Director	419-334-7222	1875 East State Street	Fremont	OH	43420	krocco@recycleoss.org	www.recycleoss.org
Pike County SWMD	Gary Arnett	Director	740-947-4104	116 S Market Street	Waverly	OH	45690	gary@pikecountydevelopment.com	www.pikecountydevelopment.com
Portage County SWMD	Bill Steiner	Director	330-678-8808	3588 Mogadore Rd	Kent	OH	44240	bsteiner@portageco.com	portagerecycles.com
Preble County SWMD	R. Kyle Cross	Director	937-456-6880	4239 US Route 127 South	Eaton	OH	45320	kcross@prebeng.org	http://www.preblecountyrecycles.org
Putnam County SWMD	Alaina Siefker	Interim Coordinator	419-523-3656	245 E Main Street	Ottawa	OH	45875	alaina.siefker@putnamcountyohio.gov	www.putnamcountyohio.gov
Richland County Regional Solid Waste Management Authority	Eddie Hale	Executive Director	419-774-5861	1125 National Parkway	Mansfield	OH	44906	kbender@richlandrecycles.com	www.richlandrecycles.com
Stark-Tuscarawas-Wayne Joint SWMD	David Held	Executive Director	800-678-9839	9918 Wilkshire Blvd. N.E.	Bolivar	OH	44612	david@timetorecycle.org	www.timetorecycle.org
Summit-Akron Solid Waste Management Authority - ReWorks	Marcie E. Kress	Executive Director	330-374-0383	12 East Exchange St.,	Akron	OH	44308	mkress@summitreworks.com	summitreworks.com
Van Wert County SWMD	Jeff Harmon	Director	419-238-7767	1135 North Washington Street	Van Wert	OH	45891-9491	recyclewv@bright.net	www.recyclewv.org
Warren County SWMD	Susanne Mason	Director	513-695-1209	406 Justice Drive	Lebanon	OH	45036	masosu@co.warren.oh.us	www.co.warren.oh.us/solidwaste/

Wood County SWMD	Carri Stanley	Assistant County Administrator	419-354- 9100	Wood County Solid Waste Management District, One Courthouse Square, 5th Floor	Bowling Green	OH	43402	cstanley@co.wood.oh.us	www.recyclewoodcounty.org
Wyandot County SWMD	Kyle McColly	District Director	419-396- 3541	11385 County Highway 4	Carey	OH	43316	kmccolly.wyswd@gmail.com	www.wyandotrecycles.com

