

**Gordon Wenk
September 19, 2018
Commission Meeting**

Issues of Interest

EPA Region 5 Meeting (Sept. 4-5)	RD Fund Board Meeting (Sept. 6)
NASDA Meeting (Sept. 9-12)	China Trade Mission (Sept. 15-22)
Employee Awards Ceremony (Oct. 30)	Exporter of Year (Dr. John's Candies)
Transition Process	

Upcoming Meetings

Sept. 24	MDARD Leadership Team Meeting
Sept. 25	Cabinet Meeting
Sept. 26	QOL Directors Meeting
Oct. 1	DTMB/MDARD Partnership Meeting
Oct. 8	MDARD Division Director Meeting
Oct. 11	Quarterly Meeting w/President Bednarski & Dean Ron Hendrick
Oct. 15	QOL Directors Meeting
Oct. 19	Quarterly Meeting w/USDA Rural Development
Oct. 22	Strategic Action Plan – Offsite Meeting (St. Johns)
Oct. 23	QOL Leadership Academy Kick-Off (Lansing)
Oct. 23	Fertilizer Research Advisory Committee Meeting (East Lansing)
Oct. 24	Speak at Farm Workers, Service Providers & Growers Conf. (Grand Rapids)
Oct. 26	MFB/MDARD Quarterly Meeting (at MFB)
Oct. 29	Speak at MACD Conference (Bellaire)
Oct. 30	MDARD All Supervisor Meeting (Capitol Commons Building)
Oct. 30	MDARD Employee Awards Ceremony (Library & Historical Center)
Nov. 5	MDARD/AG Quarterly Meeting
Nov. 5	QOL Directors Meeting
Nov. 7	Ag Commission Meeting & Tour (Fennville)

Michigan Agriculture Environmental Assurance Program Advisory Council



Michigan Commission of Agriculture and Rural Development
September 19, 2018



MAEAP Mission

To develop and implement a proactive environmental assurance program that targets all size Michigan farms and all commodities, ensuring that farmers are engaging in cost effective pollution prevention practices and working to comply with state and federal environmental regulations.



MAEAP Advisory Council

Co-Chairs

Laura Campbell – Michigan Farm Bureau

Ron Bates - Michigan State University Extension

Advisory Council is comprised of 30 members from 27 organizations which represent a broad base of stakeholders from across the natural resource, conservation and agriculture communities.



MAEAP Advisory Council

Blight Farms	MDARD	MI Wheat Growers Assoc.
Cherry Marketing Institute	MDEQ	Shady Logging, LLC
Darling Forestry	MI Environmental Council	Sharrard Dairy Farms, LLC
Greenstone Farm Credit	MI Food & Farming Sys.	Shiawassee Cons. Dist.
Herbruck's Poultry Ranch	MI Pork Producers Assoc.	Suchovsky Logging, LLC
MI AgriBusiness Association	MI State Farm Serv. Agency	The Nature Conservancy
MI Apple Committee	MI Farm Bureau	True Blue Farms
MI Assoc. Conservation Districts	MSU Extension	USDA – NRCS
MI Corn Growers Assoc.	MSU AgBioResearch/CANR	Weyerhaeuser OSB



MAEAP Advisory Council

Purpose:

Be Advisory to the MDARD Director to;

Implement a Michigan agriculture environmental assurance program designed to promote natural resources conservation through education, technical assistance, and verification. The MAEAP shall be a voluntary program that is available to farms throughout the state.



System Sub-Committees

Livestock Sub-Committee

- Co-Chairs – Kevin Gould, MSUE, Dean Letter, MMPA
Ernie Birchmeier, MFB

Farmstead Sub-Committee

- Chair – Laura Doud, MDARD – Interim

Cropping Sub-Committee

- Chair – Josh Appleby, MDARD – Interim

Forest, Wetland and Habitat Sub-Committee

- Co-Chairs – Jason Darling, Darling Forestry, Gib King, US
Fisheries and Wildlife Service



MAEAP Advisory Council

Advisory Council meets 4 times per year:

- Receives updates from Advisory Council Members
- Makes recommendations to the Director for Program implementation and management
- Sets deadlines for the system approval process based on Commission schedule
- Reviews recommendations from System sub-committees
- Discusses, amends and makes final recommendations to Commission and Director
- Receives status reports of the MAEAP program from MDARD
- Accepts Public comment



FY'16-FY'17 Accomplishments

- Over 367,000 acres with Nutrient Management Plans (575 Sq. Miles)
- Over 61,000 acres in cover crops (95 Sq. Miles)
- Over 540,000 tons of soil kept in place
- Almost 900,000 pounds of P kept in fields
- Over 2 million pounds of N kept in fields



MAEAP efforts in the WLEB FY16-17

- 7 local conservation district technicians
- Acres of Conservation Tillage--~25,000 Acres
- Almost 51,000 acres with NMP's
- Acre of Cover Crops- ~8,000 Acres
- Total Pounds P reduced-91,000 Pounds
- Total Sediment reduced-119,000 Tons
- Over \$2M cost share through Regional Conservation Partnership Program



Michigan Farmers are Proud to be Recognized for their Stewardship!





ADVISORY COUNCIL

Revised 9.4.2018

Co-Chairs: Dr. Ronald Bates, MSUE and Laura Campbell, MFB

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ADVISORY COUNCIL

Revised 9.4.2018

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Cropping Systems Subcommittee

2018 Proposed Amendments to Crop*A*Syst – Field Crop and Vegetable

Date: 4/19/2018

Submitter: Kristen Esch

Reason for Amendments: To be consistent with new Food Safety Modernization Act recommendations

Current Text

<p>5.08) How are manure applications managed to prevent any food safety risk(s)?</p>	<p>Manure application records document manure is incorporated and applied 270 or more days prior to harvest.</p>	<p>Manure application records document manure is incorporated and applied 120 or more days prior to harvest.</p>	<p>Manure is applied less than 120 days prior to harvest.</p>	<p>Note: USDA Good Agricultural Practices ≥120 days before harvest. FDA Food Safety Modernization Act ≥270 days before harvest (proposed).</p>	
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Proposed Text

<p>5.08) How are manure applications managed to prevent any food safety risk(s)?</p>	<p>Manure application records document manure is incorporated and applied 270 or more days prior to harvest.</p>	<p>Manure application records document manure is incorporated and applied 120 or more days prior to harvest.</p>	<p>Manure is applied less than 120 days prior to harvest.</p>	<p>Note: USDA Good Agricultural Practices ≥120 days before harvest. The Food Safety Modernization Act currently recommends using the National Organic Program guidelines for raw manure pre-harvest application interval</p>	
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Proposed Text approved (date): 6-11-18 by MAEAP AC

Date: 4/19/2018

Submitter: Kristen Esch

Reason for Amendments:

Cropping Systems Subcommittee

2018 Proposed Amendments to Cropping – Fruit*A*Syst

Date: 4/19/2018

Submitter: Kristen Esch

Reason for Amendments: To be consistent with new Food Safety Modernization Act recommendations

Current Text

<p>1.27) How are manure applications managed to prevent any food safety risk(s)?</p>	<p>Manure application records document manure is incorporated and applied 270 or more days prior to harvest.</p>	<p>Manure application records document manure is incorporated and applied 120 or more days prior to harvest.</p>	<p>Manure is applied less than 120 days prior to harvest.</p>	<p>Note: USDA Good Agricultural Practices \geq120 days before harvest. FDA Food Safety Modernization Act \geq270 days before harvest (proposed).</p>	
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Proposed Text

<p>1.27) How are manure applications managed to prevent any food safety risk(s)?</p>	<p>Manure application records document manure is incorporated and applied 270 or more days prior to harvest.</p>	<p>Manure application records document manure is incorporated and applied 120 or more days prior to harvest.</p>	<p>Manure is applied less than 120 days prior to harvest.</p>	<p>Note: USDA Good Agricultural Practices \geq120 days before harvest. <i>The Food Safety Modernization Act currently recommends using the National Organic Program guidelines for raw manure pre-harvest application interval</i></p>	
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Proposed Text approved (date): 6-11-18 by MAEAP AC

Cropping Systems Subcommittee

2018 Proposed Amendments to Cropping – Fruit*A*Syst

Date: 4/19/2018

Submitter: Kristen Esch

Reason for Amendments:

Current Text

<p>Fruit 1.28) How are biosolids with pathogens prevented from contacting crops grown for human consumption?</p>	<p>Biosolids with pathogens present (Class B biosolids) are applied only to non-bearing trees and plant areas, or harvest restrictions are followed.</p> <p>(Class A biosolids are essentially pathogens free with no restrictions for land application. Class B biosolids have low levels of pathogens and have restrictions and harvest intervals when land applied.)</p>		<p>Biosolids with pathogens present (Class B biosolids) are applied to active fruit production areas without regard to harvest restrictions. ⁴</p>	<p>Application records kept for Biosolids applications and can be compared with fruit production records.</p>	
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Proposed Text

<p>Fruit 1.28) How are biosolids with pathogens prevented from contacting crops grown for human consumption?</p>	<p>Biosolids are not used on crops grown for human consumption or Biosolids with pathogens present (Class B biosolids) are applied only to non-bearing trees and plant areas, or harvest restrictions are followed.</p> <p>(Class A biosolids are essentially pathogens free with no restrictions for land application. Class B biosolids have low levels of pathogens and have restrictions and harvest intervals when land applied.)</p>		<p>Biosolids with pathogens present (Class B biosolids) are applied to active fruit production areas without regard to harvest restrictions.⁴</p>	<p>Application records kept for Biosolids applications and can be compared with fruit production records.</p>	
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Proposed Text approved (date): 6-11-18 by MAEAP AC

Cropping Systems Subcommittee

2018 Proposed Amendments to Cropping – Fruit*A*Syst

Date: 4/19/2018

Submitter:

Reason for Amendments:

Current Text

<p>6.02) Does the farm business have a food safety plan that is followed to reduce the risk of foodborne illness?</p>	<p>A written food safety plan exists and is being implemented.</p>	<p>Food safety practices are generally followed, but not documented in a written plan.</p>	<p>A food safety program is not available.</p>	<p>Note: This is a GAP (Good Agricultural Practices) requirement. USDA will not certify the farm without a documented food safety program.</p>	
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Proposed Text

<p>6.02) Does the farm business have a food safety plan that is followed to reduce the risk of foodborne illness?</p>	<p>A written food safety plan exists and is being implemented.</p>	<p>Food safety practices are generally followed, but not documented in a written plan.</p>	<p>A food safety program is not available.</p>	<p>Note: This is a GAP (Good Agricultural Practices) requirement. USDA will not certify the farm without a documented food safety program. Not required by Food Safety Modernization act but is recommended.</p>	
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Proposed Text approved (date): 6-11-18 by MAEAP AC

Cropping Systems Subcommittee

2018 Proposed Amendments to Cropping – Fruit*A*Syst

Date: 4/19/2018

Submitter:

Reason for Amendments:

Current Text

<p>6.03) Does the farm business have a person designated to implement and oversee a food safety plan?</p>	<p>The designated food safety person is documented in the food safety plan.</p>		<p>There is no designated food safety person.</p>	<p>Note: This is a GAP (Good Agricultural Practices) requirement. USDA will not certify the farm without a food safety designee.</p>	
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Proposed Text

<p>6.03) Does the farm business have a designated food safety person?</p>	<p>The farm business has a designated food safety person(s) and they have gone through the Produce Safety Alliance grower training or equivalent.</p>	<p>The farm business has a designated food safety person(s)</p>	<p>There is no designated food safety person.</p>	<p>Note: This is a GAP (Good Agricultural Practices) requirement. USDA will not certify the farm without a food safety designee.</p>	
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Proposed Text approved (date): 6-11-18 by MAEAP AC

Cropping Systems Subcommittee

2018 Proposed Amendments to Cropping – Greenhouse*A*Syst

Date: 4/19/2018

Submitter: Kristen Esch

Reason for Amendments:

Current Text

<p>7.20) How are unwanted media and other organic wastes disposed?</p>	<p>Media and organic wastes are separated from containers and composted or land applied. Compost pile stored in a location protected from leaching and runoff.</p>		<p>Media and organic wastes stored in an unprotected site. Nutrients can leach into the groundwater or runoff into surface water.⁹</p>	<p>Environmentally safe disposal demonstrated.</p>	
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Proposed Text

<p>7.20) How are unwanted media and other organic wastes disposed?</p>	<p>Media and organic wastes are separated from containers and composted or land applied. Compost pile stored in a location protected from leaching and runoff.</p>		<p>Media and organic wastes stored in an unprotected site. Nutrients can leach into the groundwater or runoff into surface water.⁹</p>	<p>Environmentally safe disposal demonstrated. Note: The Food Safety Modernization Act Produce Safety Rule may apply</p>	
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Proposed Text approved (date): 6-11-18 by MAEAP AC

Cropping Systems Subcommittee

2018 Proposed Amendments to Cropping – Greenhouse*A*Syst

Date: 4/19/2018

Submitter: Kristen Esch

Reason for Amendments:

Current Text

<p>8.08) Are there any signs of trouble with the septic system?</p>	<p>Greenhouse sanitary drains flow normally. No sewage odors inside or outside. Soil over drain field firm and dry. Well water tests negative for coliform bacteria.</p>	<p>Greenhouse sanitary drains run slowly or soil over drain field is sometimes wet.</p>	<p>Sewage odors noticed in the greenhouse or near the drain field. Drains plugged or backed up. Soil wet or spongy in the drain field area. Well water tests positive for coliform bacteria.</p>		
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Proposed Text

<p>8.08) Are there any signs of trouble with the septic system?</p>	<p>Greenhouse sanitary drains flow normally. No sewage odors inside or outside. Soil over drain field firm and dry. Well water tests negative for coliform bacteria.</p>	<p>Greenhouse sanitary drains run slowly or soil over drain field is sometimes wet.</p>	<p>Sewage odors noticed in the greenhouse or near the drain field. Drains plugged or backed up. Soil wet or spongy in the drain field area. Well water tests positive for coliform bacteria.</p>	<p>Note: The Food Safety Modernization Act Produce Safety Rule may apply</p>	
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Proposed Text approved (date): 6-11-18 by MAEAP AC

Farmstead System Subcommittee

2018 Proposed Amendments to Farm*A*Syst

Date: 4/19/2018

Submitter: Laura Doud

Reason for Amendments: replace "greenhouse" with "farm"

