MESSAGE FROM THE DISTRICT COORDINATOR

MSU Extension serves individuals, businesses and families throughout Michigan. District 8 spans seven counties, with eight different Extension offices. MSU Extension also has a close partnership with MSU AgBio Research, and District 8 is home to two of their research centers; the Clarksville Research station and Montcalm Research center. The two organizations work together to keep farmers and the general public current on the newest technology and management practices.

MSU Extension programs create innovative opportunities for Michigan residents. These programs offer youth and adults access to educational opportunities as varied as dairy herd management, bullying prevention, diabetes prevention, youth college experiences, gardening, human nutrition and animal nutrition. Extension also provides an opportunity for new commissioners to attend New County Commissioner Training which includes workshops on county budgets, policy making, and statutory obligations.

It is a pleasure to work with the over fifty MSU and County staff members housed in these eight District offices. Please contact me with any questions you may have about this report or any MSU Extension programs.

Don Lehman
District Coordinator, District 8

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MEASURING IMPACT

CONNECTING WITH RESIDENTS

4-H Program.............................................................................................................2,487
4-H Clubs Members.................................................................................................1,116
Special Interest & School Enrichment Participants..............................................952
Teen Volunteers......................................................................................................79
Adult Volunteers......................................................................................................340
Snap-Ed Participants...............................................................................................901
TOTAL IMPACT......................................................................................................3,388

DISTRICT 8 DIGITAL REACH

From July 1, 2015, to June 30, 2016, 4,185 visitors from Barry County viewed more than 8,959 pages of rich, science-based content on the MSU Extension website (msue.msu.edu). Search engine rankings make msue.msu.edu one of the most visited Cooperative Extension Systems education sites in the country.

MSU EXTENSION’S EXPANDED DIGITAL REACH

Through combined face-to-face trainings, online webinars, social media, website interaction and electronic newsletters, MSU Extension has made more than 8.8 million connections. More than 149,000 adults* and 203,000 youth† participated in MSU Extension programming in the 2015-16 programming year.

More than 3.7 million people viewed more than 7.2 million pages on the MSU Extension website‡. Of those, more than 760,000 were Michigan residents. MSU Extension remains one of the most visited Cooperative Extension System education websites in the country.

MSU Extension also distributes a series of electronic newsletters that cater to residents’ unique interests. Last year, nearly 1.3 million newsletters covering 90 topic areas were distributed to about 16,900 email addresses.‡ You can sign up for these informative newsletters by visiting msue.msu.edu and clicking on “Newsletter Sign Up” or by texting MSUE to 22828.

MSU Extension uses social media channels to reach people with educational content. Currently, Extension reaches more than 3,500 Facebook followers and more than 2,800 Twitter followers.§ In addition, Michigan 4-H families and volunteers stay informed about activities through social media channels, including on Michigan 4-H Facebook with more than 4,000 likes and on Twitter with more than 1,300 followers.

‡From July 1, 2015, to June 30, 2016
When you support MSU Extension 4-H programs, youth participants learn life skills that prepare them for the workforce – especially for highly sought after jobs in science, technology, engineering and mathematics (STEM). Extension programs help children develop early literacy skills that support school readiness. They learn leadership and decision-making skills in 4-H that increase their likelihood of becoming civically active.

4-H'ers also demonstrate reduced high-risk behaviors such as drug use, and learn to complete tasks, solve problems and seek any help they might need from peers and adults. 4-H involvement also helps participants avoid or reduce involvement with the court system. This helps ensure more young people succeed in school, attend college and contribute to their communities. More successful young people in communities results in greater tax revenues and consumer spending and increases the likelihood that young people will stay in, or return to, their communities.

### Growing true leaders

With innovative ideas, exuberant energy and the ability to look beyond preconceived obstacles, youth have the capacity to change the world. However, many lack the skills and confidence to empower these assets into motion. They need experiences and training that help them to feel ready and capable to lead.

Michigan 4-H helps to prepare current and future leaders by offering numerous opportunities for leadership development. From the club experience to statewide youth councils, all youth have the chance to serve in a leadership role. Those experiences and various leadership trainings provide youth with skills to last a lifetime and empower them to stand up today as true leaders in their families, schools and communities.

In the past year:

- 212 Barry County youth participated in the Leadership & Personal Development training project, which included nursing home visits, soup kitchen service, planning and organizing events, and the Career Ideas & Opportunities event.