Contact Information

Ohio Solid Waste Management District Plan Update Schedule

Last Updated 10/28/2019 1:15:06 PM

<i>SWMD</i>	<i>Begin Prep</i>	<i>Draft Due</i>	<i>Draft Reviewed</i>	<i>Final Due to OEPA</i>	<i>Final Approval Deadline</i>
<i>Adams-Clermont Joint SWMD</i>	5/7/2023	8/7/2024		11/9/2025	2/7/2026
<i>Allen-Champaign-Hardin-Madison-Shelby-Union Joint SWMD (North Central SWMD)</i>	3/21/2021	6/21/2022		9/22/2023	12/21/2023
<i>Ashland County SWMD</i>	5/20/2022	8/20/2023		11/22/2024	2/20/2025
<i>Ashtabula County SWMD</i>	1/12/2022	4/12/2023		7/14/2024	10/12/2024
<i>Athens-Hocking Joint SWMD</i>	8/21/2022	11/21/2023		2/20/2025	5/21/2025
<i>Auglaize County SWMD</i>	12/30/2019	3/30/2021		7/2/2022	9/30/2022
<i>Belmont-Jefferson Regional Solid Waste Authority</i>	1/20/2019	4/20/2020		7/22/2021	10/20/2021
<i>Brown County Solid Waste Authority</i>	12/3/2018	3/3/2020		6/5/2021	9/3/2021
<i>Butler County SWMD</i>	5/2/2022	8/2/2023		11/4/2024	2/2/2025
<i>Carroll-Columbiana-Harrison Joint SWMD</i>	12/21/2021	3/21/2023		6/23/2024	9/21/2024
<i>Clark County SWMD</i>	12/2/2022	3/2/2024		6/4/2025	9/2/2025
<i>Clinton County SWMD</i>	11/1/2019	2/1/2021		5/3/2022	8/1/2022
<i>Coshocton-Fairfield-Licking-Perry Joint SWMD</i>	10/17/2022	1/17/2024		4/18/2025	7/17/2025
<i>Crawford County SWMD</i>	5/16/2020	8/16/2021		11/18/2022	2/16/2023
<i>Cuyahoga County SWMD</i>	2/1/2017	5/1/2018	6/15/2018	8/3/2019	11/1/2019
<i>Darke County SWMD</i>	4/29/2019	7/29/2020		10/31/2021	1/29/2022
<i>Defiance-Fulton-Paulding-Williams Joint SWMD</i>	4/28/2019	7/28/2020		10/30/2021	1/28/2022
<i>Delaware-Knox-Marion-Morrow Joint SWMD</i>	4/30/2023	7/30/2024		11/1/2025	1/30/2026
<i>Erie County SWMD</i>	12/20/2020	3/20/2022		6/22/2023	9/20/2023
<i>Fayette-Highland-Pickaway-Ross Joint SWMD</i>	4/12/2022	7/12/2023		10/14/2024	1/12/2025
<i>Gallia-Jackson-Meigs-Vinton Joint SWMD</i>	3/24/2019	6/24/2020		9/25/2021	12/24/2021
<i>Geauga-Trumbull Joint SWMD</i>	5/2/2023	8/2/2024		11/4/2025	2/2/2026
<i>Greene County SWMD</i>	10/14/2018	1/14/2020		4/15/2021	7/14/2021
<i>Guernsey-Monroe-Morgan-Muskingum-Noble-Washington Joint SWMD (Southeast Ohio SWMD)</i>	1/14/2021	4/14/2022		7/16/2023	10/14/2023
<i>Hamilton County SWMD</i>	5/7/2021	8/7/2022		11/9/2023	2/7/2024
<i>Hancock County SWMD</i>	1/7/2018	4/7/2019		7/9/2020	10/7/2020
<i>Henry County SWMD</i>	1/25/2018	4/25/2019	5/31/2019	7/27/2020	10/25/2020
<i>Holmes County SWMD</i>	7/2/2019	10/2/2020		1/2/2022	4/2/2022
<i>Huron County SWMD</i>	7/20/2021	10/20/2022		1/21/2024	4/20/2024
<i>Lake County SWMD</i>	9/28/2022	12/28/2023		3/30/2025	6/28/2025
<i>Lawrence-Scioto Joint SWMD</i>	9/5/2020	12/5/2021		3/7/2023	6/5/2023
<i>Logan County SWMD</i>	5/16/2020	8/16/2021		11/18/2022	2/16/2023
<i>Lorain County SWMD</i>	7/2/2017	10/2/2018	11/2/2018	1/3/2020	4/2/2020
<i>Lucas County SWMD</i>	2/1/2022	5/1/2023		8/3/2024	11/1/2024
<i>Mahoning County SWMD</i>	6/6/2017	9/6/2018	10/19/2018	12/7/2019	3/6/2020
<i>Medina County SWMD</i>	6/23/2019	9/23/2020		12/23/2021	3/23/2022
<i>Mercer County SWMD</i>	1/4/2017	4/4/2018	5/18/2018	7/6/2019	10/4/2019
<i>Miami County SWMD</i>	9/29/2019	12/29/2020		3/31/2022	6/29/2022
<i>Montgomery County SWMD</i>	1/19/2023	4/19/2024		7/21/2025	10/19/2025
<i>Ottawa-Sandusky-Seneca Joint SWMD</i>	1/6/2021	4/6/2022		7/8/2023	10/6/2023
<i>Pike County SWMD</i>	11/23/2019	2/23/2021		5/25/2022	8/23/2022
<i>Portage County SWMD</i>	11/20/2016	2/20/2018	5/31/2018	5/22/2019	8/20/2019
<i>Preble County SWMD</i>	7/11/2022	10/11/2023		1/11/2025	4/11/2025

<i>SWMD</i>	<i>Begin Prep</i>	<i>Draft Due</i>	<i>Draft Reviewed</i>	<i>Final Due to OEPA</i>	<i>Final Approval Deadline</i>
<i>Putnam County SWMD</i>	2/29/2020	5/31/2021		9/1/2022	11/30/2022
<i>Richland County Regional Solid Waste Management Authority</i>	12/14/2017	3/14/2019	5/20/2019	6/16/2020	9/14/2020
<i>Solid Waste Authority of Central Ohio</i>	11/28/2021	2/28/2023		5/30/2024	8/28/2024
<i>Stark-Tuscarawas-Wayne Joint SWMD</i>	10/31/2022	1/31/2024		5/2/2025	7/31/2025
<i>Summit-Akron Solid Waste Management Authority</i>	2/28/2018	5/29/2019		8/31/2020	11/29/2020
<i>Van Wert County SWMD</i>	5/29/2022	8/29/2023		11/30/2024	2/28/2025
<i>Warren County SWMD</i>	9/19/2021	12/19/2022		3/21/2024	6/19/2024
<i>Wood County SWMD</i>	2/17/2021	5/17/2022		8/19/2023	11/17/2023
<i>Wyandot County SWMD</i>	12/24/2018	3/24/2020		6/26/2021	9/24/2021

Executive Summary

In 1988, Ohio's General Assembly passed House Bill 592, which dramatically changed Ohio's existing solid waste program. This legislation established a comprehensive planning and regulatory process to ensure that adequate and environmentally sound solid waste management capacity is available to manage the waste Ohio generates. To help preserve that capacity and to recognize the inherent value in waste materials, House Bill 592 also initiated requirements to reduce Ohio's generation of waste and increase the State's efforts to recycle.

To facilitate Ohio's reduction and recycling efforts, Ohio law requires the Ohio Environmental Protection Agency (Ohio EPA), working with the Materials Management Advisory Council (MMAC), to prepare and adopt a state solid waste management plan (state plan). Among other purposes, the state plan establishes Ohio's recycling and reduction goals that guide the programs provided by solid waste management districts (SWMDs). The state plan also establishes recycling and reduction strategies to be implemented at the state government level. These strategies are focused on efforts that Ohio's state agencies can take to enhance recycling and waste reduction efforts within the State.