Current Text

<p>2.15) Is the farm, or portions of the farm, included in a community wellhead protection area?</p>	<p>No.</p>	<p>Yes, or don't know, and soil characteristics and greenhouse operations pose minimal risks to groundwater.</p>	<p>Yes, and soil characteristics and/or greenhouse operations pose significant risks to groundwater.</p>		
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Proposed Text

<p>2.15) Is the farm, or portions of the farm, included in a community wellhead protection area?</p>	<p>No.</p>	<p>Yes, or don't know, and soil characteristics and greenhouse farm operations pose minimal risks to groundwater.</p>	<p>Yes, and soil characteristics and/or greenhouse farm operations pose significant risks to groundwater.</p>		
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Proposed Text approved (date): 5/30/2018

Farmstead Systems Subcommittee

2018 Proposed Amendments to Farm*A*Syst

Date: 4/19/2018

Submitter: Tom Young

Reason for Amendments: Clarify medium risk for when manifolds are allowable, and under what conditions

Current Text

<p>6.19) Are siphons, manifolds or internal pressure discharge devices present on tank(s)?</p>	<p>Siphons not present on tank(s). Multiple tanks not connected together (no manifold). No internal pressure discharge device present.</p>	<p>Manifold(s) present on tanks installed prior to 2003. After 2003, tanks that are located within diked containment, equipped with a spill bucket and audible overfill alarm may have top only manifolds.</p>	<p>Siphons or internal pressure discharge device(s) present on tanks installed after 2003.¹⁶</p>	<p>No siphons or internal pressure discharge devices present. No manifolds present on tanks installed after 2003 Unless additional protection factors are present.</p>	
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Proposed Text

<p>6.19) Are siphons, manifolds or internal pressure discharge devices present on tank(s)?</p>	<p>Siphons not present on tank(s). Multiple tanks not connected together (no manifold). No internal pressure discharge device present.</p>	<p>Manifold(s) present on tanks installed prior to 2003. After 2003, tanks that are located within diked containment, equipped with a shut off valve for each tank, a spill bucket and audible overfill alarm may have top only manifolds.</p>	<p>Siphons or internal pressure discharge device(s) present on tanks installed after 2003.¹⁶</p>	<p>No siphons or internal pressure discharge devices present. No manifolds present on tanks installed after 2003 Unless additional protection factors are present.</p>	
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Proposed Text approved (date): 5/30/2018

Farmstead Systems Subcommittee

2018 Proposed Amendments to Farm*A*Syst

Date: 3/30/2017

Submitter: Tom Young

Reason for Amendments:

Current Text

<p>6.26) Is the tank registered and is valid proof of registration displayed?</p>	<p>The above-ground storage tank with capacity greater than 1,100 gallons is registered, and valid proof of registration is available.</p>	<p>The total volume of fuel storage on site is less than 10,000 gallons. The tank is not registered, or valid proof of registration is not available,¹⁶ but an inspection finds it meets all applicable boxed MAEAP requirements in the Petroleum Products Storage and Management Section.</p>	<p>The tank is not registered and/or the tank does not bear a UL tag, and/or valid proof of registration is not available.¹⁶</p>	<p>Aboveground storage tank is registered or there are minimal environmental risks.</p>
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Proposed Text

<p>6.26) Is the tank registered and is valid proof of registration displayed?</p>	<p>The above-ground storage tank with capacity greater than 1,100 gallons is registered, and valid proof of registration is available.</p>	<p>The total volume of fuel storage on site is less than 10,000 gallons. For above-ground storage tanks with a capacity greater than 1,100 gallons, but less than 3,000 gallons. †the tank is not registered, or valid proof of registration is not available,¹⁶ but an inspection finds it meets all applicable boxed MAEAP requirements in the Petroleum Products Storage and Management Section.</p>	<p>The tank is not registered and/or the tank does not bear a UL tag, and/or valid proof of registration is not available.¹⁶</p>	<p>Aboveground storage tank is registered or there are minimal environmental risks.</p>
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☒ Proposed Text approved (date): 5/30/2018

Farmstead Systems Subcommittee

2018 Proposed Amendments to Farm*A*Syst

Date: 3/30/2017

Submitter: Laura Doud

Reason for Amendments: Add additional requirement for audible alarms for tanks >1100 gallons. Renumbering the rest of the standards.

Current Text

6.30) NA	NA	NA	NA	NA	
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Proposed Text

6.30) Does the tank have an audible alarm	Audible alarm is present		No audible alarm ¹⁶		
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Proposed Text approved (date): 5/30/2018

Farmstead Systems Subcommittee

2018 Proposed Amendments to Farm*A*Syst

Date: 4/19/2018

Submitter: Laura Doud

Reason for Amendments: Remove the word “not” from the high risk

Current Text

<p>7.11) Are used motor oil, new oil and hydraulic oil stored in acceptable containers and properly isolated from drinking water wells?</p>	<p>Oil in acceptable containers stored on impermeable floor or in secondary containment, and with reasonable isolation from any well and does not discharge to surface water.</p>	<p>Oil stored in acceptable containers, but with inadequate isolation from any well and does not discharge to surface water.</p>	<p>Oil stored in leaking containers. Evidence of oil soaking into the soil and/or does not discharge to surface water.⁴</p>	<p>Acceptable oil storage demonstrated.</p>	
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Proposed Text

<p>7.11) Are used motor oil, new oil and hydraulic oil stored in acceptable containers and properly isolated from drinking water wells?</p>	<p>Oil in acceptable containers stored on impermeable floor or in secondary containment, and with reasonable isolation from any well and does not discharge to surface water.</p>	<p>Oil stored in acceptable containers, but with inadequate isolation from any well and does not discharge to surface water.</p>	<p>Oil stored in leaking containers. Evidence of oil soaking into the soil and/or does not discharge to surface water.⁴</p>	<p>Acceptable oil storage demonstrated.</p>	
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Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2018 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

CURRENT DOCUMENT

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
COMPLIANCE WITH LAWS					
1.07) Does the landowner comply with all relevant federal and state laws and local ordinances?	Landowner complies with all applicable environmental laws, to his or her best knowledge.	Landowner is working toward falling into compliance with applicable environmental laws.	Does not comply with applicable environmental laws. ^{1,2}		

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
COMPLIANCE WITH LAWS					
1.07) Does the landowner comply with all relevant applicable environmental federal and state laws and local ordinances?	Landowner complies with all applicable environmental laws, to his or her best knowledge.	Landowner is working toward falling into compliance with applicable environmental laws.	Does not comply with applicable environmental laws. ^{1,2}		

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2018 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

CURRENT DOCUMENT:

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
AIR, WATER AND SOIL PROTECTION					
1.10) Have streams, lakes, and ponds been identified?	If present, streams, lakes and ponds have been identified and Riparian Management Zones (RMZs) established. Prior to any management activities, a plan that follows Sustainable Soil and Water Quality Practices (SSWQP) is developed and communicated. Plan is developed by appropriate resource professional.	Streams, lakes and ponds have been identified on the property. No management plan has been developed. Qualified logging professionals are used for timber harvests.	Streams, lakes, ponds have not been identified.	Map in Land Management Plan.	
1.12) Have all wetlands including, but not limited to, bogs, fens, swamps, marsh or vernal pools been identified?	Wetlands including, but not limited to, bogs, fens, swamps, marsh or vernal pools have been identified and Riparian Management Zones (RMZs) established in the Land Management Plan (LMP). Prior to any management activities, a plan addressing soil erosion and sedimentation that follows Sustainable Soil and Water Quality Practices (SSWQP) for forestland and/or Soil and Sedimentation Manual is developed and communicated. Plan is developed by appropriate resource professional.	Wetlands including, but not limited to, bogs, fens, swamps, marsh or vernal pools have been identified. No LMP has been developed. Qualified logging professionals are used for timber harvests, if timber harvesting occurred.	Wetlands including, but not limited to, bogs, fens, swamps, marsh or vernal pools have not been identified. Untrained contractors/property owners conduct activities in or around these features.	Map in Land Management Plan.	

PROPOSED CHANGE & NOTES:

1.10) Remove and combine 1.12 with 1.10.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
AIR, WATER AND SOIL PROTECTION					
1.10) Have streams, lakes, and ponds, and wetlands; including but not limited to: bogs, fens, swamps, marshes, or vernal pools, been noted or mapped in the Land Management Plan (LMP)? been identified?	If present, streams, lakes, ponds and ponds wetlands have been identified noted or mapped in the LMP. and Riparian Management Zones (RMZs) established are described in the LMP and implemented. Prior to any management activities, a plan that follows Sustainable Soil and Water Quality Practices (SSWQP) is developed and communicated. Plan is developed by appropriate resource professional.	Streams, lakes, ponds and wetlands have been identified on the property. No management plan has been developed. Qualified logging professionals are used for timber harvests.	Streams, lakes, ponds have not been identified.	Map in Land Management Plan. And/Or Supplemental MI DEQ Wetland Mapper Documentation. And/Or Written documentation within LMP.	

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2018 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

CURRENT DOCUMENT

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
AIR, WATER AND SOIL PROTECTION					
1.11) Have designated trout streams, natural rivers, wild and scenic rivers been Identified?	If present, designated trout streams, natural rivers, and wild and scenic rivers have been identified, Riparian Management Zones (RMZs) established and a management plan has been written by a qualified resource professional.	Landowner is aware that designated trout streams, natural rivers, wild and scenic rivers exist on the property, but no management plan has been developed or implemented.	Designated trout streams, natural rivers, and wild and scenic rivers exist on the property, but landowner was not aware of the designation.	Map in Land Management Plan.	

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

1.11) We added clarification here to make sure these features were mapped as well as discussed our outlined in the LMP in some way. Also ensuring that RMZs have been implemented.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
AIR, WATER AND SOIL PROTECTION					
1.11) Have designated trout streams, natural rivers, wild and scenic rivers discussed and mapped in the Land Management Plan (LMP)? been Identified?	If present, designated trout streams, natural rivers, and wild and scenic rivers have been identified discussed and mapped in the LMP. Riparian Management Zones (RMZs) are discussed an/or mapped in the LMP. RMZ's have been implemented. established and a management plan has been written by a qualified resource professional.	Landowner is aware that designated trout streams, natural rivers, wild and scenic rivers exist on the property, but no management plan has been developed or implemented.	Designated trout streams, natural rivers, and wild and scenic rivers exist on the property, but landowner was not aware of the designation.	Map in Land Management Plan. Documentation and map in LMP.	

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RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
AIR, WATER AND SOIL PROTECTION (CONTINUED)					
1.15) If used on the property, how are pesticides applied?	Pesticides are applied in accordance with Sustainable Soil and Water Quality Practices (SSWQP) and with Environmental Protection Agency (EPA)-approved labels and by persons appropriately trained, certified, licensed and supervised, etc.	Pesticides are EPA-approved, but not used in accordance to SSWQP.	Pesticides are not applied in accordance with EPA regulations and SSWQP.		

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

1.15) We added Fertilizers to this question.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
AIR, WATER AND SOIL PROTECTION (CONTINUED)					
1.15) If used on the property, how are pesticides applied?	Pesticides are applied in accordance with Sustainable Soil and Water Quality Practices (SSWQP) and with Environmental Protection Agency (EPA)-approved labels and by persons appropriately trained, certified, licensed and supervised, etc. Accurate records are maintained of all applicable applications of pesticides for at least three years.	Pesticides are EPA-approved, but not used in accordance to SSWQP.	Pesticides are not applied in accordance with EPA regulations and SSWQP.	Pesticide records for the past three years on file (or plans for records). -Date of application -Time of application -Pesticide brand/product name -Pesticide formulation -EPA registration number -Active ingredient(s) -Restricted-entry interval (REI) -Rate per acre or unit -Crop, commodity, stored product, or site that received the application -Total amount of pesticide applied -Size of area treated -Applicator's name -Applicator's certification number -Location of the application -Method of application -Target pest -Carrier volume per acre	

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We need to add a new 1.16 to cover fertilizers. Re-number as appropriate. Both low risk and medium risk are boxed blue.

1.16) We added a new question to deal with fertilizer application

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
AIR, WATER AND SOIL PROTECTION (CONTINUED)					
1.15) What soil nutrient management records are kept?	Records of soil test reports and quantities of nutrients applied to individual areas are maintained.	Partial nutrient management records are kept. Complete nutrient management records will be kept in the future, for review at time of reverification.	Minimal or no nutrient management records kept.	Three years of records – or five years, if applying manure – or plans to begin keeping records. Soil fertility tests and/or plant analysis results. Date(s) of application(s). Nutrient composition of fertilizer or other material used. Amount of nutrient-supplying material applied per acre. Method of application and placement of applied nutrients. Vegetative growth and cropping history of perennial crops.	

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RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
HABITAT RESTORATION AND DEVELOPMENT					
1.21) How are terrestrial and aquatic invasive species on forestlands, wetlands and other non-agricultural areas addressed on the property?	Invasive species are identified and mapped on the property and all areas are actively being treated and reported to the Midwest Invasive Species Information Network (MISIN).	Invasive species are identified and mapped on the property and a portion of the area is actively being treated.	No effort has been made to identify and map invasive species and no treatment action is being taken. OR Invasive species are actively spreading on the property.		

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

1.21) We added 'non-native' and 'pests' to this question. Also clarified how to map and/or describe the presence of the plant or pest in the LMP.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
HABITAT RESTORATION AND DEVELOPMENT					
1.21) How are terrestrial and aquatic invasive species non-native terrestrial and aquatic invasive plants and pests on forestlands, wetlands, and other non-agricultural areas addressed on the property?	Invasive species are identified and mapped on the property and all areas are actively being treated and reported to the Midwest Invasive Species Information Network (MISIN). Non-native terrestrial and aquatic invasive plants and pests are identified, and mapped, or described for each cover type or management unit on the property. All areas are actively being treated as described in the Land Management Plan (LMP) and Non-native terrestrial and aquatic invasive plants and pest occurrence and location is being reported to the Midwest Invasive Species Information Network (MISIN).	Invasive species are identified and mapped on the property and a portion of the area is actively being treated. Non-native terrestrial and aquatic invasive plants and pests are identified, and mapped, or described for each cover type or management unit. Treatment activities outlined in the LMP is being appropriately implemented. on the property and a portion of the area is actively being treated.	No effort has been made to identify and map invasive species and no treatment action is being taken. OR Invasive species are actively spreading on the property.		

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RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
3.01) Has the quality of the wetlands been assessed and any resource concerns been noted?	Yes, assessment was conducted and noted in the Land Management Plan.	Partially.	No.		

