



Clinton County 2022 ANNUAL REPORT

BY THE NUMBERS



\$168,995,779 total economic impact in Clinton County



613 youth participated in 4-H clubs, early childhood or after school programs



MSU Extension website received 10,126 page views by Clinton County residents, the most page views were of 4-H pages



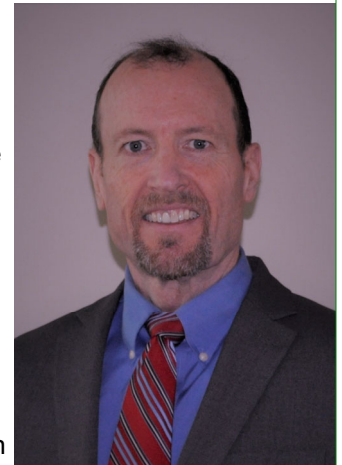
2,769 Clinton County residents participated in 473 different MSUE programs in 2022

100

MSU Extension has served Clinton County over 100 years

MESSAGE FROM THE DISTRICT DIRECTOR

Clinton County residents took advantage of MSU Extension programming from all four MSU Extension institutes in 2022. The following pages contain just a sample of the program highlights from the County's participation in MSU Extension's Agriculture and Agribusiness (AABI); Health and Nutrition (HNI); Community, Food and Environment (CFEI); and the Children and Youth Institute (CYI). During this period, Over 2,700 Clinton County residents participated in 473 different in-person or online programs. In addition, 4-H youth participated in club activity and projects leading up to the 2022 Clinton County 4-H Fair. Your local MSU Extension staff and the statewide network of Educators worked through local partners to bring the university's research and resources directly to our County residents.



Bill Hendrian

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MICHIGAN STATE
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Program Highlights



Educator, Roger Betz, gives a report to the Michigan senate agricultural committee.



MSU Extension Dairy Educator, Paola Bacigalupo Sanguesa offers education to dairy farm workers.



Agricultural and Agribusiness Institute “field days” like this one in 2022 in Clinton County are popular events where the research and outreach components come together to best help our farmers.

FARM MANAGEMENT

Roger Betz, Farm Business Management Educator, assists farmers, businesses, industries, families and individuals to improve lives and achieve their goals through an educational process that applies management, production and economic knowledge to critical issues. Roger meets with local farm producers enrolled in the MSUE Tel-Farm Record system to manage their taxable income. In addition, forty-three mid-Michigan farm families met individually with Roger in 2022 to develop their business’s tax management strategy for the current year. On average, the tax savings was \$33,775 per family totaling \$1,452,326 benefit for the effort. Roger also assists with developing tools and resources for producers to make informed business decisions as well as to make important decisions related to the successful transfer of business skills, responsibilities, and assets to the next generation.

FARMEmployee TRAINING

Dairy farms in Michigan rely heavily on hired help. Dairy farm employees can have a wide range of backgrounds regarding experience, education, race, and culture. The MSU Extension dairy team has been supporting Michigan dairy farms for years by offering on farm training in multiple topics, including milking, maternity (cow and newborn calf care), sick cow’s care, calf care, low stress animal handling, cow nutrition and feeding management. These trainings are offered on farms across the state of Michigan and are delivered in English, Spanish, or both languages. In 2022, the dairy team conducted 33 trainings on 18 farms, representing over 22,100 dairy animals, and offered education to a total of 184 dairy employees.

FIELD CROPS SERVICES

Annually we have a online program called the Field Crop Webinar Series where specialist give interactive presentations around managing risk and improving productivity on farms. The audience is typically farmers and Agriculture Advisors. The 2022 season was no different in attendance and success. In-person programming was well attended as well. At an event held at Agribusiness in St. Johns, MI professionals and farmers alike were able to visit the MSU Extension booth with a rainfall simulator and cover crops growing in tubes. 2022 was the first season we decided to have live cover crops growing in 4 ft deep tubes. It matched what was planted in the field next to the display, allowing visitors to see both the above and below ground perspective of what a cover crop is doing. MSU Extension educator, Monica Jean, held several field days like to one pictured to the left for farmers to see research results first hand. These results are reviewed and analyzed to glean best practices.

Program Highlights

INTRODUCTION TO LAKES

Introduction to Lakes is a six-week online course offered once a year and is designed for lake users, lakefront property owners, and lake managers. Participants increase their knowledge and understanding of lake ecology, watersheds, shorelines, Michigan water law, aquatic plants and community involvement. Inland lake management is complex and state agencies do not have the capacity to oversee the more than 11,000 inland lakes across Michigan. In 2022 we had our largest cohort of 524 participants. Participants from Michigan were spread out over 69 counties and included 49 local government officials. We also hosted three one-hour Ask-an-Expert webinars, allowing participants to interact with us and outside experts on topics covered in the course. Two hundred and seventy people attended the webinars live and 271 watched recordings.



Michigan is home to more than 11,000 inland lakes and 36,000 miles of rivers and streams.