Ohio has made great strides toward reducing its reliance on landfills and directing resources to other uses. This is reflected in Ohio's municipal solid waste (MSW) reduction and recycling rate which increased from 25.2 percent in 2009 to just over 29 percent in 2017. Further, Ohio has a strong network of curbside and drop-off recycling opportunities that give residents the ability to recycle.

Ohio EPA recently implemented two tools to assist businesses with their waste recovery and reuse efforts. The first is the Ohio Materials Marketplace (OMM), a free, online platform for participants to trade usable wastes. To date, OMM users have diverted a cumulative 3.7 million pounds of material from Ohio's landfills and realized more than \$208,000 in savings.

The second tool is a beneficial program which provides mechanisms for using wastes that would otherwise be disposed for value-added applications. These tools complement Ohio EPA's existing technical assistance programs, such as the Agency's compliance and pollution prevention assistance program. That program helps businesses meet their regulatory requirements and minimize waste generation.

Ohio EPA and MMAC monitor the State's progress toward implementing the effective state plan and conditions that affect the recycling industry. If MMAC and Ohio EPA both conclude that circumstances have changed enough to warrant amending the state plan, then they work together to update it.

While reviewing the 2009 State Solid Waste Management Plan (2009 State Plan), the currently effective version, MMAC and Ohio EPA identified several developments that have affected the recycling industry and the sustainability of recycling services (see Chapter 1). MMAC and Ohio EPA considered these developments profound enough to warrant updating the 2009 State Plan.

To address those developments and provide some relief to SWMDs and local communities for rapidly increasing costs of providing services, MMAC and Ohio EPA agreed to refine the existing reduction and recycling goals rather than defining new goals and do that through a partial rather than full-scale update. These refinements give SWMDs additional flexibility to best serve their constituents and achieve the goals of the state plan. Doing a partial update will make this flexibility available to the SWMDs as quickly as possible.

Ohio is committed to waste reduction and recycling and constantly looks for ways to improve those efforts. Ohio faces new challenges due to changes in world markets for recovered materials and the quality of recyclables being collected. These challenges complicate the State's ability to continue its progress. However, the State is committed to developing strategies designed to overcome these challenges. Changes introduced with this state plan are intended to help Ohio overcome these challenges, improve recovery efforts, and support growth of Ohio's economy.

Changes Introduced with This Revision

This update to the state plan makes several changes to the goals that guide programming provided by the SWMDs. These changes include:

- Renumbering goals 5 through 9 from the 2009 State Plan to 6 through 10 to accommodate a new goal.
- Goal 1 - Infrastructure Goal
 - Reducing the percentage of the population a solid waste management district must provide with the opportunity to recycle from 90 percent to 80 percent.

Reducing the threshold for meeting Goal 1 allows SWMDs to reallocate resources to help bolster successful efforts. Over the past decade, SWMDs communicated that the 90 percent threshold sometimes results in siting drop-off locations in marginal areas. The hope with the revised goal is that recycling programs can be reexamined and strengthened where necessary. The intended result is to balance residents' access to convenient recycling options with the financial sustainability of those options. This is particularly relevant to drop-off recycling locations. Recyclables collected through drop-off recycling locations tend to be contaminated with non-recyclable waste. This increases the costs of processing recyclables and providing those drop-off recycling locations. The change to Goal 1 will allow SWMDs to eliminate some sites that might have financially hindered a district and improve other drop-off locations with a more focused approach.

- Allowing a SWMD to apply for a waiver from Ohio EPA to provide less than 80 percent of the residential population with opportunities to recycle.

This provision primarily addresses drop-offs. To receive a waiver, a SWMD would need to demonstrate that a drop-off performs better than a typical drop-off or because of its location, services a larger population than would normally be expected. This change will allow SWMDs to capitalize on locating recycling opportunities where they will provide the greatest service.

- Goal 2 - Waste Reduction and Recycling Rates
 - Replacing the industrial sector objective of reducing and recycling 66 percent of the industrial solid waste generated with Goal 5.

One of the most chronic limitations is the challenge of simply obtaining data. Each SWMD is required to report to Ohio EPA annually regarding, among other things, the quantities of materials recycled during the previous year within the SWMD. However, the entities that have the data are not required under Ohio's regulations to report to the SWMDs. Consequently, the SWMD has little to no control over the number of entities that respond to a survey or the quality of the data it receives. Often, SWMDs achieve relatively low response rates to surveys and must report incomplete data.

To alleviate the need for SWMDs to obtain data from industrial generators, this state plan replaces the industrial recycling rate with a new goal (see Goal 5 below) focused on providing programs and services to industrial generators. This will allow SWMDs to reallocate time and money previously devoted to obtaining data to helping industrial generators increase their recycling efforts.

- Goal 5 - Industrial Programs and Services
 - Creating a new goal for SWMDs to incorporate a strategic initiative for the industrial sector into its solid waste management plan. The SWMD must make at least three programs, activities, or services available to industrial generators. The SWMD will select programs from a list provided in the solid waste management plan format issued by Ohio EPA.