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

3.01) Low Risk box was changed to provide better direction.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
3.01) Has the quality of the wetlands been assessed and any resource concerns been noted/ documented in the Land Management Plan (LMP)?	Yes, assessment was conducted and noted in the Land Management Plan. If impairments are found, landowner has been provided information and resources to contact proper agency personnel trained in wetland restoration.	P Wetlands have been partially assessed.	No.		

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RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
3.02) Are all wetlands, streams, farm ditches and other water bodies on the property protected from polluted runoff and sediment with conservation practices?	Filter strips, riparian buffer strips, grassed waterways and other conservation practices are maintained between fields and all surface water on the property.	Conservation practices are maintained on some fields.	No conservation practices are maintained.		

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

3.02) Low Risk was **BOXED BLUE**. 'Where applicable' was added. A few scenarios where this wouldn't apply were discussed. Wanted to provide the technicians and verifiers room for interpretation. However, when CP's are applicable, we want them implemented.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
3.02) Are all wetlands, streams, farm ditches and other water bodies on the property protected from polluted runoff and sediment with conservation practices?	Where applicable, filter strips, riparian buffer strips, grassed waterways and other conservation practices are maintained between fields and all surface water on the property.	Where applicable, conservation practices are maintained on some fields.	No conservation practices are maintained.		

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RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
3.03) Are wetlands (hydrologically, vegetatively) assessed for restoration potential by agency personnel or others trained in wetlands restoration?	Restoration potential is assessed on all wetland basins. OR A wetlands survey has been completed and no wetlands exist on the property.	Restoration potential is assessed for some wetland basins.	No assessment of wetland basins has been started.		

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

3.03) Low Risk was **UN-BOXED BLUE**. We actually think this was an error and was never intended to be boxed. This is more of an educational question. We need to further define Wetland Restoration and Wetland Restoration Potential and potentially add that information to the resources on page 18. We are also reviewing if assessing per wetland basin is appropriate; might be too large of a scale to adequately assess.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
3.03) Are wetlands (hydrologically, vegetatively) assessed for restoration potential by agency personnel or others trained in wetlands restoration?	Restoration potential is assessed on all wetland basins. OR A wetlands survey has been completed and no wetlands exist on the property.	Restoration potential is assessed for some wetland basins.	No assessment of wetland basins has been started.		

Michigan Agriculture Environmental Assurance Program
 Cropping Systems Subcommittee
Summary of Proposed Amendments for 2018 Crop A Syst – Field Crop and Vegetable

Number	Approval Date	Reason for Change
5.08		Change to be consistent with new recommendations in the Food Safety Modernization act
		Add “Food Safety Modernization Act Food Safety Rule” to Table 2 in Field Crop and Vegetables

Michigan Agriculture Environmental Assurance Program
 Cropping Systems Subcommittee
Summary of Proposed Amendments for Fruit A Syst

Number	Approval Date	Reason for Change
1.27		Change to be consistent with new recommendations in the Food Safety Modernization act
1.28		Change Risk levels to be consistent with food safety recommendations
6.02		Added language to differentiate between GAP and FSMA requirements
6.03		Changed language to be consistent with FSMA PSR
		Add "Food Safety Modernization Act Food Safety Rule" to Table 2 in Fruit A Syst

Michigan Agriculture Environmental Assurance Program
 Cropping Systems Subcommittee
Summary of Proposed Amendments for 2018 Cropping – Greenhouse*A*Syst

Number	Approval Date	Reason for Change
7.20		Add Language to reference Food Safety Modernization Act
8.08		Add Language to reference Food Safety Modernization Act
		Add “Food Safety Modernization Act Food Safety Rule” to Table 3 in Greenhouse*A*Syst

Michigan Agriculture Environmental Assurance Program
Cropping Systems Subcommittee
Summary of Proposed Amendments for 2018 Cropping – Nursery and Christmas Tree

Number	Approval Date	Reason for Change
		No
		Recommended
		Changes

Michigan Department of Agriculture and Rural Development
Michigan Agriculture Environmental Assurance Program
 Farmstead Systems Subcommittee
Summary of 2018 Proposed Amendments to Farm*A*Syst

Number	Approval Date	Reason for Change
2.15		Language from the Greenhouse tool. Change Green house to Farmstead
6.19		Clarify medium risk for when manifolds are allowable, and under what conditions.
6.26		Change medium risk to allow MAEAP verification for tanks without registration to <3000 gallons. All others need registration
6.xx		New Standards question to for the requirement of audible alarms on tanks >1100 gallons, Blue Boxed Low Risk
7.11		Remove the word “not” from the high risk

Michigan Department of Agriculture and Rural Development
Michigan Agriculture Environmental Assurance Program
 Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2018 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

Number	Reason for Change
Definition section to Table 1 on page 18	Land Management Plan: A customized, written document that reviews, analyzes and describes all non-agriculture land including but not limited to forests, grasslands, shrublands, and all types of wetlands and water bodies including but not limited to streams, lakes, ponds, bogs, fens, swamps, marshes and vernal pools.
References section to Table 1 on page 18	MI DEQ Wetlands Map Viewer: Add link to page 18 in the Reference Fact Sheet. https://www.mcgi.state.mi.us/wetlands/mcgiMap.html (6/12/2018)
Add Contacts section to Table 1 of page 18	Contact information for wetland specialists: US Fish and Wildlife Service: (517) 351-2241. MI DEQ Water Resources Division: 517-284-5567.
1.07)	We added 'applicable environmental' laws and removed 'to his or her best knowledge'.
1.10) and 1.12)	Remove and combine 1.12 with 1.10.
1.11)	We added clarification here to make sure these features were mapped as well as discussed our outlined in the LMP in some way. Also ensuring that RMZs have been implemented.
1.15)	We added a method of recording.
ADD A NEW 1.16)	Addressing Fertilizers in a new question. Re-number as appropriate.
1.21)	We added 'non-native' and 'pests' to this question. Also clarified how to map and/or describe the presence of the plant or pest in the LMP.
3.01)	Low Risk box was changed to provide better direction.
3.02)	Low Risk was BOXED BLUE . 'Where applicable' was added. A few scenarios where this wouldn't apply were discussed. Wanted to provide the technicians and verifiers room for interpretation. However, when CP's are applicable, we want them implemented.
3.03)	Low Risk was UN-BOXED BLUE . We actually think this was an error and was never intended to be boxed. This is more of an educational question. We need to further define Wetland Restoration and Wetland Restoration Potential and potentially add that information to the resources on page 18. We are also reviewing if assessing per wetland basin is appropriate; might be too large of a scale to adequately assess.

Michigan Agriculture Environmental Assurance Program
Livestock Systems Subcommittee
Summary of Proposed Amendments for 2018 Livestock*A*Syst

Number	Approval Date	Reason for Change
		No
		Recommended
		Changes

Generally Accepted Fruit, Vegetables, Dairy, Meat, and Grain Processing Practices For Noise and Odor



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PREFACE

The Michigan legislature passed into law the Michigan Agricultural Processing Act, (1998 PA 381), which requires the establishment of Generally Accepted Fruit, Vegetable, Dairy, Meat and Grain Processing Practices. These Generally Accepted Processing Practices (GAPPs) are written to provide uniform, statewide standards and acceptable management practices based on standard industry practices. These practices can serve processors in the various sectors of the industry for comparison or improvement of their own managerial routines. New scientific discoveries and changing economic conditions may require necessary revision of the GAPPs.

These practices were developed with industry, university, and multi-governmental agency input. As agricultural processing operations continue to change, new practices or technologies may become available to address the concerns of the neighboring community. Agricultural processors who voluntarily follow these practices are provided protection from public or private nuisance litigation under the Michigan Agricultural Processing Act.

Adherence to these GAPPS does not affect the application of other state and federal statutes.

The Michigan Department of Agriculture and Rural Development (MDARD) website for GAPPs is <http://www.michigan.gov/gapps>.

I. INTRODUCTION

Like all other segments of our economy, agriculture has changed significantly during the past 50 years and will continue to change in the future. Agricultural processing has also experienced these same economic, technical, and competitive changes, as land use changes around these operations. As a result, processing facilities must have the flexibility and opportunity to change and adopt newer technology to remain economically viable and competitive in the marketplace while being protective of the environment. If a healthy, growing processing industry in Michigan is to be assured, efforts must continue to address concerns of processors and their neighbors, particularly in two areas: (1) processors who use GAPPs in their operations should be protected from harassment and nuisance complaints and (2) persons living near processing operations, who do not follow GAPPs, need to have concerns addressed when nuisance problems occur.

No two processing operations in Michigan can be expected to be the same, due to a large variety of variables, which together determine the nature of a particular operation. Record keeping is an important part of any processing operation. A GAPPs Management and Monitoring Plan is recommended for all processors. This plan will help the processor show conformance with the GAPPs. Processors may request a proactive inspection from MDARD for a GAPPs determination. Upon receipt of a nuisance complaint to MDARD, or as result of a proactive inspection, the processor may be required to develop a management and record keeping plan to verify conformance with the GAPPs. In addition to the information contained in this document, conformance with GAPPs requires that the management, storage, transport, utilization, and land application of fruit, vegetable, dairy product, meat, and grain processing by-products be in a manner consistent with Generally Accepted Agricultural and Management Practices as established under the Michigan Right to Farm Act, 1981 PA 93, MCL 286.471 to 286.474.

About This Document

For quick reference, management standards are first presented as a **bold text** statement. This list is not meant to convey all the information regarding GAPPs. Rather, it is intended to be a useful tool to assist individuals in determining what management practices exist and in what section of this document further information can be found. The remainder of the document provides additional information on each of these management practices. The un-bolded text provides supplemental information to help clarify the intent of the recommended management practices.

Appendix A provides an outline for development of a GAPPs Management Plan.

II. DEFINITIONS

- (a) "Dairy product" means all of the following:
- (i) Dairy product as that term is defined in section 12 of the manufacturing milk law of 2001, 2001 PA 267, MCL 288.572.
 - (ii) Milk product as that term is defined in section 4 of the grade A milk law of 2001, 2001 PA 266, MCL 288.474.
- (b) "Fruit and vegetable product" means those plant items used by human beings for human food consumption including, but not limited to, field crops, root crops, berries, herbs, fruits, vegetables, flowers, seeds, grasses, tree products, mushrooms, and other similar products, or any other fruit and vegetable product processed for human consumption as determined by the Michigan Commission of Agriculture and Rural Development.
- (c) "Generally accepted fruit, vegetable, dairy product, meat, and grain processing practices" means those practices as defined by the Michigan Commission of Agriculture and Rural Development. The Michigan Commission of Agriculture and Rural Development shall give due consideration to available Michigan Department of Agriculture and Rural Development information and written recommendations from the Michigan State University College of Agriculture and Natural Resources Extension and the Agricultural Experiment Station in cooperation with the United States Department of Agriculture, the United States Food and Drug Administration, the Michigan Department of Environmental Quality, and other professional and industry organizations.
- (d) "Grain" means dry edible beans, soy beans, small grains, cereal grains, corn, grass seeds, hay, and legume seeds in a raw or natural state.
- (e) "Person" means an individual, corporation, partnership, association, limited liability company, or other legal entity.
- (f) "Processing" means the commercial processing or handling of fruit, vegetable, dairy, meat, and grain products for human food consumption and animal feed, which includes but not limited to the following:
- (i) The generation of noise, odors, waste water, dust, fumes, and other associated conditions.
 - (ii) The operation of machinery and equipment necessary for a processing operation including, but not limited to, irrigation and drainage systems and pumps and the movement of vehicles, machinery, equipment, and fruit and vegetable products, dairy products, meat, and grain products (*cont'd page 5...*)

and associated inputs necessary for fruit and vegetable, dairy, and grain, food, meat, or feed processing operations on the roadway as authorized by the Michigan vehicle code, 1949 PA 300, MCL 257.1 to 257.923.

- (iii) The management, storage, transport, utilization, and land application of fruit, vegetable, dairy product, meat, and grain processing by-products consistent with generally accepted agricultural and management practices as established under the Michigan Right to Farm Act, 1981 PA 93, MCL 286.471 to 286.474.
 - (iv) The conversion from one processing operation activity to another processing operation activity.
 - (v) The employment and use of labor engaged in a processing operation.
- (g) "Processing operation" means the operation and management of a business engaged in processing.
- (h) "State statutes" includes, but is not limited to, any of the following:
- (i) The county zoning act, 1943 PA 183, MCL 125.201 to 125.240.
 - (ii) The township zoning act, 1943 PA 184, MCL 125.271 to 125.310.
 - (iii) The city and village zoning act, 1921 PA 207, MCL 125.581 to 125.600.
 - (iv) The Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451, MCL 324.101 to 324.90106
- (i) "Unverified nuisance complaint" means a nuisance complaint in which the director of the Department of Agriculture and Rural Development, or his or her designee, determines that the processing operation is using generally accepted fruit, vegetable, dairy product, meat, and grain processing.

III. NOISE

Noise that arises from the normal and necessary operation of an agricultural processing operation should be managed to the extent practical to avoid creating a nuisance condition for neighboring properties.

The goal with outdoor noise levels is to reduce the intensity, frequency and duration of the noise and to manage the operation in a way that tends to create a positive attitude towards the operation. Because of the subjective nature of human responses to noise levels, recommendations for appropriate technology and management practices are not an exact science. A variety of practices can be used based upon the type of noise, proximity of neighbors and populated areas, and the time of day the noise levels are at their greatest. Maintaining a noise level of no greater than 75 decibels (dB), based upon an eight-hour time weighted average, measured at the property line is below the established standard for workers inside a building and should prevent creating health concerns for neighbors. Standard operations should be at a minimum maintained below this level to avoid creating nuisance concerns. In addition, the following conditions should be considered:

1. Some common contributors of noise coming from a processing facility include fan motors, evaporators, heating and ventilation systems, and loading/unloading areas. Sound reduction barriers may be utilized to reduce noise from these areas. Sound reduction barriers can take on a variety of forms. They can include the installation of noise reducing materials around the system, earthen berms, or the planting of tree and hedge barriers. The practices installed at a particular facility will vary depending upon the equipment used and the site specific conditions.
2. Assuring source equipment is in good repair and management consistent with industry practices and manufacturers recommendations is essential to maintaining reasonable facility noise levels.
3. Conformance with this GAPP does not relieve the processor of the obligation to comply with lawful and regulatory limits.

Exceptions

Certain events at a processing facility will create noise levels distinct from normal operations. These events create acceptable exceptions to this GAPP. Three classes of such events are especially relevant.

