



Local Bridge Asset Management

Rebecca Curtis, P.E.

Michigan Department of Transportation

Bridge Management Engineer

March 2016

Local Agency Bridge Asset Management

- Bridge Inventory, Inspection and Load Rating
- Bridge Funding
- Bridge Preservation



Local Agency Bridge Inventory

- Michigan has approx. 11,000 bridges
 - Local Agency
 - Over 6,500 bridges
 - 85.6% good or fair
 - Over 1000 posted bridges



Local Agency Bridge Inspection

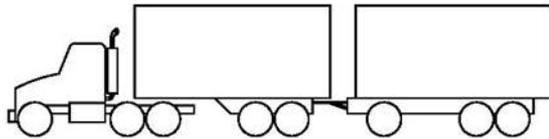
NBI Condition Ratings

9 – 7	Excellent to Good Condition	Routine maintenance candidate.
6 – 5	Satisfactory or Fair Condition	Preventative maintenance and minor rehabilitation candidate.
4	Poor Condition	Major rehabilitation or replacement candidate. (Nearly one third of Poor bridges are posted for reduced loads.)
3 – 2	Serious or Critical Condition	Emergency repair and high priority major rehabilitation or replacement candidate. Unless closely monitored it may be necessary to close such bridges until corrective action can be taken. (The majority of Serious and Critical bridges are posted for reduced loads.)
1 – 0	Imminent Failure or Failed Condition	Replacement candidate. Bridge is closed to traffic.

Local Agency Load Rating

BRIDGE ANALYSIS GUIDE

2005 Edition
with
2009 Interim Update
Part 1



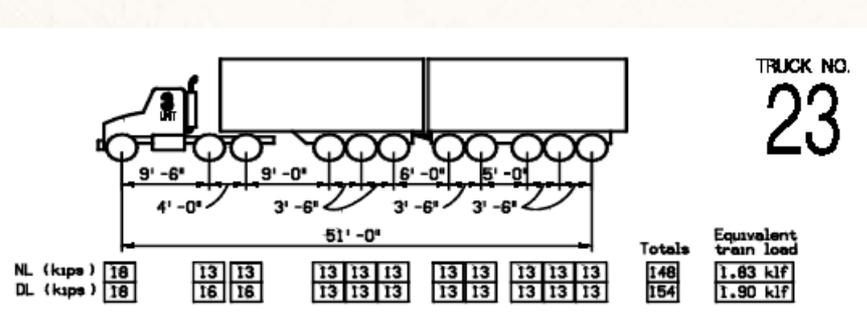
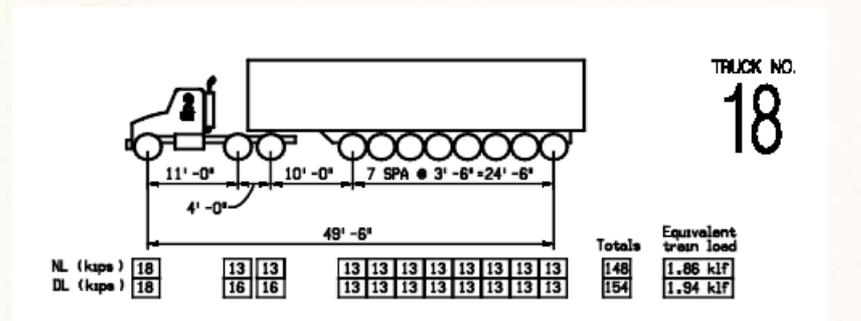
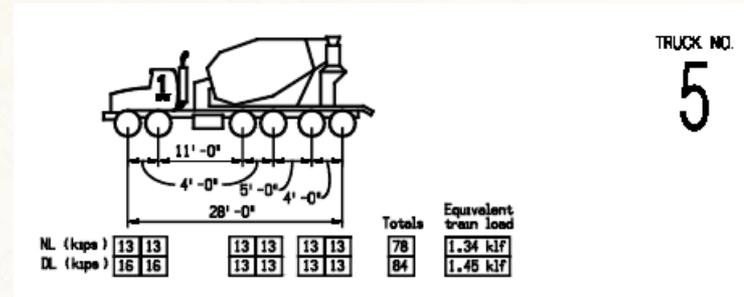
MICHIGAN DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND TECHNOLOGY SUPPORT AREA

Guides and Advisories

- Michigan Structure Inventory and Appraisal of Bridges 
- Corrugated Metal Pipe Analysis Spreadsheets (BA-2012-03) 
- Guidance for the use of "Field Evaluation and Documented Engineering Judgment" Ratings (BA-2012-02) 
- Modifications and Improvements to Load Rating and MBIS/MBRS (BA-2012-01) 
- Local Agency Load Rating Prioritization and Coding (BA-2011-02) 
- Load Rating Compliance with NBIS (BA-2010-03) 
- Load Rating Gusset Plates on Non-Load-Path Redundant Steel Truss Bridges (BA-2009-01) 
- Bridge Analysis Guide

Local Agency Load Rating

- MDOT has grandfathered legal loads
- We have 25 identified legal loads for rating as well as the 3 AASHTO vehicles



Local Agency Bridge Funding

- Federal Funds
- Michigan Transportation Funds
- Local Bridge Fund
 - Regional Bridge Councils



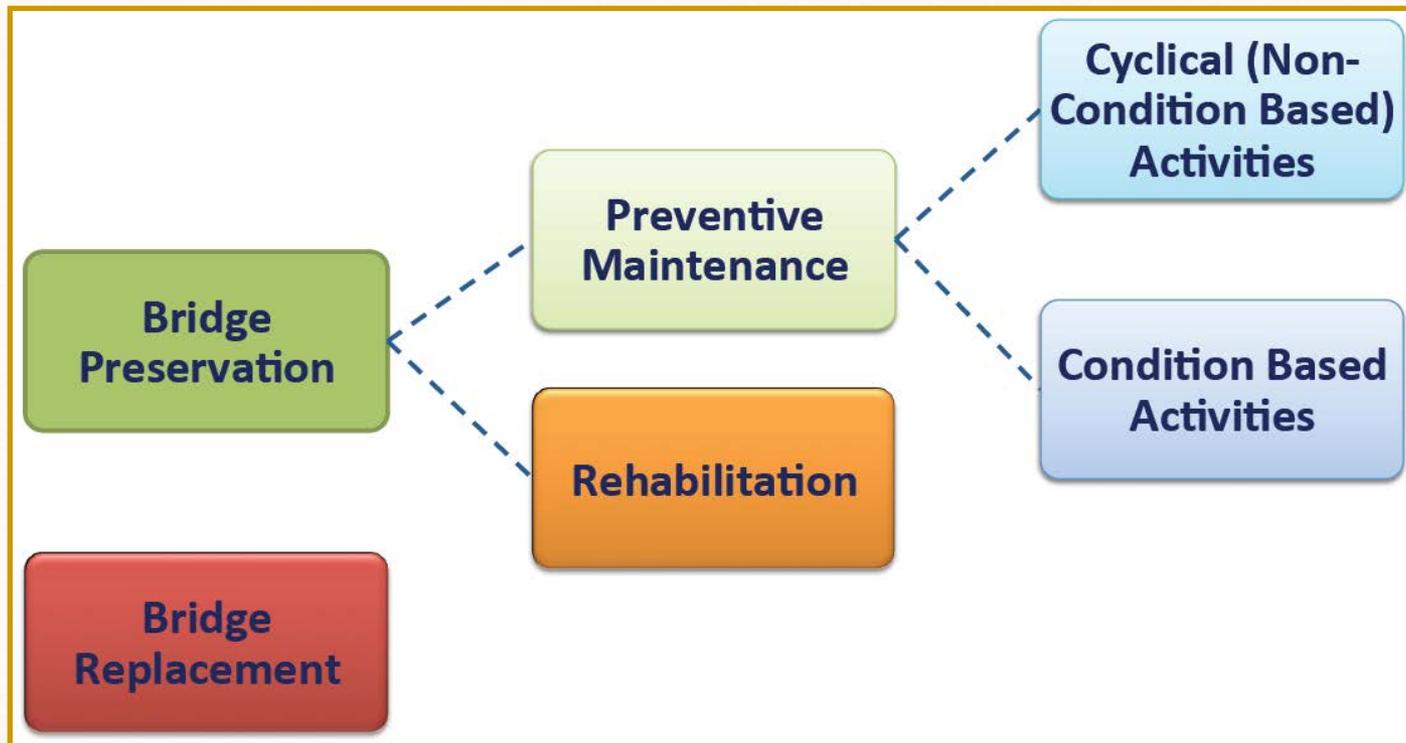
Local Agency Bridge Funding

- 2015 Local Bridge Fund Projects
 - 338 bridge applications received for a total request of \$260 million
 - 89 Projects selected by the Regional Bridge Councils (26% of total project applications)
 - \$48 million (18% of total application requests)