- 2 Barry County youth have been hired by Seasonal Grille as a result of our Local Flavor Fest Culinary Arts program. Both youth are working on the line in the kitchen and assisting with catering event preparation. This project was selected as one of 500 applications to present a session at the National 4-H conference in New Orleans.
Whether it is written, spoken or visually represented, the way we express ourselves makes a big impact on our daily lives at home, work and play.

Building communication skills for a lifetime

Communication is an essential element of every aspect of life – personal and professional. Whether it is written, spoken or visually represented, the way we express ourselves makes a big impact on our daily lives at home, work and play. Youth who practice and enhance their communication skills in adolescence will find these skills to their advantage in future employment and adulthood.

To help young people develop this important life skill, MSU Extension’s Michigan 4-H has made communication an aspect of nearly every area of its programming. Youth are required to record their progress on projects, verbally report their activities and illustrate their understanding in a number of ways. Some Michigan 4-H programs make communication a major focus, further allowing youth to cultivate and enhance these critical skills.

Barry county youth who participate in the Science & Technology training have many opportunities to fine tune their communication skills at the various events and activities offered which included: 5 Science Saturday events, Flex Fab tour, partnership with TK Schools in the Thornapple Robotics Program, Robotics workshop and mini competition at fair.

In 2016:

- 519 Barry County youth participated in projects or activities related to Communications & Expressive Arts.
- 18 Barry County youth participated in projects involving Civic Engagement.
When you support MSU Extension’s efforts to enhance residents’ access to an adequate supply of safe, affordable food, program participants will focus on food safety measures in the field and at harvest, learn proper food preparation and food preservation techniques, and bring community partners together to strengthen access to healthy food supplies. This leads to a healthy population, which in turn helps keep health care costs in check and our communities viable.

Reducing foodborne illness through education of individuals and small businesses

The National Institutes of Health estimates that every year, 48 million people in the United States become ill and 3,000 die from pathogens in food. Causes range from outdated home food preservation practices to unsafe sanitizing practices at public events and small businesses. Since 2013, MSU Extension food safety and preservation programs have taught almost 10,500 Michigan residents safe food handling, food preservation and methods to reduce foodborne illness.

Participants include youth, nonprofit organizations that prepare food for the public and food preservers who want to create safe products for their small businesses.

Through face-to-face and online learning, Michigan communities receive high-quality, research-based education using U.S. Department of Agriculture guidelines for safe food preservation.

- 95% of participants report they will follow research-based and tested recipes for home food preservation.
- 86% of youth participants gained knowledge about food spoilage organisms and learned how the organisms’ growth can be slowed or prevented.
- 85% of participants can correctly list strategies for cross-contamination prevention.
- 91% know correct methods of cleaning and sanitizing surfaces.
Ensuring Strong Communities

When you support MSU Extension, participants learn how to implement best practices in good governance that keeps communities solvent, productive and engaged; learn effective conflict management skills that help leaders and residents work collaboratively on complex issues; and engage youth leaders in decision-making. In the personal finance area, MSU Extension helps youth and adults alike learn the skills they need to increase their savings, manage their spending, avoid predatory lending and reduce mortgage defaults. All of these outcomes help lower the cost of governmental services and lead to personal and community stability, strong neighborhoods and safe communities.

Improving the fiscal health of Michigan communities

Only with healthy, vibrant communities can Michigan residents be expected to thrive. To help Michigan prosper in a sensible, sustainable fiscally responsible way, MSU Extension launched the Center for Local Government Finance and Policy in late 2015.

The center is led by MSU Extension economist Eric Scorsone, who has assisted multiple cities during fiscal crises including Detroit, Flint and Lansing. The center will advise cities during fiscal hardships so communities can find a sustainable path forward. It will also develop fiscal tools and offer outreach to help communities improve their fiscal health. In addition, the center is committed to connecting legislators with experts in public policy and forging partnerships in the public and private sector.