1. Seasonal Variation. Most food processors use raw agriculture products that have well defined harvesting times which result in peak processing needs for in-plant operation and input logistics (trucks, storage equipment, etc.). During these peak seasonal events, noise levels may exceed those of more normal operations but remain necessary for the effective operation of the processor.

Noise levels exceeding the 75 dB, or normal operation levels, but necessary to temporary peak operations are considered to be in conformance with this GAPP.

2. Maintaining Worker Safety. Due to worker safety concerns and compliance with worker safety requirements, vehicles and equipment may be equipped with safety devices such as back-up beepers or audible warning alarms. This equipment is considered essential to protecting worker safety. Operation and use of these alarms shall be considered to be in conformance with these GAPPs.
3. Construction, Maintenance, and Site Modifications. There may also be unique temporary circumstances which will affect the noise level of a processing site. During time periods where there are temporary disruptions to normal operations, processors should be encouraged to alert neighboring property owners of the circumstances and the duration of the project. Standard practices shall be utilized and the noise associated with those practices should be considered to be in conformance with this GAPP.

Documentation and Conformance

Processing facilities should monitor noise levels outside of their buildings and at the property line. Records should be maintained to show the noise levels detected at various times throughout the operational day and year in order to determine seasonal variations. The records should be maintained on site to show conformance with this GAPP.

Depending on the perceived noise, it may be possible to estimate the noise level without instrumentation. There are various charts available of the noise levels at some distance of common noise generators. If various background noises such as insects, nearby highways, etc. can be used for comparison, be sure to include them in the documentation.

If a noise survey has been performed in the work spaces, it may be possible to conduct a comparison between the various determined zones of noise levels and those outside of the building for an estimate.

Instrument measurements are beneficial when the decibel level is questionable. When instrumentation is used, be aware that noise can originate from multiple sources. Measurements at different distances may be useful to determine if off-site sources are contributing. Building walls, hills, and other structures may reduce noise levels. The drop-in noise levels resulting from the implementation of these practices is highly variable and should be measured on-site to determine actual effectiveness. Alternatively, they can be left out of any measured values and referenced as an additional factor, not included in the measurement, rendering the result as a conservative estimate.

IV. ODOR

Odor that arises from the normal and necessary operation of an agricultural processing operation should be managed to the extent practical to avoid creating a nuisance condition for neighboring properties.

The goal for effective odor management is to reduce the frequency, intensity, duration, and offensiveness of odors, and to manage the operation in a way that tends to create a positive attitude toward the operation. Because of the range of human sensitivities to certain odors, odor management should consider that some people will be more adversely affected by a given odor than others. Selection of appropriate technologies and odor management practices must be determined on a case-by-case basis considering the source and nature of the odors as well as varying human sensitivity. The recommendations in this section are intended to provide a variety of responses that can be used to address odor concerns. The following management practices provide guidance on how to minimize potential odors from processing operations.

The principles upon which the most common and effective techniques for odor control are based include (1) reducing the formation of odor-causing gases and (2) reducing the release of odorous gases into the atmosphere. The degree to which these principles can be applied to the various odor sources depends on the level of technology and management that can be utilized.

One main source of odors are those associated with the anaerobic (in the absence of oxygen) decomposition of organic material by microorganisms. The intensity of odors depends upon the biological reactions that take place within the material, the nature of the material, and the surface area of the odor source. Sources of decomposition can include organic materials stored on-site prior to removal.

Processors should select and implement those practices which are applicable, appropriate, and practical for their operations. Odors may indicate an inefficient or improperly operated activity and opportunities may exist to increase operational efficiencies. The following are several practices that can be considered in reducing odor concerns:

- Avoid storage of materials which will create odor-forming gases to the extent possible. Alternatives should be considered for reducing storage of these materials or reusing them in a beneficial manner.
- Use available weather information to your best advantage. Temperature inversions and hot, humid weather tends to concentrate and intensify odors, particularly in the absence of breezes, while turbulent breezes will dissipate and dilute odors.
- Take advantage of natural vegetation barriers, such as woodlots or windbreaks, to help filter and dissipate odors.

Establish vegetated air filters by planting conifers and shrubs as windbreaks and visual screens between odor sources and residential area.

- The odor of fermented processing materials, such as waste products or products headed to a secondary market, can be minimized by storing them at the appropriate dry matter content (generally no greater than 33 percent moisture). Keeping excessive moisture out of the material will reduce the presence of anaerobic bacteria. Use covered storage if technically and economically feasible and evaluate ventilation systems to prevent buildup of gases, moisture, and heat that may intensify odors.
- Design, operate and maintain by-product and waste handling and treatment systems per established good engineering practices and standards.
- Establish operating procedures for handling and treatment of by-products and wastes. Ensure employees are properly trained in these operational procedures.
- Frequent removal of spilled materials from outside spaces, coupled with appropriate storage will reduce odor potential.
- Avoid disturbing odor sources (such as dredging storage ponds) during times such as holidays and community events to the extent possible. Take advantage of cold weather seasons to complete these activities when feasible. Communicating with landowners as to when these events will occur and the duration of the event can help reduce odor concerns.
- Clean exhaust fans and shutters regularly of dust and debris to maximize warm season ventilation.
- Maintain equipment in good working order and in accordance with normal management practices.
- Maintaining positive community relations will also prevent the occurrence of nuisance complaints. Keeping the facility area esthetically pleasing and participation in community events helps to build positive community relations.

Exceptions

Due to the nature of processing, certain odors may increase in intensity for a limited period of time during process start-up, shut-down, or product changeover. Other activities integral to agricultural processing, such as agitation, cleaning, and maintenance of storage structures or ponds, can occur at various times of the year, depending upon the operational needs of the facility. These temporary changes are acceptable under this GAPP provided they are normal and necessary to the operation. These activities may increase the intensity of the odors but should be relatively short in duration. Some larger facilities, or those with unique circumstances, may require a greater period of time for completing these activities in an appropriate manner. When possible, proper planning should occur prior to the event. Processors should maintain records of when these events occur and evaluate improvements to reduce odors and incorporate those improvements into their Odor Management Plan. Care should be taken to minimize off-site odor impacts to avoid creating a violation under the Natural Resources and Environmental Protection Act, Public Act 451 of 1994.

Documentation and Conformance

Documenting conformance with odor reduction should include routine olfactory observations made around the facility. A processor should evaluate their facility for potential odor sources and determine what practices are appropriate for addressing the concerns. Keeping records of odor events noted by employees, service providers, and neighbors, and determining the source of the concern will help the processor in addressing future concerns and create awareness by the processor of the activities creating potential odor concerns.

The development of an Odor Management Plan can also assist the processor in identification of odor sources and implementation of odor reduction practices. The goal of an effective Odor Management Plan is to identify opportunities and propose practices and actions to reduce the frequency, intensity, duration, and offensiveness of odors that neighbors may experience in such a way that tends to minimize impact on neighbors and create a positive attitude toward the processor. A processor experiencing odor concerns from a neighboring property should develop an Odor Management Plan in order to attempt to avoid neighbor conflicts. Some aspects of an Odor Management Plan include working with employees or routine service providers and asking them to report noticeable offensive odor events as they come and go from the facility and travel the community. The intent is to establish and maintain an effective, open line of communication with immediate neighbors so that they too will be comfortable reporting odor events to the facility.

V. APPENDIX A - GAPP Management Plan

Description of Facility:

- Indicate facility type, location and operational times
- Identify times of year where increases in noise and odor levels are expected to be greatest due to operational changes
- Schedule for plan review and evaluation

Noise Monitoring:

- Identify any areas of noise generation that may create a concern for neighboring properties
- Determine what practices may be utilized to reduce or eliminate noise level concerns
- Determine frequency of noise to determine appropriate monitoring schedule
- Document schedule that will be followed
- Document methodology that will be used to determine noise levels (i.e. comparison to common noise generators, monitoring equipment)
- Keep records

Odor Monitoring

- Identify any areas of odor generation that may create a concern for neighboring properties
- Determine what practices may be utilized to reduce or eliminate odor concerns
- Determine frequency and quantify intensity of odor to determine appropriate monitoring schedule
- Document schedule that will be followed
- Document methodology that will be used to determine odor levels (i.e. complaints from neighbors, employees, or regular service providers)
- Keep records

VI. APPENDIX B - REVIEW COMMITTEE

Listed below are the Food Processing GAPP Committee members that developed these Generally Accepted Fruit, Vegetable, Dairy, Meat, and Grain Processing Practices for Noise and Odor for agricultural processing operations.

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	No.	Sponsor	Subject	House Action	Senate Action	Public	Summary
S	8	Schutimaker, Tonya	State financing and management, purchasing; Vehicles, equipment; Public employees and officers, state		1/20/15 - Referred to Committee on Elections and Government Reform 4/21/2015- Referred to Committee of the		State financing and management; purchasing; installation of tracking device on state employee driven state vehicles; require. Amends sec. 213 of 1984 PA 431 (MCL 18.1213).
S	28	Bieda, Steve	Crimes; animals; penalties for crimes against animals; enhance, and make other revisions.		1/22/15 - Referred to Committee on Judiciary. 1/29/15 - Reported Favorably with Substitute S-1. 2/5/15 - Reported by Committee of the Whole favorably with Substitute S-1. 2/5/15 - Placed on order of Third Reading with Substitute S-		The bill would extend current animal neglect or cruelty prohibitions to a breeder or pet shop operator and revise and enhance graduated penalties.
S	29	Jones, Rick	Criminal procedure; sentencing guidelines; sentencing guidelines for crimes of animal cruelty; enact and amend.		1/22/15 - Referred to Committee on Judiciary. 1/29/15 - Reported Favorably with amendment. 2/5/15 - Reported by Committee of the Whole favorably with amendments. 2/5/15 - Placed on order of Third Reading with		Revise the sentencing guidelines for animal neglect or cruelty and establish sentencing guidelines designations for animal neglect or cruelty penalties proposed by SB 28 and apply the current sentencing guideline for killing or torturing an animals to the proposed third-degree offense and establish sentencing guidelines designations for first- and second-degree violations.
S	115	Green, Mike	Appropriations, zero budget; Appropriations, agriculture and rural development	5/19/15- Passed House Yeas 99, Nays 10 with substitute H-1 5/20/15- Conference report referred to Senate Appropriations Final disposition of budget see SB 133	5/7/15-Passed Senate Yeas 27, Nays 11 with Substitute S-2 5/20/15- Substitute H-1 nonconcurred in Yeas 1, Nays 35 Excused 2		MDARD budget adopted into SB 133. Passed on 6/3/2015
S*	144	Casperson, Tom	Food law	5/19/15-referred to Committee on Agriculture. 6/17/15- Reported with recommendation.	5/14/15-Subsritute S-2. 5/19/15- Yeas 35 Nays 1 with substitute S-1	PA 142 of 2015	Define "Low-Risk Food," and wifes inspection for Temporary Food Establishment serving only low-risk food with in-office consultation.
S*	146	Hune, Joe	Large carnivore act		2/18/15-Referred to Committee on Agriculture		Amends PA274 of 2000 to provide temporary possession of a large carnivore, and breeding is approved by accreditation.
S	204	Schuitmaker, Tonya	Crimes; penalties; penalties for obscuring or removing a state vehicle designation; proicide for		3/12/2015-Referred to Committee on Judiciary 4/23/2015-Referred to Committee of the Whole		Establish misdemeanor for state employee who removes or conceals destictive registration plates or other external makeings that identify state ownership
S*	217	Booher, Darwin	Property tax; classification;reference to qualified forest in qualified agricluture definition; remove	6/9/15-Passed Yeas 89, Nays 20 with substitute H-1	4/28/2015 Passed roll Call #110 Yeas 38 Nays 0 with substitute S-1 6/16/15- H-1 concurred in Yeas 38, Nays 0	PA 107 of 2015	Specify that a parcel of property that contained a combination of agricultreual use property and productive forest would be considered qualified forest. Prived treal property that contained agricultural use property combined with productive forest could not be credited against the statewide acreage limit on exempt QF

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S	219	Jones, Rick	Crimes; animals' ownership of animals by person convicted by certine crimes against animals; require court to prohibit for a period of at least 5 years.		3/18/15-Referred to committee on Judiciary 5/7/2015 Referred to Committee of the whole with Substitue S-1		
S	239	Robertson, David	Animals, other; Animals, dogs	10/8/2015-referred to committee on Local Government	10/8/2015 Passed Yeas 25 Nays 11 Excused 2		Breed Restictions
S	243	Hopgood, Hoon-Yung	Labor;fair employment practices; employer mandate for employee to work 7 days a week; prohibit		3/26/2015-Referred to committee on Commerce		A bill to require employers to allow a day of rest for employees each week; to require employers to allow a meal break during certain work periods
S	298	Knezek, David	Crimes, animals; Veterans, other;Disabilities, other		6/18/15-Passed Yeas 37, Nays 0, Excused 1 with substitute S-1	PA 144 of 2015	
S	299	O'Brien, Margaret	Animals, dogs; Disabilities, other; Animals, other		6/18/15- Passed Yeas 37, Nays 0, Excused 1 with substitue S-1	PA 145 of 2015	
S*	339	Bieda, Steve	Animals, animal shelters; Animals, dogs; Animals, cats; Animals, other		5/19/2015-referred to Committee on Commerce 5/20/2015-Reassigned to Committee on Agriculture		
S	350	Hopgood, Hoon-Yung	Animals, birds; Land use, other; Local government, other		5/21/2015-Referred to Committee on Local government		
S*	403	Knollenberg, Marty	Animals, animal shelters;Animals, other; Animals, dogs; Animals, cats		6/16/2015-Referred to Committee on Agriculture		Eliminate use of gas chamber to euthanize cats and dogs without veterinarian authorization.
S*	423	Stamas, Jim	Food, enforcement; Food, service establishments; Local government, other; State agencies (existing), agriculture and rural development		6/30/2015-Referred to Committee on Agriculture		Food; enforcment; food service establishments fee charged by local health department; provide cap.
S*	477	Green, Mike	Food, milk; Agriculture, products; State agencies (existing), agriculture and rural development	10/21/2015- referred to second reading	10/8/2015-Passed Yeas 36 Nays 0 Excused 2	PA 259 of 2016	Update to 2013 PMO
S*	506	Green, Mike	Agriculture, weights and measures		9/24/2015- Referred to committee on Agiculture		Quality testing for motor oil
S*	526	Jones, Rick	Agriculture, aquaculture; Natural Resources, Great Lakes		9/29/2015- Referred to Committee on Agriculture		
S	594	Shirkey, Mike	State agencies (existing): executive office; State agencies (existing: state;				MOU