Bridge Preservation

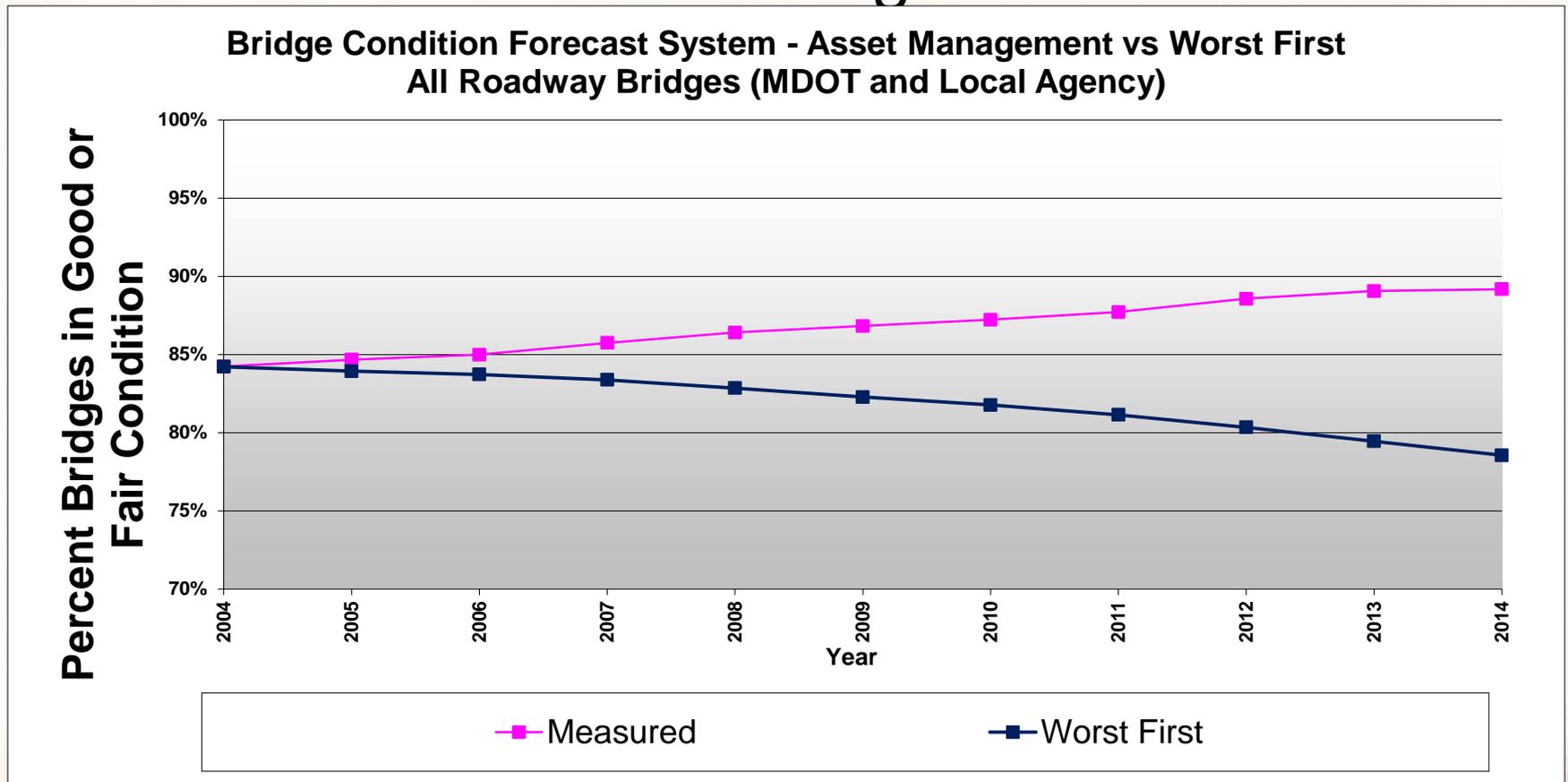
- What is Bridge Preservation?



(Source - NHI Bridge Preservation Webinar)

Bridge Preservation

■ What is the value of Bridge Preservation?



Bridge Asset Management Training

Asset Management Guide for Local Agency Bridges in Michigan



sponsored by **Michigan Transportation Asset Management Council**

prepared by **TranSystems Corporation**

May, 2011



Bridge Asset Management Training

Asset Management Guide for Local Agency Bridges Training Course

8:00 AM - 2:30 PM
Sign-in starts at 7:30 AM

2016 Training Dates

September 14 & 15	Lower Peninsula
November 1st	Locations TBD

Training Topics

- Bridge asset management principles
- Tools & resources available to your agency
- State & federal policy
- Programmatic requirements relating to bridge asset management

Registration

Public agency registration fee: \$20

Private company registration fee: \$50

Register at ctt.mtu.edu/Training.

Registrations must be made in advance. Sign-in and the continental breakfast begins at 7:30 AM.

Questions? Email ctt@mtu.edu

Instructors

Chris Gilbertson, Ph.D., P.E., is a Senior Research Engineer at the Center for Technology & Training at Michigan Technological University. His efforts are focused on the Bridge Load Rating Program which offers technical assistance to local agencies and their consultants while conducting load ratings using AASHTOWare Bridge Rating.

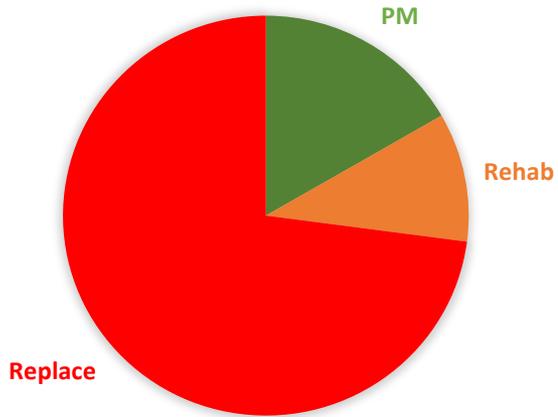
Al Kaltenthaler, P.E., S.E., is the Vice President and Senior Associate for TranSystems Corporation in East Lansing. Al is a former member of TAMC Bridge Committee. He has 32 years of engineering experience. Al received a B.S. in Civil Engineering from University of Akron. He has been the project manager for dozens of MDOT bridge design, rehabilitation, inspection, and load rating projects.



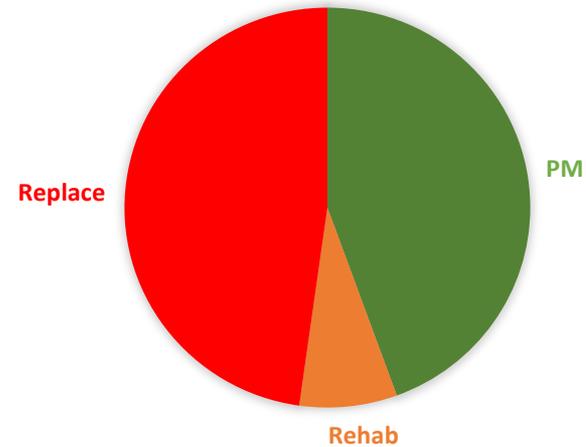
No-shows and cancellations within three business days of the session will be charged the full registration fee. Substitutions will be accepted. The Center for Technology & Training's (CTT) continuing education policy is available [here](#).

Project Selection

FY 2017 LOCAL BRIDGE PROGRAM
BY DOLLAR VALUE



FY 2017 LOCAL BRIDGE PROGRAM
BY NUMBER OF PROJECTS





Questions?

Rebecca Curtis, P.E.
Michigan Department of Transportation
Bridge Management Engineer

March 2016

Accela Project Update

March 30, 2016



Michigan Department of Agriculture & Rural Development

Thomas Benner

Systems Manager

Operational Services and Central Licensing



Quick History

- 2006 License Consolidation Project started in June
- 2007 Central Licensing Unit created in October
- 2008 Work with Michigan Business One Stop started in July
- 2009 One Stop launched in March
- 2012 Inspection Consolidation Project started in November
- 2013 Work on Licensing/Inspection system started in February
- 2014 Contract with Accela initiated in June; work began in October
- 2014 One Stop discontinued in September



Quick History cont'd

- 2015 Phase 1 work continued throughout the year
- 2016 Phase 1 launched February 2, 2016
- 2016 Phase 2 planning began; agile methodology versus waterfall.



Phase 1

- 6 license types
 - Food Establishments (17,000+)
 - Food Service (35,000+)
 - Nursery (5,500+)
 - Retail Motor Fuel (4,800+)
 - Bottled Water (1,100+ labels)
 - Water Dispensing Machines (675+)



Phase 1

- Inspections
 - Food Establishments
 - Nursery
 - Retail Motor Fuel
 - Complaints



Phase 1

- MDARD staff hours:
 - FY 14 852 hours
 - FY 15 11,618 hours
 - FY 16 10,138 hours (through 3/12/2016)
 - Total 22,608 hours

- ITIF* Spend to date: \$ 2,994,024
- ** Information Technology Investment Fund*

- Remaining ITIF budget: \$ 4,689,036



Accela Citizen Access

Browser window showing the URL <https://aca3.accela.com/mdard/>. The browser has several tabs open, including "Automation", "90.5 Classical with Jody Knol", "Pages - Presentation Resources", and "MDARD - Department of A...". The address bar shows "MDARD Licensing & Insp..." and the page title is "Beyond Boundaries".