The center’s efforts include:

• Assisting in the development of performance metrics for government budgets, strategic plans and public accountability reporting.
• Providing an overall assessment of long-term and short-term trends in revenues, expenditures, debt, general fiscal health and recommendations regarding adoption of financial policies.
• Publishing an annual local government fiscal health report for communities wishing to improve fiscal health.
• Publishing an annual legislative mandate report that identifies the costs imposed on local governments and their impact on fiscal and operational health.
Your Money, Your Goals

One program working to make our community stronger, is the Your Money, Your Goals program. This is a Train-the-Trainer event and works with social and case workers to become more aware of information and tools to financially empower their current clients. MSU Extension educational staff from the Financial and Homeownership team provided resources that the workers can use to assist their clients plus information about locally available resources they may need to create in order to better meet the needs of those they help. Seven Barry county case workers participated in this training.

Foreclosure prevention

In 2016, the MSU Extension Housing program provided counseling services to Barry County homeowners concerned about keeping their homes due to delinquent mortgages or property taxes. Foreclosure education is delivered through one-on-one office appointments with household members. The Housing counselors are HUD-approved and MSHDA-certified to provide such services. Follow up with clients is done until the outcome is known. Counselors also respond to phone and email inquiries.

Through working with the Michigan Hardest Hit Fund Homeowner Program, the MSU Extension Housing program was able to secure funds to assist several Barry county households to become current on their property taxes and brought in $14,360.18 to the county in back owed taxes.

Homeownership Education

Homebuyers make decisions that require them to determine their own financial situations and what financial products are available on the market. Research suggests individuals may not accurately estimate their own financial status, including information about debt and creditworthiness, which leads to less desirable financial decisions. MSU Extension Homeownership Education courses educate homebuyers on advantages of homeownership and steps in the home-buying process, understanding costs of homeownership and how to maintain the investment, mortgage, loan basics, why good credit is important, and how to determine how much house can be afforded.

Households that complete this program will receive a certificate that is a requirement for Michigan State Housing Development Authority (MSHDA) down payment assistance programs.
MSU Extension and the MSU Product Center help Michigan entrepreneurs develop and commercialize high-value, consumer-responsive products and businesses in the food, agriculture, natural resources and bioeconomy sectors. When you support MSU Extension, you help participants understand the economic, environmental and social benefits of purchasing local and regional foods. You also help young people develop business skills that will help them succeed as adults and help communities capitalize on their ecological, social and cultural assets. This fuels the economy by creating and retaining jobs, and helps ensure a healthy tax base.

**Building entrepreneurial spirit and skills**

As the backbone of the economy, small business owners play a critical role in the prosperity of the nation. But to be a successful entrepreneur, one must have not only the ambition and moxie to take a risk, but also the business sense and skill to make a profit. To ensure the business owners of tomorrow – today’s youth – are triumphant in their future endeavors, they need to learn the entrepreneurial concepts that pave the way for success.

MSU Extension is helping to meet this need by providing youth and the adults that support them with the skills and resources necessary to turn ideas into business ventures. Through simulations and workshops, youth learn how to develop business plans and operate their own companies, as well as how to be more entrepreneurial in their everyday 4-H experiences. In 2015, these programs were delivered to nearly 1,200 people in 59 Michigan counties.

As a result:

- 92% said they learned how entrepreneurial skills could be used in any career, and 60% reported planning to start their own businesses.

- 8 Barry County youth businesses completed the 4-H Entrepreneurship training and of those, 5 competed in the Generation E student business competition. All 5 came home as prize winners, including Best High School Business Plan award of $350.00 and the Dr. Cathy Ashmore Award by the Generation E Institute Board of Directors for $500.00.

- Barry County youth brought in combined total sales of $799,150 at the Barry County Fair. All but approximately 2% of these yearly sales goes directly to the 4-H members. Proceeds go to volunteer developmental committees and provides funding for committee and event operating expenses.
Optimizing Dairy Farm Profit

Michigan dairy farmers entered 2016 with $4 less per hundred weight of milk than they had received just one year earlier. This represented a 25% decrease in income. This much of a drop in market price meant farmers would need to take a close look at their operation to survive.

