



# Michigan Agriculture Environmental Assurance Program (MAEAP)

## 2020 Annual Legislative Report

Pursuant to reporting requirements stated in P.A. 118 of 2015, this report is filed with the legislature on behalf of the Michigan Department of Agriculture and Rural Development (MDARD) and the Michigan Agriculture Environmental Assurance Program (MAEAP). The reporting language asks for single year, as well as historical totals for the program. Some specific historical numbers are available and have been provided below dating back to 2002. Not all historical data being asked for in the 2015 legislation was captured prior to that year. Implementation of the MAEAP database began early in FY17. We continue to work with DTMB on refining this system to address the data requirements of this report as well as our business needs

### **County and Statewide Total for FY20 for:**

- i. **Conservation Practices Implemented.** Historically the program combined conservation practices that technicians helped implement and technical assistance (risk assessments) into one document of total practices. To satisfy reporting requirements, the program split these two categories to report them separately beginning in FY17. For FY20, technicians assisted in implementing 3,404 conservation practices on farms. This information is in the attachment ***“MAEAP Conservation and Technical Assistance Summary”***. Additionally, for FY20, there were 589 new risk assessments conducted on farms, and 779 re-assessments for a total of 1,368 technical assistance assessments completed. The total for FY20 by county for both risk assessments and conservation practices is itemized and organized in the attachment titled ***“FY20 Risk Assessments by County”***.
- ii. **Environmental Impacts of Practices Implemented.** Every year, MAEAP publishes a summary of environmental outcomes for the program. These outcomes are based on formulas utilized by the United States Department of Agriculture Natural Resources Conservation Service (NRCS) and the Michigan Department of Environment, Great Lakes and Energy (EGLE) to calculate the effects of conservation practice implementation. This information includes sediment reduction, nutrient loss calculations, as well as a listing of key, high impact best management practices implemented on farms that were verified in MAEAP during the fiscal year. This summary has been a limitation, because it does not capture any of the named practices implemented by farmers who are working with MAEAP but have not yet been verified. The reporting database developed during FY16 was intended to allow the program to show the effects of



all farms in the program, not just those recently verified. Due to continuing work on the new database, this can only be partially accomplished for FY20. For FY20, farms that were verified within MAEAP have 227,298 acres managed with a nutrient management plan; the amount of sediment reaching waterways was reduced by 334,983 tons; the amount of phosphorus runoff was reduced by 551,709 pounds; and nitrogen leaving farm fields was reduced by 1,173,344 pounds. The environmental impact of farms verified in FY20 statewide can be seen in the attachment ***“2020 EnviroSummaryInfo.”*** The environmental impact breakdown by county for FY20 can be seen in the attachment ***“FY20 Envirosummary by County.”***

- iii. **Number of Verifications and Reverifications.** In FY20, there were 392 new verifications. This number was down from FY19. Much of this can be directly attributed to the Covid pandemic. During the months of March-May, three of the program’s typically busiest months, only a handful of verifications happened. The continuing pandemic issue has caused delays and rescheduling. Of the 392 verifications, 148 are Cropping system, 118 are Farmstead system, 51 are Livestock system, and 75 are in the Forest, Wetland and Habitat system. In FY20, there were 384 total reverifications in the program. Of those 384 reverifications, 170 are Cropping system, 149 are Farmstead system, and 64 are Livestock system and 1 in the Forest, Wetland and Habitat system. The breakdown by county can be found in the attachment ***“FY20 Breakdown Vers and Revers by County.”***
- iv. **Number of Unique Farms Verified.** In FY20, there were 380 unique sites verified in MAEAP. The county-by-county breakdown of these unique sites is included in the attachment ***“FY20 Unique Sites by County.”***
- v. **Number of Farms in Tiered Recognition System.** There are no farms currently in the tiered system. The new database currently requires the condition of Tier 1 to be met before a verification can occur, but still lacks functionality to print a document or an environmental report to producer’s indicating they have reached this milestone. This is one of the functionality issues being addressed. With that clarified, technicians have not reported a desire by producers to have this feature. Our commodity partners, however, are very interested in the data to support their sustainability efforts so this is a priority item on the MDARD side of the database modifications.
- vi. **Total area and percentage of this state’s farmland involved.** Farms verified in FY20 had a total of 227,298 acres with nutrient management plans or comprehensive nutrient management plans. Based on the 2017 Census of Agriculture, Michigan has 7,924,480 acres of cropland. Based on that number, the acreage of farms verified in FY20 represents slightly over 2.8% of the total Michigan farmland.