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S	636	Hune, Joe	Sales Tax, exemptions	12/3/2015-referred to committee on Finance			
S*	637	Hune, Joe	Ariculture, other; State agencies (existing), agriculture and rural development	12/3/2015-referred to Committee on Agriculture		PA 166 of 2016	Adds Cool season lawn and turf grass
S	648	Casperson, Tom	Property tax, assessments	12/10/2015-reassigned to committee on Finance			modify trasfer of ownership
S	649	Casperson, Tom	Property, conveyances	12/10/20215- reassigned to committee on Finance			clarify ability to create unequal join interests
S	650	Casperson, Tom	Property tax, assessments	12/10/2015-reassigned to committee on Finance			prcedures for determining trasfer of ownership on property
S*	651	Booher, Darwin	Taxation, commercial forest;Property tax, classification; Natrual resources, forests	12/9/2015-referred to committee on Natural Resources		PA 260 of 2016	tax for properties enrolled in commercial forest program
S*	652	Booher, Darwin	Property tax, exemptions;Taxation, commercial forest;Natural resources, forests	12/9/2015-referred to committee on Natural Resources		PA 261 of 2016	exemtion for transitional QF property
S*	653	Casperson, Tom	Natural resources, forests;Taxation, commercial forest;Property tax, exemptions	12/9/2015-referred to committee on Natural Resources		PA 262 of 2016	withdrawal of properties enrolled in commercial forest program
S*	658	Jones, Rick	Animals, exotic	12/10/2015- referred to committee on Agriculture			modify obligations under large carnivore act
S	669	Green, Mike	Environmental protection, other; Health, other; Highways, other; Vehicles, automobiles' Vehicles, trucks; Trasportation, other	12/15/2015- referred to committee on Natural Resources			Noise control
S	671	Hansen, Goeff	Liquor, other' Liquor, wine; Liquor, beer; Liquor, spirits	12/15/2015-referred to committee on Agriculture			Wine and Grape council changes
S*	681	Booher, Darwin	Agriculture, aquaculture; Environmental protection, permits; Natural resources, other	12/16/2015-referred to committee on agriculture			Aquaculture
S*	682	Booher, Darwin	Natural resources, other; Agriculture, aquaculture; Environmental protection, permits; Natural resources, Great Lakes; Natural resources, inland lakes; Natural resources, rivers and streams; Natural resources, wetlands; State agencies (existing), natural resources	12/16/2015-referred to committee on agriculture			Aquaculture

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S*	683	Booher, Darwin	Animals, other; Agriculture, aquaculture; Agriculture, animals	12/16/2015-referred to committee on agriculture			Aquaculture
S	684	Warren, Rebekah	State, Symbol	12/16/2015-referred to committee on Outdoor recreation and tourism			designated cherry as state fruit
S	685	Schuitmaker, Ton	State, symbol; Food, fruits and vegetables	12/16/2015-referred to committee on Outdoor recreation and tourism			designated blueberry as state berry
S*	687	Rocca, Tory	Drains: drain commissioners. Counties: boards and commissions; Local government: intergovernmental affairs	1/13/2016-Referred to Committee on Local Governemtemt			
S*	727	O'Brien, Margare	Food: Restaurants; Animals: dogs	2/2/2016- Referred to Committoo on Agriculture			Dogs in Restaurants
S*	782	Green, Mike	Appropriations, zero budget; Appropriations, agriculture and rural development	2.16.2016- Referred to Committee on Appropriations			
S*	812	Marleau, Jim	State:symbol	2.23.2016-Referred to Committee on Government Operation			Recognize Monarch butterfly as offical state insect
S	813	Young II, Colman	Controlled substances;marihuana; Controlled substances; use	2.24.2016-Referred to Committee on Judiciary			
S	825	Brandenburg, Jac	Human services; food assistance; Food; retail establishments; T				
S*	850	Hertel Jr., Curtis	State; symbol	3.8.2016- Referred to Committee on Government Operations			Recognize black swallowtail butterfly as official state butterfly
S*	899	Stamas, Jim	Trade: other; Agriculture; products; Occupations: agriculture; Liens: other;				Grain Dealers Act
S*	900	Hune, Joe	Trade: other; Agriculture; products; Occupations: agriculture; State agencies (existing): agriculture and rural development;				Grain Dealers Act
S*	1031	Hune, Joe	Agriculture: Other; State agencies (existing): argiculture and Rural Development		9/6/2016-Introduced		Urban Agriculture

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S*	1032	Warren, Rebekah	Land Use: zoning and growth amangement; Agriculture: other; State agencies (existing): agriculture and rural development				Urban Agriculture
S	1051	Green, Mike	Ervironmental protection: Undgerground storage tanks			9/6/2016	
S	1052	Green, Mike	Agriculture: weights and measures; State agencies (existing): agriculture and rural development;			9/7/2016	
S	1053	Green, Mike	Agriculture: Weights and measures;				
S*	1110	Hansen, Goeff	Economic Development: other; Food: other	10/18/16-Referred to committeeon Economic Developmpment			
H*	4012	Kelly, Tim	Land use; zoning and growth management; household agriculture; authorize in residential zones.	1/15/15 - Referred to Committee on Agriculture.			Amends the zoning enabling act to create the "Homestead Subsistence Farming Act" to allow the production of farm products on property that is lawfully used as a residence under a zoning ordinance.
H*	4017	Farrington, Jeff	Food; other; persons donating food to nonprofit organizations or corporations that distribute donated food; provide immunity for.			PA 41 of 2015	The bill would clarify that an entity that donates or collects donated food is not subject to criminal or civil liability due to the nature, packaging, age, or condition of the food unless donor or nonprofit knew or should have known that food was adulterated or not fit for
H*	4033	Heise, Kurt	Counties; other; Local government; other.	1/15/15 - Referred to Committee on Local Government			Would prohibit the sale, lease, transfer or other monetization of a water or sewer system unless a majority vote of communities served by a water system
H*	4082	Heise, Kurt	Drains, financing; Counties, other; Local government, financing; Local government, intergovernmental affairs.	1/28/15 - Referred to Committee on Local Government 4/29/2015 reported with substitute H-1 5/7/2015			Would prohibit the sale, lease, transfer or otherwise modify ownership interest of a drainage district asset by a drain board unless a majority vote of communities takes place.
H	4094	Pscholka, Al	Appropriations, zero budget; Appropriations, agriculture and rural development	1/28/15 - Referred to Committee on Appropriations			The bill would create an appropriation act to provide for fiscal year 2015-16.
H*	4166	Outman, Rick	Counties, boards and commissions; Agriculture, marketing			PS 138 of 2015	Would allow for certain counties to establish a fund for the purpose of advertising agricultural advantages.
H	4175	Johnson, Joel	Torts: liability; liability of persons under equine activity liability act; limit to willful or wanton under certain circumstances			PA 87 of 2015	The bill would amend the Equine Activity Liability Act to increase the liability threshold for equine activity sponsors such as an individual, group, or club that sponsors, organizes, or provides the facilities for an equine activity to "willful or wanton."

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H*	4247	Howrylak, Martin	Animal, dogs; Crimes, animals; Crimes other	2/26/15-Referred to Committee on Criminal Justice			Repeal MCL 752.61 to 752.63. An act to prohibit the use of certain collars or harnesses and leashes on dogs in public places, except by deaf, audibly impaired, or otherwise physically limited persons; and to prescribe penalties,"
H*	4249	Webber, Michael	Crimes, trespassing; Crimes, penalties	2/26/15- Referred to Committee on Criminal Justice		PA 211 of 2016	Repeal MCL 750 Sections 546-551
H*	4251	LaFontaine, Andrea	Agriculture, animals; Crimes, animals; Crimes, penalties	2/26/15-Referred to Committee on Criminal Justice			Repeal MCL752.91-752.92
H*	4252	Courser, Todd	Crimes, Public safety; Crimes, other; Crimes penalties	2/26/2015-Referred to Committee on Criminal Justice			Repeal MCL 750.501
H*	4315	Pscholka, Al	Appropriations; other; eexecutive recommendation;prvide for omnibus bill. Creates appropriation	3/10/2015-Referred to Committee on Appropriations			
H	4342	Irwin, Jeff	State; other; participation in daylight savings time; eliminate	3/12/2015-referred to Committee on Government Operations			Repeal Day lights savings time
H*	4353	Santana, Harvey	Animals; animal shelters' animal shelters to deny adoptions under certain circumstances' require, and allow animal shelters to consider prior criminal histor befor adoption.	3/18/2015-referred to Committee on Judiciary			
H	4355	Muxlow, Paul	Animals; animal shelters; ICHAT search by animal control shelters and animal protection shelters when allowing an animal adoption; require	3/18/2015-referred to Committee on Judiciary			
H*	4391	Lauwers, Dan	Agriculture; pesticides; pesticide product registration fee; increase, and revise out-of state licensee requirements.			PA 118 of 2015	Pesticide Fee bill
H*	4392	Lauwers, Dan	Agriculture, pesticides' Occupations, individual licensing and regulation' State agencies (existing), agriculture and rural development	3/25/2015-referred to Committee on Appropriations			Pesticide produce fee
H*	4400	Jenkins, Nancy	Agriculture; animals; licensing fees related to livestock operators; eliminate sunset			PA 69 of 2015	Elimination of Livestock Dealer Sunset

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H*	4408	Crawford, Kathy	Health occupations, veterinarians; Health occupations, veterinary technician; State agencies (existing), licensing and regulatory affairs	3/26/2015-referred to Committee on Agriculture		PA 47 of 2016	Continuing education requirement
H	4418	Chatfield, Lee	Traffic control, traffic regulation; Vehicles, agricultural equipment	4/14/2015-referred to Committee on Transportation and Infrastructure		PA 72 of 2016	Includes Maple Sap into Agricultural Commodities
H	4435	Lucido, Peter	Food, retail establishments; Food, service establishments; Health, other	4/14/2015-referred to Committee on Government Operations			Notification on menus requesting consumer to inform server of food allergy
H*	4451	Jenkins, Nancy	Agriculture, other; State agencies (existing), agriculture and rural development			PA 83 of 2015	Feed Fee
H*	4470	Hoadley, Jon	Food, other; Food, enforcement; State agencies (existing), agriculture and rural development			PA 61 of 2015	Food Fee
H	4502	Singh, Sam	State, Symbol	4/22/2015-referred to committee on Government Operation			Designates Northern Spring Peeper as official state amphibian
H	4521	Barrett, Tom	Animals; other; identification for service animals, create.	4/28/2015-referred to Committee on Military and Veterans Affairs		PA 146 of 2015	
H	4527	Rutledge, David	Animals, other; Animals, dogs; Crimes, animals; Crimes, penalties			PA 147 of 2015	
H	4530	McBroom, Ed	State, Symbol; ladybug' establish as the official state insect	4/28/2015-referred to the Committee on Government Operations			
H	4604	Roberts, Brett	Natural resources, soil and erosion; Environmental protection, permits	5/15/2015-referred to Committee on Agriculture		PA 2 of 2016	
H	4633	Plawecki, Julie	Animals, birds; land use, other; Local government, other	5/21/2015-referred to Committee on Local Government			
H*	4656	Johnson, Joel	Drains, other; Drains, maintenance and improvement	5/27/2015-referred to Committee on Local Government		PA 171 of 2016	
H*	4758	Pscholka, Al	Drains, financing	6/18/2015-referred to Committee on Local Government		PA 27 of 2016	

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H*	4760	Roberts, Sarah	Animals, dogs; State agencies (existing), agriculture and rural development	7/14/2015-referred to Committee on Regulatory Reform			
H*	4761	Greig, Christine	Animals, dogs; Animals, care and treatment	7/14/2015-referred to Committee on Regulatory Reform			
H*	4765	McCready, Michael	Animals, animal shelters; Animals, dogs; Crimes, animals	7/14/2015-referred to Committee on Criminal Justice			Dog fighting
H*	4780	Chirkun, John	Consumer protection, unfair trade practices; Trade, consumer goods and services; Consumer credit, credit coards; Energy, gas and oil, Advertising, other	7/14/2015-referred to Committee on Regulatory Reform			
H*	4898	McCready, Michael	Animals, animal shelters; Animals, pet shops; Animals, dogs; Animals, cats; Animals, other	9/22/2015-referred to Committee on Appropriations			dog breeding permit
H*	4915	McCready, Michael	Animals, animal shelters; Animals, pet shops; Animals, dogs; Animals, cats' Animals, other	9/29/2015-referred to Committee on Regulatory Reform			Hold times
H*	5050	Pagel, Dave	Agriculture, animals	11/4/2015- referred to committee on Agriculture		PA 250 of 2016	Agriculture; animals; provision related to breeding of horses, repeal. Repeals 1929 PA 72
H	5051	Canfield, Ed	Taxation, specific tax	11/4/2015- referred to committee on Agriculture		PA 251 of 2016	Taxation; specific tax; provision related to collection of specific taxes; repeal. Repeals 1889 PA 226
H*	5052	Cole, Triston	Agriculture, Animals	11/4/2015- referred to committee on Agriculture		PA 252 of 2016	Agriculture; animals; provision related to immature or unwholsome calves, pigs, kids, and lambs, repeal. Repeals 1913 PA 340
H*	5053	Hughes, Holly	Animals, dogs	11/4/2015- referred to committee on Agriculture		PA 253 of 2016	Animals; dogs; certain provisions related to dog identification; repeal. Repeals secs. 1,2,3,4,5,6,& 7 of 1939 PA 309
H*	5054	Howrylak, Martin	Agriculture, diseases and pests; Agriculture, plants	11/4/2015- referred to committee on Agriculture		PA 254 of 2016	Agriculture; diseases and pests; provision related to nursery agent permit and fee; repeal. Repeals sec. 12 of 1931 PA 189

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Legislative Status
as of 10/3/2015

