MESSAGE FROM THE DISTRICT COORDINATOR

Hello from Michigan State University Extension (MSUE) District 14, which serves Alpena, Charlevoix, Cheboygan, Emmet, Montmorency, Otsego, and Presque Isle Counties. We want to thank Charlevoix County for another year of partnership. Together we offer dynamic and diverse educational events and programs to people right here in our communities. MSUE is the outreach and engagement arm of Michigan State University and brings the latest research from campus directly to you. We believe education and innovative solutions can help address many of today’s complex issues. We look forward to our continued service to Charlevoix County and the State.

Lisa Anderson
District Coordinator, District 14

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MEASURING IMPACT

CONNECTING WITH RESIDENTS

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MICHIGAN ASK AN EXPERT DATA 2007-2017

The following pages highlight local impacts made possibly by Michigan State University Extension staff through educational programs within the last year. I also want to highlight our Ask an Expert service which is available online through our website (msue.anr.msu.edu) 24 hours a day and 7 days a week. Our MSUE Charlevoix County office staff can also help you use this service. This online tool is used by many Land Grant Universities across the country and allows people to ask Extension and University Faculty questions regarding many topics. The majority of questions asked in Michigan are related to plants and pests, especially during the summer months. When questions are submitted, they are then routed to staff with the appropriate expertise and science based answers are provided. You can see from the chart above that our MSUE District 14 has made good use of this service. Please check out Ask an Expert for yourself. Thank you to Gwyn Shelle of MSUE for this Ask an Expert data.
Developing Youth and Communities

Charlevoix County 4-H

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:

- 25 youth formed the Michigan 4-H State Youth Leadership Council, becoming statewide champions for 4-H.
- 10 youth were trained youth board members for the Charlevoix County 4-H Council. These youth run the board meetings, hold discussions, vote, make financial decisions, help support programing in the county and provide important leadership skills as they communicate important topics with their peers and adults.
- 21 Charlevoix County youth received leadership training through the officer mentoring program. Youth spend a year shadowing adult officers in the Market Livestock Association to learn about parliamentary procedure, committee operations, financial accountability and decision making, they serve as junior barn superintendents during fairweek and represent the 120+ youth members of the association at membership and executive board meetings.
The Charlevoix County 4-H Program currently has an enrollment of 1600 youth in 13 animal science 4-H clubs, 7 sports and fitness 4-H clubs and 8 county committees. These clubs and committees are supported by 296 adult and 68 youth volunteers. Health, food & nutrition, physical fitness, livestock, horse, crafts, visual arts, photography, animal and natural sciences, community service, citizenship, character education, shooting sports, financial literacy and outdoor education are just some of the current project areas that clubs offer.

Our 2016-2017 national recruitment campaign is titled “4-H Grows Here”. Through that campaign, we will be working on volunteer recruitment, the development of 4-H clubs in the northern part of the county, creation of a 4-H alumni data base and an increased enrollment of our 4-H members.

Annual Charlevoix County 4-H Fall Awards Banquet: The 4-H awards banquet is the membership recognition component of the county 4-H program. The event is held each October for all 4-H families. The Charlevoix County 4-H Council Youth board members are stepping up and leading the ceremony. Yearly membership medals, project certificates, and project pins (for outstanding achievement or growth in a specific project area) are presented to youth by each of their club leader(s). Leader and volunteer certificates and pins are awarded based on years of service to Charlevoix County 4-H as well. All 4-H leaders and volunteers are also presented with an appreciation gift as a thank you for all the hard work and dedication they give year round to Charlevoix County 4-H. Then a potluck dinner with a pig roast is shared and enjoyed by all. The highlight of the evening is the “Volunteer of the Year” award, which is presented to an adult volunteer who has been nominated by their peers for their outstanding contributions to the 4-H program during that year. Earlier in the month “4-H member of the Year” is awarded in conjunction with Farm Bureau of Charlevoix County at their annual meeting.
4-H Exploration Days: Exploration Days at MSU provides youth age 11-19 with the opportunity to experience life on a college campus. The 4-day event held in June each year gives over 2,500 4-H members a chance to live in the dorms, experience a college setting, and be self-directing and responsible for getting themselves where they need to be. This year, 32 youth and 4 adults attended from Charlevoix County, as part of a 55 member delegation from Emmet and Charlevoix counties. Participants traveled by charter bus, visited Michigan Adventure Park in Muskegon, MI, stayed on MSU campus and experienced dorm life, participated in classes and workshops, and other enrichment events. Some of the classes that Charlevoix County youth took part in included: disc golf, tyi-dye, K-9 search and rescue dogs, veterinary diagnosis, ice skating, self-defense, tie punching, shotgun shooting trap, goat milk soap making, pickle-ball, dog obedience, bakery days, and nature photography. The event is designed as a pre-college experience, and youth entering 8th-10th grades following their involvement at Exploration Days are eligible to apply for a $2,000.00 scholarship, which will be applied toward the student’s first year at MSU as a degree-seeking student.