## **County and Statewide Program Totals To-Date**

- i. **Conservation Practices Implemented.** Historically, technicians reported “Risk Reduction Practices,” which is a combination of the Conservation Practices and Technical Assistance Practices. The total “Risk Reduction Practices” implemented from FY2009 (oldest data on record) to FY2016 totals 48,668 practices combined. Beginning in FY17, as mentioned previously, these categories have been split. The 48,668 number will remain in this report annually moving forward for historical reference. These practices can be seen in the attachment ***“MAEAP Technical Assistance and Conservation Summary FY09-FY16.”*** From FY17 through FY20, there have been 16,044 practices implemented by MAEAP technicians working with farmers. The conservation practices implemented in FY17-20 can be seen in the attachment ***“FY17-20 MAEAP Conservation and Technical Assistance Summary.”***
- ii. **Environmental Impacts of Practices Implemented.** Environmental impacts are only measured over a five-year rolling cycle due to the nature of the verification period for farms. Reporting covers the five- year cycle from FY16- FY20. These figures are also reported by county. The FY16-20 cumulative numbers for nutrient management plan implementation total 1,101,508 acres; sediment reduction totals 1,629,547 tons; phosphorus reduction totals 2,704,718 pounds; and nitrogen reduction totals 5,859,353 pounds. The MAEAP program totals for FY16-20 can be found in the attachment ***“FY16-20 Total EnviroSummaryInfo”***
- iii. **Number of New Verifications and Reverifications.** From FY02-20, there were 5,764 new verifications in MAEAP. This includes 2,360 Cropping system; 2,008 Farmstead system; 971 Livestock system; and 425 Forest, Wetland and Habitat system. Over the period FY05-20, there were 2,825 reverifications in MAEAP. This included 1,183 Cropping system, 1,101 Farmstead system, and 540 Livestock system. The first Forest, Wetland and Habitat System reverification also occurred in FY20, with a total of 1. Verifications and reverification by year can be seen in the attachment ***“MAEAP Verifications Over Time FY20.”*** Verifications and reverifications by county over the lifetime of the program can be viewed in the attachment ***“Verifications, Reverifications and Unique Sites Breakdown By County.”***
- iv. **Number of Unique Farms Verified.** The total number of unique sites verified from FY02 to FY20 is 3,381. The number of unique sites by county can be seen in the attachment ***“Verifications, Reverifications and Unique Sites Breakdown By County.”***



- v. **Number of Farms in Tiered Recognition System.** There are no farms currently involved in the tiered recognition system. This is being implemented as database corrections are implemented.
- vi. **Total Area and Percentage of This State's Farmland Involved.** Based on the acres in nutrient management plans and comprehensive nutrient management plans from the FY16-20 environmental summary, that acreage totals 1,101,508 acres. The 2017 Census of Agriculture states that Michigan had 7,924,480 total acres of cropland. Based on that number, farms verified in MAEAP currently represent 13.9% of the cropland in the state of Michigan. Totals by county are not available for this period.

### **Summary of Educational and MAEAP Standards Changes**

A summary sheet of standards changes for each system (Cropping; Farmstead; Livestock; and Forest, Wetland and Habitat) are found in the respective attachments for each system: ***"CAS Summary Sheet," "FAS Summary Sheet," "LAS Summary Sheet," and "FWH Summary Sheet."*** Changes to the A-Syst tools will be in the form of red-letter strikethrough documents for each system. Because the Cropping system contains multiple documents that focus on specific types of production, the changes for this systems' documents can be found in the attachments ***"2020 Nursery Proposed Amendments," "2020 Field Crop and Veg Proposed Amendments," "2020 Fruit Proposed Amendments," "2020 Greenhouse Proposed Amendments," "FAS Proposed Amendments," "LAS Proposed Amendments," and "FWH Proposed Amendments."***

### **Summary of Subcommittee Work beyond Standards**

- i. **Farmstead Committee.** In addition to standards review and revision, the Farmstead committee continued working on a situation with inconsistencies in state regulations pertaining to anti-backflow devices in greenhouse and certain other higher risk operations to provide for wellhead protection. This work carried over from 2019, as these inconsistencies still exist and are problematic for farms attempting to comply with MAEAP standards.
- ii. **Cropping Committee.** In addition to standards review and revision, the Cropping committee continues working with a multi-partner group to address the development of best management practices for farmers utilizing chemigation and fertigation in their irrigation systems. There are no standards in place to ensure wellhead safety when these practices are utilized, and this is a common practice in areas with irrigation. Guidance to producer's is needed.