Clean boats, Clean Waters

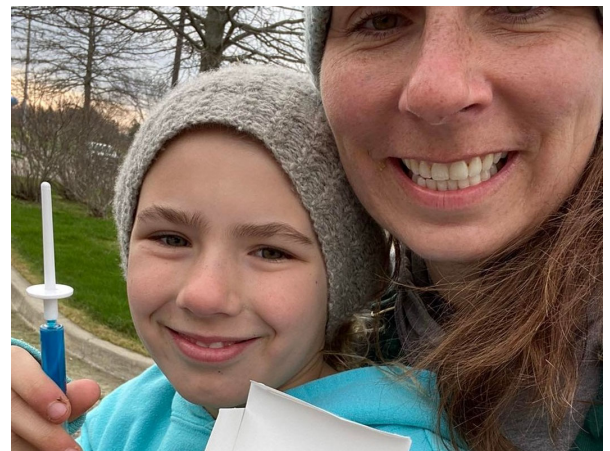
The Michigan Clean Boats Clean Waters program funded eleven aquatic invasive species education projects across the state in 2022. Awardees received between \$1,000 - \$3,000 for a total of \$20,652.32. Funds were used to purchase invasive species decontamination equipment, educational signage at popular boat landings, and other aquatic invasive species prevention materials. Over 2,500 boaters were contacted at 80 events and an estimated 2,900 educational materials were distributed by grantees. MSU Extension has offered education at events like the 2022 summer solstice event at Park Lake in Clinton County (pictured opposite) to help county residents learn about their local lakes. Residents learn what is in the lake, good and bad, and are made aware of the importance of containing and not spreading invasive species.



MSU Extension provides education to help county residents contain and not spread invasive species while enjoying the lake.

ANIMAL SCIENCE AND 4-H

Clinton County 4-H held its 4-H Livestock Tagging Event on April 30th. This was new this year to have all species tag animals at the same place and time. This event was held at the County Fairgrounds and was a huge success. Clinton Vet Clinic donated vaccines along with Merck Animal Health and Dr. Kristin Trewieler and her daughter (new 4-H member) volunteered their time to administer shipping fever shots to all prospect beef that came through the event. We had a Speaker on November 3 for the prospect beef project. She spoke on selection, nutrition, and housing. She discussed a lot of math. I had many parents thank us for doing this and several parents stated that they learned a lot and would like a session like that geared for the parents so that they can better assist their members.



Dr. Kristin Trewieler and her daughter helped with 4-H livestock vaccines.

Program Highlights



4-H is Michigan's largest youth development program serving over 200,000 youth each year.

YOUTH DEVELOPMENT

Clinton County 4-H helps to prepare our future leaders by offering numerous opportunities for youth development. From the local club experience to the statewide workshops and events, all youth have the chance to participate and develop skills that last a lifetime. In 2022 Exploration Days was back on the campus of MSU! In addition, the 4-H trips returned—most of the youth stayed within Michigan, but the trips were fun and educational, exploring and developing relationships and leadership skills. The summer fun ended by many participating in the Clinton County 4-H & Youth Fair. 339 4-H members exhibited 1,910 projects. The 2022 4-H & FFA sale were \$509,976.75 (an increase of over \$40,000 from the prior year).



MSU Extension helps to equip people with the knowledge and resources to make healthy choices for themselves and their families.

COOKING MATTERS

Cooking Matters classes are offered to teach basic nutrition and skills in the kitchen. MSU Extension holds classes in-person and online. We try to reduce barriers as much as possible for this important information. In 2022 one class at a low-income housing complex in Clinton County was greatly appreciated. A group of 12 ladies participated with varying degrees of experience. After the second class one participant shared about her take-home groceries and what she was able to do with them. She was excited and shared about how she loved the Black Bean and Corn Salad Recipe so much, that when her son came over to go out to eat with her the following day, she suggested that they stay home, and she could make this new salad for him to try. He loved it and wanted the recipe too. She was excited about the opportunity she had to share a healthy and tasty dish with her son.



Eat Healthy, Be Active is one of the many programs that our community nutrition instructors use to help participants make better food choices and increase physical activity.

EAT HEALTHY BE ACTIVE

In a typical Eat Healthy, Be Active program participants will arrive with sodas and energy drinks in hand. Ironically, one of the activities for the first day uses real sugar and a measuring spoon as a visual of how many teaspoons of sugar can be found in all kinds of drinks. Each participant counts out teaspoons of sugar and dumps it on a plate and stops when they think they have guessed the amount of sugar. The results for soda and energy drinks are a bit shocking, and they often have multiple servings a day and would need to multiply the amount of sugar by the total number of drinks. Also, sugary foods would add to the amount of sugar intake. At the end of one class a participant said that she went from drinking 2-3 sodas each day to 2 sodas per week after she saw how much sugar is in one can of soda.

Focus on Youth Safety & Development

MSU Extension children and youth educator, Christine Heverly, wears many hats for our premier youth development program. Christine coaches program coordinators in the important task of volunteer recruitment, screening, and management. Christine writes training modules for the state program, makes sure our 4-H youth are S.A.F.E. by conducting statewide training to make sure that volunteers and 4-H youth are able to reach their full potential. MSU Extension's volunteers receive background checks, interviews, and extensive training to make sure they are equipped to confidently work with our 4-H youth.