As stated under Goal 2, obtaining data can be extremely difficult and time consuming. This new goal

will focus on providing industrial generators education, outreach, and behavior changing programming with the goal of increasing their recycling efforts.

Chapter 1 — Introduction

This chapter provides the context in which House Bill 592 was developed and adopted as well as the current state of solid waste management in Ohio.

In the mid- to late-1980s, Ohio faced a wide array of significant solid waste management issues. These issues were due in part to the lack of a comprehensive regulatory structure for overseeing solid waste disposal facilities and partly due to the lack of planning for how to manage Ohio's solid waste. The issues included decreasing landfill capacity, increasing amounts of imported waste, environmental degradation from landfill facilities, lack of solid waste management planning, and desire for local control over the flow of solid waste.

Ohio Revised Code (ORC) Section 3734.50, as established by House Bill 592, requires the state plan to:

- Reduce reliance on the use of landfills for management of solid waste;
- Establish objectives for solid waste reduction, recycling, reuse, and minimization and a schedule for implementing those objectives;
- Establish restrictions on the types of solid wastes disposed of by landfilling for which alternative management methods are available (such as yard waste);
- Establish general criteria for the location of solid waste facilities;
- Examine alternative methods for disposal of fly ash and bottom ash resulting from the burning of mixed municipal solid waste;
- Establish a statewide strategy for managing scrap tires;
- Establish a strategy for legislative and administrative actions that can be taken to promote markets for products containing recycling materials; and,
- Establish a program for the proper separation of household hazardous waste (HHW).

The state plan contains chapters devoted to each of the bulleted topics above. House Bill 592 also required all 88 counties in Ohio to form SWMDs either individually or in combination with one or more other counties. As of 2009, Ohio had 52 SWMDs. Each SWMD is required to prepare a solid waste management plan that demonstrates how the SWMD will achieve the goals of the state plan. Each SWMD is further required to obtain local approval of the plan through a ratification process, submit the plan to Ohio EPA for review and approval, and annually review implementation of the plan. SWMDs are required to revise their solid waste management plans on a regular schedule established in the statute.

Chapter 1 also describes the planning process at the local level, changes in waste management practices, solid waste generated and disposed in Ohio, available capacity at and types of landfills for disposing of solid waste, and imports and exports of solid waste.

Chapter 2 — Implementing the 2009 State Solid Waste Management Plan (2009 State Plan)

Since the 2009 State Plan was adopted, all 52 of Ohio's SWMDs either obtained approval for a revised solid waste management plan or were issued an updated solid waste management plan prepared by Ohio EPA. Of those, 42 chose to meet Goal 1 (recycling infrastructure). These 42 SWMDs represent 77 of Ohio's counties. The remaining 10, representing 11 counties, chose to meet Goal 2 (waste reduction and recycling rates).

Even though they have the choice of meeting Goal 1 or Goal 2, a SWMD needs recycling opportunities to achieve its chosen goal. In 2017, SWMDs relied on the following recycling opportunities to meet both goals.

- 249 subscription curbside programs;
- 449 non-subscription curbside programs; and

- 1,212 drop-off locations.

In 2017, Ohio achieved a residential/commercial (R/C) waste reduction and recycling rate of 29.1 percent, the highest rate ever achieved. Further, the state has exceeded the R/C goal of 25 percent every year since first surpassing it in 2009. Ohio continues to make great strides, but there is always room for improvement.

In 2017, individual SWMDs achieved waste reduction and recycling rates that were quite varied as is demonstrated in the following bullet points:

- For the R/C sector, the waste reduction and recycling rates ranged from a low of a little more than three percent to a high of more than 52 percent.
- 27 SWMDs achieved R/C sector waste reduction and recycling rates of 25 percent or greater.
- 35 SWMDs achieved industrial sector waste reduction and recycling rates of 66 percent or better.

Chapter 3 — Goals for Solid Waste Reduction, Recycling, Reuse, and Minimization

This chapter establishes 10 goals designed to further waste reduction and recycling in Ohio. Goals 1 and 2 have always been considered the primary goals for SWMDs. Although encouraged to attempt to achieve both goals, SWMDs are required to demonstrate compliance with either Goal 1 or Goal 2, not both. Apart from Goal 9 which is a voluntary goal, SWMDs are required to meet the remaining goals. As a result, SWMDs are required to demonstrate compliance with a minimum of eight of the 10 goals. The 10 goals are as follows:

Goal 1 — Recycling Infrastructure

The SWMD shall provide its residents and commercial businesses with access to opportunities to recycle solid waste. At a minimum, the SWMD must provide access to recycling opportunities to 80 percent of its residential population in each county and ensure that commercial generators have access to adequate recycling opportunities.

Goal 2 — Waste reduction and recycling rates

The SWMD shall reduce and recycle at least 25 percent of the solid waste generated by the residential/commercial sector.

Goal 3 — Outreach and Education – Minimum Required Programs

The SWMD shall provide the following required elements:

- A web site;
- A comprehensive resource guide;
- An inventory of available infrastructure; and,
- A speaker or presenter.