Take A Day On!: Charlevoix County 4-H youth participate in 17th Annual community service learning project called TAKE A DAY ON! This is an event where youth get to take a day off of school and take a day on for an organization in their local community. The event this year was on Friday, May 12th at Melrose Township Park in Walloon Lake. We had 17 youth and 6 adults in attendance this year. The parks trail systems were in need of improvement so the youth raked all the trails, picked up trash, and then spread woodchips over all the different pathways. The youth also cleaned up the lake front to get the beach ready for the summer season and cleaned the flower beds. The youth also collected flower to be planted in the park as a donation item to give back to the beautiful park.
Emmet-Charlevoix County Fair: This year-end event is held in mid August and is an opportunity for 4-H youth to showcase their projects. The 4-H projects are exhibited in the Community Center where clubs set up their booths to display the member’s projects as well as their club’s community service activities. Over 1,600 exhibits are on display in the Community Center and over 500 animal projects can be found in the many livestock barns. Members involved in animal projects are kept busy participating in the 10 horse shows, 15 livestock shows, 5 small animal shows, 2 dog agility classes, 2 exotic animal shows and the livestock auction.

In July and August, 4-H staff conduct five pre-fair orientations for 4-H families as they prepare for the fair. Families learn about everything from registration and paperwork procedures, arrival at the fair, camping opportunities, show day schedules, rules and requirements, as well as all of the non-competitive opportunities available for the youth. Non-competitive events are also offered for the Cloverbud members (age 5-8) and free-time events include scavenger hunts, and a 4-H dance sponsored by the fair board.

Over 30 teen leaders serve as mentors for the younger members as they serve on barn duty and offer showmanship clinics, and adult volunteers provide leadership as barn superintendents, show days clerks, announcers, award presenters, and overnight barn duty workers.

Sports and Fitness Clubs: Charlevoix County 4-H sports clubs use the Jump Into Food & Fitness (JIFF) curriculum, which adds nutrition education for the wide range of sports education to our local youth such as: spring soccer, summer soccer camps, fall soccer, travel soccer, sailing, sailing races, swimming, golf, and tennis. Adult and teen leaders have fun teaching the sport while tackling the serious business of teaching kids about healthy food choices and the importance of being physically active and how it pertains to the sport they are learning. The JIFF, research-based curriculum is designed for adults and older teens to use with kids aged 8 to 11 (grades 3 to 5). ‘Jiff the Joey’ sets the stage for each of the eight ‘Kangaroo Jumps’ or sessions in JIFF. Fun nutrition, physical fitness and food safety learning activities are integrated into the program, which uses the MyActivity Pyramid and the MyPyramid for Kids.
Ensuring Safe and Secure Food

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.

An important piece of our presence is helping small business owners provide safe food and food products to consumers. Most of our work in Charlevoix county has been Servsafe and Cottage Food Law. CFL provides both the food safety aspects of creating cottage foods to sell at farmer’s markets, as well as business planning advice. We have participants who are brand new to the idea of selling food, to people who have been doing it for a while and want to expand. Most of our Servsafe participants have been people opening new small businesses like deli’s or wineries that want to serve food. I feel like we’ve been a really good resource for beginning and small food businesses.
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, MSUE 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.

The Northern Michigan Counties Association is organized by MSUE Extension and incorporates commissioners from 34 counties in northern lower Michigan. The Association meets eight times per year to share information and learn from the experiences of others.

Building Strong Sovereign Nations: Anishinabek Leadership for Seven Generation: Good Governance Training is a leadership building program developed by MSU Extension in cooperation with leaders of Tribal Nations in Michigan and delivered annually in conjunction with the fall meeting of the United Tribes of Michigan, which was located at the Little River Casino Resort in Manistee, Michigan. The program is open to leaders from all Tribal Nations in Michigan and is also available to leadership and staff of individuals tribal nations. Onsite workshop are also available.

New County Commissioner Workshops were held at 7 locations in November and December of 2016. Participants included both new and experienced commissioners and other county officials, with 92% indicating that they found the program valuable for their professional (or personal) growth and development.

