

## MSU TOLLGATE 2018 ANNUAL REPORT





### **MSU Tollgate Statement of Purpose**

MSU Tollgate provides non-formal learning opportunities for children, families, and adults, offering the unique opportunity to experience agriculture hands-on in an urban environment.

#### **MSU Extension Mission**

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

### What is Extension?

Michigan State University (MSU) Extension helps people improve their lives by bringing the vast knowledge resources of MSU directly to individuals, communities, and businesses. For more than 100 years, MSU Extension has helped grow Michigan's economy by equipping Michigan residents with the information that they need to do their jobs better, raise healthy and safe families, build their communities, and empower our children to dream of a successful future.

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### Dear Friends.

Welcome to MSU Tollgate! We have experienced a wonderful 2018 full of new activities, expanded offerings, and an increased footprint in our local community. I hope as you read the 2018 annual report, you find something inspiring or unique about the happenings here. Looking back on the last year, we have had some remarkable accomplishments, which are a direct testament to the support of you, our valued stakeholders.

MSU Tollgate Farm is a special place that brings together a community of passionate and responsible stewards of our agricultural community. Our goal is to serve the needs of our community through programming that uses research to address relevant issues. Each day we embark on an educational journey exploring the forest, fields, pond, and open spaces. Whether it is with a group of young people, teachers, or families, we strive to bring the knowledge from MSU to you in a way that is engaging, exciting, and impactful.

Thank you for being a part of the MSU Tollgate community. As we grow our program offerings to foster awareness and understanding of the natural world, from healthy and sustainable food systems to protection of our precious resources, I hope that you will continue to support this important work.

### Mike Mathis

Director - MSUE Tollgate Farm and Education Center

Field Trips	10
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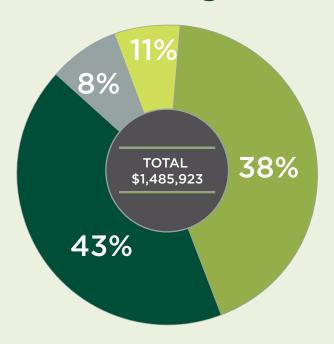


### SUCCESS BY MICHIGAN STATE | Extension THE NUMBERS

### Volunteering

Program	Number of Volunteers	Total Hours	Value
Teen Stewards	82	6800	\$167,892
Garden and Maple Sugaring	240	3860	\$95,303
4-H Club	55	2050	\$50,615
Pumpkinfest	153	1232	\$30,418
Sustainable Agriculture	4	200	\$4,938
Pancake Feast	23	140	\$3,457
Early Childhood	2	40	\$988
Totals	559	14322	\$353,610

### **2018 MSU Tollgate Funding**



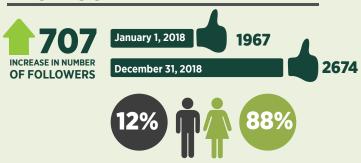
Initiative	Attendance
Earned Revenue	\$568,222
MSU Extension	\$641,825
Americana Foundation	\$119,100
Other Donations	\$156,776
Total	\$1,485,923

#### Visitation

Initiative	Attendance
School Field Trips	6836
Conference Center Rentals	4528
Off-site Community Events	3000
Pumpkinfest	2350
Garden Volunteer Gatherings	1365
Early Childhood Education	760
Day Camps and Camp Stewards	644
Pancake Feast	448
Plant Sales and Garden Open House	625
Evenings in the Garden	363
Pumpkinfest/Pancake Feast Volunteers	296
Sustainable Agriculture Programs	250
Other Lectures, Tours, Events	469
Total	21,934

## **Social Media and Website Statistics**

### **FACEBOOK**



### **MSU TOLLGATE WEBSITE 2018**



## MSU TOLLGATE GARDEN: VOLUNTEERS

An important feature of MSU Tollgate is its collection of beautiful teaching gardens. The horticulture gardens on the farm contain twenty separate gardens, each featuring a unique theme, such as roses, hostas, plants that grow well in dry conditions, a waterside garden, and many others. All of Tollgate's gardens are maintained and funded by a dedicated group of volunteers: The Tollgate Garden Volunteer organization. The MSU Extension Master Gardener program is an essential component of the

MSU Tollgate volunteer organization. Although it is not required that Tollgate volunteers be a graduate of the Master Gardener program, most of Tollgate's volunteers have received excellent training through this educational program.

Tollgate would not be the special place that it is without the hard work and dedication of our many garden volunteers.



### **VOLUNTEER SPOTLIGHT - RENEE COTTRELL**

Renee has been the president of the MSU Tollgate garden volunteer organization for many years. She brings a love of horticulture, an organized mind, and a caring personality to her role at MSU Tollgate. She manages monthly executive meetings as well as general membership meetings. Renee not only administers work in the gardens, she is willing to get her hands dirty as well. She establishes and tends many gardens on the site. Renee also uses her love and knowledge of horticulture to mentor other garden volunteers. The horticulture gardens at MSU Tollgate are a tremendous resource for all. They would not be the same without Renee's guidance.







The MSU Tollgate system boils down over 4000 gallons of sap each year to produce over 100 gallons of syrup. Visitors get to see the entire process as it happens.

The maple syrup project at MSU Tollgate is a cooperative effort between a dedicated group of volunteers and a devoted and enthusiastic educational staff. The volunteers work hard all year to repair lines, tap trees, collect sap, and run the evaporator. The production effort of the volunteers frees the educational staff to do what they do best: teach. Groups visiting the forty acre MSU Tollgate woods have the opportunity to experience a guided learning event led by facilitators who have significant knowledge of the syrup making process.

### **MAPLE SYRUP PRODUCTION**

One of the big differences between the maple syrup educational program at Tollgate and educational efforts at other facilities is that the Tollgate program starts with a syrup production facility. Rather than tapping a few trees as might be seen at some nature centers, visitors to MSU Tollgate get to see what a real production syrup operation looks like: 100's of trees tapped, tubing to collect the sap, a small commercial evaporator and a reverse osmosis machine.

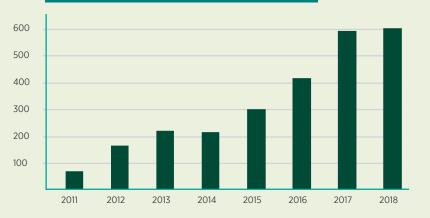




Most of MSU Tollgate's instructors have been teaching visitors the wonder of making maple syrup for several years. They excel at introducing visitors to the process and rich history of syrup production. In February and March, when not much else is happening in Michigan agricultural, it is a great time to head to the woods to see how one of Michigan's premier woodland products is made. Close to the people of SE Michigan, MSU Tollgate is a great place to experience maple syrup making at its best!



