OARDC is the intersection for superior, diverse, unbiased research. Housed within The Ohio State University, OARDC is a premier institution committed to safe, healthy, and affordable food and agricultural products; sustainable local and agricultural systems; thriving rural and urban communities; accessibility of natural resources and the environment; and keeping Ohio positioned favorably in a global economy.

OARDC is the largest university agbioscience research center in the nation. OARDC's Outlying Research Stations are vital to the success of the state's agricultural, economic, and environmental systems. OARDC's annual report highlights the impact of its research and outreach on Ohio's economic development and quality of life.
Its resources to advance knowledge and generate economic development opportunities. OARDC has identified three signature areas that align Ohio’s highest needs with the Center’s greatest strengths, strategically directing

As the importance of renewable
energy technologies and value-
creation continues to grow, Ohio’s
leaders are ramping-up their
investment in learning how to
build biomass-based advanced
technologies.”

The collaboration has brought us to a powerhouse in technical capabilities with OARDC (formerly Schmack BioEnergy) and bringing renewed focus on these technologies and the future of bioenergy.

“I think the significance of this novel initiative is that it is...understanding of how the different issues are related to the sustainability of our global system. We need to...to ensure food security and the
supply; and maintain agrosecurity
for a stronger economy.”

“arid and ecological conditions, and...in the types of emission reduction opportunities that are available.”

“Business and Innovation
Director Parwinder Grewal said the program “gives students...in the new Farm Bill. More information:

ACRE focuses on revenue, not price; hence, it adjusts...with market conditions rather than being fixed, as are...developing the concepts that became ACRE and the Department of Agricultural, Environmental, and Resource Economics (AEERE) is helping educate farmers about the program. “It’s...publications.php?user=zulauf.1

“STEM disciplines —science, and math — in Ohio to high
school and college students.

The Ohio Agricultural Research Development Center (OARDC) embraces human diversity and is committed to ensuring that all research and related educational outreach by providing sound science to monitor, measure, and place.

The Outlying Agricultural Research Stations provide facilities for scientists to conduct field experiments under the state’s numerous climatic conditions. The stations include:...

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OARDC has identified three signature areas that align Ohio’s highest needs with the Center’s greatest strengths, strategically directing its research efforts.

**Environmental Quality and Human Health**

- **Food Security, Production, and Public Health**
- **Advanced Biotechnology and Biobased Products**
- **Environmental Quality and Human Health**

OARDC’s research addresses urgent environmental sustainability issues, from reducing the carbon footprint of agriculture to developing sustainable, nutritious food products. The Center’s work is driven by a commitment to ensuring food security and the health of both people and the planet.

**Food Security, Production, and Public Health**

From addressing the need for diverse, nutritious food options to understanding how our environments affect human health, OARDC is at the forefront of advancing knowledge in this critical area.

**Advanced Biotechnology and Biobased Products**

OARDC is home to the largest university agbioscience research center in the nation, where scientists and engineers work together to develop new technologies that improve sustainability. This area focuses on harnessing the power of biotechnology to create innovations that benefit both society and the environment.

**Ohio Agricultural Research and Development Center (OARDC)**

OARDC is the largest university agbioscience research center in the nation. It is the research arm of The Ohio State University, College of Food, Agriculture, and Environmental Sciences, and Director, OARDC Station, Wood County.

**OARDC Locations in Ohio**

- **North Central Agricultural Research Station, Newark, Ohio**
- **North Central Agricultural Research Station, Sunbury, Ohio**
- **West Central Agricultural Research Station, Wooster, Ohio**
- **Eastern Agricultural Research Station, Coshocton, Ohio**
- **Western Agricultural Research Station, Sylvania, Ohio**
- **Muck Crops Agricultural Research Station, Ashtabula, Ohio**
- **Wooster Campus, OARDC, Wooster, Ohio**
- **Jackson Agricultural Research Station, Jackson, Ohio**
- **Coshocton County Agricultural Research Station, Coshocton, Ohio**
- **Title Research Station, Wood County**

**OARDC Administration**

- **Executive Director and Chancellor:** Jeffrey D. Duda
- **Assistant Director of Administration:** Anne M. Tipton
- **Assistant Director:** David A. Benfield
- **Assistant Director:** Stephen C. Myers
- **Assistant Director:** F. William Ravlin
- **Assistant Director:** Gary W. Mullins
- **Assistant Director:** Mark A. Kurtz

**OARDC Offices**

- **Merrill Auditorium, 6100 Olentangy River Road, Columbus, Ohio 43210-1066**
- **600 12th Avenue South, Columbus, Ohio 43210-1066**
- **2311 2nd Avenue, Columbus, Ohio 43210-1066**
- **606 W. Mound Road, Columbus, Ohio 43210-1066**
- **OARDC Offices**

**OARDC 2009 Annual Report**

**Bringing Knowledge To Life**

http://www.oardc.osu.edu

**OARDC**

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**WHAT OARDC’S PARTNERS SAY**

“OARDC has the brain power, the talent, and the facilities to help us get a jump-start on those technologies.” — Dean Morrow, North Central U.S. Energy Group (from Technology Senior Advisor)

“The Ohio State University plays an important role in research and outreach by providing sound science to decision makers, ensuring, and place a quantifiable value on the types of advanced education opportunities that are available.” — Matt Wilo, Lead Economist, LLC.

“The collaboration has brought us to a powerhouse in technical capabilities with OARDC and encouraged us to expand our market research, see opportunities, and build our market share in the state.” — Clemens Halene, Vice President of Engineering, Quasar Energy Group.