Navigation menu with links: MDARD Home, MDARD Licensing Home, About, Contact, Media Contacts, and MI.gov.

Department of Agriculture & Rural Development

[Home](#) < [+ Licenses](#) [+ Complaints](#)

[Announcements](#) [Accessibility Support](#) [Register for an Account](#) [Login](#)

Welcome to the Citizen Portal

We are pleased to offer our citizens, businesses, and visitors access to government services online, 24 hours a day, 7 days a week.

In partnership with Accela, Inc., we are fulfilling our promise to deliver powerful e-government services and provide valuable information about the community while making your interactions with us more efficient, convenient, and interactive. To use ALL the services we provide you must register and create a user account. You can view information, get questions answered and have limited services as an anonymous user. We trust this will provide you with a new, higher level of service that makes living and working in our community a more enjoyable experience.

What would you like to do today?

To get started, select one of the services listed below:

General Information

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Licenses

[Search & Renew Licenses](#)

Complaints

Search...

Login

User Name or E-mail:

Password:

[Login »](#)

Remember me on this computer

[I've forgotten my password](#)

[Register for an Account](#)



Training

- Each division created held training workshops and created training resources that were shared through the intranet SharePoint site. The documents are easily updated as new functionality is identified.
- Scott Davidson in the CLU created several screenshot videos to assist users in visualizing how to navigate the screens



Success Story

An applicant for a food license paid for their application online at 1:39 pm on Thursday, 2/18 and was inspected and licensed through the Accela system by the inspector at 8:15 am on Friday, 2/19.





Efficiency

In the prior systems, a food inspector would approve a license in MiInspector and then send a copy of the inspection report to the CLU for manual entry into License 2000 to issue the license. In Accela, the licenses are issued automatically once the inspector results the inspection as approved.





Accela Civic Platform

Browser address bar: <https://av3.accela.com/portlets/spa/dashboard.do#/spaces/space1>

Browser tabs: Accela Automation®, 90.5 Classical with Jody Knol | ..., Pages - Presentation Resources, MDARD - Department of Agric..., Accela Automation®

Browser menu: File Edit View Favorites Tools Help

Browser bookmarks: MDARD Licensing & Insp..., Beyond Boundaries, BugTracker.NET - bugs, BugTracker.NET - logon, E-MICHIGAN - URLs for A..., ITSr, MALPH - Home, MDARD - Department of ...

MDARD | Civic Platform Tom Benner ⚙

Record 🔍

Menu ▾ Search New Delete GIS Create a Set ▾ View Log ▾ Reports ▾ Help My Filters --Select--

Showing 1-10 of 100+

<input type="checkbox"/>	Record #	Related Records	Status	Application Name	Record Type	Inspection District	Address	City	Count
<input type="checkbox"/>	FRFL-200171	View	Active	NEW HUDSON	Food License	OAKLAND-48165	56882 GRAND RIVER RD	NEW ...	OAKL
<input type="checkbox"/>	FRFA-000377	View	Approved for Inspection	EBY BROWN YPSILANTI MARKET C	Food License Application	WASHTENAW-48198	2085 E MICHIGAN AVE	YPSI...	WASH
<input type="checkbox"/>	FRFA-000376	View	Approved for Inspection	CANTON ONE STOP INC	Food License Application	WAYNE-48187	7230 SHELDON	CANTON	WAYN
<input type="checkbox"/>	FRFL-200166	View	Active	8820 WYOMING GAS MART INC	Food License	WAYNE-48204	8820 WYOMING ST	DETROIT	WAYN
<input type="checkbox"/>	FRFL-200162	View	Active	\$ MART PLUS	Food License	WASHTENAW-48197	9035 TEXTILE RD	YPSI...	WASH
<input type="checkbox"/>	LAB-16-000804	View		Lab sample Record Added Via Inspec...	Lab Sample	2	429 W 14TH	TRAV...	GRAN
<input type="checkbox"/>	LAB-16-000803	View		Lab sample Record Added Via Inspec...	Lab Sample	6	3400 S WAVERLY	LANSING	EATC
<input type="checkbox"/>	FRFL-200161	View	Active	YPSI CONVENIENCE INC	Food License	WASHTENAW-48197	3150 W MICHIGAN AVE	YPSI...	WASH
<input type="checkbox"/>	FFPL-200158	View	Active	HILLSHIRE BRANDS COMPANY	Food License	OTTAWA-49464	8300 96th AVE	ZEELAND	OTTA
<input type="checkbox"/>	FFPL-200168	View	Active	TETA FOODS	Food License	MACOMB-48035	19775 15 MILE RD	CLIN...	MACC

Page 1 of 10 < >



Accela Metrics

Sunday, March 20, 2016

2:03:04 PM

This report is under development. The data is compiled from several ad hoc reports in the Accela Automation system and is entered into an Access database that is located at S:\MDA_InspectionProject\Accela\Metrics (Note: this location may change). The report does not yet include transactions for renewals or for the bottled water and water dispensing machine program. Questions about this report should be directed to Thomas Benner, bennert9@michigan.gov or 517-284-5744.

Work Days since Go Live 2/2/16

32

Average per day calculated using only work days (excludes weekends and holidays)

	Food	MFQ	Nursery	TOTAL	Food	MFQ	Nursery	ACA	TOTAL	On Line \$\$	Food	MFQ	Nursery	TOTAL	Complaints opened
	LICENSES ISSUED				APPLICATIONS SUBMITTED					INSPECTIONS SUBMITTED					
GRAND TOTALS	156	56	26	238	326	50	83	26	485	\$3,449.00	1241	476	4	1721	199
AVERAGE PER DAY	5	2	1	7	10	2	3	1	15	\$108	39	15	0	54	6

Dates in DESC Order

LICENSES ISSUED APPLICATIONS SUBMITTED INSPECTIONS SUBMITTED

Date	Food	MFQ	Nursery	TOTAL	Food	MFQ	Nursery	ACA	TOTAL	On Line \$\$	Food	MFQ	Nursery	TOTAL	Complaints opened
3/17/2016	6	0	0	6	5	0	0	1	6	\$274.00	54	16	0	70	1
3/16/2016	6	1	0	7	4	1	0	2	7	\$218.00	60	27	0	87	4
3/15/2016	7	0	0	7	4	0	0	1	5	\$109.00	62	17	0	79	6
3/14/2016	11	1	2	14	5	0	2	0	7	\$0.00	53	16	0	69	7
3/12/2016	0	0	0	0				1		\$109.00	0	0	0	0	0



On Deck...

- 17,000+ food renewals with online renewal instructions to be delivered just after March 31
- Agile methodology pilot for Agricultural Pesticide Dealer license and Christmas tree certification in May/June

Questions?



Michigan Department of Agriculture & Rural Development

Stay connected with MDARD!



Michigan Department
of Agriculture



@MichDeptofAg



Mlagriculture



Michigan Commission of Agriculture and Rural Development

Food and Agriculture Month

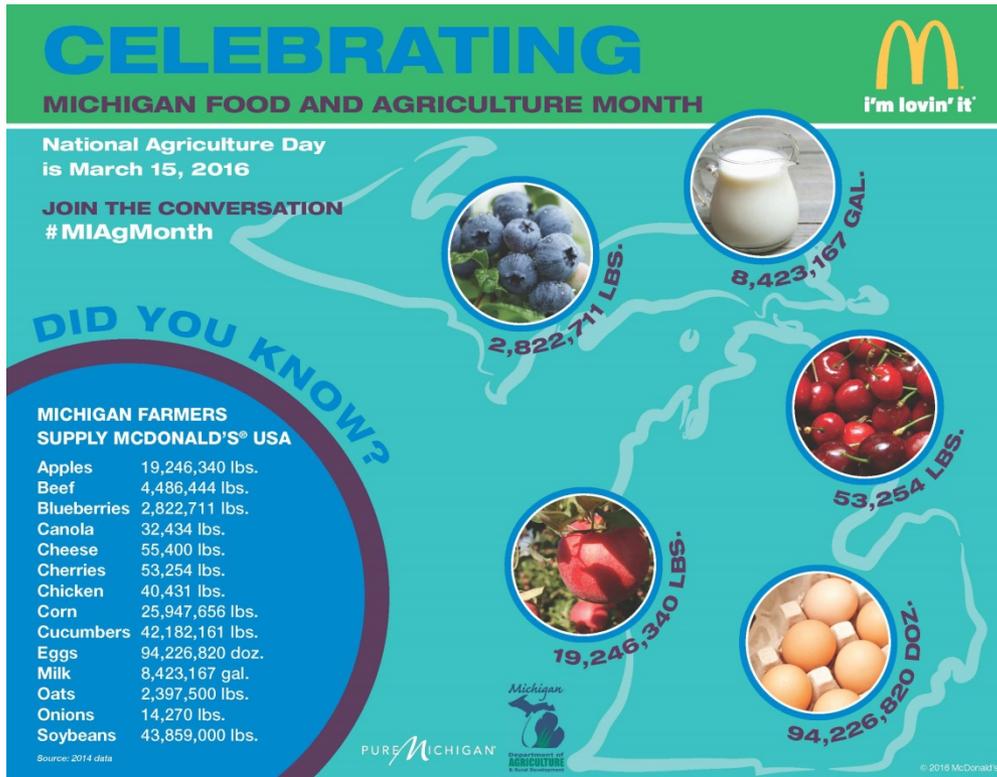
Presented by:
Jennifer Holton, APR
Director of Communications