MSUE Tribal Extension Educator coordinated the spring LTBB constitutionally mandated Annual Community Meeting. This is a time for LTBB Citizens to engage with their elected and appointed official, participate in discussions, and to conduct official business as defined in the LTBB Constitution.
Business Counseling

During 2016, MSU Product Center staff counseled with 12 Charlevoix County farm and food businesses. 38 individual counseling sessions resulted in over 48 hours of contact. Across the 10 county NW MI region, the Emmet County based Product Center Business Counselor helped businesses who had the following regional impacts:

- 38 jobs created
- 8 jobs retained
- 11 business start-ups
- $750,000 + Owner investment
- $2.7 million+ Total Capital Invested

Classes in partnership with NCMC:

For the past 3 years, MSUE has been one of the collaborative partners that have been teaching and helping to facilitate classes held by Corporate and Community Education Department at North Central Michigan College. These are critical ways for local entrepreneurs to deepen their expertise in food and farming topics. Results have been:

- 70+ classes held
- 1,200+ students attended workshops, classes and other educational offerings
Keeping People Healthy

Teaching Valuable Healthy-Eating

MSU Extension serves 2200 children and families weekly in Northern Michigan through a partnership with Manna Food Project. As part of the backpack programs of food distributed for the weekends, children and families receive recipes, resources and information to make a healthier choice an easier choice.

The program was recognized by the Michigan Extension Association of Family and Consumer Sciences at their summer meeting with the state award for newsletters.

HOOPHOUSES for HEALTH

In partnership with Michigan Farm Market Association and the Health Department of Northwest Michigan:

• $16 per month per family member beginning Sept. 2016 through December 2017
• Economic stimulus of approximately $13,056 in voucher distribution
• Redemption rate of greater than 85%

Grew in 2017 from 4 growers participating to 6 farms: Pond Hill Farm, Bear Creek Organic, Dayspring, Coveyou, BlueStem Farm and Providence Farm.

41 families in Emmet and Charlevoix counties receive vouchers to use with these farmers at the Boyne City Farm Market each month (year round).

Encouraging 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.
SNAP-Education (SNAP)

MSU Extension’s SNAP Education (SNAP-Ed) programs including Cooking Matters, Eat Healthy. Be Active, Jump Into Foods and Fitness, Healthy Harvest, Healthy Eating Adds Up and Show Me Nutrition teach Bridge Card eligible adults and children how to make the most of their food dollars developing skills such as menu planning understanding recipes food preparation and keeping food safe.

Between June 2016 and June 2017, MSU Extension SNAP-Ed programs were presented to 417 adults and youth in Charlevoix County!

- Senior MarketFresh Charlevoix Commission on Aging at East Jordan, Charlevoix, and Boyne City
- East Jordan Camp EJ
- Char-em ISD Taylor School Cognitively Impaired teen and adult classes

Youth toured East Jordan Farm Market meeting growers, asking questions and learning about their businesses. We then took ingredients back to the school to make and taste hummus one week and smoothies the next.
Disease Prevention and Management
(Impact Statement)

It is estimated that the state can save $545 million spent across all chronic diseases by investing $10 in preventive care per person per year. Your support of MSU Extension benefits participants and the community by moderating the increase in healthcare costs associated with caring for a growing population of people with diabetes and other chronic health conditions.

Michigan State University Extension disease prevention and management programs provide participants with strategies to improve the quality of their diets, manage chronic health conditions and reduce their risk of type 2 diabetes. Access to high-quality and affordable disease prevention and management education programs such as those that MSU Extension provides is essential to saving lives, reducing disabilities and lowering the costs of everyone's medical care. Since 2013, MSU Extension disease prevention and management programming has reached almost 8,500 Michigan residents.

Classes Programed in 2016/2017:

Dining with Diabetes

Participants in MSU Extension's Dining with Diabetes course learn how to prepare healthy meals and the importance of diet and exercise. They also gain tools for managing diabetes. The program offers opportunities to sample a variety of healthy foods and take home recipes to further encourage behavior change. As a result of the program:

- 90 percent can correctly report which nutrients provide glucose for the body.
- 92 percent know which foods contain carbohydrates.
- 73 percent are confident they can eat meals every 4 to 5 hours every day, including breakfast.
- 76 percent are confident they can follow their diet when having to prepare or share food with other people who do not have diabetes.

One Dining with Diabetes in East Jordan
One Dining with Diabetes Presentation at Charlevoix Wellness Center
MSU Extension’s Personal Action Toward Health (PATH) program equips participants to face the daily challenges of living with one or more chronic conditions.