Goal 4 — Outreach and Education

The SWMD shall provide education, outreach, marketing, and technical assistance regarding reduction, recycling, composting, reuse, and other alternative waste management methods to identified target audiences using best practices.

Goal 5 — Industrial Programs and Services

The SWMD shall incorporate a strategic initiative for the industrial sector into its solid waste management plan.

Goal 6 — Restricted Solid Wastes, Household Hazardous Waste (HHW) and Electronics

The SWMD shall provide strategies for managing scrap tires, yard waste, lead-acid batteries, HHW, and obsolete/end-of-life electronic devices.

Goal 7 — Economic Incentives

The SWMD shall explore how to incorporate economic incentives into source reduction and recycling programs.

Goal 8 — Measure Greenhouse Gas Reduction

The SWMD will use U.S. EPA's Waste Reduction Model (WARM) (or an equivalent model) to evaluate the impact of recycling programs on reducing greenhouse gas emissions.

Goal 9 — Market Development

The SWMD has the option of providing programs to develop markets for recyclable materials and the use of recycled-content materials.

Goal 10 — Reporting

The SWMD shall report annually to Ohio EPA regarding implementation of the SWMD's solid waste management plan.

State Strategies

To facilitate achieving waste reduction and recycling in Ohio, this state plan establishes the following 10 strategies to be implemented by Ohio's government agencies:

Strategy 1

In collaboration with The Ohio Manufacturers Association, the Ohio Chamber of Commerce and other trade organizations, identify recycling-related programs and services industrial generators need/would like to be offered.

Strategy 2

Ohio EPA will collaborate with The Ohio Manufacturers Association and the Ohio Chamber of Commerce to encourage industrial reuse/recycling from a state level.

Strategy 3

Ohio EPA will evaluate its ability to establish an information clearinghouse for outreach/education resources on the Agency's website.

Strategy 4

Ohio EPA will assist local communities make information about what can/can't be recycled available. In carrying out this strategy, Ohio EPA will focus on using social media.

Strategy 5

Ohio EPA will investigate a procedure to identify new solid wastes, new contaminants, and new recyclable materials that need to be monitored and addressed.

Strategy 6

Ohio EPA will investigate ways of reducing contamination at drop-offs.

Strategy 7

Ohio EPA will include contamination reduction efforts as priorities in the Agency's Recycling and Litter Prevention Grants program.

Strategy 8

Ohio EPA, working with appropriate stakeholders, will investigate the best strategy for providing recycling services to residents in multi-family housing structures. Such a strategy could involve:

- working with property managers, condominium associations, and housing boards to establish and contract for on-site recycling services;
- siting drop-offs in areas with high concentrations of multi-family housing;
- developing a how-to manual for starting a recycling program for multi-family housing; and,
- targeted promotion to residents in multi-family housing about their recycling options.

Strategy 9

Ohio EPA will develop a hierarchy that represents a phased approach for communities to implement recycling programs, services, and education. The first tier of the hierarchy would consist of basics. Each subsequent tier would consist of more advanced activities. The premise is that as a community has experience and resources, it makes continuous improvement by expanding the scope and complexity of available programs.

Strategy 10

Ohio EPA will develop case studies to profile programs for achieving Goal 4. To be profiled, a program must have successfully resulted in changing recycling behavior.

Chapter 4 — Restrictions on the Types of Solid Waste Disposed of in Landfills and Burned in incinerators

Restricting wastes from disposal avoids potential environmental problems by managing high volume, potentially harmful, and difficult to manage wastes through more appropriate options. Restrictions on how certain waste materials can be managed are also a means of preserving landfill capacity. Furthermore, restrictions are a tool for recovering value from waste. Ohio's solid waste regulations mandate the following restrictions:

- **Yard Waste:** Ohio's current yard waste restriction bans source-separated yard waste from being disposed of in solid waste landfill facilities and burned in incinerator facilities.
- **Scrap tires:** Ohio's scrap tire restriction bans all whole and shredded scrap tires from being disposed of in landfill facilities (except for landfills or landfill units specifically designed to accept only scrap tires).
- **Lead-acid batteries:** Ohio law prohibits anyone from commingling a used lead-acid battery with solid waste or disposing of a used lead-acid battery at a solid waste facility.

Ohio EPA does not regulate most solid waste generators or transporters¹. The Agency regulates where waste is managed and disposed. That means Ohio EPA cannot prevent generators or transporters from putting restricted wastes in general trash. That precludes Ohio EPA's ability to enforce a material restriction. Thus, this revision of the state plan does not recommend new material restrictions. Instead Ohio and the SWMDs will focus on developing alternative strategies for waste streams that can be properly managed through a method other than disposal. Such a focus places a strong emphasis on educating residents regarding alternative management options for specific non-restricted waste streams (such as major appliances, electronic equipment, and used oil).

Chapter 5 — Revised General Criteria for the Location of Solid Waste Facilities

Prior to House Bill 592, Ohio's solid waste regulations provided limited requirements governing the appropriateness of a location for constructing and operating a solid waste facility. Today, Ohio has comprehensive siting criteria which are reviewed every five years in compliance with Ohio's rule review process. From 2009 to 2019, Ohio did not adopt any new siting criteria or revise the existing rules.