“…the collaboration created value. It literally changed our experience that will set them apart from others for college admission and human and natural resources are integrated to make this site-specific research responsive to the distinct needs of every part of our diverse state.” — Mark Wilson, Land Stewards, LLC.

**OARDC Directly Generates:**

- $215.3 million in total economic output
- 1,600 jobs in Ohio
- $45.2 million in personal income for Ohio residents
- $25.5 million in state and local taxes
**400 kilowatts of electricity**

The amount of energy that can be generated from converting waste into energy.

**20–30 New jobs for Ohio**

The number of jobs that can be created by developing a biogas facility.

**$5 million**

The amount of federal funds received to build a biogas facility.

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The amount of federal funds received to build a biogas facility.

**A solar array can save municipalities dollars**

A successful example of saving money by converting waste into energy.

**40%**

The percentage of energy that can be saved by converting waste.

**$30 million**

The amount of savings from using biogas.

**$144 million**

The expected revenue from providing clean energy in the next 5 years.

**22,000**

The expected revenue from providing clean energy in the next 5 years.

**16,655**

The number of pounds of carbon reduced each year.

**4–10 TONS**

The amount of carbon sequestered in a year.

**80 TONS**

The amount of carbon sequestered in a year.

**New use for waste product**

Benefit environment, economy.

**New use for waste product**

Benefit environment, economy.

**Listed pathways to capturing carbon best**

The pathways to capturing carbon best.

**めんue: Advanced Biodynergy and Biorebased Products**

**Environmental Quality and Sustainability**

**Food Security, Production, and Human Health**

**Learning about diseases before an outbreak**

Before the World Health Organization declared H1N1 as a global pandemic in 2009, scientists at OARDC were studying the genetics of the influenza virus. This research helped scientists to understand the genetic makeup and disease-causing potential of the virus, allowing them to develop effective vaccines. A planned Plant and Animal Health Security Laboratory will help identify new species and develop vaccines to prevent future outbreaks.

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OARDC is collaborating with Turning waste into electricity needs. It is also working with researchers to supply one-third of the campus’s energy. The Cleveland-based company that produces biogas from municipal and agricultural waste is just one way to slow global warming. Decisionmakers also need to consider forestation and wastewater-treatment facility upgrades. This approach allows businesses and municipalities to meet water quality mandates with less expensive and more economical approaches. This same effort will be expanded, creating jobs and revenue. This work is just one way to slow global warming.

Another way to slow global warming is to grow local economies. To grow local economies, OARDC is working with the state to promote using local foods. This will help identify new opportunities for farmers to increase crop yields and adjust crops that likely have been growing conventionally. The use of granular technology will allow farmers to manage pests more effectively and save municipalities dollars. This approach allows businesses and municipalities to use less expensive and more economical approaches. This work also reduces pests on golf courses. An environmentally sound approach to pest control on golf courses is using granular technology.
OARDC is collaborating with Turning waste into electricity and new products from waste streams. It is also working with researchers to supply one-third of the campus’s energy needs. This includes using biogas from municipal and agricultural waste to generate electricity. The company has partnered with Arlington Energy, located near Mansfield, Ohio.

An OARDC researcher is seeking a patent for a method of converting spent foundry sand, a byproduct of the foundry industry, into energy. This is expected to keep at least 10 percent of it out of landfills, saving the U.S. EPA to conduct a risk assessment of the use of spent foundry sand as a soil amendment.

OARDC and Arlington Energy, located in Mansfield, Ohio, have partnered to develop a new technology for converting waste into energy. The technology includes the use of biogas from municipal and agricultural waste streams to generate electricity. This technology is expected to reduce waste and increase energy production.

OARDC researchers are also working on developing new products from waste streams. For example, they are exploring the use of spent foundry sand as a soil amendment and the use of biogas from municipal and agricultural waste streams to generate electricity.

In addition, OARDC researchers are collaborating with Arlington Energy to develop a new technology for converting waste into energy. This technology includes the use of biogas from municipal and agricultural waste streams to generate electricity. This technology is expected to reduce waste and increase energy production.

These efforts are part of OARDC’s commitment to sustainability and environmental quality. These initiatives focus on improving the health and well-being of people and the environment. OARDC researchers are working to identify new and innovative ways to protect the environment and improve human health.
OARDC is collaborating with a Cleveland-based company that produces kilowatts of electricity from municipal and agricultural waste, transforming waste into electricity. It is also working with researchers to supply one-third of the campus's energy needs. This amount of energy would be produced each day from 40–50 tons of waste, which is equivalent to the energy content of 80–100 tons of coal.

New uses for waste products

New uses for waste products benefit environment and economy.

OARDC researchers collaborated with the USDA and U.S. Dairyadam in a demonstration of the use of dairy waste products to create a natural fur for use on clothing. This type of fur will not only be more environmentally friendly, but it will also be more sustainable. U.S. Dairyadam has committed to using all the dairy waste products that are produced by the dairy industry.

Annual revenue for U.S. Dairyadam reaches $30 million annually.

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The Ohio Agricultural Research Development Center (OARDC) embraces human diversity and is committed to ensuring that all research and related educational programs are available to clientele on a nondiscriminatory basis without regard to race, color, religion, sex, age, national origin, sexual orientation, gender identity or expression, disability, or veteran status. This statement is in accordance with United States Civil Rights Laws and the USDA.