#### **SUMMER CAMP PARTICIPATION**



### **SUMMER CAMPS**

Every day at MSU Tollgate Summer Camp is an exciting adventure with a different theme. A typical day includes making nutritious snacks in Garden Kitchen, caring for our farm animals, sowing seeds in the garden, engaging in a creative week-long STEM project, and investigating the natural world of field, forest, and pond. Camp takes place during a total of nine weeks of camp and thirteen week-long themed sessions. Themes for this year included Green Science Adventure, Survival, Winged Wonders, Eco-Warrior, Water, Bug, Horse, Food, and Animal Camps.













# SUMMER CAMPS AND STEWARDS

#### **TEEN LEADERS AT MSU TOLLGATE FARM CAMP**

80

12-19 YEAR OLDS

20-24

TEEN HELPERS PER WEEK

**30** 

30 YOUTH SERVING 3 OR MORE WEEKS

8

CAREER EXPLORATION
AND PERSONAL
DEVELOPMENT SESSIONS

Over 80 teens participated in MSU Tollgate's Stewards Program in 2018. These individuals serve on our education team as mentors for our young campers. Stewards and Stewards-in-Training share their own individual gifts, interests, and skills with the MSU Tollgate community in an engaging camp environment. Opportunities for personal growth and community service abound for these young

leaders as they soothe a hurt child, help campers cook, shoot archery, lead songs and games, forage for wild edibles, build fires, care for farm animals, and much more. Stewards and stewards-in-training help create a safe and inclusive learning place for campers in the farm's various habitats - forest, field, pond, and farmyard!



## EARLY CHILDHOOD EDUCATION

The Farm Sprouts Preschool Program offers young children, ages 3-5 years old, with the opportunity to learn through meaningful experiences in the winter, spring, and fall. Each season, children's interests help guide the learning. The first-ever maple sugaring season provided young children with the opportunity to work alongside our maple sugaring volunteers, tapping sugar maple trees, watching the steam rise as the sap thickened to syrup, and tasting the sticky sweet product on pancakes they helped make from scratch through both the program and a special event, the Maple Sugaring Pre-K Soirée. In the spring, children observed bees collecting pollen and buzzing the hives, peeked inside at the frames, and worked as pretend beekeepers thanks to donations from our program families. Lastly, during the fall season, children's fascination with maps led them to investigate the migration of monarch butterflies as they wondered at the ways both people and animals navigate the world.

### **PROGRAM NUMBERS**

Story Hour: **342** 

Parent and Children Visits

Pre-K Soirée: **158** 

Adults and Children

### **Farm Sprouts Children Participants:**

31

**62** 

53

Maple Sugaring Season

Spring Season

Fall Season









"Before, he would definitely hang back and watch and then go into the group... Now I feel he's got more confident to be with kids and he seems to play really well with other kids."

99

"This has totally built up her confidence in a lot of ways... She's just really comfortable with herself, with asking questions."

95

"He's more likely to not wait for me to come out with him. He'll just go make it happen. Like, 'Mom are you up yet? Because I'm going outside."

99

"She's always had [an interest in nature], and I think it tapped into something she was interested in and had it not been for Farm Sprouts we wouldn't have been able to cultivate that interest as much."

99

"My daughter now asks to cook at home with kale and other vegetables we would never have eaten before.""

## SUSTAINABLE AGRICULTURE

### SUSTAINABLE AGRICULTURE APPRENTICESHIP

In its third year, the apprenticeship program saw two new apprentices spend the season at MSU Tollgate to immerse themselves in an intensive 22-week agricultural training program. Joined by a returning apprentice serving as the field manager, and managed by the sustainable agriculture instructor, Will Jaquinde, the apprentices learn through doing, taking on all aspects of the 3-acre vegetable production. The program also develops apprentices' conceptual and business skills through weekly readings, discussion and frequent tours of area farms and food businesses.

### COMMUNITY SUPPORTED AGRICULTURE PROGRAM

The community supported agriculture (CSA) program at MSU Tollgate flourished in its 6th year! 124 members invested in the farm before the beginning of the season and received a share of the production's bounty for 20 weeks during the growing season. Additionally, 55 members stayed on for the program's first ever Fall CSA, a 6-week program that extended the growing season to half of the year. CSA members, who also attend regular tours and potlucks, are central to our mission of promoting agricultural education through growing healthy food.

### **BEGINNING FARM INCUBATOR**

The incubator program's mission is to reduce some of the largest barriers to entering agriculture for beginning farmers. By providing access to land, infrastructure and machinery at a reasonable rate the incubator makes it possible for farmers to start their business without taking on significant debt, allowing the entrepreneur to develop their business and skills. The first 'incubatee' is from the first cohort of sustainable agriculture apprentices, Gwen Schaller. Root to Rise Farm was able to realize a profit in its first season of operation by selling at farmers markets and developing a local workplace CSA with the assistance of MSU Extension. Root to Rise will return to incubate on site in 2019, taking on more land to grow the business!







## SCHOOL TO FARM FIELD TRIPS

MSU Tollgate Farm continues to partner with local schools to provide students with innovative experiential science learning. Recently, MSU Tollgate staff worked closely with area schools to customize several new inquiry-based programs to inspire deep connections to the farm and the natural world.

MSU Tollgate's programs are designed to inspire learning and to align with the new Michigan Science Standards. Built on the national Next Generation Science Standards, they emphasize not only what students are to know about science, but also what they are able to do with science.

Tollgate programs incorporate science and engineering practices that students should be able to demonstrate at sequential stages in their K-12 education. One important emphasis is on integrating science content with application. By presenting students with real world challenges and guiding them through awareness, understanding, and action, children investigate phenomena, record and analyze data, make models, and draw inferences through their explorations in the natural world.

"My class loved the watershed activity and couldn't stop talking about the connections they made during that activity."

- Angelina Lowe, 2nd grade teacher, Lanigan Elementary



"The feedback I received was nothing short of stunning. We are incredibly grateful for the hard work of the talented staff at Tollgate."

- RJ Webber, Assistant Superintendent for Academic Services Novi Community Schools

Visits to MSU Tollgate foster these outcomes and bridge multiple disciplines using crosscutting concepts. Students are allowed to connect their farm experience with different aspects of their classroom learning and to deepen their understanding of core ideas observed in the farm environment. Newly piloted Tollgate programs include the special Trees, Trees, Trees designed in collaboration with Novi school leaders and teachers for twenty-two kindergarten classes. Other new programs include Water and Land; Ecosystems Explorations; and Weather and Animal Adaptations which were crafted in partnership with Lanigan Elementary School.