While preparing this version of the state plan, Ohio EPA was performing a five-year review of the landfill rules and had issued a draft version of the municipal solid waste landfill rules for interested party comment. If adopted, those rules would change the existing siting criteria from applying to the entire facility boundary to applying to sources of pollution (for example, areas of waste placement, areas of leachate storage) within the facility boundary.

Given the comprehensiveness and regular reviews of Ohio's siting criteria, the state solid waste management plan now plays a minor role in influencing the program. For that reason, this version of the state plan does not recommend any changes to the siting criteria.

¹ The scrap tire restriction is an exception because Ohio's law gives Ohio EPA the authority to regulate generators, transporters, and facility owners/operators.

Chapter 6 — Management of Ash Resulting from the Burning of Mixed Municipal Solid Waste

When House Bill 592 was passed, Ohio's solid waste management community anticipated that incinerating solid waste would be an important component of Ohio's overall waste management system. As a result, the General Assembly wanted to foster alternatives to disposal for the resulting ash.

In 2009, there were no operating incinerators burning mixed municipal solid waste. Therefore, managing municipal solid waste combustion ash is not a pressing issue for Ohio. Furthermore, Ohio EPA does not expect incineration to become a significant solid waste management option soon due to the expense of upgrading existing incinerator facilities to meet current air emission standards and the time required to issue a permit to install for a new facility. Consequently, this state plan does not recommend alternative methods for managing municipal solid waste incinerator ash.

Chapter 7 — A Statewide Strategy for Managing Scrap Tires

When House Bill 592 was passed, Ohio lacked a regulatory program to ensure that scrap tires were managed properly. Ohio now has a comprehensive scrap tire management regulatory program that is more than 25 years old. More importantly, Ohio's five-year review requirement provides regular opportunities to make needed changes to the program.

Given the maturity of and regular updates made to Ohio's scrap tire program, the state solid waste management plan now plays a minor role in influencing the program. For that reason, this chapter summarizes recent developments in and plans for the scrap tire program rather than recommend changes to the program.

Ohio EPA was reviewing the scrap tire rules at the time this state plan was prepared. The Agency was proposing the following changes to the rules:

- Re-organize the scrap tire rules into a new program chapter in OAC 3745-580. This re-organization would involve rescinding the existing scrap tire rules in OAC 3745-27 and promulgating new rules in OAC 3745-580. The current 20 scrap tire rules are lengthy and contain multiple sub-level paragraphs. By re-organizing them, the rules can be better organized and spread out more appropriately over an entire chapter of the Administrative Code.
- Require owners of scrap tire facilities that are excluded from licensing and registration/permitting requirements to secure scrap tires in a way that minimizes theft.
- Remove the requirements that mirror Ohio's Fire Code for excluded scrap tire facilities. Ohio Fire Code requirements will remain in the scrap tire rules for the licensed and registered/permitted scrap tire facilities.

One of the primary purposes of the scrap tire program is addressing illegal accumulations of scrap tires through enforcement and cleanup activities. Those efforts are ongoing. To facilitate compliance and reduce illegal dumping of scrap tires, Ohio EPA was developing a scrap tire toolkit. The toolkit is designed to be a resource that Ohio EPA inspectors, health departments, solid waste management districts, and local law enforcement can use to educate and evaluate scrap tire generators' compliance with Ohio's requirements. Ohio EPA planned to pilot and evaluate those tools for effectiveness.

In 2019, Ohio EPA was preparing to launch a survey designed to learn what prevents and motivates businesses that generate scrap tires to comply with Ohio's regulations. Ohio EPA intended to survey both owners of businesses that generate scrap tires and the Agency's partners that regulate scrap tire generators. These partners include solid waste management district staff, Ohio EPA and health department inspectors, and local law enforcement officers. Ultimately, Ohio EPA planned to use the responses to develop a statewide approach for providing education and outreach to scrap tire generators.

Chapter 8 — A Program for Managing Household Hazardous Waste

Household hazardous waste (HHW) is any material discarded from the home that may, because of its nature, pose a threat to human health or the environment when handled improperly. HHW can have many of the same properties as industrial hazardous waste. However, because of the small amount of HHW generated at a household and impracticability of regulating every household, HHW is specifically excluded from regulation as a hazardous waste by both the federal and Ohio's hazardous waste programs.

SWMDs are required, in their solid waste management plans, to provide a strategy to address HHW. The specific strategy chosen is left to the SWMD's discretion. Thus, as would be expected, there is a wide range of strategies being implemented by Ohio's SWMDs. Some SWMDs focus their attention on preparing and distributing literature regarding alternatives to hazardous materials and proper ways of managing HHW. Other SWMDs provide technical assistance to homeowners via telephone hotlines. Still other SWMDs host collection programs for HHW from residents. In 2017, more than half of the SWMDs provided collection programs for their residents.