March is Food & Ag Month

- 🇺🇸 Governor Snyder proclaims March as Food & Agriculture month in Michigan
 - 🇺🇸 Celebrate our food/ag diversity
 - 🇺🇸 Engage consumers
 - 🇺🇸 Economic successes/opportunities
 - 🇺🇸 Partnerships



March is Food & Ag Month Partnerships



- Partnered with McDonald's of MI to highlight the products they purchase from MI farmers.
- This trayliner is used in all McDonald's stores in the state.
- It was launched on digital media on March 15 for National Ag Day.

March is Food & Ag Month Partnerships



MI Ag & Rural Dev @MichDeptofAg · Mar 14

Happy #PiDay! Get a free slice of Michigan ABC Pie @GTPie with any purchase! #MIAgMonth



- Partnered Grand Traverse Pie Company highlighting correlation between education & the food and ag industry.
- Video contest to say the most digits of pie.
- Patrons were given a free slice of ABC pie on March 14.

March is Food & Ag Month Partnerships

Michigan Department of Agriculture was live.
Published by Bob Michael [?] · March 23 at 12:03pm · 🌐

Meet Brandon Seng of Goodwill's Farm to Freezer program one of the Michigan companies in attendance today at the 2016 Pure Michigan Ag Summit in Kalamazoo. Let's find out what brought him here today.
#PureMIAgSummit #MiAgMonth



7,001 people reached

Boost Post

2.2K Views

Like Comment Share

April Bennett, Colleen Carroll and 69 others

Top Comments

18 shares

MI Ag & Rural Dev
@MichDeptofAg
WATCH LIVE: We're coming to you live from the #PureMIAgSummit! --> bit.ly/1RkKTJM #MiAgMonth
23 Mar 9:50am

MI Business Connect
@PureMichiganB2B
Michigan should be a global participant in the food space. Collaboration is key.
#PureMIAgSummit
23 Mar 1:01pm

MDARD International
@MIAgExport
@Euromonitor Matt Trapodi sharing insights at #PureMIAgSummit
pic.twitter.com/1DF4nAeZdP
23 Mar 12:27pm

MI Ag & Rural Dev
@MichDeptofAg
Busy day connecting with Michigan vendors. #PureMIAgSummit @MIAgExport @PureMichiganB2B #MiAgMonth
pic.twitter.com/knhv6i8uRM
23 Mar 11:56am

Skandis Fine Wines
@SkandisFineWine
On stage now. #RonKitchens, President & CEO #SWMichiganFirst @PureMichiganB2B #PureMIAgSummit
pic.twitter.com/KF52iwD7SV
23 Mar 10:29am

michiganagriculture · 5 days ago
We're at the #PureMIAgSummit, that's linking buyers to Michigan growers and processors! On stage now: Chief Deputy Director Gordon Wenk speaking on the growth of Michigan's food and agriculture industry. #MiAgMonth #MichiganAg @michiganbusiness

RUDEcookie
@LOVE_RUDEcookie
Got to talk RUDE all day at the #PureMIAgSummit @PureMichiganB2B LOVE, RUDEcookie
pic.twitter.com/cyHFx16HhA
23 Mar 4:28pm

MolterFamilyOrchards
@MolterOrchards
Excited to be at the PureMichigan Ag Summit today! #PureMIAgSummit
23 Mar 10:25am

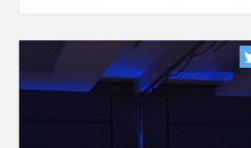
MI Ag & Rural Dev
@MichDeptofAg
It's a new day... for business.

MI Ag & Rural Dev
@MichDeptofAg
It's a new day... for business.



RUDEcookie
@LOVE_RUDEcookie
Got to talk RUDE all day at the #PureMIAgSummit @PureMichiganB2B LOVE, RUDEcookie
pic.twitter.com/cyHFx16HhA
23 Mar 4:28pm

MolterFamilyOrchards
@MolterOrchards
Excited to be at the PureMichigan Ag Summit today! #PureMIAgSummit
23 Mar 10:25am



Water Street Coffee
@h2streetcoffee
It was great connecting with other Michigan companies today to support local growth opportunities. #PureMIAgSummit
pic.twitter.com/XrFFxW40w
23 Mar 1:33pm



Skandis Fine Wines
@SkandisFineWine
On stage now. #RonKitchens, President & CEO #SWMichiganFirst @PureMichiganB2B #PureMIAgSummit
pic.twitter.com/KF52iwD7SV
23 Mar 10:20pm



March is Food & Ag Month

Instagram

Search

Log out



michiganagriculture [EDIT PROFILE](#)

Michigan Ag & Rural Dev Highlighting Michigan's diverse food and agriculture. Tag your photos with #MichiganAg to give us permission to repost!
www.michigan.gov/mdard

10 posts 128 followers 37 following



Revived MDARD Instagram account in mid-March.

- Highlighting Michigan agriculture facts
- 190 followers to date

March is Food & Ag Month

Top mention earned 739 engagements



Pure Michigan

@PureMichigan · Mar 16

Did you know **#PureMichigan** ranks No.1 in the nation for blueberry production? Now you do! **#MiAgMonth** @MichDeptofAg pic.twitter.com/vAtHCvTgBX



4 110 277

[View Tweet](#)

Post Details

Reported stats may be delayed from what appears on posts



Michigan Department of Agriculture

Published by Cheri Kay [?] · March 3 at 6:07pm ·

Michigan is number 1 for production of blueberries for the entire nation! How do you like to use Michigan blueberries in food? #MiAgMonth



105,498 people reached

Boost Post

1.5K

129 Comments 889 Shares

Like Comment Share

105,498 People Reached

6,761 Reactions, Comments & Shares

5,044 Like 1,447 On Post 3,597 On Shares

192 Love 64 On Post 128 On Shares

1 Haha 0 On Post 1 On Shares

9 Wow 4 On Post 5 On Shares

619 Comments 145 On Post 474 On Shares

898 Shares 889 On Post 9 On Shares

4,474 Post Clicks

770 Photo Views 1 Link Clicks 3,703 Other Clicks

NEGATIVE FEEDBACK

46 Hide Post 15 Hide All Posts

0 Report as Spam 1 Unlike Page

March is Food & Ag month

Digital Media by the Numbers

- Blueberry graphic is MDARD's most engaging post on Facebook and the most engaging tweet.
- Pure Michigan's most engaging tweet for the month of March was the blueberry graphic (739 engagements).
- Spike in Facebook page likes for each infographic posted. Over 200 organic likes 2 days after the blueberry graphic was posted. Average daily organic likes is roughly 9.
- Pure Michigan blog article was a top engaging post of MDARD's.



#MIAgMonth

March is Michigan Food and Agriculture Month in Pure Michigan!

@MichDeptofAg | /MIDeptofAgriculture | @michiganagriculture | https://www.michigan.gov/mdard



MICHIGAN DEPARTMENT OF AGRICULTURE
5 days ago
Meet Brandon Song of Goodwill's Farm to Freer program one of the Michigan companies in attendance today at the 20th Pure Michigan Ag Summit in Kalamazoo. Let's find out what brought him here today. #PureMIAgSummit #MIAgMonth



MICHIGAN AG & RURAL DEV
5 days ago
We're at the #PureMIAgSummit that's linking buyers to Michigan growers and processors! On stage now: Chief Deputy Director Gordon Wenk speaking on the growth of Michigan's food and agriculture industry. #MIAgMonth #MichiganAg @michiganbusiness



MICHIGAN DEPARTMENT OF AGRICULTURE
6 days ago
"We know that farmers markets are important economic contributors to our Michigan communities. But how much? This study will allow community and economic developers to better understand how farmers markets contribute to the future economic vitality of Michigan," explains USDA Rural Development Michigan State Director James Turner via Michigan Farmers Market Association. #MIAgMonth



MI AG & RURAL DEV
6 days ago
93% of MI farms are family owned! MT (@ukgr11): Generations of the Girbach family have farmed in Saline. #MIAgMonth



Michigan is #1
Michigan leads the nation in 14 floriculture varieties. #MIAgMonth
MICHIGAN DEPARTMENT OF AGRICULTURE
8 days ago
Happy first day of spring! Did you know Michigan leads the nation in 14 floriculture varieties including petunias, impatiens, and begonias? What kind of flower is your favorite? #MIAgMonth