H*	5055	Bizon, John	Agriculture, other	11/4/2015- referred to committee on Agriculture		PA 255 of 2016	Agriculture; other; provision related to silos treated with polychlorinated biphenyls; repeal. Repeals 1983 PA 220
H*	5056	Rendon, Bruce	Agriculture, animals	11/4/2015- referred to committee on Agriculture			Agriculture; animals; provision related to regulation of slaughterhouses; repeal. Repeals 1965 PA 280
H*	5057	Roberts, Brett	Agriculture, other	11/4/2015- referred to committee on Agriculture			Agriculture; other; provision related to maintenance of seed sampling and laboratory; repeal. Repeals sec. 11 of 1965 PA 329
H*	5058	Lauwers, Dan	Agriculture, weights and measures	11/4/2015- referred to committee on Agriculture			Agriculture; weights and measures; provision related to agricultural liming material; repeal. Repeals 1955 PA 162
H*	5059	Barrett, Tom	Agriculture, animals	11/4/2015- referred to committee on Agriculture		PA 256 of 2016	Agriculture; animals; provision related to started pullets; repeal. Repeals 1962 PA 213
H*	5060	Sheppard, Jason	Agriculture; animals	11/4/2015- referred to committee on Agriculture		PA 257 of 2016	Agriculture; animals; provision related to livestock and poultry remedies; repeal. Repeals 1929 PA 134
H	5101	Plawecki, Julie	Public utilities, water utilities;Public utilities;consumer services; Public utilities, Public service commission	12/1/2015-referred to Committee on Local Government			Requires all state departments and agencies to establish certain water affordability criteria
H	5130	Zamke, Adam	Construction: Code; Constructio: permits	12/9/2015- referred to Committee on Agriculture			Hoophouse permits
H	5149	Townsend, Jim	Legislature, committees;Legislature, reports; Law, sunset	12/10/2015 referred to Committee on Government Opetations			Provides for Legislative oversite to the relative function of State Departmens
H	5166	McBroom, Ed	Agriculture, aquaculture; Environmental protection, permits; Natural resources, other	12/16/2015-referred to Committee on Agriculture			AQUACULTURE
H	5167	Cole, Triston	Natural resources,other; Areiculture, aquaculture; Environmental protection, permits; Natural resouces, Great Lakes; Natural resources, inland lakes; Natural resources, rivers and streams; Natural resources, wetlands; State agencies (existing). natural resources	12/16/2015-referred to Committee on Agriculture			AQUACULTURE

*Indicates MDARD is lead agency

Legislative Status
as of 10/3/2015

H	5168	Cole, Triston	Health occupations, veterinarians; Health occupations, veterinary technician; State agencies (existing), licensing and regulatory affairs	12/16/2015-referred to Committee on Agriculture			AQUACULTURE
H*	5180	Pagel, Dave	Economic development, other; Food, other	12/17/2015-referred to Committee on Appropriations			Good Food Fund
H	5189	Lauwers, Dan	Land use, farmland and open space; Natural resources, other; State agencies (existing), agriculture and rural development	12/17/2015- referred to Committee on Agriculture		PA 265 of 2016	PA 116
H	5190	Roberts, Brett	Individual income tax, administration; Individual income tax, collections; Individual income tax, forms; Land use, farmland and open space; State agencies (existing), agriculture and rural development	12/17/2015- referred to Committee on Agriculture		PA 266 of 2016	PA 116
H	5191	Lauwers, Dan	Taxation, administration; Land use, farmland and open space; State agencies (existing), agriculture and rural development	12/17/2015- referred to Committee on Agriculture		PA 267 of 2016	PA 116
H*	5278	Gardon, Ben	Drains: financing; Drains: districts	1/28/2016- referred to Committee on Local Government		PA 115 of 2016	
H*	5279	Gardon, Ben	Drains: districts; Villages: other	1/28/2016-referred to Committee on Local Government			
H*	5282	Webber, Michael	Drains: sewers; Drains: maintenance and improvement; Torts: liability;	2/2/2016-referred to Committee on Local Government			
H*	5349	Brunner, Charles	Vehicles: fund-raising registration plates; Animals: animal shelters; State agencies (existing): state	2/10/2016-referred to Committee on Transportation and Infrastructure			
H*	5388	Kosowski, Robert	Torts: liability; Crimes: animals	2/18/2016-referred to Committee on Judiciary			
H*	5392	Roberts, Brett	Agriculture: products; Agriculture: regulation; State agencies (existing): agriculture and rural development;			PA 258 of 2016	Seed Lab

*Indicates MDARD is lead agency

Legislative Status
as of 10/3/2015

H*	5453	Canfield, Ed	Property: condemnations; State agencies (existing): agriculture and rural development	3/15/2016-referred to Committee on Judiciary			
H*	5454	Roberts, Brett	Property: condemnations; State agencies (existing): agriculture and rural development; State agencies (existing); natural resources	3/15/2016-referred to Committee on Judiciary			
H*	5455	Kesto, Klint	Property: condemnation; State agencies (existing): agriculture and rural development;	3/15/2016-referred to Committee on Judiciary			
H	5459	Phelps, Phil	Water: quality; Children: other;	3/15/16-referred to Committee on Local Government			
H	5464	McBroom, Ed	Legislature: auditor general; State agencies (existing); generally	3/16/2016-referred to Committee on Oversight and Ethics			Give Auditor General access of Confidential Information
H*	5483	Brunner, Charles	Environmental protection: solid waste: Environmental protection: pollution prevention: Agriculture: weights and measures;	3/17/2016- referred to Committee on Agriculture			
H*	5532	Cole, Triston	Food: Other				Morel Mushroom
H*	5547	Darany, George	Criminal procedure: sentencing guidelines: Health: other; Women: other;	4/13/2016-referred to Committee on Health Policy			Tie Bar with 4206-Breast Milk
H*	5581	Victory, Roger	Agriculture: weights and measures; Transportation: other; Law: sunset	5/12/2016-Passed 84/24			Underground storage tank fund/ MFQ
H	5613	Cole, Triston	Administrative procedure: rules; State agencies (existing): generally; Legislature: other;	4/28/2016- referred to Committee on Regulatory Reform			
H*	5797	Gardon, Ben	Agriculture: wights and measures; Transportation: other; Trade: data security; Consumer credit: credit cards; Consumer protection: other;				Credit Card Skimmer
H*	5804	Driskell, Gretchen	Agriculture: wights and measures; Transportation: other; Trade: data security; Consumer credit: credit cards; Consumer protection: other;				Credit Card Skimmer

*Indicates MDARD is lead agency

Legislative Status
as of 10/3/2015

H*	5915	Hoadley, Jon	Animals: dangerous; Animals: dogs				
H*	5916	Hoadley, Jon	Criminal procedure: sentencing guidelines; Animals: dangerous; Animals: dogs;				
H*	5950	Cochran, Tom	griculture: other; State agencies (existing): agriculture and rural development;				
H*	5987	Lauwers, Dan	Agriculture: animals; Animals: other; State agencies (existing): agricultlure and rural development;				

*Indicates MDARD is lead agency

LEGISLATIVE STATUS REPORT FOR SEPTEMBER 2018

No.	Sponsor	Subject	House Committee	Senate Committee	Public Act	Summary
97	Kowall, Mike	State financing and management: authorities; Transportation: other; State agencies (existing): transportation;	Transportation and Infrastructure	Commerce		P3
108	Hune, Joe	Agriculture: other' State agencies (existing): agriculture and rural development		Agriculture		Urban AG
109	Warren, Rebekah	Land use; zoning and growth management; Agriculture: other; State agencies (existing): agriculture and rural development		Agriculture		Urban AG
122	O'Brien, Margaret	Food: restaurants; Animals: dogs	Regulatory Reform	Agriculture		Dogs on patio

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	139 Green, Mike	Appropriations: zero budget; Appropriations: agriculture and rural development		Appropriations		Budget- See H 4323
	228 Schmidt, Wayne	Agriculture: other; Trasportation: other; Trade: data security; Consumer credit: credit cards; Consumer protection: other;		Agriculture		Skimmers
*	415 Schmidt, Wayne	Agriculture: other; Trasportation: other; Trade: data security; Consumer credit: credit cards; Consumer protection: other;	Commerce and Trade	Agriculture	PA 168'17	Skimmers- corrected
*	416 Rocca, Tory	Animals: animal shelters; Animals: dogs; Crimes: animals		Judiciary		
*						

	423	Jones, Rick	Agriculture: aquaculture; Agriculture: regulation; Natural resources: Great Lakes; State agencies (existing): natural resources;		Agriculture	
*						
	439	Hansen, Goeff	Liquor: economic development; Liquor: wine; Liquor: beer;		Regulatory Reform	G&W
*						
	440	Hansen, Goeff	Liquor: other;		Regulatory Reform	PA 155'18 G&W
*						
	516	Schmidt, Wayne	Civil procedure; execution; Civil procedure: garnishment; Civil procedure: alternate dispute resolution; Agriculture: other;		Banking and Finacial Insitutions	Mediation
	517	Schmidt, Wayne	Civil procedure: alternate dispute resolution; Agriculture: other;		Banking and Finacial Insitutions	Meidation

518	Schmidt, Wayne	Comercial code: secured trasaction; Civil procedure: alternate dispute resolution; Agriculture: other;		Banking and Finacial Insitutions		Mediation
542	Casperson, Tom	Environmental protection: other; Agricuilture: pesticides; State agencies (existing: agriculttue and rural development		Natural Resources	PA 270'18	Pesticide notificatio n registry
576	Casperson, Tom	Agriculture: other; Natural resources: funding; Economic development: other; State agencies (existing): agriculture and rural development		Agriculture		Rural Developm ent Board Votes

583	MacGregor, Peter	Taxation: other; Taxation: excise taxes; Food: other; Local government: financing; Local government: other;	Michigan Competitive ness	Michigan Competitievness		Preemptio n of local tax on food and beverage
639	Hopgood, Hoon-Yung	Environmental protection: water pollution; Agriculture: fertilizer; State agencies (existing): environmental quality		Natural Resources		Winter manuer applicatio n ban
660	Meekhof, Arlan	Agiculture: other; Health: other; state agencies (existing); agriculture and rural development		Agriculture		Crate size
663	MacGregor, Peter	Animal: service animals;		Local Government		misrepres enting service animal

708	Schmidt, Wayne	Criminal Procedure: sentencing guidelines; Animals: dangerous; Animals: dogs		Judiciary		sentencing guidelines
709	Schmidt, Wayne	Animals: dangerous; Animals: dogs;		Judiciary		definition of dangerous animal
710	Knezek, David	Animals: animal shelters; Crimes: animals; Animals: dogs; Animals: care and treatment		Judiciary		Adoption of animals used in fighting
741	Robertson, David	Animals: dogs; Cities: ordinances; Counties: ordinances; Townships: ordinances; Villages: ordinances;		Judiciary		dbreed based ordinances, prohibit
1034	Booher, Darwin	Property tax: exemptions; Natural resources: forests		Natural Resources		QFP

1071	Hansen, Goeff	Liquor: wine; Liquor: licenses; State agencies (existing): licenseing and regulatory affairs;		Regulatory reform		
4025	Kosowski, Robert	Crimes: animals; Animals: other;	Law and Justice			Dog Law
4070	Kesto, Klint	Property: condemnation; Civil procedure: costs and fees; State agencies (existing): agriculture and rural development; State agencies (existing): environmental quality; State agencies (existing): natural resources; State agencies (existing): transportation;	Agriculture	Oversite		Taking of property

* 4138	Chirkun, John	Consumer protection: unfair trade practices; Trade: consumer good and services; Consumer credit: credit cards; Energy: gas and oil; Advertising: other	Commerce and Trade			Credit vs. Cash sales
4162	Lasinski, Donna	Townships; public services; Property tax; special assessments; Communications: technology; Communications: internet	Communications and Technology			Rural Internet Bonding/Taxes
4167	Frederick, Ben	Vehicles: trucks; Transportation: carriers'	Agriculture	Transportation	PA 35'17	Transportation-Drain Tubes
4186	Alexander, Julie	Animals: animal shelters; Animals: pet shops; Animals: other;	Agriculture	Agriculture	PA 84'17	Definition-Animals
* 4187	Hornberger, Pamela	Food: restaurants; Animals: dogs	Regulatory Reform			Dogs on patio

*	4266	Kelly, Tim	Land use: Zoning and growth management; Land use: other; Agriculture: other;	Agriculture			Urban Ag: RtF
	4278	LaFave, Beau	Human services: food assistance; Human services: services or financial assistance; Food: beverages;	Families, Children, and Seniors			Restrict soda purchase with Bridge Card
*	4286	Victory, Roger	Drains: districts; Drains: drain commissioners; Counties: other;	Local Government	Local Government	PA 62'17	Removal of land from Drainage District
	4561	Lauwers, Dan	Sales tax; exemptions; exemption for certain agricultural equipment; clarify	Agriculture	Agriculture	PA 113'18	
	4562	VanderWall, Curtis	Agriculture: other; Sales tax; exemptions; Law: sunset	Agriculture	Agriculture	PA 111'18	AG Emergency Fund

4563	Rendon, Daire	State financing and mangement: funds; Sales tax: exemtions; Agriculture: equipment	Agriculture	Agriculture	PA 112'18	
4564	Barrett, Tom	Use tax: exemptions; Agriculture: equipment	Agriculture	Agriculture	PA 114'18	
4667	Iden, Brant	Liquor: economic development; Liquor: wine; Liquor: beer	Regulatory Reform		PA 154'18	G&W
4668	Kesto, Klint	Liquor; other	Regulatory Reform			G&W
4811	Victory, Roger	Agriulture: other; State agencies (existing): agriculture and rural development	Agriculture		PA 98'18	FSMA
4812	Victory, Roger	Agriculture: other;	Agriculture		PA 93'18	FSMA
4813	Vaupel, Hank	Agriculture: other; Controlled substances: other;	Regulatory Reform		PA 34'18	Tranquilizers and pentobarbital

4940	Canfield, Edward	Agriculture: associations and commissions; Agriculture: products; State agencies (existing): agriculture and rural development;	Agriculture		PA 9'18	Dry Bean Commission
4999	VerHeulen, Rob	Taxation: other; Taxation: excise taxes; Food: other; Local government: financing; Local government: other;	Michigan Competitiveness	Michigan Competitiveness	PA 135'17	Preemption on Local Tax on Food and Beverage
5185	Hertel, Kevin	Environmental protection: water pollution; Agriculture: fertilizer; State agencies (existing): environmental quality	Agriculture			Winter Manure spreading ban

5227	Victory, Roger	Agriculture: regulation; Agriculture: products; State agencies (existing): agriclutrue and rural development	Agriculture	Agriculatue	PA 94'18	Potato seed
5281	Lucido, Peter	Animals: service animals; State agencies (existing): argiculture and rural development	Agriculture			Service animal training certification
5547	Victory, Roger	Drains: districts;	Local Government			
5724	Inman, Larry	Food: other; Food: restaurants; Food: service establishments;	Agriculture			Latex Gloves
5778	Albert, Thomas	Agriculture: animals; State agencies (existing): agriculture and rural development	Agriculture			Large Carnivore