Chapter 9 — Recycling Market Development

Having adequate demand for recyclable materials is widely acknowledged as a critical component for the success of recycling programs. Strong demand translates into strong markets and higher prices paid for recovered materials. Higher prices increase the economic incentive for collecting materials, stimulate investment by private waste companies in improved processing and collection systems, and may lead private companies to more aggressively expand their customer bases. Strong demand and markets also make creating and expanding residential recycling services more attractive as the net costs associated with these programs decrease due to the increased return on the collected materials. The same dynamics make recycling more attractive for commercial and industrial generators of waste. Ultimately, strong demand for recyclable materials results in the high value of those materials as well as improved economic return and lower costs associated with recycling activities. These factors make recycling a more attractive choice when compared to the alternative management option – disposing of the materials in landfills.

Establishing a market development strategy for Ohio is one of the functions of the state plan that is especially relevant to that state's recycling industry. This is particularly true given the current low quality of recovered materials. Therefore, this state plan provides an analysis of the barriers and opportunities for four materials: food waste, plastics, glass, and fiber. Ohio's main vehicle for influencing markets is the recycling and litter prevention grant program. Therefore, Ohio EPA will evaluate the priorities for grant funding and adjust those priorities as needed. In addition, there are multiple opportunities for Ohio EPA to work with other stakeholders to improve Ohio's demand for recovered materials. Some of the opportunities identified for the market development strategy include:

- Making equipment for food recovery eligible for grant funding;
- Assist potential owners/operators of class 2 composting facilities identify acceptable sites;
- Leveraging Ohio's grants with grants and loans available through other sources;
- Conducting a study of Ohio's material recovery facilities (MRF) to identify how best to target investments in equipment;
- Establishing a glass depot in northeastern Ohio to give local service providers a local drop-off point to process glass to remove major contaminants and to consolidate glass for transportation to southwestern Ohio;
- Establishing a plastic-only MRF; and
- Establishing a fiber-only collection program.

Implementing those opportunities would require cooperation from many stakeholders, including state and local governments, private waste companies, manufacturers that use recovered materials as feedstock, and solid waste management districts.

Solid Waste Management Planning Rules

[Ohio Administrative Code Chapter 3745 \(Solid Waste and Infectious Waste Regulations\)](#)

- [OAC Rule 3745-27-01](#) Definitions
- [OAC Rule 3745-27-90](#): Standards for Solid Waste Management Districts
- [OAC Rule 3745-502-01](#): Solid waste fee definitions
- [OAC Rule 3745-520-02](#): Requirements for collecting, remitting, reporting state disposal & environmental protection fees
- [OAC Rule 3745-502-04](#): Requirements for collecting, remitting, and reporting community fees
- [OAC Rule 3745-502-03](#): Requirements for collecting, remitting, and reporting SW management district disposal & generation fees

Solid Waste Management Planning Statutes

[Ohio Revised Code Chapter 343 \(Solid Waste Management Districts\)](#)

This chapter of the Ohio Revised Code is part of the law that governs counties (i.e. Title 3). Chapter 343 contains the statutory requirements that govern the county commissioners' authorities and required protocols when the county is functioning as a solid waste management district or a solid waste management authority.

- [343.011](#) Formation of regional solid waste management authority
- [343.012](#) Initial proceedings to withdraw for joint county district
- [343.01](#) Establishment and maintenance of county or joint SW management district
- [343.013](#) Continuation of recovery & recycling activities while public debt outstanding
- [343.014](#) Designating SW & recycling activities where no outstanding public debt
- [343.015](#) Resolution of intent to continue designations after 1-1-94
- [343.02](#) Contracts for SWaste collection, storage, transfer, disposal, recycling, processing, or resource recovery services
- [343.022](#) Contracts to establish and collect on behalf of the district generation or disposal fees
- [343.03](#) Prosecuting attorney to prosecute to termination or bring civil action
- [343.04](#) Preparation of general facilities plan
- [343.07](#) Issuing bonds
- [343.08](#) Fixing reasonable rates or charges
- [343.99](#) Penalty

[Ohio Revised Code Chapter 3734 \(Solid and Hazardous Wastes\):](#)

Chapter 3734 of the Ohio Revised Code is the law that governs solid and hazardous wastes. Sections 3734.49 through 3734.577, listed below, establish Ohio's solid waste planning program.

- [3734.01](#) Definitions
- [3734.49](#) Materials management advisory council

- [3734.50](#) State solid waste management plan
- [3734.501](#) Annual review of solid waste management in Ohio
- [3734.52](#) Establishing county or joint solid waste management districts
- [3734.521](#) Change in district composition
- [3734.53](#) Contents of a county or joint solid waste management district plan
- [3734.531](#) Effect of failure of district to add members to policy committee or board of trustees
- [3734.54](#) Preparing and submitting solid waste management plan
- [3734.55](#) Preliminary review of draft plan
- [3734.551](#) Reimbursement of director for expenses- Preparing & Ordering plan
- [3734.56](#) Submission of amended plan and certification
- [3734.57](#) Fees for waste disposal
- [3734.571](#) Disposal fees where district has no facilities
- [3734.572](#) Disposal fee to defray costs of initial plan of district without disposal facility
- [3734.573](#) Fees for generation of solid wastes within district
- [3734.574](#) Generation and disposal fees
- [3734.575](#) Report of fees and accounts
- [3734.576](#) Exemption of automotive shredder residue from generation fee
- [3734.577](#) Exemption from fees prohibited