#### **REFUGEE GROUP**

A group of recent Syrian and Iraqi

refugee families had a focused visit to MSU Tollgate in May. We took to the woods to learn about maple sugaring and then toured the animal barns for questions and answers about the Toggenburg kid goats and the chicks and chickens. We follow this up with a fun potluck lunch in MSU Tollgate's historic barn.

### **FINANCIAL AID**

FINANCIAL AID COMMITTEE MEMBERS INCLUDE

Kurt Westermann Susan Walters-Klenke

Kathy Zhong
Patrice Johnson

### **2018 TOLLGATE FINANCIAL AID GIVING**

Program	Amount
School Field Trips	\$8,018
Camps	\$1,010
Farm Sprouts	\$1,269
Adult Programs	\$130
Total	\$10,427*

\*The Americana Foundation contributed \$5,000, our Giving Tuesday Campaign contributed \$2,770, and Pumpkinfest contributed \$2,700.

The team at MSU Tollgate Farm is committed to providing affordable opportunities to our many program participants. This is made possible because of the generous support of the Americana Foundation, individual donors, and attendees of our annual Pumpkinfest. A core group of volunteers give their personal time to support a Financial Aid committee to lead the distribution of financial aid. The committee develops standards for disbursing aid and determines the amount of aid per application. Thank you to our committee members!

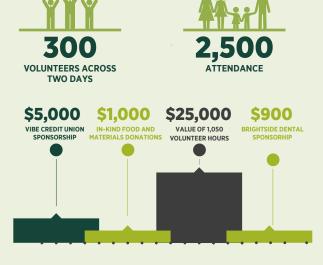
Americana Foundation





### **MSU TOLLGATE FARM PUMPKINFEST**

At MSU's Tollgate Farm Pumpinfest, the pumpkin is front and center. Educational and enjoyable, Pumpkinfest 2018 drew over 2,500 adults and children despite a rainy weekend. Many of these hardy individuals visited the farm for the first time to learn about the pumpkin, local agriculture, and where their food comes from. Educational exhibits encompassed the apple and cider pressing, livestock, beekeeping, and entomology. Children's activities, library story time, and live music rounded out the fun and learning for everyone. Proceeds from Pumpkinfest benefit educational programming and help MSU Tollgate assist struggling schools and families who otherwise are unable to attend MSU Tollgate programs throughout the year.





**Bright Side Dental** & Orthodontics

### MAPLE TAPPING AND PANCAKE FEAST

A visit to the 2018 MSU Tollgate Maple Tapping and Pancake Feast began with warm pancakes topped with delicious MSU Tollgate maple syrup. After filling up, visitors ventured outdoors to experience the science, technique, and history of maple sugaring, taking a wagon ride out to observe the evaporation process, helping to tap a maple tree, and visiting a French colonial and Native American sugaring camp.



VOLUNTEERS COOKED, SERVED FOOD, DIRECTED TRAFFIC, AND BOILED SAP



**448** 

ADULTS AND CHILDREN PARTICIPATE OVER 2 DAYS







## TOLLGATE FARM TO TABLE DINNER





Teff Rose, Michigan State University alumnus and CAYA Smokehouse Grill executive chef, was the lead chef at the Farm to Table Dinner.

difference

*michigan* 

On August
25th of 2018,
one hundred and
twenty-five guests
enjoyed the first Tollgate
Farm to Table Dinner. The
evening centered around

four guests chefs who volunteered

their time to support the farm. These individuals included Alan Mehar of Compass Group Detroit, Jay Gundy of Red Dunn Kitchen, Chris Johnson of Meeting House, and the lead chef, Jeff Rose of CAYA Smokehouse and Grill. Each one of the chefs prepared a passed appetizer and one of the four dinner courses. Taste the Local Difference considered the event a "Certified Local Event" because over 90% of the ingredients for the dinner were sourced from Tollgate or within 50-miles of Tollgate. At the dinner the guests had the opportunity to tour the farm and learn about the many ways that they can support local farmers. Additionally, Drafting Table Brewing Company and Sandhill Crane Vineyards showed their support for our efforts by sponsoring the event. The dinner raised over \$5,000 that has gone to funding an Americorp volunteer to lead low-cost 4-H Special Interest Club programming.



EAT. DRINK. READ. THINK.

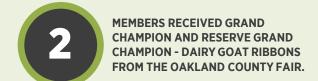


The accomplishments of the youth members of Tollgate Farm 4-H Club are a reflection of the hands-on opportunities available at Tollgate Farm, through 4-H. With membership at 45 youth, Tollgate Farm 4-H Club reflects the growing presence of 4-H at Tollgate Farm. These

kids participate in activities in Plant Science, Animal Science, Business and more. The results of these activities provides products for farm stand sales, funding further activities of the club. Some notable achievements include:

- Completing over 1400 hours of volunteer work at the farm, maintaining a vegetable garden, caring for livestock and poultry, participating in public events, such as Pancake Feast and Pumpkin Fest, at Tollgate Farm.
- Gathering seed packets from seed companies for distribution to over 40 school and community gardens
- Participation in workshops covering sheep & goat showmanship, horse care, vet science, beef/sheep/ swine & sewing
- Multiple youth submitting Plant Science projects to the Oakland County and Michigan State Fairs, one youth receiving an award for Oakland County Gardener of the year for the second year in a row.

Tollgate Farm 4-H Club sell vegetables, grown at the farm to support activities. The Club also produces products including goat milk soap, granola, eggs and fruit leather. Activities build knowledge and life skills - team work, problem solving, goal setting and more!

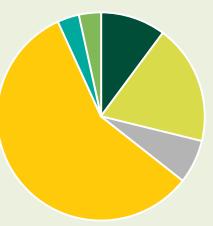




YOUTH RECEIVED URBAN FARMING SCHOLARSHIPS THROUGH THE MICHIGAN STATE FAIR

### **TOLLGATE ANIMALS**

Goats	6	
Sheep	11	
Horses	4	/
Chickens	34	
Rabbits	2	
Ducks	2	









### **SAKURA GARDEN GRAND OPENING**

"Hanami" is the centuries-old Japanese practice of picnicking under a blooming Sakura cherry tree. In September, MSU Tollgate celebrated an addition to its gardens. In a cooperative project between Michigan State University, Oakland County, the City of Novi, the State of Michigan and Michigan's Japanese business community, a new ornamental cherry orchard was established. Dignitaries, including Novi mayor, Bob Gatt, MSU Extension Director, Jeff Dwyer, Oakland County Executive, L. Brooks Patterson, and Michigan Governor, Rick Snyder all helped to make the day special. The Planting includes seventeen ornamental Japanese cherry trees and a Japanese themed structure and trellis. MSU Tollgate looks forward to many future celebrations of the spring cherry blossom season.