Exploration Days Success in 2022

In early April, a mother of a 4-Her reached out to the 4-H Exploration Day team to see if we could find some solutions for her child to participate in the event. The youth had participated in the 4-H State Awards program and wanted to attend parts of the event and the awards ceremony. However, because of some disabilities, attending the event fully was not something the mother was sure would be possible. She would have to be in attendance with him the entire time. Christine worked with the mother to determine what options would be best for the youth (Malachi). It was determined Malachi would commute to the event, attend Wednesday afternoon, then return for a session on Thursday afternoon. He was free to attend any other free time activities that made sense, provide meal options for the times he was attending, and be seen as much as possible as a regular participant at the event. This would help him and his mom determine if three days of the event is a possibility. After the event, Malachi's mom sent the following e-mail to the Exploration Days team and the State Awards Team. " Just a note to tell you we (Malachi and I) had a great time at Expo Days.



4-H youth work on a "Junk Drawer Robotics" project during their stay on the MSU campus for 2022 Exploration Days.



I have to say that I love the fact that people talked more to Malachi (knew his name) than they did me, came up to him and told him congrats! Totally happy mom. This is why I love the 4-H program.

Betty Jo, thanks for taking the time to work with us before the presentation at the Wharton. Made it much easier for us to prepare to go on stage.

He did an amazing job.

Christine, so glad we chose to do just a bit of Expo Days. He did great at his class on Thursday. Then after played mini golf (only 3 holes), cornhole and bocce ball. Woohoo!

Everyone was kind and helpful, more adults than the kids. I know its hard for some to understand him, but awareness is the key for them."

Focus on Dairy Education

Dairy farms in Michigan rely heavily on hired help. Dairy farm employees can have a wide range of backgrounds regarding experience, education, race, and culture. The MSU Extension dairy team has been supporting Michigan dairy farms for years by offering on farm training in multiple topics, including milking, maternity (cow and newborn calf care), sick cow's care, calf care, low stress animal handling, and cow nutrition and feeding management. These trainings are offered on farms across the state of Michigan and are delivered in English, Spanish, or both languages.



Paola Bacigalupo Sanguesa
Dairy Educator

In 2022, the dairy team conducted 33 trainings on 18 farms, representing over 22,100 dairy animals, and offered education to a total of 184 dairy employees. The results from a survey completed by the participants after attending a training showed that:

96% increase their skill set.

92% intended to do something to improve the productivity of the farm.

A follow up survey completed by farm managers and owners showed that:

93% reported at least one positive change in the employees during the following months after the training, including: engagement, communication with the farm management team, teamwork, and efficiency.

100% reported improvements in at least one area such as protocol compliance, number of sick calves and cows, number of animals that were removed from the farm, milk quality, milk production, and efficiency.

When asked to provide comments regarding the trainings offered by the MSU Extension dairy team, owners and managers shared:



“They [on farm training] help our crew understand why we do things the way we do and hearing it from someone off the farm is a big help in retaining that information. When they understand why we do things for the most part, they try to do a better job and follow protocols” – Farm A



Paola leads a discussion - On farm classes often mean strawbale seating.

MSU Extension staff located in Clinton County

| | | | |
|---------------------------|--------------------------------|--------------|-------------------|
| Paola Bacigalupo Sanguesa | Dairy Educator | 970-888-1356 | paolabs@msu.edu |
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| Monica Jean | Field Crops Educator | 616-443-8782 | atkinmon@msu.edu |
| Morgan Scharphorn | 4-H Office Secretary | 989-224-5242 | hathcox@msu.edu |
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Additional MSU Extension staff serving Clinton County

| | | | |
|-------------------|---------------------------------|--------------|------------------|
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| Eric Walcott | Government & Public Policy | 517-353-9106 | walcott3@msu.edu |
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Collaboration Across MSU Extension

MSU Extension is an organization comprised of individuals with broad knowledge of subject matters related to a particular discipline, such as field crops, nutrition, or youth development. Having four MSU Extension Institutes gives the ability to bring together cross-disciplinary expertise to address issues that are multifaceted and complex. For example, MSU Extension Educators and Program Instructors have worked together on physical and financial health issues, agricultural and stress issues, economic and community development and conservation issues, and issues that span generations.

Your local office is housed with experts in particular fields. Individuals may serve in the Agricultural and Agribusiness Institute, the Children and Youth Institute, the Health and Nutrition Institute or our Community, Food and Environment Institute. However, even if you do not have a local expert for the issue that you need addressed, MSU Extension has the unique functionality of drawing from a statewide pool of experts to make sure that you have the information that you need. In addition, the MSU Extension website www.msue.msu.edu is maintained and updated on a regular basis. We are always looking for ways to collaborate with each other to apply knowledge to the critical issues you face.

Through successful partnership and collaboration with Clinton County, MSU Extension is able to continue its local presence and to provide vital educational resources and programming in such areas as community and economic development, agriculture, land use, health and nutrition, and youth development.

Thank you Clinton County!

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MISSION:

Michigan State University Extension helps people improve their lives through an educational process that applies knowledge to critical issues, needs and opportunities.

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