The committee continues working to identify acceptable methods and standards for backflow prevention in irrigation, as the methods considered acceptable by



MDEQ and county Health departments are neither functional nor practical in field production situations. The group is working with the same group coordinating the standard development for fertigation and chemigation. Clarifying both issues will help refine MAEAP standards on this issue and allow for better producer education. This is now the third year that the committee has been working on this issue, which is an high profile issue for crop growers utilizing irrigation along with fertigation or chemigation.

The group also helped to resolve an issue involving movement of porta-potties between farm fields by farmers, which was considered a violation of the Michigan Sanitary code. This was resolved by changes which allowed this practice to be done on farms in lieu of hiring septage haulers.

- iii. **Livestock Committee.** In addition to standards review and revision, the Livestock committee worked on addressing a change in the RTF Siting GAAMP that would have prevented a number of previously verified livestock farms from being reverified. The group worked closely with RTF staff and the MAEAP Advisory Council to achieve a suitable process to address the issue, allowing these farms to maintain their verification status. The committee also helped implement a program to provide certification for custom manure applicators statewide. This program is currently underway after a long delay.
- iv. **Forest, Wetlands and Habitat Committee.** This committee focused primarily on the standards review in FY20. The committee has worked diligently the last four years to continue refinement and clarification of the MAEAP standards associated with the system. They have invested a lot of their efforts into expanding the habitat and wetland standards to be much more inclusive and comprehensive.

<b>FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallons</b>
<b>Alcona</b>	<b>106</b>	<b>30</b>	
Dead Animals Handled According to BODA		1	
Drift Management Plan, New		1	
Emergency Plan, Pesticide New		1	
Environmentally Sensitive Areas Identified	50		
Land Management Plan, New		1	
Livestock Yard, Drainage Diversion		1	
Manure Storage, Temporary Location		1	
Manure, Management Records		1	
Odor Management Plan		2	
P Fertilizer, Rate Determination	50		
Pastures Have Current Soil Tests		6	
Soil Testing, Representative Sampling		2	
Soil Testing, Triennial		5	
Soil, Nutrient Records	6		
Storage, Signage		1	
Storage, Spill Kit		1	
Veterinary Product and Waste Disposal		1	
Well Decommissioned		1	
Well Tests, Every Three Years		2	
Well Tests, Health Standards		2	
<b>Alger</b>	<b>5</b>	<b>36</b>	
All Habitat Types Identified and Mapped In LMP		1	
Appropriate Records For Forest Product Harvests And Other Management Activities		1	
Bogs And Fens Identified And RMZs Established		1	
Environmentally Sensitive Areas Identified	3		
Forestland Enrolled In Sustainable Forest Certification Program		1	
Harvest Plan Map Used For Harvest		1	
Invasive Species Identified And Managed		1	
IPM Used To Control Pests		1	
Land Management Plan, New		1	
Landowner Enrolled in Programs Appropriate To Objectives		1	
Landowner Minimizes Impact To Cultural Sites and Works With SHPO As Needed		1	
Landowner Uses Natural Resource Professionals For Services		1	
Landowner Uses Professionals With Insurance and That Comply With Federal, State, and Local Regulations		1	
LMP Allows for Active and Adaptive Management		1	
LMP Identifies All Resource Concerns		1	
LMP Includes Landowner Objectives		1	
LMP Prepared By Professional Natural Resource Manager		1	
Manage Visual Impacts Of Forest Management Using Visual Quality Criteria In RTF GAFMPs		1	
Management Activities Conform to Applicable Forest Land BMPs		1	
Management Activities Conform To GAFMPs		2	
Manure Application, Runoff Prevention	3		
Manure Storage, Runoff Management		1	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Manure Storage, Temporary Location			2	
Manure Storage, Temporary Stacked, Surface Water Setback			2	
Other Environmental Risks Resolved			3	
Owner Monitors Harvests to Ensure Conformance With LMP			1	
Potential Conflict Between Timber Management And Habitat Development Resolved			1	
Restoration Potential and Long-Term Management Outlined in HMP			1	
Site Monitored Annually For Changes			1	
Sustainable Soil And Water Quality Practices Followed			1	
Timber Harvesting Conducted According To FMP			1	
Timber Sale Contract Prepared By Professional Forester			1	
Water Bodies Identified And Riparian Management Zones Established			1	
<b>Allegan</b>		<b>6,720</b>	<b>161</b>	
Anti-Backflow Device Installed			1	
Backflow Prevention on Livestock Watering Systems			1	
Conservation Practices Routinely Evaluated			2	
Corn Rotated Annually			1	
Cover Crop Use		1,504		
Dead Animals Handled According to BODA			3	
Drift Management Plan, New			3	
Emergency Plan, Manure Spill, New			3	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			2	
Emergency Plan, Revised, Silage			1	
Environmentally Sensitive Areas Identified		5,158		
Equipment, Parking and Storage			1	
Excess or Unwanted Product, Disposed of Properly			1	
Farm Emergency Plan Developed and Followed, New			1	
Fertilizer, Determination of Rates			1	
Impermeable Surface, Fuel			1	
IPM Scouting Weekly			1	
Irrigation Fuel Tank Meets Setback Requirements			2	
Irrigation, Anti-backflow Device Separating Groundwater and Surface Water			1	
Irrigation, Evaluation for Uniformity			1	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			2	
Irrigation, Scheduling			7	
Irrigation, System Evaluation			1	
Isolation Distances Met			3	
Large Quantity Water Withdrawal Registered			1	
Livestock Management, Recordkeeping			1	
Livestock Yard, Manure Scrape and Haul			1	
Manure Application, Rate Determination			1	
Manure Application, Rates Do Not Exceed Crop N Needs			1	
Manure Application, Rates Do Not Exceed Crop P Needs			1	
Manure Storage, Isolation Distances Met			1	
Manure Storage, Liquid Storage Freeboard Maintained			1	



FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Manure Storage, Temporary Duration			1	
Non-Forested/Non-Wetland Habitats Being Restored			2	
Nursery Containers, Containers Recycled or Reused			1	
Nutrient Management Plans, Annual By Field		19		
Nutrient Management Records, Multiple			1	
Nutrients, All Sources Considered			3	
Odor Management Plan			4	
Other Environmental Risks Resolved			1	
P Fertilizer, Rate Determination			2	
Pasture Soil Tested			2	
Pastures Have Current Soil Tests			1	
Pest Management, Reviews Previous Years Results			1	
Pesticide Application, Recordkeeping			1	
Pesticide Handling, Field Mixing and Loading			1	
Pesticide Spill Kit Availability			4	
Pesticides, Application Recordkeeping			1	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			4	
Pesticides, Drift Management Plan, Revised			1	
Pesticides, Emergency Plan and Contacts			4	
Pesticides, Equipment Calibration			1	
Pesticides, Mixing and Loading In Field			1	
Pesticides, Rinsate Disposal			1	
RUP Compliance			1	
Secondary Containment, Mix-Load			1	
Soil Erosion Controlled		1		
Soil Testing, Representative Sampling			7	
Soil Testing, Triennial			6	
Soil, Nutrient Records		19		
Soil, pH Maintenance		19		
Storage, Shelving			1	
Storage, Signage			2	
Storage, Spill Kit			3	
Surface Drains Present Around Farmstead			1	
Veterinary Product and Waste Disposal			2	
Water, Protected From Pesticide Contamination			1	
Well Construction			3	
Well Inspected			25	
Well Repaired to Standards			2	
Well Setback, Manure Sources			1	
Well Tests, Every Three Years			9	
Well Tests, Health Standards			7	
<b>Alpena</b>		<b>1,510</b>	<b>28</b>	
Anti-Backflow Device Installed			2	
Emergency Plan, Fertilizer New			1	
Environmentally Sensitive Areas Identified		500		
LMP Identifies Special Sites and Contains Activities to Maintain Them			1	



FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Manure Storage, Temporary Location			1	
Nutrient Management Plans, Annual By Field		500		
Odor Management Plan			2	
Pesticide Spill Kit Availability			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Mixing and Loading In Field			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			1	
Soil Testing, Representative Sampling			4	
Soil Testing, Triennial		10	3	
Soil, Nutrient Records		500		
Storage, Security			1	
Storage, Signage			1	
Veterinary Product and Waste Disposal			1	
Well Tests, Every Three Years			3	
Well Tests, Health Standards			3	
<b>Antrim</b>			<b>19</b>	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Pesticide New			1	
Emergency Plan, Pesticide Revised			2	
Isolation Distances Met			4	
Pesticide Spill Kit Availability			1	
Required Regulatory Reporting and Recordkeeping Compliance			1	
Secondary Containment, Fertilizer			1	
Storage, Labeled Containers			2	
Storage, Signage			1	
Storage, Spill Kit			2	
Waste, Mercury			2	
<b>Arenac</b>			<b>1</b>	
106 Forest Management Plan - Written			1	
<b>Bay</b>		<b>22,600</b>	<b>9</b>	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			1	
Environmentally Sensitive Areas Identified		7,350		
Nutrient Management Plans, Annual By Field		7,250		
Nutrients, All Sources Considered			1	
Pesticide Spill Kit Availability			2	
Pesticides, Drift Management Plan, New			2	
Pesticides, Emergency Plan and Contacts			1	
Soil Erosion Controlled		8,000		
Storage, Spill Kit			1	
<b>Benzie</b>		<b>21</b>	<b>29</b>	
Dead Animals Handled According to BODA			1	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			1	
Fertilizer, Determination of Rates			1	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Irrigation, Rain Gauges in Fields			1	
Isolation Distances Met			3	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			1	
Livestock Yard, Drainage Diversion			1	
Livestock Yard, Runoff Management			1	
Livestock Yard, Surface Water Setback			1	
Manure Application, Rate Determination			2	
Manure Storage, Clean Water Diverted			1	
Manure Storage, Runoff Management			1	
Manure, Isolation Distances Met			1	
Manure, Management Records			1	
Nutrient Management Records, Multiple			1	
Odor Management Plan			2	
Pesticide Application, Recordkeeping			1	
Pesticide Drift Management Plan, New			1	
Pesticide Handling, Field Mixing and Loading			1	
Pesticide Spill Kit Availability			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			1	
Soil and/or Tissue Testing, Quadrennial		1		
Soil, Nutrient Records		20		
Storage, Spill Kit			1	
<b>Berrien</b>		<b>716</b>	<b>65</b>	
Drift Management Plan, New			1	
Drift Management Plan, Revised			3	
Emergency Plan, Pesticide New			5	
Emergency Plan, Pesticide Revised			3	
Environmentally Sensitive Areas Identified		253		
Fertilizer, Determination of Rates			2	
Fertilizer, Rate Determination		145		
Irrigation, Amount Determined Accurately			1	
Irrigation, Rain Gauges in Fields			2	
Irrigation, Record Keeping			1	
Livestock Yard, Manure Scrape and Haul			1	
Livestock Yard, Surface Water Setback			1	
Manure, Field Stockpile Duration			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			2	
Nutrient Management Records, Multiple			3	
Nutrients, All Sources Considered			1	
Odor Management Plan			1	
P Fertilizer, Rate Determination			2	
Pesticide Application, Recordkeeping			1	
Pesticide Drift Management Plan, New			2	
Pesticide Drift Management Plan, Revised			4	
Pesticide Spill Kit Availability			2	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			1	
Pesticides, Label Compliance			7	
Soil and/or Tissue Testing, Quadrennial		214		
Soil Testing, Triennial		12	1	
Soil, Nutrient Records		92		
Storage, Security			1	
Storage, Signage			2	
Storage, Spill Kit			4	
Waste, Recycling and Disposal			1	
Water Use Reported			1	
Well Inspected			3	
Well Tests, Every Three Years			2	
<b>Branch</b>		<b>785</b>	<b>23</b>	
Adequate Land Base for Nutrients			1	
Drift Management Plan, Revised			2	
Emergency Plan, Fertilizer Revised			3	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide Revised			2	