MICHIGAN AG & RURAL DEV
10 days ago
#PureMichigan is the 3rd largest apple-producing state in the nation! #MIAgMonth #MIApples #MichiganAg



MICHIGAN DEPARTMENT OF AGRICULTURE
14 days ago
Happy #PiDay! My favorite: Pure Michigan pie is... A) Apple B) Blueberry C) Cherry D) All of the above! #MichiganAPC Pie! Get a free slice today with any purchase at Grand Traverse Pie Company! bit.ly/1ppMCKk #MIAgMonth



MICHIGAN DEPARTMENT OF AGRICULTURE
13 days ago
Today is National Agriculture Day! Did you know McDonald's buys many ingredients from Michigan farmers, including 94 million dozen eggs? #MIAgMonth



MICHIGAN DEPARTMENT OF AGRICULTURE
15 days ago
It's National Agriculture Week! Did you know Michigan farmers grow and raise more than 360 different foods and commodities? Check out Pure Michigan's new ad highlighting the local taste of Pure Michigan food and agriculture. #MIAgMonth



MICHIGAN DEPARTMENT OF AGRICULTURE
10 days ago
Taking it back to 1994 - Picking Michigan Apples in the mitten. #FlashbackFriday shared by Michigan Historical Museum's #MIAgMonth



MICHIGAN DEPARTMENT OF AGRICULTURE
19 days ago
Did you know Michigan leads the nation in 29 commodities including squash, blueberries, and cucumbers for pickles? Discover more Michigan agriculture facts in Pure Michigan's latest blog. #MIAgMonth What's your favorite Michigan grown food?



MICHIGAN DEPARTMENT OF AGRICULTURE
12 days ago
Great video from Michigan Economic Development Corporation about Ag Day at the Capitol today! #MIAgMonth



MICHIGAN DEPARTMENT OF AGRICULTURE
24 days ago
Pi Day is almost here! Celebrate with a



MICHIGAN AG & RURAL DEV
25 days ago
March is #MIAgMonth in #PureMichigan! Did you know Michigan is the 2nd most agriculturally diverse state? #MichiganAg



MICHIGAN DEPARTMENT OF AGRICULTURE
a month ago
Michiganians: Let's Celebrate Food and Ag Month! Michigan is home to a beautiful array of food and agriculture products for Michiganians and tourists to enjoy. The diversity of the state's food and agriculture offerings rivals only California. Each year, states across the nation recognize March as a time to



Michigan is #1
Michigan leads 1st in the nation for tart cherry production. #MIAgMonth
MICHIGAN DEPARTMENT OF AGRICULTURE
19 days ago
Michigan produces more cherries than any other state in the nation! How do you like to eat Michigan cherries? #MIAgMonth



Michigan is #1
Michigan leads 1st nationwide for blueberry production. #MIAgMonth
MICHIGAN DEPARTMENT OF AGRICULTURE
25 days ago
Michigan is number 1 for production of blueberries for the entire nation! How do



Agriculture and Natural Resources Week
March 5-12
#ANRWeek
MICHIGAN DEPARTMENT OF AGRICULTURE
19 days ago
It's #ANRWeek! Find all the programs happening this week here: <http://anrweek.cnr.msu.edu/teess...> #MIAgMonth



Stay connected with MDARD!

Follow MDARD on Facebook, Twitter, Instagram, & YouTube for current information and happenings!



Michigan Department of Agriculture



@MichDeptofAg



Mlagiculture



MichiganAgriculture



CLEMENS

— FoodGROUP —

THE LEADER IN CUSTOMER SOLUTIONS

Excited to Be Your Neighbor

A Family Tradition since 1895

Founded by John C. Clemens

Clemens Family Corporation includes:

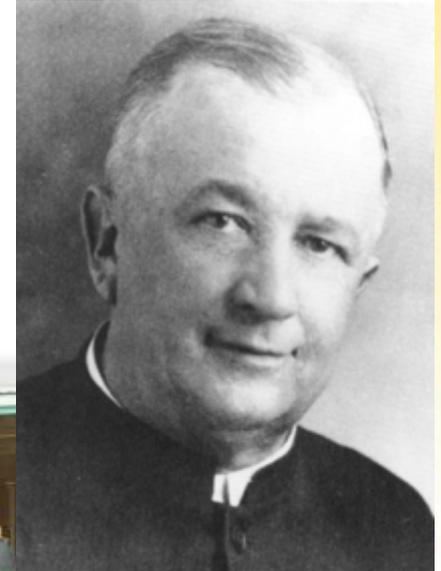
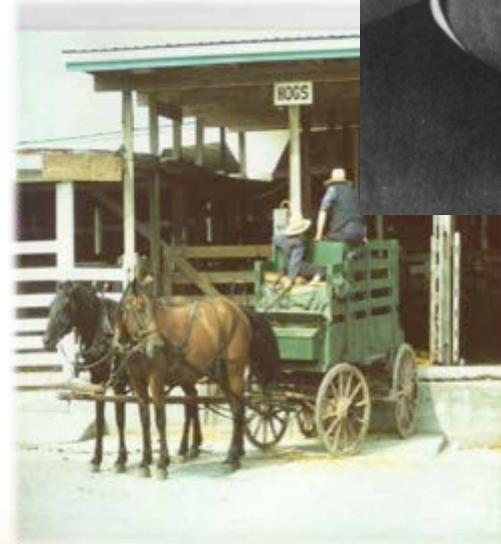
Clemens Food Group

Clemens Real Estate Group

Today – 6th Generation

272 Family Owners

28 Family Employees



CLEMENS
FoodGROUP
THE LEADER IN CUSTOMER SOLUTIONS

Our Mission

We aspire to operate in a way that honors the Lord Jesus Christ as demonstrated through Ethics, Integrity, and Stewardship



Our Core Values

Our values are the basis of every business decision we make:

– Ethics

- *I'll do the right thing.*

– Integrity

- *I'll do what I say.*

– Stewardship

- *I'll build a foundation for the future.*

Stewardship Commitment

Includes commitment to:

- Team Members
- The Environment
- Animal Care
- Products and Customers
- The Community



About The Clemens Food Group

Based in Hatfield, PA
(30 miles NW of Philadelphia)

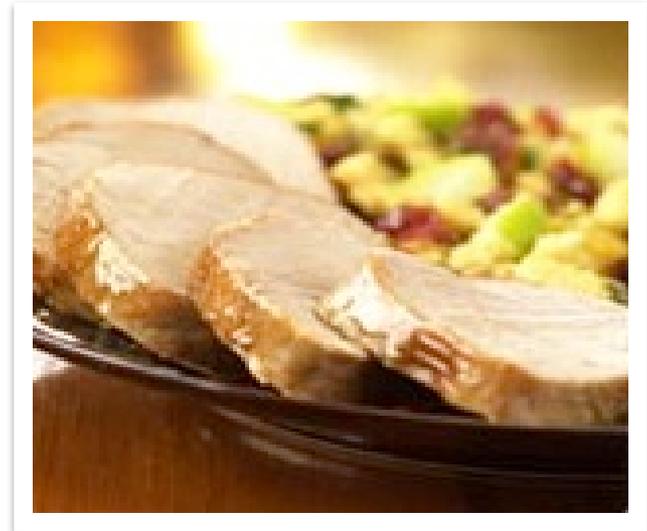
Business family - balanced leadership across senior management, board of directors, and owners advisory committee