Personal Action Toward Health –PATH

Highlights of program results are:

One-third of participants reported an improved health status at the end of the program.

- 53 percent of participants ended the program with decreased symptoms of fatigue, and 49 percent reported decreased pain symptoms.
- 51 percent decreased their fearfulness about their future health by using strategies taught in PATH

One Diabetes PATH Program in East Jordan
Two Presentations on PATH Programs at the Charlevoix Wellness Center

Matter of Balance:

MOB is designed to help seniors stay in place by offering safe exercises to develop balance along with safety in the home.

One Class in East Jordan

The National Diabetes Prevention Program:

MSU Extension has been granted recognition from the Centers for Disease Control and Prevention (CDC) for its delivery of the National Diabetes Prevention Program. Full recognition by the CDC is based on participant weight loss, physical activity, attendance and eligibility for the program.

This lifestyle change program shows that making modest behavior changes, such as improving food choices and increasing physical activity to at least 150 minutes per week, results in participants losing 5 percent to 7 percent of their body weight.

These lifestyle changes reduce the risk of developing type 2 diabetes by 58 percent in people at high risk for diabetes.
Social and Emotional Health (Impact Statement)

The United States spends an estimated $425 billion in direct and indirect costs of violence each year. The cost of youth violence in the United States has been estimated at $158 billion annually. Your support of MSU Extension social-emotional programs aimed at bullying and violence prevention allows participants to learn safer and healthier ways to interact with others. This benefits community members by decreasing the mental, emotional, social and economic costs associated with violence in communities.

The state’s $56.6 million investment in MSU Extension and MSU AgBioResearch generated more than $1 billion for Michigan residents in 2015-16. Every dollar the state invested in MSU Extension and MSU AgBioResearch leveraged an additional $2.59 in federal funds and external contracts, grants and other revenues to serve Michigan residents for a benefit/cost ratio of 18:1.

Classes Programed in 2016/2017:

**Stress Less with Mindfulness** introduces participants to the experience and practice of mindfulness to reduce stress. Mindfulness can be defined as paying attention in a particular way: on purpose, in the present moment and non-judgmentally. As a result of the training, participants showed improvement on these key outcomes:

- 78 percent can describe how a mindfulness perspective changes reactions to daily stressors.
- 75 percent use mindful awareness when eating.
- 74 percent know three mindfulness tools to help them.

Facilitated Programming:

Meredith Manner
East Jordan, MI
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 Sea Grant Extension

- Michigan Sea Grant Extension presented at the annual Michigan Harbormasters meeting held in the new City of Boyne City commission chambers in October 2017. Presentations were made on the Michigan Clean Marina Program and the Sustainable Small Harbors project to over 40 harbor communities.
Supporting Food and Agriculture

Michigan agriculture continues to be a diverse and thriving segment of the state’s economy. When you support MSU Extension, you help producers develop efficient farming practices that optimize the use of inputs to enhance productivity while protecting soil and water resources. This education leads to better use of time, money and human capital, which helps retain and create agricultural jobs. Together, these measures strengthen Michigan’s economy, encouraging growth of a sustainable and prosperous Michigan food and agriculture system.

**Small Farm Conference** - MSUE staff assisted in the planning the 18th annual Northern Michigan Small Farms Conference at the Grand Traverse Resort, held on January 27 & 28, 2017. Of the 944 participants, 22 attendees were from Charlevoix County. Many staff members from MSU and MSU Extension participated by teaching workshop sessions, staffing educational booths or by supporting students from both Campus and Distance MSU programs in order for them to attend Michigan’s premier small farm conference.

**Local Food Alliance** - MSUE staff continues to work as a part of this Community Coalition that works to catalyze food system change and to create new and better markets for those working in local agriculture. 2016 success stories include:

- Assisting Farm-to-School efforts at Boyne Falls Public Schools by coordinating placement of their first AmeriCorps FoodCorps Service Member as an integral part of both classroom and lunchroom activities.
- An expansion of Local Food Alliance’s reach into Charlevoix County with “Friendraisers” in the fall of 2016 and with monthly potlucks held in Boyne City and Charlevoix.
- Continuing efforts to educate the public regarding the importance of buying local at events including the naming of Nathan Bates, Food Service Director at Boyne Falls Public School, as a 2016 Local Food Hero.
- Support of new and existing area Farmers’ Markets and vendors in Boyne City, Charlevoix and East Jordan.
Supporting Food and Agriculture, continued

Partnership with Groundwork - in order to maximize area initiatives and to help meet increasing demand from businesses wishing to source food locally, the Local Food Alliance partnered with Groundwork Center for Resilient Communities to develop a new staff position and a Petoskey-based office. MSUE staff played a pivotal role in the process, engaging community members, businesses, educational entities, who, with the support of the Charlevoix County Community Foundation and other local donors, created a position that would meet the needs of the “Northern Farms Foodshed.” MSUE staff works closely with Jen Schapp, Groundwork’s new Petoskey staff person.