From left: Robert Gatt, Mayor of Novi; L. Brooks Patterson, Oakland County Executive; Taizo Mikazuki, Governor, Shiga Prefecture, Japan; Rick Snyder, Governor, State of Michigan; Dr. Jeff Dwyer, Director, Michigan State University Extension; and Mitsuhiro Wada, Consul General of Japan. Photo by Vaughn Gurganian.

### **SAKURA GARDEN DONORS**

- Daifuku North America Holding Company
- Deloitte & Touche LLP
- Hitachi Automotive Systems Americas, Inc
- KIP America
- L. Brooks Patterson

- NGK Sparkplugs, Inc.
- NHK International
- Nissan Technical Center, North America
- State of Michigan (MEDC)
- Toyoda Americas Corporation
- Toyoda Gosei North America
  Corporation
- Toyota Boshoku America
- Toyota Industries Electric
   Systems North America
- Toyota Tsusho America, Inc







### **MSU EXTENSION STAFF LOCATED AT MSU TOLLGATE**

Bonnie Mottaghi Education & Events Assistant 248-347-3860 ext. 200 mottaghi@msu.edu Bridget Lis Educational Leader 248-347-3860 ext. 230 larmb@msu.edu Brooke Larm Early Childhood Instructor 248-347-3860 ext. 230 larmb@msu.edu Carmen Hamilton Educational Leader 248-347-3860 ext. 230 larmb@msu.edu Darby Anderson Field Manager 248-347-3860 ext. 229 ande2010@msu.edu Deanna Wagner Agricultural Laborer 248-347-3860 ext. 211 wagne288@msu.edu Debie Morgan 4-H Program Coordinator 248-347-3860 ext. 219 morgal94@msu.edu Debirde Hope Program Instructor 248-347-3860 ext. 218 hopedeiri@msu.edu Edd Scott Director - District 11 248-347-3860 ext. 233 escott3@msu.edu Ellen Koehler Education Coordinator 248-347-3860 ext. 227 koehle43@msu.edu Garrett Owen Horticulture Outreach Specialist 248-347-3860 ext. 202 wgowen@msu.edu Gary Goodridge Educational Leader 248-347-3860 ext. 202 wgowen@msu.edu Gary Goodridge Educational Leader 248-347-3860 ext. 202 wgowen@msu.edu Marilyn Diekman Educational Leader 248-347-3860 ext. 205 heughen3@msu.edu Marilyn Diekman Educational Leader 248-347-3860 ext. 205 heughen3@msu.edu Mary Wilson Consumer Horticulture Educator 248-347-3860 ext. 207 wilsonml@msu.edu Mary Wilson Consumer Horticulture Educator 248-347-3860 ext. 219 wilsonml@msu.edu Melanie Connors Educational Leader 248-347-3860 ext. 219 wilsonml@msu.edu Melanie Connors Educational Leader 248-347-3860 ext. 211 leppane3@msu.edu Mike Mathis MSU Tollgate Director 248-347-3860 ext. 211 leppane3@msu.edu Norb Leppanen Operations Technician 248-347-3860 ext. 211 leppane3@msu.edu Pat Dalter Educational Leader 248-347-3860 ext. 211 leppane3@msu.edu Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 211 leppane3@msu.edu Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 211 leppane3@msu.edu Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 211 prenticl@msu.edu Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 251 prenticl@msu.edu Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 25	Name	Role	Phone	Email
Bridget Lis Educational Leader 248-347-3860 carrbril@msu.edu Brooke Larm Early Childhood Instructor 248-347-3860 ext. 230 larmb@msu.edu Darby Anderson Field Manager 248-347-3860 ext. 229 ande2010@msu.edu Deanna Wagner Agricultural Laborer 248-347-3860 ext. 211 wagne288@msu.edu Debbie Morgan 4-H Program Coordinator 248-347-3860 ext. 219 morgal94@msu.edu Deirdre Hope Program Instructor 248-347-3860 ext. 218 hopedeir@msu.edu Deirdre Hope Program Instructor 248-347-3860 ext. 218 hopedeir@msu.edu Deirdre Hope Program Instructor 248-347-3860 ext. 233 escott3@msu.edu Ellen Koehler Education Coordinator 248-347-3860 ext. 227 koehle43@msu.edu Garrett Owen Horticulture Outreach Specialist 248-347-3860 ext. 202 wgowen@msu.edu Gary Goodridge Educational Leader 248-347-3860 goodridl@msu.edu Jenny Speyer Educational Leader 248-347-3860 ext. 205 heughen3@msu.edu Marilyn Diekman Educational Leader 248-347-3860 ext. 205 heughen3@msu.edu Marilyn Diekman Educational Leader 248-347-3860 ext. 219 wilsonml@msu.edu Mary Wilson Consumer Horticulture Educator 248-347-3860 ext. 219 wilsonml@msu.edu Melanie Connors Educational Leader 248-347-3860 ext. 219 wilsonml@msu.edu Mike Mathis MSU Tollgate Director 248-347-3860 ext. 219 wilsonml@msu.edu Mike Mathis MSU Tollgate Director 248-347-3860 ext. 211 leppane3@msu.edu Mike Mathis MSU Tollgate Director 248-347-3860 ext. 211 leppane3@msu.edu Pat Dalter Educational Leader 248-347-3860 ext. 211 leppane3@msu.edu Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 209 moranral@msu.edu Roy Novara Educational Leader 248-347-3860 ext. 209 moranral@msu.edu Roy Novara Educational Leader 248-347-3860 ext. 251 prenticl@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prenticl@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prenticl@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prenticl@msu.edu Deat Dalter 248-347-38	Bill Eisenman	Educational Leader	248-347-3860	eisenm11@msu.edu