Shared success with 2,400+ dedicated team members



About Our Business

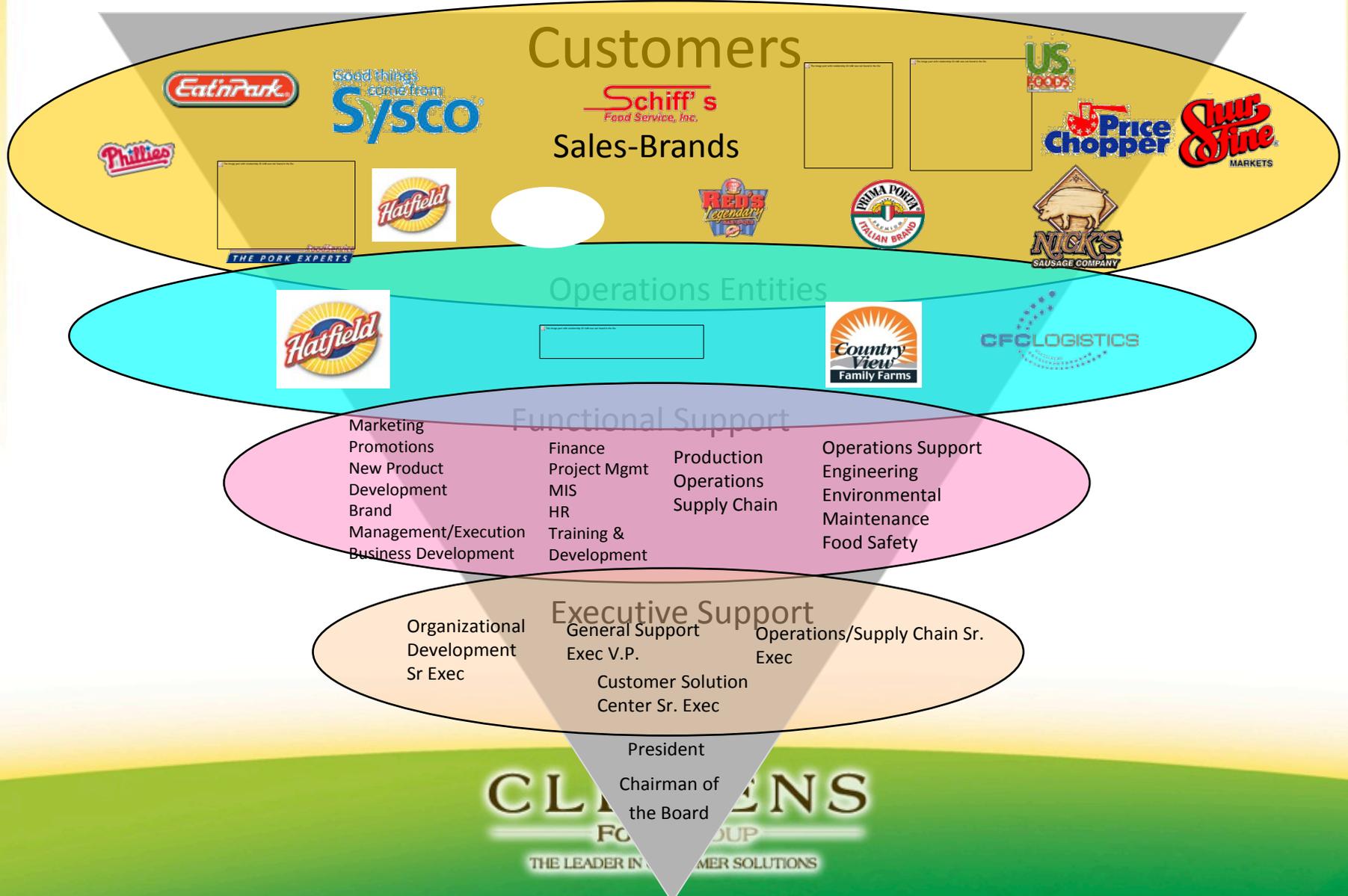
- The Leader in Customer Solutions
- Serving customers across retail (grocery stores), foodservice (example - SYSCO), exports to other countries, and business-to-business (example - Bush Beans)
- Portfolio of brands that feature high quality fresh and value added pork



CLEMENS
FoodGROUP
THE LEADER IN CUSTOMER SOLUTIONS

Servant Leadership Model

Build enduring greatness through a paradoxical blend of personal humility and professional will



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— FoodGROUP —

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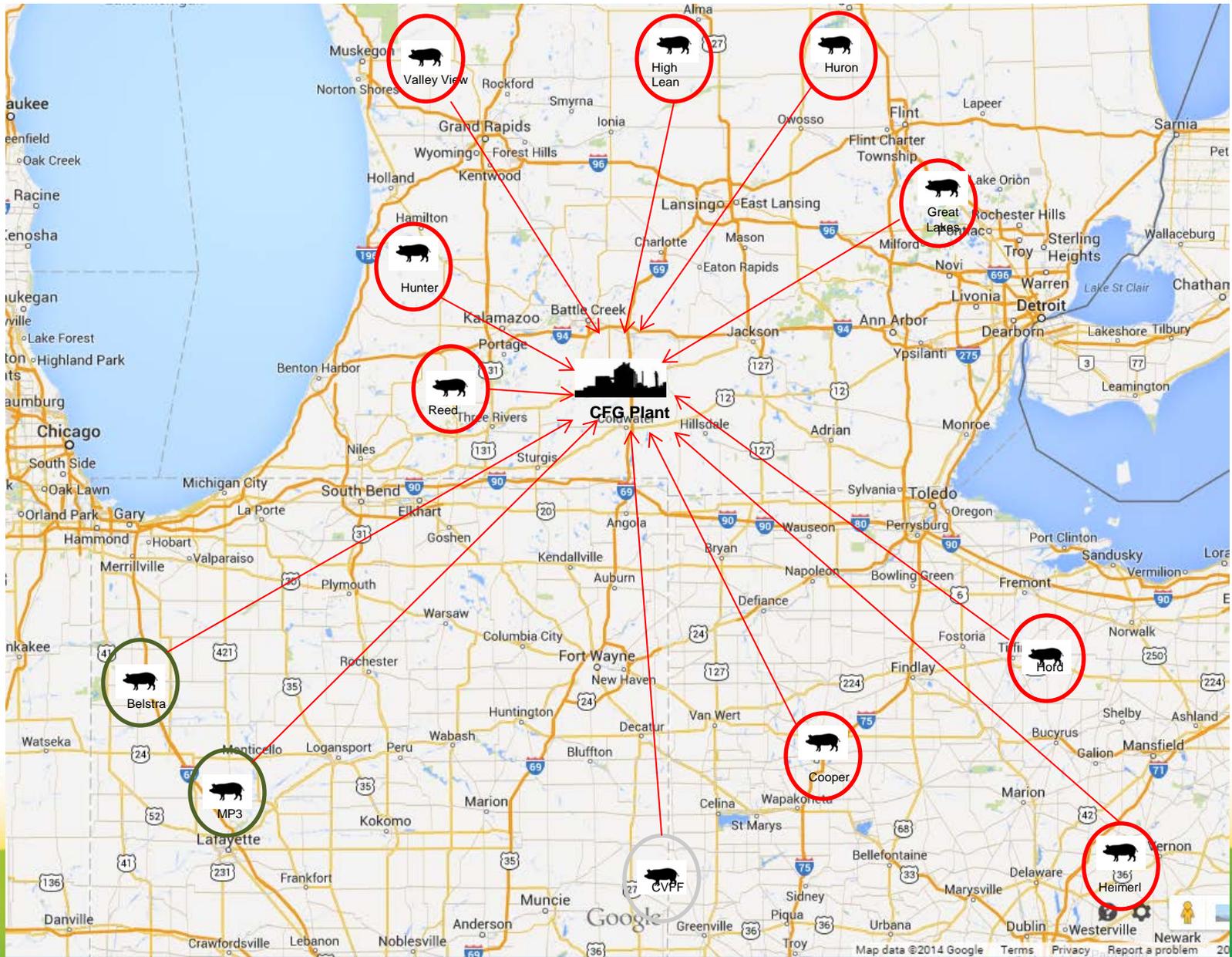


Building For The Future

Need for the Facility

- Pork demand is strong
- SW Michigan is an ideal location
- Michigan's commitment to pork industry

Central Location to Producer Partners



About Our Partners

Producer partners

- Group of family-owned pork producers, who share Clemens' commitment to integrity & quality
- All have long standing history in pork production across Michigan, Ohio and Indiana

Public partners

- State of Michigan/Office of the Governor
- Michigan Economic Development Corp
- Michigan Department of Agriculture
- City of Coldwater/Coldwater Township
- Michigan Works
- KCC and Branch County ISD



About The Facility

- 600,000 square-foot facility
- \$275+ Million Investment
- Open Fall 2017
- 800+ Jobs



Celebrating The Start: Groundbreaking July 2015

A NEW MANUFACTURING FACILITY FOR:

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ACROSS AMERICA



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Current Activities

- Facility

- WWTP & Air Permits Updated
- Complete Panel Installation of Cut Floor
- Complete CO2 Pits
- Utilities Work Begins – Inside & Outside
- Process Development and Vendor Selection
 - Waste water
 - Trim Blend
 - Offal
 - Headroom
 - Mucosa and Blood Plasma

Coldwater Construction By the Numbers

37,078	Manhours
320,000	Cubic Yards of Soil Moved
365,356	Square Yards of Soil Stabilized
25	EA Storm Structures Installed
7,700	Linear Feet of Storm Pipe Installed
30,506	Tons of Parking Lot Aggregate
29,921	Tons of Building Pad Aggregate
3,649	Cubic Yards of Concrete Placed
173	Tons of Rebar Installed
599	Tons of Steel Erected
130,000	SF of Decking
86	Precast Panels Erected





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CFG – The Talk of the Town - Coldwater Community



CLEMENS
FOOD GROUP
THE LEADER

Job Opportunities Coming in 2017

Managerial 46

Professional 37

Technical 11

Sales 7

Clerical 11

Craftsmen* 12

Operators** 585

Laborers*** 41



Clemens Food Group *Upper-Management Timeline*



Mid-Management/Maintenance Timeline



Production Worker Timeline



**Community Information Sessions to be held with MWA assistance
November 2016-Start Up*

Current Activities

- Workforce Development
 - College Career Fairs.
 - Connecting with employees from closing companies concerning future opportunities with CFG.
 - Interviewing local residents for extended training opportunities at our Pa. location.
 - Building relationships with communities in the surrounding areas around Coldwater.
 - Participating with various philanthropic groups in the area.
 - Continuing to build a data base of potential Team Members to join the CFG team through start up.