On-farm research and outreach

On-farm research and outreach bring locally relevant research-based information directly to producers. During the 2016 growing season, MSU Extension Presque Isle Co. collaborated with colleagues, industry partners and growers to complete eleven on-farm research projects investigating crop varieties and management practices that may improve the productivity and sustainability of crop production on Northeast MI farms. In order to share information regarding these projects, eight local outreach events were organized including field days and meetings reaching a total of 243 growers and other stakeholders. In addition, 21 articles were published on the MSU Extension website, through local media outlets and our Northern Farm and Field Newsletter reaching over 580 contacts on a bimonthly basis.

Notable findings/outcomes of these research projects have included the following:

- A sulfur fertility study showed that growers can increase hay yields and net income by as much as one ton and $81 per acre by applying gypsum to sulfur deficient stands.
- A second year of malting barley variety trials showed that environmental conditions in Northeast MI are exceptional for producing high quality malting barley for the craft brewing sector.
- Three site years of wheat trials showed that growers can reduce fertilizer and pesticide inputs without significantly reducing wheat yields, increasing net income by as much as $76 per acre.
- 78% of producers attending our 2016 Northeast MI On-farm Research Review reported that they intend to change their management practices based on the research results received, which they expect to generate an average of $14 per acre in savings or added revenue, or $38,635 total, during 2017.

Stripe rust infested wheat across Michigan in 2016. Resources from MSU Extension helped growers learn how to manage this new fungal disease.
Supporting Food and Agriculture, continued

Wildlife damage management
Since 2013, MSU Extension Presque Isle Co. has partnered with wildlife management agencies, producers and other stakeholders to address the technically and socially complex issue of wildlife damage in Michigan agriculture (crop depredation and bovine tuberculosis (TB)). Conover (2002) estimated that wildlife-related economic losses to farmers and ranchers in the United States exceed $4.5 billion annually. Exclusion research conducted by MSU Extension found that soybean yield loss to white-tailed deer feeding in Presque Isle Co. averaged 10% or 3.89 bushels per acre in 2015, with a farm gate economic impact of -$307,388. A combination of education, technical and financial assistance is needed to address wildlife damage. In 2016, MSU Extension’s efforts were expanded in the following ways:

- $100,000 was distributed through two DNR grant programs funding 31 habitat modification projects with the goal of reducing transmission of bovine TB and crop damage caused by deer in Northeast MI.
- 18 beef cattle and dairy farms in the bovine TB zone (DMU 452) were assessed by teams of public agency staff, including MSU Extension, under the new Enhanced Wildlife Risk Mitigation program to identify and prioritize potential TB risks that can be addressed with management changes, supported by $1 million in government cost share funding, pending approval.
- Wildlife damage management sessions were offered at Michigan’s three premier producer conferences in 2016-17 reaching a total of 142 participants, of which 63% rated wildlife damage as important or critically important, and 83% reported learning something new about wildlife damage management to apply on their farm.

Field crops webinar series
In 2016, MSU Extension Presque Isle Co. offered six one-hour webinars as part of the fourth annual Field Crops Webinar Series. The program was designed to share key production points from MSUE’s traditional winter meetings with underserved audiences that cannot not attend in-person programs due to geography, scheduling or ability. 110 individuals from 38 Michigan counties, five other states and Ontario participated in the program, resulting in 355 live webinar views.

- Evaluation of this program revealed that at least 9,921 acres of field crops and forage were exposed to practices that mitigate risk, increase yield, improve quality, or decrease inputs as a result of the series, generating a total of $46,650 in savings or added revenue during 2016.
- This program is one of very few opportunities for certified pesticide applicators to earn MDARD recertification credits online, and participants earned a total of 229 credits by participating in the series.
- One participant commented, “I’m an honorably discharged veteran of the United States Armed Forces and have an ADA-protected disability. With a day job and a disability, these webinars make the information of Michigan State University more accessible to me.”
### Extension Educators Serving Charlevoix County

#### Staff Located in Charlevoix County Office:

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