Brooke Larm Early Childhood Instructor 248-347-3860 ext. 230 larmb@msu.edu Carmen Hamilton Educational Leader 248-347-3860 ext. 229 ande2010@msu.edu Darby Anderson Field Manager Agricultural Laborer 248-347-3860 ext. 221 wagne288@msu.edu Deanna Wagner Agricultural Laborer 248-347-3860 ext. 211 wagne288@msu.edu Debbie Morgan 4-H Program Coordinator 248-347-3860 ext. 218 hopedeir@msu.edu Deirdre Hope Program Instructor 248-347-3860 ext. 218 hopedeir@msu.edu Deirdre Hope Ed Scott Director - District 11 248-347-3860 ext. 227 koehle43@msu.edu Ellen Koehler Education Coordinator 248-347-3860 ext. 227 koehle43@msu.edu Garrett Owen Horticulture Outreach Specialist 248-347-3860 ext. 202 wgowen@msu.edu Gary Goodridge Educational Leader 248-347-3860 ext. 202 wgowen@msu.edu Jenny Speyer Educational Leader 248-347-3860 ext. 205 heughen3@msu.edu Marilyn Diekman Educational Leader 248-347-3860 ext. 205 heughen3@msu.edu Marilyn Diekman Educational Leader 248-347-3860 ext. 209 wilsonmi@msu.edu Melanie Connors Educational Leader 248-347-3860 ext. 219 wilsonmi@msu.edu Melanie Connors Educational Leader 248-347-3860 ext. 219 wilsonmi@msu.edu Mike Mathis MSU Tollgate Director 248-347-3860 ext. 219 mrahismi@msu.edu Mike Mathis MSU Tollgate Director 248-347-3860 ext. 211 leppane3@msu.edu Pat Dalter Educational Leader 248-347-3860 ext. 211 leppane3@msu.edu Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 210 moranal@msu.edu Roy Novara Educational Leader 248-347-3860 ext. 210 prenticl@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prenticl@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prenticl@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 224 stokess4@msu.edu Sara Mund Day Camp Coordinator 248-347-3860 ext. 224 stokess4@msu.edu	Bonnie Mottaghi	Education & Events Assistant	248-347-3860 ext. 200	mottagh1@msu.edu
Carmen Hamilton Educational Leader 248-347-3860 hamil466@msu.edu Darby Anderson Field Manager 248-347-3860 ext. 229 ande2010@msu.edu Deanna Wagner Agricultural Laborer 248-347-3860 ext. 211 wagne288@msu.edu Debbie Morgan 4-H Program Coordinator 248-347-3860 ext. 279 morga194@msu.edu Deirdre Hope Program Instructor 248-347-3860 ext. 218 hopedeir@msu.edu Deirdre Hope Program Instructor 248-347-3860 ext. 218 hopedeir@msu.edu Deirdre Hope Program Instructor 248-347-3860 ext. 233 escott3@msu.edu Ed Scott Director - District 11 248-347-3860 ext. 223 escott3@msu.edu Ed Scott Wagner Education Coordinator 248-347-3860 ext. 202 wgowen@msu.edu Garrett Owen Horticulture Outreach Specialist 248-347-3860 ext. 202 wgowen@msu.edu Gary Goodridge Educational Leader 248-347-3860 ext. 202 wgowen@msu.edu Jenny Speyer Educational Leader 248-347-3860 ext. 205 heughen3@msu.edu Marilyn Diekman Educational Leader 248-347-3860 ext. 205 heughen3@msu.edu Mary Wilson Consumer Horticulture Educator 248-347-3860 ext. 219 wilsonml@msu.edu Melanie Connors Educational Leader 248-347-3860 connor43@msu.edu Mike Mathis MSU Tollgate Director 248-347-3860 ext. 219 wilsonml@msu.edu Mike Mathis MSU Tollgate Director 248-347-3860 ext. 211 leppane3@msu.edu Marchael Moran Place-based Livestock Instructor 248-347-3860 moranal@msu.edu Rachael Moran Place-based Livestock Instructor 248-347-3860 novaran@msu.edu Roy Novara Educational Leader 248-347-3860 ext. 209 moranal@msu.edu Roy Novara Educational Leader 248-347-3860 novaran@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prenticl@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 224 stokess4@msu.edu Sara Mund Day Camp Coordinator 248-347-3860 ext. 224 stokess4@msu.edu	Bridget Lis	Educational Leader	248-347-3860	carrbri1@msu.edu
Darby Anderson Field Manager 248-347-3860 ext. 229 ande2010@msu.edu Deanna Wagner Agricultural Laborer 248-347-3860 ext. 211 wagne288@msu.edu Debbie Morgan 4-H Program Coordinator 248-347-3860 ext. 218 hopedeir@msu.edu Deirdre Hope Program Instructor 248-347-3860 ext. 218 hopedeir@msu.edu Ed Scott Director - District 11 248-347-3860 ext. 233 escott3@msu.edu Edlen Koehler Education Coordinator 248-347-3860 ext. 227 koehle43@msu.edu Garrett Owen Horticulture Outreach Specialist 248-347-3860 ext. 202 wgowen@msu.edu Gary Goodridge Educational Leader 248-347-3860 ext. 202 wgowen@msu.edu Jenny Speyer Educational Leader 248-347-3860 speyerje@msu.edu Marilyn Diekman Support Coordinator 248-347-3860 ext. 205 heughen3@msu.edu Mary Wilson Consumer Horticulture Educator 248-347-3860 ext. 219 wilsonm1@msu.edu Melanie Connors Educational Leader 248-347-3860 ext. 219 wilsonm1@msu.edu Mike Mathis MSU Tollgate Director 248-347-3860 ext. 235 mathismi@msu.edu Norb Leppanen Operations Technician 248-347-3860 ext. 211 leppane3@msu.edu Markhis MSU Tollgate Director 248-347-3860 ext. 211 leppane3@msu.edu Pat Dalter Educational Leader 248-347-3860 ext. 211 leppane3@msu.edu Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 209 moranra1@msu.edu Roy Novara Educational Leader 248-347-3860 ext. 209 moranra1@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 stokess4@msu.edu Sara Mund Day Camp Coordinator 248-347-3860 ext. 224 stokess4@msu.edu Mara Mundsara@msu.edu Mara Mundsara@msu.edu Mara Mundsara@msu.edu Mara Mundsara@msu.edu Mara Mara Mundsara@msu.edu Mara Mara Mundsara@msu.edu Mara Mara Mara Mara Mara Mara Mara Mara	Brooke Larm	Early Childhood Instructor	248-347-3860 ext. 230	larmb@msu.edu
Deanna Wagner Agricultural Laborer 248-347-3860 ext. 211 wagne288@msu.edu Debbie Morgan 4-H Program Coordinator 248-347-3860 ext. 279 morga194@msu.edu Deirdre Hope Program Instructor 248-347-3860 ext. 218 hopedeir@msu.edu Ed Scott Director - District 11 248-347-3860 ext. 233 escott3@msu.edu Ellen Koehler Education Coordinator 248-347-3860 ext. 227 koehle43@msu.edu Garrett Owen Horticulture Outreach Specialist 248-347-3860 ext. 202 wgowen@msu.edu Gary Goodridge Educational Leader 248-347-3860 goodrid1@msu.edu Jenny Speyer Educational Leader 248-347-3860 speyerje@msu.edu Marilyn Diekman Support Coordinator 248-347-3860 ext. 205 heughen3@msu.edu Mary Wilson Consumer Horticulture Educator 248-347-3860 ext. 219 wilsonm1@msu.edu Melanie Connors Educational Leader 248-347-3860 connor43@msu.edu Mike Mathis MSU Tollgate Director 248-347-3860 ext. 219 wilsonm1@msu.edu Morb Leppanen Operations Technician 248-347-3860 ext. 211 leppane3@msu.edu Mar Dalter Educational Leader 248-347-3860 ext. 211 leppane3@msu.edu Pat Dalter Educational Leader 248-347-3860 ext. 211 leppane3@msu.edu Roy Novara Educational Leader 248-347-3860 ext. 211 leppane3@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 219 moranral@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 219 prenticl@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 219 prenticl@msu.edu Roy Dorando Marcy AABI Support 248-347-3860 ext. 218 Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu Mara Mund Day Camp Coordinator 248-347-3860 ext. 224 stokess4@msu.edu Mara Mund Day Camp Coordinator 248-347-3860 ext. 224 stokess4@msu.edu Mara Mund Day Camp Coordinator 248-347-3860 ext. 224 stokess4@msu.edu	Carmen Hamilton	Educational Leader	248-347-3860	hamil466@msu.edu