5775	Hauck, Roger	Crimes; animals; provision related to disposition and use of animals pernintly unfit to work; repeal	Oversite		PA 286'18	Repeals Package
5916	Vaupel, Hank	Animals: pet shops; Animals: dogs; Animals: other				Pet shop restictions
5917	Vaupel, Hank	Local government: ordinances; Local government: boards and commissions; Animals: pet shops;				Prohibit Ban on Pet Shops
5935	Hughes, Holly	Drains: other; Drains: drain commissioners; Drains: maintenance and improvement	Local Government			
5936	Hughes, Holly	Drains: other; Drains: drain commissioners; Drains: maintenance and improvement	Local Government			
5937	Hughes, Holly	Drains: drain commissioners; Drains: other	Local Government			

5947	Barrett, Tom	Agriculture: agribusiness	Agriculture			Barn Weddings
5993	Marino, Steve	Agriculture: diseases and pests; State agencies (existing): agriculture and rural development;	Oversight			Repeals Package
5996	Alexander, Julie	Agriculture: products; State agencies (existing): agriculture and rural development	Oversight			Repeals Package
6003	Allor, Sue	Energy: gas and oil; Environmental protection: hazardous products; State agencies (existing): agriculture and rural development	Oversight			Repeals Package

6030	Rabhi, Yousef	Animals: cats; Animals: other; Health occupations: vertranairans; State agencies (existing) licensing and regulatory affairs	Agriculture			
6031	Sneller, Tim	Animals: Care and treatment; Animals: other; Health occupations: veterinarians;	Agriculture			
6032	Ellison, Jim	Crimes: animals; Animals: other;	Agriculture			
6033	Liberati, Frank	Animals: birds; Land use: other; Local government: other; Local government: ordinances	Agriculture			
6034	Gay-Dagnogo, Sherry	Crimes: animals; Crimes: penalties; Animals: other; Animals: dogs; Health occupations: vetrenarians	Agriculture			

6151	Johnson, Steven	Drains: other; Drains: districts; Drains: maintenance and improvements; Drains: water management districts; Communications: newspapers and magazines; Communications: internet	Local Government			Publish notice of Drain projects
6152	Johnson, Steven	Drains: other; Drains: districts; Drains: maintenance and improvements; Drains: water management districts; Communications: newspapers and magazines; Communications: internet	Local Government			Drain Projects
6182	Ellison, Jim	Animals: exotic;	Agriculture			Detroit Large Carnivore exemption

6205	Lauwers, Dan	Animals: other; State agencies (existing): agriculture and rural Development	Agriculture			Animal Industry Act
6206	Howell, Gary	Animals: other; State agencies (existing): agriculture and rural development	Agriculture			Animal Industry Act
6207	Victory, Roger	Animals:other; State agencies (existing): agriculture and rural development;	Agriculture			Animal Industry Act
6208	Alexander, Julie	Animals: other; State agencies (existing): agriculture and rural Development	Agriculture			Animal Industry Act
6209	Vaupel, Hank	Animals: other; State agencies (existing): agriculture and rural Development	Agriculture			Animal Industry Act

6210	Vaupel, Hank	Animals: other; State agencies (existing): agriculture and rural Development	Agriculture			Animal Industry Act
6211	Wentworth, Jason	Animals: other; State agencies (existing): agriculture and rural Development	Agriculture			Animal Industry Act
6212	Calley, Julie	Animals: other; State agencies (existing): agriculture and rural Development	Agriculture			Animal Industry Act
6213	Barrett, Tom	Animals: other; State agencies (existing): agriculture and rural Development	Agriculture			Animal Industry Act
6214	Frederick, Ben	Animals: other; State agencies (existing): agriculture and rural Development	Agriculture			Animal Industry Act

6216	Cole, Triston	Animals: other; State agencies (existing): agriculture and rural Development	Agriculture			Animal Industry Act
6330	Lauwers, Dan	Agriculture: industrial hemp; Occupations: business licensing and registration; State Agencies (existing): agriculture and rural development	Agriculture			Industrial Hemp
6331	Johnson, Steven	controlled substances: marihuana	Agriculture			CBD



FOOD AND AGRICULTURE INVESTMENT PROGRAM
MICHIGAN DEPARTMENT OF AGRICULTURE AND
RURAL DEVELOPMENT

TERMS SHEET

PROJECT TITLE

Maiden Mills specialty grain processing facility in Holland

COMPANY INFORMATION

Company Legal Name: Maiden Mills, LLC
Address: 182 West 9th Street, Holland, Michigan 49423
Federal ID Number: 20-0949141

COMPANY PROJECT

Project Location (Address): 13871 Blair Street, Holland, Michigan
Total Project Investment Amount: \$76,000
Total Project Jobs Created: 1

MDARD PROJECT SUPPORT

Type of Project: Performance Based Grant
Grant Amount: **\$10,000**

Milestones:

1. Completion of site improvements and building electrical upgrades for the facility in Holland, Michigan, and;
2. Installation and operation of new machinery and equipment, including millstones, pneumatic loader, and grits separator to allow for the operation of the Holland facility, and;
3. Documentation of necessary state food processing permits, and local building occupancy permits for the facility in Holland.

All milestones must be completed prior to receiving a disbursement of the performance-based grant.

If the terms of this Letter of Intent for a grant are accepted, the project will be taken to the Agriculture and Rural Development Commission for approval. If approved by the Commission, a grant agreement will be signed between the company and MDARD incorporating the terms included in this term sheet.

ACKNOWLEDGEMENT OF TERMS OF SUPPORT FOR PROJECT:

Company	Date	MDARD	Date
	Sept. 10, 2018		9/7/18
Alisa Crawford Manager		Peter C. Anastor, Director, Agriculture Development	

Print Name and Title



FOOD AND AGRICULTURE INVESTMENT PROGRAM
MICHIGAN DEPARTMENT OF AGRICULTURE AND
RURAL DEVELOPMENT

TERMS SHEET

PROJECT TITLE

Ridgeview Orchards asparagus equipment upgrade

COMPANY INFORMATION

Company Legal Name: Ridgeview Orchards, LLC
Address: 1567 Wilson, Conklin, Michigan 49403
Federal ID Number: 38-2583791

COMPANY PROJECT

Project Location (Address): 3509 18 Mile Road, Kent City, Michigan
Total Project Investment Amount: \$257,552
Total Project Jobs Created: 0

MDARD PROJECT SUPPORT

Type of Project: Performance Based Grant
Grant Amount: \$50,000

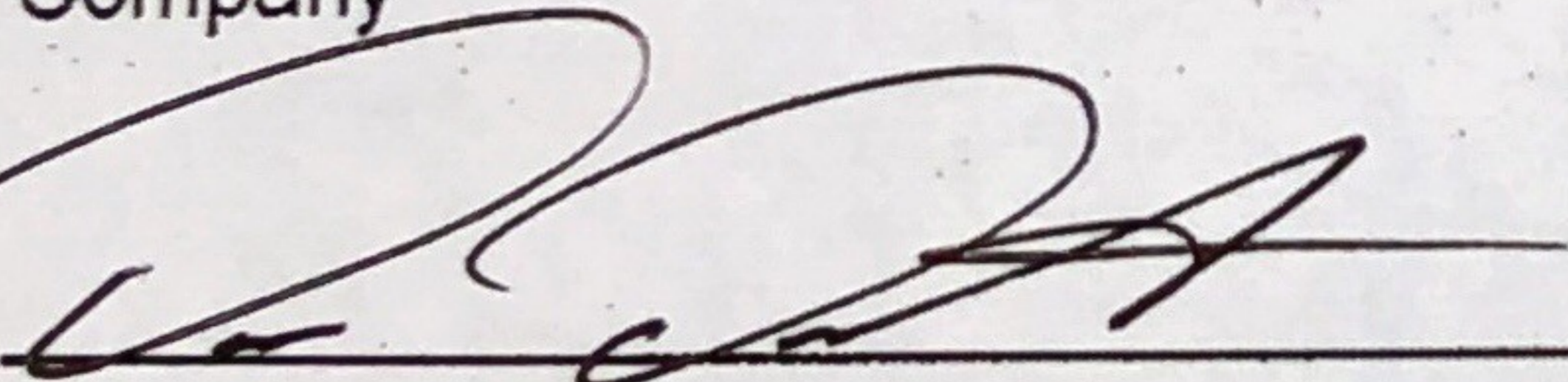
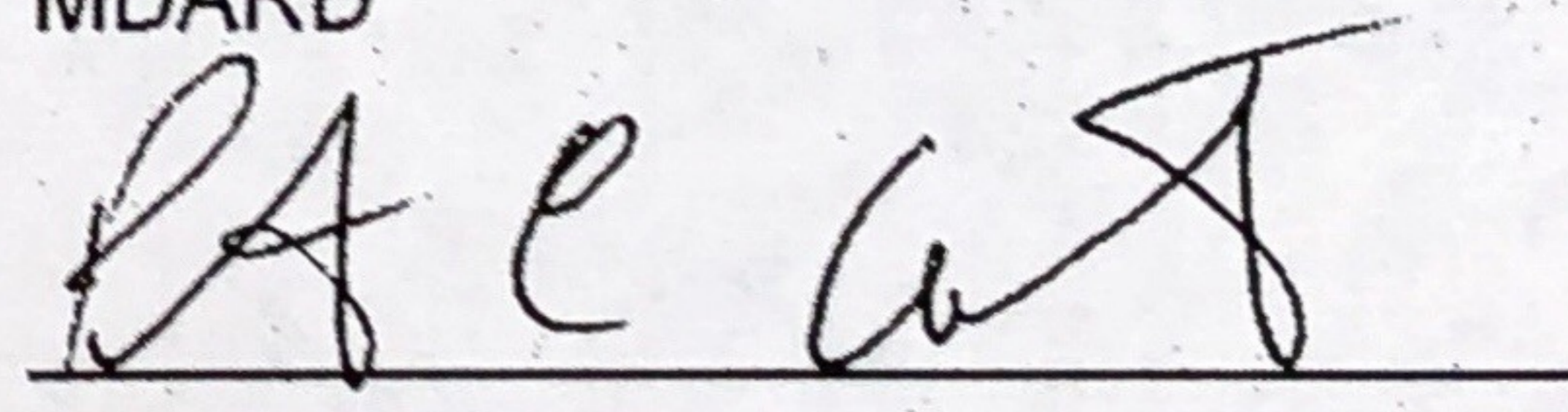
Milestones:

1. Completion of building renovations, including drain relocation and new cement to comply with food safety specifications in the existing facility in Kent City, Michigan, and;
2. Installation and operation of two (2) new vegetable buncher machines at the Kent City facility, and;
3. Documentation of necessary state food processing permits.

All milestones must be completed prior to receiving a disbursement of the performance-based grant.

If the terms of this Letter of Intent for a grant are accepted, the project will be taken to the Agriculture and Rural Development Commission for approval. If approved by the Commission, a grant agreement will be signed between the company and MDARD incorporating the terms included in this term sheet.

ACKNOWLEDGEMENT OF TERMS OF SUPPORT FOR PROJECT:

Company	Date	MDARD	Date
	9-7-18		9/6/18
Dan Dietrich member		Peter C. Anastor, Director, Agriculture Development	
Print Name and Title			



FOOD AND AGRICULTURE INVESTMENT PROGRAM
MICHIGAN DEPARTMENT OF AGRICULTURE AND
RURAL DEVELOPMENT

TERMS SHEET

PROJECT TITLE

StoneCrest Creamery new artisan cheese facility in Onaway

COMPANY INFORMATION

Company Legal Name: StoneCrest Creamery, LLC
Address: 20749 State Street, Onaway, Michigan 49765
Federal ID Number: 83-1752963

COMPANY PROJECT

Project Location (Address): 20749 State Street, Onaway, Michigan
Total Project Investment Amount: \$453,900
Total Project Jobs Created: 5

MDARD PROJECT SUPPORT

Type of Project: Performance Based Grant
Grant Amount: \$40,000

Milestones:

1. Completion of building renovations, including new roof, electrical, HVAC and concrete flooring for the 1,800 square foot facility in Onaway, Michigan, and;
2. Installation and operation of new machinery and equipment including pasteurizing cheese vat and holding tank, chiller and milk pump at the Onaway facility, and;
3. Documentation of necessary state food processing permits and local building occupancy permits for the facility in Onaway.

All milestones must be completed prior to receiving a disbursement of the performance-based grant.

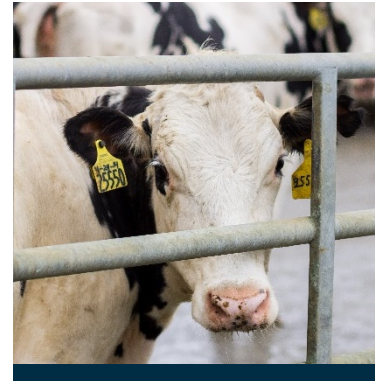
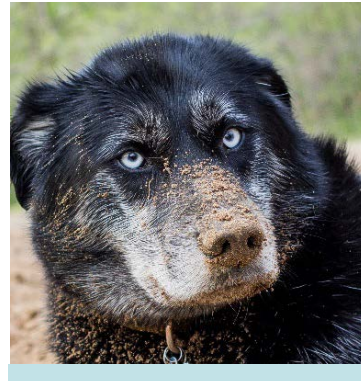
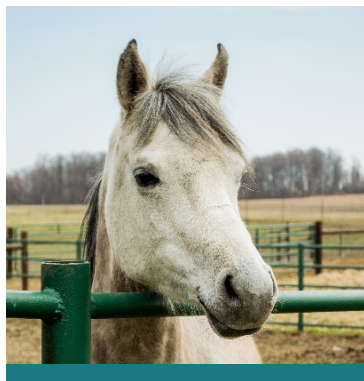
If the terms of this Letter of Intent for a grant are accepted, the project will be taken to the Agriculture and Rural Development Commission for approval. If approved by the Commission, a grant agreement will be signed between the company and MDARD incorporating the terms included in this term sheet.