In March 2016, the MSU Extension Dairy Team and specialist from Michigan State University offered “Optimizing Dairy Farm Profit”, a workshop designed to highlight information relevant to dairy farms staying profitable with today’s low milk prices. Presentations focused on a variety of topics that can impact a farm’s bottom line. Dr. Chris Wolf, MSU Extension dairy economist, provided a dairy market outlook. MSU Extension dairy and farm management educators also presented timely information including:

- How to identify bottleneck in management
- Financial indicators
- Financial comparisons between high and low profit farms
- Labor cost and productivity
- Economic analysis of custom forage harvesting
- Impact of stocking density
- Heifer enterprise considerations
- Easy-to-use Dairy Farm Cash Flow projection tool

Over 300 farms across Michigan were served by this program. Of the 151 participants, producers attended from Barry, Clinton, Gratiot, Ingham and Ionia Counties. Over 65% of those responding to the survey said they would be making management changes on their farm as a result of the meeting.
When you support MSU Extension, you help participants learn safe food handling practices, increase their physical activity and improve the quality of their diets. Extension programming also helps decrease incidents of violence and bullying. Encouraging these healthy behaviors helps reduce food and health care costs by helping prevent chronic health conditions and providing safe environments throughout a person’s life span.

**Improving nutrition and increasing physical activities in Michigan communities**

Limited income and poor nutrition affect quality of life and can increase healthcare costs. The Centers for Disease Control and Prevention reports that more than 30 percent of Michigan adults are considered obese, and one out of every three deaths in Michigan is caused by cardiovascular disease, influencing the quality of life and adding billions of dollars each year in economic burden.

MSU Extension delivers affordable, relevant, evidence-based education to help residents in urban and rural communities stay healthy throughout their lifespans. Programs teach participants how to buy and prepare nutritious, budget-friendly foods and increase physical activity. In 2015 alone, these programs reached more than 112,000 adults and youth across the state in over 1,600 different locations.

**Cooking matters for adults**

MSU Extension offers a variety of health and nutrition programs. Programs focus on a range of ages from preschool age through senior citizens. One such program is the six week Cooking Matters for adults course offered through the Barry County Extension office. The purpose of this class was to work with individuals on how to prepare nutritious meals and to teach them healthy eating habits. Included in this course were hands-on cooking, food safety and food budgeting lessons.

Just a few of the success stories from Cooking Matters for adults:

- One participant was so excited that a second series was being offered that she invited 8 of her neighbors to join her. They were excited to get out of the house and to eat healthier.

- One participant told the class that her family had refused to eat any vegetables until she started cooking recipes from the class. Now her family asks for seconds when she serves the herb roasted chicken and vegetables.

- One participant excitedly reported to the class that they are now shopping as a family and learning to read labels and compare prices. The entire family is learning to make a balanced meal on a budget.
Making the Most of Our Natural Assets

When you support MSU Extension’s natural resources education programs, participants learn about income-generating opportunities, ecological principles, natural resource issues and the role of natural resource professionals. They also explore public policy issues related to environmental stewardship. Our programs can lead to increased income for families that retain their natural resource assets, help landowners become better stewards of their land, and protect land management opportunities for future generations. Better land stewardship benefits communities by protecting and enhancing Michigan’s natural resource assets.

Raising awareness of the benefits of cover crops

Cover crops are a hot topic in agricultural circles, thanks to an MSU Extension specialist’s message that’s resonating with the right crowd. Dean Baas, a senior research associate, conducts cover crop and organic agriculture research and education.

Cover crops are plants seeded into agricultural fields, either within or outside of the regular growing season, with the primary purpose of improving or maintaining ecosystem quality. Environmental benefits include enhanced biodiversity, increased soil infiltration and attraction of honeybees and beneficial insects.

Researchers are focusing on ways cover crops can be used by farmers to bring diversity to the crop system; to reduce reliance on fertilizers, herbicides and pesticides; and to determine the impact of cover crops on overall operation economics.

Initial studies have shown that:

- Farming benefits include reduced erosion, improved soil quality through increased porosity, soil organic matter and water-holding capacity, as well as the addition of beneficial microbes.
- Cover crops help retain nutrients that otherwise would be lost.
- Cover crops add nitrogen through fixation while combatting weeds and breaking disease cycles.
Michigan agriculture continues to be a growing segment of the state’s economy. The production of commercial food and nonfood agricultural operations is growing rapidly. The number of households raising a portion of their own food and raising livestock or gardening for pleasure or relaxation continues to increase. When you support MSU Extension, you help participants learn profitable and efficient business and production practices. Participants also learn how to optimize and reduce the use of pesticides and fertilizers, and how to conserve and protect water resources. This education leads to better use of time, money and human capital, and helps retain and create agricultural jobs. These measures strengthen Michigan’s economy while connecting farmers to local food opportunities and global markets. In this way you help MSU Extension encourage growth in a sustainable and prosperous Michigan food and agriculture system.