Debbie Morgan 4-H Program Coordinator 248-347-3860 ext. 279 morgal94@msu.edu Deirdre Hope Program Instructor 248-347-3860 ext. 218 hopedeir@msu.edu Ed Scott Director - District 11 248-347-3860 ext. 233 escott3@msu.edu Ellen Koehler Education Coordinator 248-347-3860 ext. 227 koehle43@msu.edu Garrett Owen Horticulture Outreach Specialist 248-347-3860 ext. 202 wgowen@msu.edu Gary Goodridge Educational Leader 248-347-3860 goodrid1@msu.edu Jenny Speyer Educational Leader 248-347-3860 ext. 205 heughen3@msu.edu Marilyn Diekman Support Coordinator 248-347-3860 ext. 205 heughen3@msu.edu Mary Wilson Consumer Horticulture Educator 248-347-3860 ext. 219 wilsonml@msu.edu Melanie Connors Educational Leader 248-347-3860 ext. 219 wilsonml@msu.edu Mike Mathis MSU Tollgate Director 248-347-3860 ext. 235 mathismi@msu.edu Norb Leppanen Operations Technician 248-347-3860 ext. 211 leppane3@msu.edu Pat Dalter Educational Leader 248-347-3860 ext. 211 leppane3@msu.edu Pat Dalter Educational Leader 248-347-3860 ext. 211 leppane3@msu.edu Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 211 leppane3@msu.edu Roy Novara Educational Leader 248-347-3860 ext. 210 moranral@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prenticl@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prenticl@msu.edu Sara Mund Day Camp Coordinator 248-347-3860 ext. 224 stokess4@msu.edu	Darby Anderson	Field Manager	248-347-3860 ext. 229	ande 2010@msu.edu
Deirdre Hope Program Instructor 248-347-3860 ext. 218 hopedeir@msu.edu Ed Scott Director - District 11 248-347-3860 ext. 233 escott3@msu.edu Ellen Koehler Education Coordinator 248-347-3860 ext. 227 koehle43@msu.edu Garrett Owen Horticulture Outreach Specialist 248-347-3860 ext. 202 wgowen@msu.edu Gary Goodridge Educational Leader 248-347-3860 goodridl@msu.edu Jenny Speyer Educational Leader 248-347-3860 speyerje@msu.edu Kari Heughens Support Coordinator 248-347-3860 ext. 205 heughen3@msu.edu Marilyn Diekman Educational Leader 248-347-3860 diekmanl@msu.edu Mary Wilson Consumer Horticulture Educator 248-347-3860 ext. 219 wilsonm1@msu.edu Melanie Connors Educational Leader 248-347-3860 ext. 219 wilsonm1@msu.edu Mike Mathis MSU Tollgate Director 248-347-3860 ext. 235 mathismi@msu.edu Norb Leppanen Operations Technician 248-347-3860 ext. 211 leppane3@msu.edu Pat Dalter Educational Leader 248-347-3860 dalterpa@msu.edu Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 209 moranral@msu.edu Roy Novara Educational Leader 248-347-3860 novararo@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prenticl@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prenticl@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 stokess4@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 224 stokess4@msu.edu Sara Mund Day Camp Coordinator 248-347-3860 ext. 224 stokess4@msu.edu	Deanna Wagner	Agricultural Laborer	248-347-3860 ext. 211	wagne288@msu.edu
Ed Scott Director - District 11 248-347-3860 ext. 233 escott3@msu.edu  Ellen Koehler Education Coordinator 248-347-3860 ext. 227 koehle43@msu.edu  Garrett Owen Horticulture Outreach Specialist 248-347-3860 ext. 202 wgowen@msu.edu  Gary Goodridge Educational Leader 248-347-3860 goodrid1@msu.edu  Jenny Speyer Educational Leader 248-347-3860 speyerje@msu.edu  Kari Heughens Support Coordinator 248-347-3860 ext. 205 heughen3@msu.edu  Marilyn Diekman Educational Leader 248-347-3860 ext. 205 heughen3@msu.edu  Mary Wilson Consumer Horticulture Educator 248-347-3860 ext. 219 wilsonn1@msu.edu  Melanie Connors Educational Leader 248-347-3860 ext. 219 wilsonn1@msu.edu  Mike Mathis MSU Tollgate Director 248-347-3860 ext. 235 mathismi@msu.edu  Norb Leppanen Operations Technician 248-347-3860 ext. 211 leppane3@msu.edu  Pat Dalter Educational Leader 248-347-3860 dalterpa@msu.edu  Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 209 moranral@msu.edu  Roy Novara Educational Leader 248-347-3860 novararo@msu.edu  Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu  Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu  Roy Prentice Farm Manager 248-347-3860 ext. 218  Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu  Sara Mund Day Camp Coordinator 248-347-3860 ext. 220 mundsara@msu.edu	Debbie Morgan	4-H Program Coordinator	248-347-3860 ext. 279	morga194@msu.edu
Ellen Koehler Education Coordinator 248-347-3860 ext. 227 koehle43@msu.edu  Garrett Owen Horticulture Outreach Specialist 248-347-3860 ext. 202 wgowen@msu.edu  Gary Goodridge Educational Leader 248-347-3860 goodrid1@msu.edu  Jenny Speyer Educational Leader 248-347-3860 speyerje@msu.edu  Kari Heughens Support Coordinator 248-347-3860 ext. 205 heughen3@msu.edu  Marilyn Diekman Educational Leader 248-347-3860 diekman1@msu.edu  Mary Wilson Consumer Horticulture Educator 248-347-3860 ext. 219 wilsonm1@msu.edu  Melanie Connors Educational Leader 248-347-3860 connor43@msu.edu  Mike Mathis MSU Tollgate Director 248-347-3860 ext. 235 mathismi@msu.edu  Norb Leppanen Operations Technician 248-347-3860 ext. 211 leppane3@msu.edu  Pat Dalter Educational Leader 248-347-3860 ext. 211 leppane3@msu.edu  Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 209 moranra1@msu.edu  Roy Novara Educational Leader 248-347-3860 novararo@msu.edu  Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu  Ruth Dorando Marcy AABI Support 248-347-3860 ext. 224 stokess4@msu.edu  Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu  Sara Mund Day Camp Coordinator 248-347-3860ext. 220 mundsara@msu.edu	Deirdre Hope	Program Instructor	248-347-3860 ext. 218	hopedeir@msu.edu