ACKNOWLEDGEMENT OF TERMS OF SUPPORT FOR PROJECT

Company	STONECREST Creamery	Date	9-6-18	MDARD		Date	
			9-6-18				9/15/18
Print Name and Title	Owner / President				Peter C. Anastor, Director, Agriculture Development		

ENHANCED WILDLIFE BIOSECURITY

Agriculture Commission Meeting
September 19, 2018



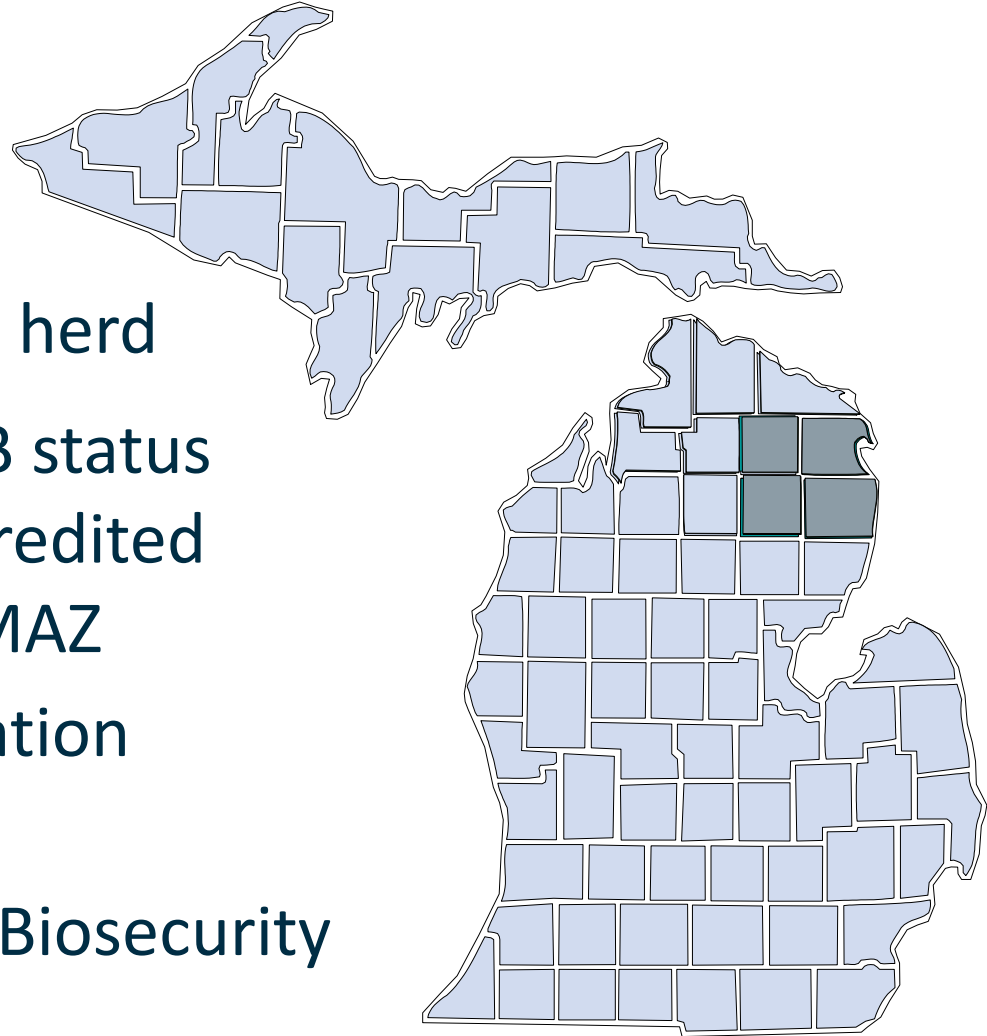
Nancy Barr, DVM
Assistant State Veterinarian and
TB Program Coordinator

Enhanced Wildlife Biosecurity Program

- Michigan's TB background
- Enhanced Wildlife Biosecurity (EWB) Philosophy
- Overview of EWB program
- Deer removal assistance
- Cost-share program

Bovine TB in Michigan

- **1994:** a buck harvested was found positive for bovine TB
- **1998:** First positive cattle herd
- **2000:** Michigan's state TB status dropped to modified accredited
- **2014:** Current 4 county MAZ
- **2010:** Wildlife Risk Mitigation (WRM) was instituted
- **2018:** Enhanced Wildlife Biosecurity (EWB) made mandatory



Where is TB in Wildlife



European Badger in United Kingdom and Ireland



Swine in Spain

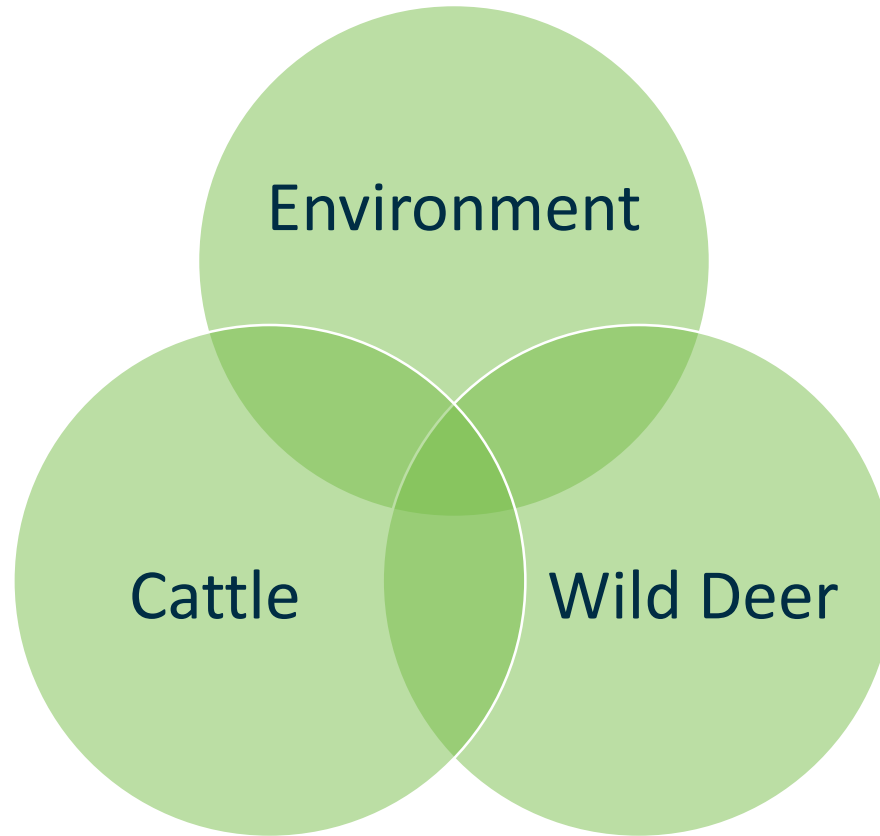


Brushtail Possum in New Zealand

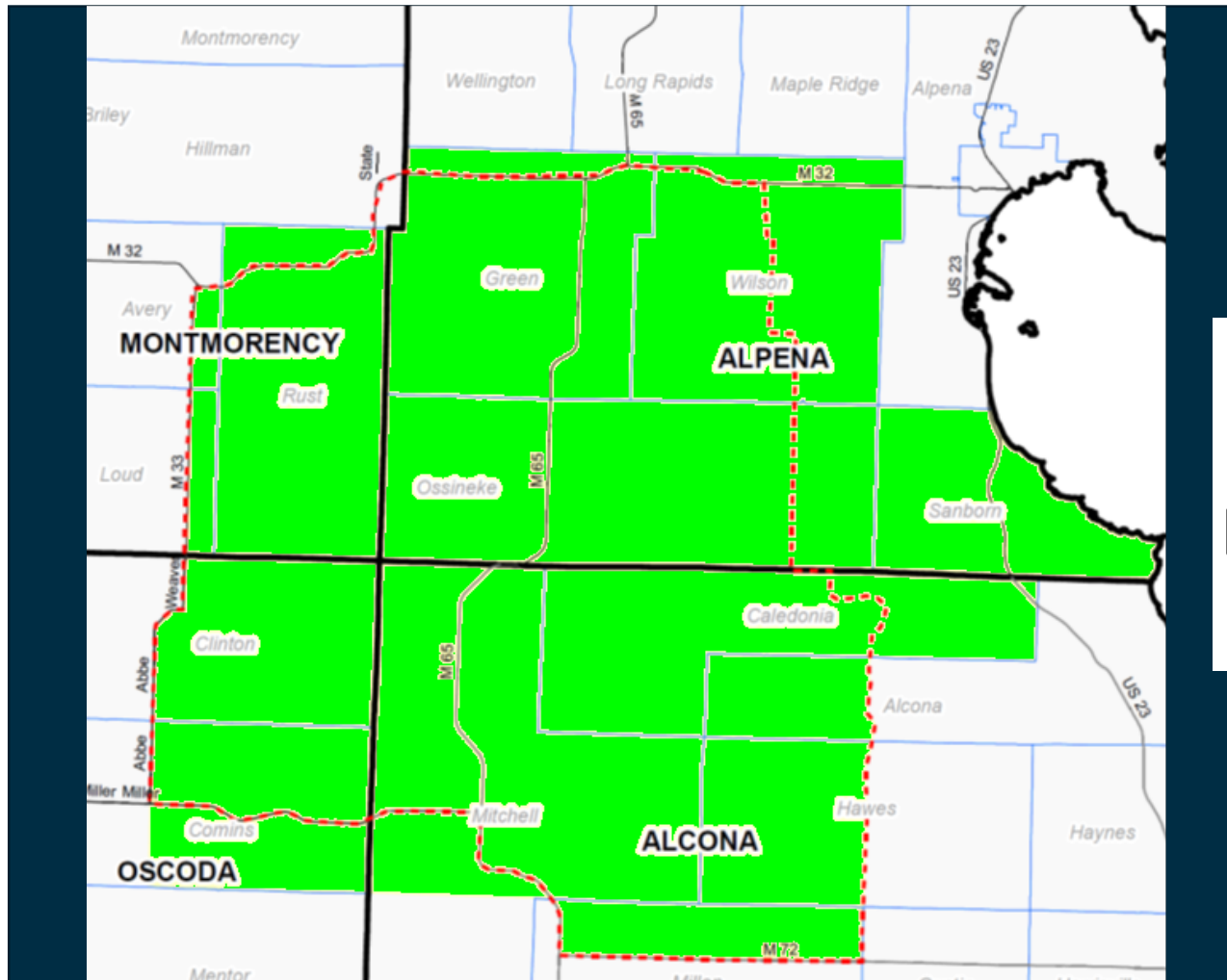


White-Tailed Deer in Michigan






Bovine TB in Michigan



Enhanced Wildlife Biosecurity Area



Legend

-  Enhanced Wildlife Biosecurity Area
-  DMU 452
-  County Boundary
-  Township Boundary
-  State Hwy

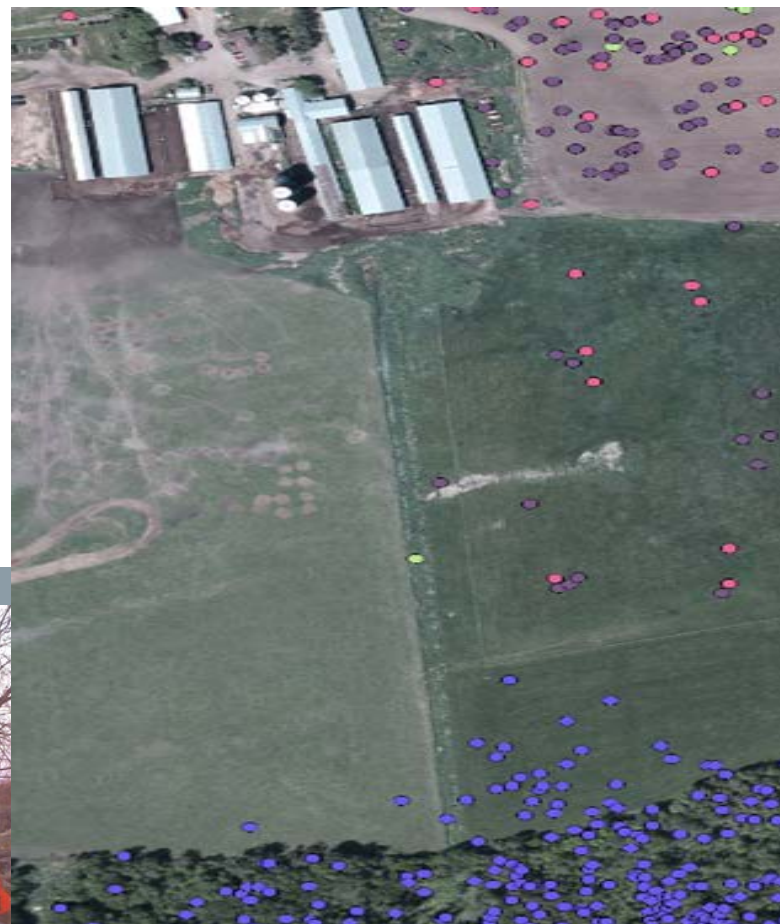
Enhanced Wildlife Biosecurity Philosophy

- Area at highest risk for spillover of bovine TB from free-ranging deer to cattle
- Positive deer and cattle farms are grouped in a localized area
- Strengthen biosecurity practices on farms
- Team and community approach



NWRC study in MAZ

- There are deer that live in the woods and there are deer that live on farms
- Deer change their habits when they have access to food sources on farms



Photos courtesy of USDA WS

Enhanced Wildlife Biosecurity Overview

- “Team-Epi” approach
- Identify biosecurity risks on each farm
- Develop a plan
- Implement plan by January 2020
- Provide deer removal assistance
- Cost-share program



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Photo courtesy of USDA WS

Managing Deer on Cattle Facilities

- Physical barriers to discourage deer activities in cattle areas
- Deer removal assistance from USDA Wildlife Services (WS)
- Disease Control Permits to remove deer that live on farm facilities



Bushnell

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Photos courtesy of USDA WS

Farm Assessments: Identifying Risks

As a part of the EWB, MDARD and USDA WS regularly assess deer activity and identify risk areas on cattle facilities

- feed storage locations
 - cattle feeding areas
 - cattle watering areas
 - pastures where cattle graze
-
- Implementation of biosecurity plan on farms by January 2020



Photos courtesy of USDA WS

Targeted Deer Removal

- USDA Wildlife Services Partnership will provide assistance to cattle farmers
- Three main seasons of deer pressure on farms:
 - **Deep winter**
(December-February)
 - **Spring breakout**
(March-April)
 - **Summer**
(June-August)



Cost-Share Program

- Funds were secured to provide assistance to mitigate risks
- 75% State/25% Producers
- Primarily provides fencing for feed areas and around pastures
- Work with conservation district to implement funds



Summary

- It's been a long road
- This is a long-term, multi-faceted issue
- EWB is currently our best tool to prevent positive cattle herds
- Requires collaboration with DNR, USDA WS, Conservation Districts, cattle farmers and their neighbors in the EWB area





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