Workforce Development Analytics

- 4,000+ visitors to our Coldwater website in 6 months
- 979 Facebook followers
- Over 600 enrolled to receive employment update emails

Excited to Be Your Neighbor!

Visit us at www.CFGColdwater.com
to sign up to receive emails and updates



www.Facebook.com/CFGColdwater

GRANT PROJECTS

Michigan Commission of Agriculture and
Rural Development

March 30, 2016



Michigan Department of Agriculture & Rural Development

Peter Anastor

Agriculture Development Division



AGENDA

- Grant Programs
- Project Outcomes
- Project Presentations





MDARD Grant Programs

- Specialty Crop Block Grant (SCBG)
- Value Added Grants/Regional Food System
- Strategic Growth Initiative (SGI)





MDARD Grant Programs

- Current active grant portfolio is 109 projects
 - SCBG: 75 projects
 - Value-Added: 13 projects
 - SGI: 19 projects
 - Other: 2 projects



Project Outcomes

Grant Impact Analysis

- MDARD hired Public Policy Associates, Inc. to provide analytical review of grant programs
- Reviewed 2013 and 2014 Value Added and 2014 Strategic Growth Initiative grantees
- Data review, project surveys, quantitative impact analysis (IMPLAN model)



Project Outcomes

Grant Impact Analysis Findings

- Grantees were highly successful in reaching their planned goals
- Projects were designed to address particular needs in Michigan food production, processing and distribution



Project Outcomes

Grant Impact Analysis Results

- Grants leveraged match expenditures equal to 86% of total award expenditures
- Grants improved capacity building
- Created new jobs
- Generated additional revenue



Project Outcomes

Grant Impact Analysis Recommendations

- Review process should assess plans for measuring and documenting impacts
- Establish reporting requirements with program evaluation in mind
- Identify meaningful benchmarks for projects with long horizon for economic effects
- Consider two-year follow-up study



Project Presentations

Great Lakes Pork and Clemens Food Group

- Commissioner Fred Walcott
- Earnie Meily, Clemens Food Group

Uptown Reinvestment and Flint Food Works

- Commissioner Dru Montri
- Sean Garland, Flint Food Works

Synthesis Report Regarding Net-pen Aquaculture in the Great Lakes

January 28, 2015

Departments of:

Agriculture and Rural Development (MDARD)
Environmental Quality (MDEQ)
Natural Resources (MDNR)

Catalyst for the Conversation Regarding Commercial Net-pen Aquaculture in the Great Lakes

The Michigan Departments of Agriculture and Rural Development, Environmental Quality, and Natural Resources (Quality of Life (QOL) Departments) were approached in late 2014 with two proposals for establishing commercial aquaculture netpen operations in northern Lakes Huron and Michigan. While Ontario has established netpen operations in the North Channel and Georgian Bay in Lake Huron, there are no commercial net-pen aquaculture operations in Michigan's open waters of the Great Lakes. The issue was viewed as a serious and potentially contentious matter and constituted a new use for Michigan's bottomlands and Great Lakes waters.

Background on Process

To give this precedent-setting issue the level of attention and deliberate evaluation that was required, the directors requested that the QOL departments' Aquaculture Workgroup develop an ecosystem approach to evaluating the issue. An ecosystem management approach requires considerations of the scientifically based environmental and ecological aspects as well as the social and economic attributes of a proposed management action. In this process, social considerations included the legal authorities and public input. Under that paradigm, the Aquaculture Workgroup:

- 1) Elicited an independent volunteer Science Panel of experts to evaluate the environmental and ecological considerations. (Environmental and ecological factors)
- 2) Contracted with three entities to develop an understanding of the economic aspects commercial net-pen development -- product demand, processing, distribution, etc. (Economic factors)
- 3) Established an internal workgroup to develop a paper on the existing legal authorities regarding the establishment of netpens, such as permitting (water quality, bottomlands, fish health, and stocking) and recognition of the Great Lakes Consent Decree and tribal nation rights. (Social factors)
- 4) Conducted, after the above information was complete, a public forum to present the information and take public input regarding the social aspects (conflicts, fishing, etc.) and community benefits. (Social factors)

Land-based aquaculture facilities, such as flow through, closed, or recirculating, were beyond the scope of both the process used to address the issue of commercial net-pen aquaculture and this synthesis paper.

Synopsis of the Report Findings

Six reports were produced from this process and provided input for this synthesis.

Science-based review

- 1) [Great Lakes Net-Pen Commercial Aquaculture: A Short Summary of the Science](#)

Regulations-based review

2) [A Regulatory Analysis of Proposed Commercial Net-Pen Aquaculture in the Great Lakes](#)

Economics-based reviews

3) [Overview of Natural Resource Values Potentially at Risk from Consequences of Net-Pen Aquaculture](#)

4) [Expected Economic Impact of Cage Trout Aquaculture on Michigan's Great Lakes](#)

5) [Aquaculture Industry Report from IBIS World Industry Report 11251- Fish & Seafood Aquaculture in the US](#)

Stakeholder Input

6) Commercial Net-pen Aquaculture in the Great Lakes Public Input and Comment

Ecological and Environmental Issues

The Science Panel provided several recommendations and cautions if Michigan were to move forward with commercial net-pen aquaculture. At the outset the report states that if Michigan were to allow commercial netpens, it should be with great caution and use an agency managed, scientifically structured active adaptive management design to address and evaluate potential concerns as they arise. This view was affirmed by many who provided public input. The adaptive management process as envisioned by the Panel includes the following:

“The principles of adaptive management for natural resources include experimentation at the relevant management scale, intensive monitoring, and stakeholder involvement (Walters 1986). Thus, the ability to determine the existing ecosystem conditions, monitoring in locations both with and without a perturbation (in this case net-pen aquaculture), understanding the magnitude of change resulting from the perturbation, evaluating the effects of the perturbation (which would necessarily include a rigorous statistical analysis of the data), and then determining appropriate next steps in consultation with stakeholders, thus completing the adaptive management cycle. This cycle should be led and coordinated by a single group for greatest effectiveness; the QOL group may be best positioned to be this body.”

Other provisions included:

- Development of a tool to determine the best locations for commercial netpens as this would be critical to ensuring their safe operation in the Great Lakes. The siting tool should address the technical, legal and social issues of locating netpens. The tool could be similar to the tool developed for siting wind turbines in Michigan waters of the Great Lakes.
- Development of a nutrient tracking modeling tool that would guide placement and understanding of the fate of nutrients contributed by net-pen operation given the inability to collect wastes.
- Use of only fish species that are present in the Great Lakes to avoid a new invasive species.
- Use of sterile/triploid fish to prevent fish escapes from altering the genetics of wild fish in the Great Lakes.
- Use of certified disease-free fish.

- Careful monitoring of netpens by industry to manage for disease, proper use of feed, water quality, ice damage to netpens and over-all integrity of pen systems in the Great Lakes.
- Significant added expertise and capacity from state agencies to properly monitor and manage commercial net-pen aquaculture in the Great Lakes.

During the stakeholder input process, several participants noted a lack of information pertaining to the ecological consequences of netpens in Ontario and in other locations around the world. This information was limited in the reports and inclusion of that additional information would further speak to the importance of implementing the actions noted above to protect the public's interest in the Great Lakes resource if the state were to allow commercial net-pen aquaculture, even in a limited fashion.

Legal Authorities in Michigan

Based on current Michigan law, commercial netpens cannot legally operate in the Michigan portion of the Great Lakes. The Aquaculture Development Act of 1996 (PA 199) states that aquaculture facilities may only be registered by MDARD if they are operating in privately controlled waters. The Great Lakes are not privately controlled waters. Therefore, current state law does not allow the State of Michigan to register a commercial net-pen aquaculture facility in the Great Lakes.

In other permitting actions:

- In order to site a new-pen, a permit would be required under Part 325 of the Natural Resources and Environmental Protection Act (NREPA) (Great Lakes Submerged Lands) would require a permit for placement of netpens in the Great Lakes, mooring buoys, bottom anchors and other materials.
 - Part 325 requires a permit for placement of net-pens mooring buoys, bottom anchors and other materials in the Great Lakes. In addition, Part 325 requires an agreement for the use and occupation of Great Lakes public trust waters and bottomlands by commercial net-pen aquaculture facilities.
 - A permit and conveyance application can be submitted for review by the DEQ at any time. Part 325 requires a 20-day public notice for both the permit application and the bottomlands conveyance application. In addition, a public hearing would be held to gather additional comments. The DEQ has 90 days from the date of a complete application to make a decision or 150 days if a public hearing is held.
 - Part 325 allows a person to appeal a decision by the DEQ through a contested case hearing. The decision from the contested case hearing can then be appealed through the courts.
 - The U.S. Army Corps of Engineers requires the same permit and would conduct its own review. Both agencies would have to give approval for any net-pen aquaculture to be sited in the Great Lakes.
- In order to operate and discharge, a National Pollutant Discharge Elimination System (NPDES) would be required from the DEQ under the federal Clean Water Act and Part 31 (Water Resources Protection) of NREPA.