Garrett Owen Horticulture Outreach Specialist 248-347-3860 ext. 202 wgowen@msu.edu Gary Goodridge Educational Leader 248-347-3860 goodrid1@msu.edu Jenny Speyer Educational Leader 248-347-3860 speyerje@msu.edu Kari Heughens Support Coordinator 248-347-3860 ext. 205 heughen3@msu.edu Marilyn Diekman Educational Leader 248-347-3860 ext. 205 heughen3@msu.edu Mary Wilson Consumer Horticulture Educator 248-347-3860 ext. 219 wilsonm1@msu.edu Melanie Connors Educational Leader 248-347-3860 ext. 219 wilsonm1@msu.edu Mike Mathis MSU Tollgate Director 248-347-3860 ext. 235 mathismi@msu.edu Norb Leppanen Operations Technician 248-347-3860 ext. 211 leppane3@msu.edu Pat Dalter Educational Leader 248-347-3860 ext. 211 leppane3@msu.edu Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 209 moranra1@msu.edu Roy Novara Educational Leader 248-347-3860 ext. 209 moranra1@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu Ruth Dorando Marcy AABI Support 248-347-3860 ext. 218 Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu Sara Mund Day Camp Coordinator 248-347-3860 ext. 220 mundsara@msu.edu	Ed Scott	Director - District 11	248-347-3860 ext. 233	escott3@msu.edu
Gary Goodridge Educational Leader 248-347-3860 goodrid1@msu.edu  Jenny Speyer Educational Leader 248-347-3860 speyerje@msu.edu  Kari Heughens Support Coordinator 248-347-3860 ext. 205 heughen3@msu.edu  Marilyn Diekman Educational Leader 248-347-3860 ext. 219 wilsonm1@msu.edu  Mary Wilson Consumer Horticulture Educator 248-347-3860 ext. 219 wilsonm1@msu.edu  Melanie Connors Educational Leader 248-347-3860 connor43@msu.edu  Mike Mathis MSU Tollgate Director 248-347-3860 ext. 235 mathismi@msu.edu  Norb Leppanen Operations Technician 248-347-3860 ext. 211 leppane3@msu.edu  Pat Dalter Educational Leader 248-347-3860 ext. 209 moranra1@msu.edu  Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 209 moranra1@msu.edu  Roy Novara Educational Leader 248-347-3860 ext. 25 prentic1@msu.edu  Roy Prentice Farm Manager 248-347-3860 ext. 25 prentic1@msu.edu  Ruth Dorando Marcy AABI Support 248-347-3860 ext. 224 stokess4@msu.edu  Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 mundsara@msu.edu  Sara Mund Day Camp Coordinator 248-347-3860 ext. 220 mundsara@msu.edu  mundsara@msu.edu  mundsara@msu.edu  mundsara@msu.edu  mundsara@msu.edu  mundsara@msu.edu  mundsara@msu.edu	Ellen Koehler	Education Coordinator	248-347-3860 ext. 227	koehle43@msu.edu
Jenny SpeyerEducational Leader248-347-3860speyerje@msu.eduKari HeughensSupport Coordinator248-347-3860 ext. 205heughen3@msu.eduMarilyn DiekmanEducational Leader248-347-3860diekman1@msu.eduMary WilsonConsumer Horticulture Educator248-347-3860 ext. 219wilsonm1@msu.eduMelanie ConnorsEducational Leader248-347-3860 ext. 235mathismi@msu.eduMike MathisMSU Tollgate Director248-347-3860 ext. 235mathismi@msu.eduNorb LeppanenOperations Technician248-347-3860 ext. 211leppane3@msu.eduPat DalterEducational Leader248-347-3860dalterpa@msu.eduRachael MoranPlace-based Livestock Instructor248-347-3860 ext. 209moranra1@msu.eduRoy NovaraEducational Leader248-347-3860 ext. 209moranra1@msu.eduRoy PrenticeFarm Manager248-347-3860 ext. 251prentic1@msu.eduRuth Dorando MarcyAABI Support248-347-3860 ext. 218Samantha Stokes4-H SPIN Club Coordinator248-347-3860 ext. 224stokess4@msu.eduSara MundDay Camp Coordinator248-347-3860ext. 220mundsara@msu.edu	Garrett Owen	Horticulture Outreach Specialist	248-347-3860 ext. 202	wgowen@msu.edu
Kari Heughens Support Coordinator 248-347-3860 ext. 205 heughen3@msu.edu Marilyn Diekman Educational Leader 248-347-3860 diekman1@msu.edu Mary Wilson Consumer Horticulture Educator 248-347-3860 ext. 219 wilsonm1@msu.edu Melanie Connors Educational Leader 248-347-3860 ext. 219 wilsonm1@msu.edu Mike Mathis MSU Tollgate Director 248-347-3860 ext. 235 mathismi@msu.edu Norb Leppanen Operations Technician 248-347-3860 ext. 211 leppane3@msu.edu Pat Dalter Educational Leader 248-347-3860 dalterpa@msu.edu Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 209 moranra1@msu.edu Roy Novara Educational Leader 248-347-3860 ext. 209 moranra1@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu Ruth Dorando Marcy AABI Support 248-347-3860 ext. 218 Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu Sara Mund Day Camp Coordinator 248-347-3860 ext. 220 mundsara@msu.edu mundsara@msu.edu mundsara@msu.edu mundsara@msu.edu mundsara@msu.edu mundsara@msu.edu mundsara@msu.edu mundsara@msu.edu	Gary Goodridge	Educational Leader	248-347-3860	goodrid1@msu.edu
Marilyn Diekman Educational Leader 248-347-3860 diekman1@msu.edu  Mary Wilson Consumer Horticulture Educator 248-347-3860 ext. 219 wilsonm1@msu.edu  Melanie Connors Educational Leader 248-347-3860 connor43@msu.edu  Mike Mathis MSU Tollgate Director 248-347-3860 ext. 235 mathismi@msu.edu  Norb Leppanen Operations Technician 248-347-3860 ext. 211 leppane3@msu.edu  Pat Dalter Educational Leader 248-347-3860 dalterpa@msu.edu  Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 209 moranra1@msu.edu  Roy Novara Educational Leader 248-347-3860 novararo@msu.edu  Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu  Ruth Dorando Marcy AABI Support 248-347-3860 ext. 218  Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu  Sara Mund Day Camp Coordinator 248-347-3860ext. 220 mundsara@msu.edu	Jenny Speyer	Educational Leader	248-347-3860	speyerje@msu.edu