Odor Management Plan			4	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, Revised			1	
Soil, Nutrient Records		785		
Well Tests, Every Three Years			5	
Well Tests, Health Standards			2	
<b>Calhoun</b>			<b>1</b>	
Emergency Plan, Fertilizer New			1	
<b>Cass</b>		<b>29,419</b>	<b>100</b>	
Adequate Land Base for Nutrients			1	
Anti-Backflow Device Installed			1	
Corn Rotated Annually			4	
Cover Crop Use		100		
Crop Yields, Realistic Goals			3	
Current On Pest Management Practices			1	
Dead Animals Handled According to BODA			3	
Drift Management Plan, Revised			1	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		6,002		
Erosion Controlled, Site		1		
Forestland Enrolled In Sustainable Forest Certification Program			1	
Herbicide Setback Maintenance			1	
Impermeable Surface, Fuel			3	
Invasive Species Identified And Managed			3	
Irrigation, Evaluation for Uniformity			1	
Isolation Distances Met			3	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Land Management Plan, New			1	
Livestock Management, NMP			3	
Management Activities Conform To GAFMPs			1	
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Location			3	
Manure, Application Rates Do Not Exceed Crop N Needs		2,000		
Manure, Isolation Distances Met			2	
No Restricted or Prohibited Species Present Without Permit			1	
Nutrient Management Plans, Annual By Field		1,000		
Nutrients, All Sources Considered			1	
Odor Management Plan			1	
Other Environmental Risks Resolved			1	
P Fertilizer, Rate Determination			1	
Pasture Management, Protecting Surface Water			1	
Pasture Soil Tested			2	
Pastures Have Current Soil Tests			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Label Compliance			2	
PPE Training And Maintenance			1	
Required Regulatory Reporting and Recordkeeping Compliance			2	
Secondary Containment, Operational Pad			1	
Secondary Containment, Pesticides			1	
Soil Erosion Controlled		7,806		
Soil Quality Indicators Evaluated			1	
Soil Testing, Representative Sampling			2	
Soil Testing, Triennial		10	9	
Soil, Nutrient Records		12,500		
Storage, Appropriate Tanks			4	
Storage, Decommissioned			1	
Storage, Monitored for Leaks			1	
Storage, Shelving			1	
Storage, Signage			1	
Storage, Spill Kit			1	
Storage, Valves and Hoses			3	
Veterinary Product and Waste Disposal			2	
Waste, Isolation Distances Met			1	
Waste, Recycling and Disposal			3	
Well Construction			1	
Well Inspected			1	
Well Repaired to Standards			1	
Well Tests, Every Three Years			5	
Well Tests, Health Standards			6	
Worker Notification			1	
<b>Charlevoix</b>			<b>1</b>	
Well Tests, Every Three Years			1	
<b>Cheboygan</b>			<b>14</b>	
Anti-Backflow Device Installed			3	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Containers, Properly Rinsed			1	
Excess Product, Label Rates			1	
Isolation Distances Met			1	
Manure Storage, Temporary Location			2	
Pesticides, Container Handling			1	
Pesticides, Excess Spray Mixture Use			1	
Pesticides, Mixing and Loading In Field			1	
Secondary Containment, Mix-Load			1	
Well Tests, Every Three Years			2	
<b>Chippewa</b>		<b>1,210</b>	<b>187</b>	
Anti-Backflow Device Installed			1	
Chemigation, Anti-backflow Device			1	
Dead Animals, Composting Isolation Distance			1	
Dead Animals, Composting Recordkeeping Meets BODA Requirements			1	
Drift Management Plan, New			4	
Emergency Plan, Fertilizer New			5	
Emergency Plan, Manure Spill, New			3	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			3	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		493		
Food Safety Program Written and Implemented			1	
IPM Used To Control Pests			1	
Irrigation, Amount Determined Accurately			3	
Irrigation, Evaluation for Uniformity			2	
Irrigation, Rain Gauges in Fields			9	
Irrigation, Record Keeping			4	
Isolation Distances Met			5	
Livestock Management, Anti-Backflow device installed			1	
Livestock Management, Recordkeeping			2	
Livestock Management, Runoff Management			2	
Livestock Yard, Drainage Diversion			3	
Livestock Yard, Manure Scrape and Haul			1	
Livestock Yard, Runoff Management			2	