- An application for an NPDES permit could be submitted at any time and the DEQ has a statutory timeline of 180 days to make a permitting decision. An NPDES permitting action requires an evaluation of both water quality and treatment technology considerations with the most stringent limitations or requirements applied to the operation. In addition, Antidegradation applies to any NPDES permit action that will result in a new or increased loading of pollutants to surface waters of the state.
- The NPDES permit process requires a 30-day public notice. The DEQ expects significant interest in any net-pen aquaculture application received and would hold a public hearing to take comments. Upon consideration of published comments, a decision to issue or deny the permit would be made. Any permitting decision can be appealed through a contested case hearing. The Director of the DEQ is the decision maker on the contested case; however, a challenge of the decision would move the proceedings to the Circuit Court followed by the Court of Appeals and ultimately the Michigan Supreme Court. We expect this would take 5-10 years given recent appeals of NPDES permits.
- A fish stocking permit would be required from the DNR under Part 487 (Sport Fishing) of NREPA. A fish stocking permit in treaty-ceded areas of the Great Lakes would require agreement of the tribal nations to that activity.
- The Great Lakes Fisheries Commission pointed to the agreement amongst states, tribes, and federal agencies called, “*A Joint Strategic Plan for Management of Great Lakes Fisheries,*” to which Michigan is a signatory. The document calls for consensus among management (state and tribal) jurisdictions about proposed management actions in the Great Lakes that may affect other jurisdictions. This governance structure was pointed to in several instances as one that should not be taken lightly in terms of other states, province, and tribal nation input.

Economic Assessments

The U.S. imports about 75 percent of the seafood it consumes. Worldwide, aquaculture provides 50 percent of the fish consumed. In addition, fish is recognized by the U.S. as a key dietary component for those pursuing healthier eating habits. These are opportunities for growth in domestic fish production. However, Michigan faces growth constraints including feed costs (no local producer of feed), insufficient in-State processing capacity, financing and experienced labor. These limitations exist, as noted by others, for both commercial net-pen aquaculture as well as land-based aquaculture enterprises.

The hypothetical best-case modeled results suggest that locating two one million pound commercial netpen aquaculture trout facilities in Michigan could lead to up to 17 direct jobs, an additional 27 jobs from indirect activities (e.g. fish processing) generating annual personal income of \$2.5 million. This volume of production would likely contribute \$10.3 million in total output provided fish processing is done in Michigan. Critics of this modeled outcome suggest the amounts used to generate these results may be an overestimate given the variability of commercial prices for trout in the market.

The over-all economic impact of recreational fishing in the Great Lakes for Michigan is estimated at about \$1 billion per year. Other noted uses include boating and swimming. As a matter of perception, the public input process noted that the tourism industry could be negatively affected because of the viewscape or belief that the water was degraded or not clean for recreational purposes. While some of the economic value for these other sectors would be at risk because of commercial net-pen aquaculture,

we were not able to determine what those actual effects would be. Therefore, we use the economic information to provide general guidance rather than a definitive economic cost-benefit outcome.

Several constituents noted that the economic reports were not as robust as they would have desired and the assessments themselves noted limitations on available data. The agencies worked with the best resources that could be acquired in the short time frame for assessment and recognize that a more robust cost-benefit analysis may have yielded a clearer outcome. However, the analysts providing information for those reports noted the difficulty in obtaining accurate data given the limited sources for the information and a more costly approach may not yield any further certainty.

Tribal Nation Input

Nine of the 12 federally recognized tribes participated in a consultation meeting that we held with them in November 2015. Their concerns and comments are recorded in detail in the public input document. The input the state received from the tribes, both verbally and written, expressed serious concern regarding commercial net-pen aquaculture in the Great Lakes because the activity may negatively affect the fishery and water quality. They also pointed out that they should be included in any process for pursuit of this activity.

Stakeholder Input

Nearly 1,700 written comments were received by the departments. More than 1,600 were in opposition while 11 letters provided support. Of those in opposition, 90% were an electronically submitted form letter through the Food and Water Watch organization. An additional 117 individual comments were received articulating ardent opposition to commercial aquaculture net-pens from individuals from Michigan, Illinois, and Indiana, tribal nation governments, nongovernmental environmental groups (Michigan United Conservation Clubs, National Wildlife Federation, Michigan Trout Unlimited, etc.), and one Great Lakes State Department of Natural Resources (Indiana). One letter was neutral, but strongly supported adhering to the collaborative governance process for fisheries management in the Great Lakes (Great Lakes Fishery Commission).

Those in opposition point to risks to water quality, the fishery (genetics, disease, escapes), and tourism and many of the issues identified by the Science Panel. Some that were opposed to commercial net-pen aquaculture were supportive of recirculating aquaculture and in some cases also supported flow through aquaculture.

Those in support state the provision of jobs, economic benefits to local economies, and provision of a desired product.

Other Considerations

Through the public input process, it was very clear that the state would be challenged to thoroughly evaluate the role of the Public Trust Doctrine in any implementation of commercial net-pen aquaculture in the public waters of the Great Lakes. The QOL Aquaculture Workgroup did not pursue a thorough legal analysis on this issue, but it would be advisable to further understand this aspect of objection.

Program Costs of Implementation

There are no traditional sources of funding to provide for the programming and oversight that commercial net-pen aquaculture would require. New funding would be required to provide for the public's expectation of oversight and protection of the Great Lakes. The following estimates are provided as an example program based on experience in addressing Great Lakes bottomland development (windpower), monitoring (DNR Fisheries Division Great Lakes Assessment Program), and staffing for program assistance, management, and coordination amongst the QOL agencies and with industry.

Initial Investment (2 Years to completion):

Development of a Commercial Net-pen Aquaculture Siting Tool to include facilitation of an external multi-interest stakeholder group	\$350,000
Development of a Commercial Net-pen Aquaculture nutrient input and tracking model	\$500,000
Development of an Adaptive Management Design and Science Panel	\$50,000
Start up costs total:	\$900,000

Ongoing Annual Costs to also include Annual Adaptive Management Science Panel Meeting

Monitoring program to assess water quality, fish health, genetics, invasive species, nutrients, benthos/zooplankton for control locations and far-field net-pen locations with a statistically robust design (could be contracted or assumed internally)	\$1,160,000
MDARD Aquaculture Program (Registration, Inspection, Industry support)	\$1,000,000
DEQ Permitting and Assistance	\$150,000
Science Panel Meetings and Support (staff time, travel, meeting support)	\$25,000
Ongoing annual costs:	\$2,335,000

Thus startup costs for this program would be approximately \$3.33 million with ongoing costs of approximately \$2.4 million annually to create a Great Lakes commercial net-pen aquaculture program that would serve the aquaculture industry while providing the people of Michigan with a scientifically based program to regulate and monitor (in addition to any permit- required facility monitoring at netpen locations) for the protection of the Great Lakes. It is possible that the monitoring requirements to fulfill the adaptive management approach could also be included with the self-monitoring requirements for the operator of the facility as specified in an issued NPDES permit.

Conclusions

The Michigan QOL agencies do not recommend pursuing of commercial net-pen aquaculture in the Great Lakes at this time for the following reasons:

- Given the ecological and environmental risks and uncertainties, as pointed out by the Science Panel and with further information provided through public input, commercial net-pen

aquaculture would pose significant risks to fishery management and other types of recreation and tourism. Furthermore, both collaborating management interests and tribal nation interests would likely not agree to Michigan moving forward and pose a significant challenge in any attempts to do so.

- The \$3.3 million to implement a commercial net-pen aquaculture program by the State to protect the public's interest in the Great Lakes and provide the stated expected service to the industry are not provided through any conventional funding models available to the QOL agencies. There would need to be a new funding stream identified for this industry effort to support initial costs as well as the \$2.33 million needed annually to monitor and maintain the program and protection of the state's resources. This level of public investment for an estimated return of \$10 million (under the modeled scenarios for two facilities) does not appear to be a prudent use of the state's resources at this time.
- Regulatory authority does not currently exist to issue registrations for commercial aquaculture in the Great Lakes.

It is important to note that MDEQ must make a Part 325 and NPDES permitting decision regardless of the ability to license an aquaculture facility. Any policy decision regarding aquaculture in the Great Lakes must be carefully constructed to prevent a preempting of DEQ's permitting processes which could result in unnecessary litigation; and to prevent stimulating permit applications. Decisions made in this process have a very high likelihood of legal challenge.

While not recommending the pursuit of commercial net-pen aquaculture in the public waters of the Great Lakes, the state can and will continue to work within existing authorities to assist the industry in development of well- designed flow through, closed and recirculating aquaculture facilities.