Mary Wilson Consumer Horticulture Educator 248-347-3860 ext. 219 wilsonm1@msu.edu  Melanie Connors Educational Leader 248-347-3860 connor43@msu.edu  Mike Mathis MSU Tollgate Director 248-347-3860 ext. 235 mathismi@msu.edu  Norb Leppanen Operations Technician 248-347-3860 ext. 211 leppane3@msu.edu  Pat Dalter Educational Leader 248-347-3860 dalterpa@msu.edu  Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 209 moranra1@msu.edu  Roy Novara Educational Leader 248-347-3860 novararo@msu.edu  Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu  Ruth Dorando Marcy AABI Support 248-347-3860 ext. 218  Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu  Sara Mund Day Camp Coordinator 248-347-3860ext. 220 mundsara@msu.edu	Kari Heughens	Support Coordinator	248-347-3860 ext. 205	heughen3@msu.edu
Melanie Connors Educational Leader 248-347-3860 connor43@msu.edu Mike Mathis MSU Tollgate Director 248-347-3860 ext. 235 mathismi@msu.edu Norb Leppanen Operations Technician 248-347-3860 ext. 211 leppane3@msu.edu Pat Dalter Educational Leader 248-347-3860 dalterpa@msu.edu Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 209 moranra1@msu.edu Roy Novara Educational Leader 248-347-3860 novararo@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu Ruth Dorando Marcy AABI Support 248-347-3860 ext. 218 Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu Sara Mund Day Camp Coordinator 248-347-3860ext. 220 mundsara@msu.edu	Marilyn Diekman	Educational Leader	248-347-3860	diekman1@msu.edu
Mike Mathis MSU Tollgate Director 248-347-3860 ext. 235 mathismi@msu.edu  Norb Leppanen Operations Technician 248-347-3860 ext. 211 leppane3@msu.edu  Pat Dalter Educational Leader 248-347-3860 dalterpa@msu.edu  Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 209 moranra1@msu.edu  Roy Novara Educational Leader 248-347-3860 novararo@msu.edu  Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu  Ruth Dorando Marcy AABI Support 248-347-3860 ext. 218  Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu  Sara Mund Day Camp Coordinator 248-347-3860ext. 220 mundsara@msu.edu	Mary Wilson	Consumer Horticulture Educator	248-347-3860 ext. 219	wilsonm1@msu.edu
Norb Leppanen Operations Technician 248-347-3860 ext. 211 leppane3@msu.edu  Pat Dalter Educational Leader 248-347-3860 dalterpa@msu.edu  Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 209 moranra1@msu.edu  Roy Novara Educational Leader 248-347-3860 ext. 251 prentic1@msu.edu  Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu  Ruth Dorando Marcy AABI Support 248-347-3860 ext. 218  Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu  Sara Mund Day Camp Coordinator 248-347-3860 ext. 220 mundsara@msu.edu	Melanie Connors	Educational Leader	248-347-3860	connor43@msu.edu
Pat Dalter Educational Leader 248-347-3860 dalterpa@msu.edu Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 209 moranra1@msu.edu Roy Novara Educational Leader 248-347-3860 novararo@msu.edu Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu Ruth Dorando Marcy AABI Support 248-347-3860 ext. 218 Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu Sara Mund Day Camp Coordinator 248-347-3860 ext. 220 mundsara@msu.edu	Mike Mathis	MSU Tollgate Director	248-347-3860 ext. 235	mathismi@msu.edu
Rachael Moran Place-based Livestock Instructor 248-347-3860 ext. 209 moranra1@msu.edu  Roy Novara Educational Leader 248-347-3860 novararo@msu.edu  Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu  Ruth Dorando Marcy AABI Support 248-347-3860 ext. 218  Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu  Sara Mund Day Camp Coordinator 248-347-3860 ext. 220 mundsara@msu.edu	Norb Leppanen	Operations Technician	248-347-3860 ext. 211	leppane3@msu.edu
Roy Novara Educational Leader 248-347-3860 novararo@msu.edu  Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu  Ruth Dorando Marcy AABI Support 248-347-3860 ext. 218  Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu  Sara Mund Day Camp Coordinator 248-347-3860 ext. 220 mundsara@msu.edu	Pat Dalter	Educational Leader	248-347-3860	dalterpa@msu.edu
Roy Prentice Farm Manager 248-347-3860 ext. 251 prentic1@msu.edu  Ruth Dorando Marcy AABI Support 248-347-3860 ext. 218  Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu  Sara Mund Day Camp Coordinator 248-347-3860 ext. 220 mundsara@msu.edu	Rachael Moran	Place-based Livestock Instructor	248-347-3860 ext. 209	moranra1@msu.edu
Ruth Dorando Marcy AABI Support 248-347-3860 ext. 218 Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu Sara Mund Day Camp Coordinator 248-347-3860 ext. 220 mundsara@msu.edu	Roy Novara	Educational Leader	248-347-3860	novararo@msu.edu
Samantha Stokes 4-H SPIN Club Coordinator 248-347-3860 ext. 224 stokess4@msu.edu Sara Mund Day Camp Coordinator 248-347-3860 ext. 220 mundsara@msu.edu	Roy Prentice	Farm Manager	248-347-3860 ext. 251	prentic1@msu.edu
Sara Mund Day Camp Coordinator 248-347-3860ext. 220 mundsara@msu.edu	Ruth Dorando Marcy	AABI Support	248-347-3860 ext. 218	
	Samantha Stokes	4-H SPIN Club Coordinator	248-347-3860 ext. 224	stokess4@msu.edu
Will Jaquinde Sustainable Agriculture Instructor 248-347-3860 ext. 208 jaquinde@msu.edu	Sara Mund	Day Camp Coordinator	248-347-3860ext. 220	mundsara@msu.edu
	Will Jaquinde	Sustainable Agriculture Instructor	248-347-3860 ext. 208	jaquinde@msu.edu

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