Preparing youth for future careers in agriculture

As a pillar of Michigan’s economy, agriculture must continue to grow and thrive. One way to ensure this success is to prepare an informed and skilled workforce ready for careers in this essential sector.

To meet this need, MSU Extension offers youth a continuum of learning opportunities in the agriculture industry. These opportunities range from interactive experiences such as 4-H Renewable Energy Camp and World Food Prize Michigan Youth Institute, to educational resources such as the Youth Business Guide to Success, animal marketing curriculum and zoonotic disease prevention tools. Through these experiences and resources, as well as county 4-H projects, youth are educated about agriculture and prepared for careers in this important industry. In the last program year:

- More than 2,000 4-H youth participated in animal, biological and plant science projects in Barry county.
- More than 850 youth took part in Michigan 4-H pre-college programs with an agricultural focus. These programs, which include 4-H Exploration Days and 4-H Animal and Veterinary Science Camp, among others, are designed to help youth explore potential careers or academic areas.
Extension Educators take a close look at the first day of life for dairy calves

Top-notch animal care needs to be a priority on every farm from the first day of life. Best management of calves within the first 24 hours sets the stage for healthy heifers and ultimately healthy cows in the milking herd.

During the summer of 2016, Dairy Educator, Faith Cullens, along with MSU students, worked with 50 dairy farms across the state to survey how well they are doing with newborn calf care. Faith visited farms multiple times collecting data and samples, then followed up with producers on how they can improve newborn calf care. Participating farms are located in Barry, Clinton, Eaton, Ingham and Ionia counties.

Individual farm results were shared and several producers made changes to improve newborn calf care after participating in this in-depth program working with Faith on best management practices. Results of this study are being shared at programs in January and February 2017 across the state.

Grazing school

Eighteen adult learners attended the Statewide Grazing school held at the Hickory Corners Kellogg Biological Station on September 22-23, 2016. KBS was one of three locations in the state that was host to this event. This training included sessions on water and fencing systems, managed grazing, pasture management, livestock nutrition and requirements on pasture, and building and using fence for grazing, among other topics.

The goal of the school is to blend classroom instruction with in-field education and the latest animal/forage research to give participants an in-depth introduction to grazing management.
Using technology to reach a larger audience

Farmers across Michigan have attended MSU Extension’s Integrated Pest Management program to receive the latest research and recommendation from Michigan State University researchers for years. However, these programs are offered in just 6 locations and are traditionally offered during the day. This format does not work for everyone. The winter of 2016 marked the 4th year MSU Extension offered a webinar series to extend the information from the live meetings. The webinar series is held one evening a week for six consecutive weeks. Each session featured one of MSU’s researchers presenting current findings and/or recommendations for managing field crops. These sessions mirror the agenda from the live IPM meetings. Participants can earn Restricted Use Pesticide recertification credits for participating.

In 2016 we reached 110 farmers/ag business professionals, from 40 counties, including 30 participants from District 8. Of the participants, 52 received a total of 232 recertification credits. These credits help participants maintain their Pesticide Application Licenses. This format allow farmers from across the state to participate at a time that may be more conducive to their schedule. Technology has allowed us to reach over one hundred more farmers with current, research-based information of crop production.

In 2017, MSU Extension will again offer these webinar sessions for recertification credits. Topics this year include:

- Resurgence of Western Bean Cutworm
- Controlling Resistant & Troublesome Weeds
- Soybean SDS & Wheat Stripe Rust Management
- Selecting Wheat Inputs Wisely
- Field Crop Soil Fertility Management
- Soil Fertility for Forage Production
- Cover Crops for Potato and Soybean Systems

Hops production

MSU Extension provides research-based field crop production recommendations and resources. Assistance is offered to growers through many avenues including educational programs, articles, and individual contacts.

One hops grower in Barry County utilized the resources available to him by reaching out to Field Crops Educator, George Silva. George was able to work with this producer who was looking to start a new hops plantation. The producer was advised on the importance of soil testing to determine the optimal harvesting period and then by analyzing the soil results George was also able to offer MSU fertilizer recommendations. Other resources provided to the producer included bulletins and articles giving information on starting and growing hops.
### Extension Educators Serving Barry County

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