Common Website Links for Solid Waste Management Districts

- **Format**

- General Page: <https://epa.ohio.gov/dmwm/Home/SW-Mgmt-Planning2/SWMPFormat>
- Instructions: https://www.epa.ohio.gov/Portals/34/document/general/Format%204_0.pdf
- Working Version (Under Section Title “Working Version”): <https://epa.ohio.gov/dmwm/Home/SW-Mgmt-Planning2/SWMPFormat#157674794-format-40>
- Workbook Instructions: <https://www.epa.ohio.gov/Portals/34/document/general/Workbook%20instructions.pdf>
- Workbook (Under Section Title “Workbook”): <https://epa.ohio.gov/dmwm/Home/SW-Mgmt-Planning2/SWMPFormat#157674794-format-40>

- **State Plan**

- General Page: <https://epa.ohio.gov/dmwm/Home/SW-Mgmt-Planning2#1847210520-state-solid-waste-management-plan-state-plan>
- 2009 State Plan: https://epa.ohio.gov/Portals/34/document/general/state_plan_2009.pdf
- 2009 State Plan Executive Summary: https://epa.ohio.gov/portals/34/document/general/state_plan_exe_summ_2009.pdf
- Fact Sheet: https://epa.ohio.gov/portals/34/document/guidance/gd_659.pdf

- **Data, Reports and Studies**

- General Page: <https://epa.ohio.gov/dmwm/Home/SW-Mgmt-Planning2#114315356-data-reports-and-studies>
- MRF and Commercial Recycling Data (2018): <https://epa.ohio.gov/portals/34/document/general/2018-MRF-AR-Statewide.pdf>
- Compost Facility Report Data (2018): <https://epa.ohio.gov/Portals/34/document/general/2018CompostRpt.pdf>
- Scrap Tire Data (2018): https://epa.ohio.gov/portals/34/document/general/Scrap%20Tire%20Data_2018.pdf
- Facility Data Report (2018 – Draft):
- Solid Waste Imports and Exports (2017): <https://epa.ohio.gov/portals/34/document/general/2017%20Imports%20and%20Exports%20Total.pdf>

- **SWMD Fee Information**

- General Page: <https://epa.ohio.gov/dmwm/Home/SW-Mgmt-Planning2#114315355-swmd-fee-information>
- Instruction Manual: https://epa.ohio.gov/portals/34/document/general/swmd_instruction_manual.pdf
- 2017 District Fee Summary Report: <https://epa.ohio.gov/portals/34/document/general/2017FSR.pdf>

- **Ohio EPA Fact Sheets**

- 2017 Reduction and Recycling Statistics: https://epa.ohio.gov/portals/34/document/guidance/gd_1011.pdf
- Solid Waste Generated in Ohio – 2017: https://epa.ohio.gov/portals/34/document/guidance/gd_1017.pdf
- Ohio Solid Waste Disposal – 2017: https://epa.ohio.gov/portals/34/document/guidance/gd_1008.pdf
- House Bill 592: <https://epa.ohio.gov/portals/34/document/guidance/hb592.pdf>
- Local Solid Waste Management Planning Process: https://epa.ohio.gov/portals/34/document/guidance/gd_633.pdf
- Local Solid Waste Management Plans: https://epa.ohio.gov/portals/34/document/guidance/gd_1004.pdf
- Ratification of Solid Waste Management District Disposal and Generation Fees: https://epa.ohio.gov/portals/34/document/guidance/gd_594.pdf

- Ratification of Solid Waste Management District Solid Waste Management Plans: https://epa.ohio.gov/portals/34/document/guidance/gd_655.pdf
- Solid Waste Management Districts: https://epa.ohio.gov/portals/34/document/guidance/gd_1005.pdf
- State Solid Waste Management Plan: https://epa.ohio.gov/portals/34/document/guidance/gd_659.pdf
- SWMD Rule Guidance: https://epa.ohio.gov/portals/34/document/guidance/gd_1006.pdf
- **Model Program Case Studies**
 - General Page: <https://epa.ohio.gov/dmwm/Home/SW-Mgmt-Planning2/SWMPFormat#157675006-model-program-case-studies>
- **Ohio EPA District Office Information**
 - General Page: <https://epa.ohio.gov/Districts>
 - NEDO: <https://epa.ohio.gov/Districts#162769408-materials-and-waste-management>
 - NWDO: <https://epa.ohio.gov/Districts#162779417-materials-and-waste-management>
 - CDO: <https://epa.ohio.gov/Districts#115805614-materials-and-waste-management>
 - SEDO: <https://epa.ohio.gov/Districts#162789426-materials-and-waste-management>
 - SWDO: <https://epa.ohio.gov/Districts#162799506-materials-and-waste-management>
- **Ohio EPA Planner Assignments**
 - Link: https://www.epa.ohio.gov/portals/34/document/general/swmd_planning_assign.pdf
- **Re-TRAC Login Page**
 - Link: <https://connect.re-trac.com/login>