LMP Includes Landowner Objectives			1	
Manure Storage, Design and Construction			1	
Manure Storage, Farmstead Stacked, Odor and Pest Control			1	
Manure Storage, Isolation Distances Met			1	
Manure Storage, Temporary Duration			3	
Manure Storage, Temporary Location			5	
Manure Storage, Temporary Stacked, Odor and Pest Control			1	
Manure, Designed Use			1	
Manure, Isolation Distances Met			1	
Manure, Management Records			3	
Nutrient Management Plans, Annual By Field		1		
Odor Management Plan			7	
Other Environmental Risks Resolved			1	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
P Fertilizer, Rate Determination			2	
Pasture Management For Vegetation and Runoff			1	
Pasture Soil Tested		12	1	
Pastures Have Current Soil Tests		12	1	
Pesticide Spill Kit Availability			2	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			4	
Pesticides, Emergency Plan and Contacts			1	
Pesticides, Excess Spray Mixture Use			1	
Pesticides, Mixing and Loading In Field			1	
Precipitation Leading to Contaminated Run-Off			2	
Secondary Containment, Fertilizer			1	
Secondary Containment, Fuel			2	
Secondary Containment, Mix-Load			1	
Soil Testing, Representative Sampling		24	19	
Soil Testing, Triennial		24	20	
Soil, Nutrient Records		644		
Storage, Signage			1	
Storage, Spill Kit			4	
Storage, Valves and Hoses			1	
Veterinary Product and Waste Disposal			3	
Waste, Floor Drains			3	
Waste, Recycling and Disposal			16	
Well Tests, Every Three Years			8	
Well Tests, Health Standards			8	
<b>Clare</b>			<b>7</b>	
Drift Management Plan, New			1	
Land Management Plan, New			1	
Runoff/Sedimentation Controlled			1	
Soil Testing, Triennial			1	
Storage, Dedicated			2	
Well Tests, Every Three Years			1	
<b>Clinton</b>		<b>1,010</b>	<b>52</b>	
378 Pond			1	
Chemigation, Anti-backflow Device			0	
Dead Animals Handled According to BODA			2	
Emergency Plan, Employee Training			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		10		
Erosion Controlled, Site		0		
Impermeable Surface, Fuel			1	
Irrigation, Amount Determined Accurately			0	
Irrigation, Anti-backflow Device Separating Groundwater and Surface Water			1	
Irrigation, Excessive Applications Avoided			0	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			1	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Land Management Plan, New			1	
Livestock Yard, Drainage Diversion			1	
Livestock Yard, Runoff Management			1	
Livestock Yard, Surface Water Setback			1	
Manure Application, Rate Determination			1	
Manure Storage, Isolation Distances Met			1	
Manure Storage, Liquid Storage Design and Installation			0	
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Location			2	
Nutrient Management Plans, Annual By Field		1,000		
Odor Management Plan			3	
Pasture Management, Manure Near Water Tanks/Feeders			1	
Pastures Have Current Soil Tests			1	
Pesticide Spill Kit Availability			1	
Secondary Containment, Pesticides			2	
Soil Testing, Triennial			9	
Storage, Signage			1	
Storage, Spill Kit			1	
Waste, Recycling and Disposal			3	
Well Repaired to Standards			1	
Well Tests, Every Three Years			5	
Well Tests, Health Standards			5	
<b>Crawford</b>		<b>210</b>	<b>40</b>	
Dead Animals Handled According to BODA			1	
Emergency Plan, Manure Spill, New			4	
Environmentally Sensitive Areas Identified		90		
Impermeable Surface, Fuel			1	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			3	
Livestock Management, Siting			1	
Manure Application, Odor-Reduction Practices Used			1	
Manure Application, Rate Determination			1	
Manure Storage, Temporary Duration			5	
Manure Storage, Temporary Location			1	
Manure, Management Records			2	
Manure, Nutrient Content Determination			3	
Odor Management Plan			4	
Pasture Soil Tested			3	
Pastures Have Current Soil Tests			1	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Soil Testing, Triennial			2	
Soil, Nutrient Records		120		
Waste, Floor Drains			1	
Well Tests, Every Three Years			2	
Well Tests, Health Standards			2	
<b>Delta</b>		<b>560</b>	<b>145</b>	
Adverse Impact To Endangered And Threatened Species Avoided			2	



<b>FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallons</b>
All Habitat Types Identified and Mapped In LMP		4	
Appropriate Records For Forest Product Harvests And Other Management Activities		3	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats		3	
Dead Animals Handled According to BODA		2	
Forest Roads Established And Maintained To Avoid Erosion		1	
Forestland Enrolled In Sustainable Forest Certification Program		4	
Harvest Plan Map Used For Harvest		3	
Irrigation, Evaluation for Uniformity		5	
Irrigation, Record Keeping		5	
Land Management Plan, New		6	
Landowner Complies With Laws And Ordinances		3	
Landowner Enrolled in Programs Appropriate To Objectives		4	
Landowner Minimizes Impact To Cultural Sites and Works With SHPO As Needed		1	
Landowner Uses Natural Resource Professionals For Services		3	
Landowner Uses Professionals With Insurance and That Comply With Federal, State, and Local Regulations		5	
Livestock Management, Recordkeeping		2	
LMP Allows for Active and Adaptive Management		6	
LMP Identifies All Resource Concerns		2	
LMP Identifies Special Sites and Contains Activities to Maintain Them		2	
LMP Includes Details of Desired Future Conditions		1	
LMP Includes Landowner Objectives		6	
LMP Prepared By Professional Natural Resource Manager		5	
Manage Visual Impacts Of Forest Management Using Visual Quality Criteria In RTF GAFMPs		1	
Management Activities Conform to Applicable Forest Land BMPs		3	
Management Activities Conform To GAFMPs		12	
Manure, Management Records		1	
Manure, Nutrient Content Determination		1	
Nutrient Management Plans, Annual By Field	280		
Other Environmental Risks Resolved		1	
Owner Monitors Harvests to Ensure Conformance With LMP		3	
Pasture Management, Protection of Stream Banks and Surface Water		1	
Pasture Soil Tested		4	
Pastures Have Current Soil Tests		2	
Pesticides Used And Stored According To EPA, SSWQPs		1	
Pesticides, Application Recordkeeping		2	
Potential Conflict Between Timber Management And Habitat Development Resolved		5	
Site Monitored Annually For Changes		5	
Soil Testing, Triennial		10	
Soil, Nutrient Records	280		
Special Sites Protected		1	
Sustainable Soil And Water Quality Practices Followed		3	
Timber Harvesting Conducted According To FMP		4	
Timber Sale Contract Prepared By Professional Forester		4	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Waste, Isolation Distances Met			1	
Well Tests, Every Three Years			1	
Well Tests, Health Standards			1	
<b>Eaton</b>		<b>72</b>	<b>14</b>	
Emergency Plan, Spill Control and Counter-measure			1	
Livestock Management, Recordkeeping			1	
Manure Application, Rate Determination			1	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Management Records			2	
Manure, Nutrient Content Determination			3	
Manure, Winter Application Procedure		72		
Odor Management Plan			1	
Veterinary Product and Waste Disposal			2	
Waste, Isolation Distances Met			1	
Well Tests, Every Three Years			1	
<b>Emmet</b>			<b>2</b>	
Storage, Signage			1	
Well Tests, Every Three Years			1	
<b>Genesee</b>		<b>12,071</b>	<b>45</b>	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			1	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		12,037		
Fertilizer, Determination of Rates			1	
Impermeable Surface, Fuel			1	
Irrigation, Amount Determined Accurately			2	
Irrigation, Record Keeping			2	
Manure Application, Rate Determination			4	
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Application Rates Do Not Exceed Crop N Needs		0		
Manure, Management Records			1	
Manure, Nutrient Content Determination			2	
Nutrient Management Plans, Annual		27		
Nutrient Management Plans, Annual By Field		0		
Odor Management Plan			1	
Pesticide Application, Recordkeeping			1	
Pesticides, Mixing and Loading In Field			1	
Secondary Containment, Fuel			4	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			1	
Soil Erosion Controlled		7		
Soil Testing, Triennial			4	
Storage, Buildings Setback			3	
Storage, Security			1	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Storage, Signage			1	
Storage, Spill Kit			2	
Well Repaired to Standards			1	
Well Tests, Every Three Years			3	
Well Tests, Health Standards			1	
<b>Grand Traverse</b>			<b>21</b>	
Drift Management Plan, New			1	
Emergency Plan, Pesticide New			1	
Emergency Plan, Pesticide Revised			1	
Equipment, Parking and Storage			1	
Irrigation, Amount Determined Accurately			1	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Scheduling			1	
Isolation Distances Met			1	
Pesticide Drift Management Plan, New			1	
Pesticide Handling, Field Mixing and Loading			1	
Pesticide Rinsate, Proper Handling			1	
Pesticide Spill Kit Availability			1	
Required Regulatory Reporting and Recordkeeping Compliance			1	
Secondary Containment, Mix-Load			2	
Secondary Containment, Pesticides			1	
Storage, Designed Use			1	
Storage, Signage			1	
Storage, Spill Kit			1	
Waste, Recycling and Disposal			2	
<b>Gratiot</b>			<b>8</b>	
Impermeable Surface, Fuel			2	
Secondary Containment, Pesticides			1	
Well Tests, Every Three Years			3	
Well Tests, Health Standards			2	
<b>Hillsdale</b>		<b>22,778</b>	<b>95</b>	
Adequate Land Base for Nutrients			2	
Dead Animals, Composting Recordkeeping Meets BODA Requirements			1	
Drift Management Plan, New			2	
Emergency Plan, Employee Training			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			3	
Emergency Plan, Manure Spill, Revised			3	
Emergency Plan, Pesticide New			3	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		13,965		
Impermeable Surface, Fuel			3	
Irrigation, Rain Gauges in Fields		6		
Land Management Plan, New			1	
Livestock Management, Recordkeeping			2	
Manure Application, MARI Completed		110	1	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Manure, Management Records			2	
Manure, Nutrient Content Determination			8	
Manure, Winter Application Procedure		605		
Nutrient Management Plans, Annual By Field		285		
Nutrients, All Sources Considered		177		
Odor Management Plan			6	
P Fertilizer, Rate Determination		285		
Pasture Soil Tested		9	2	
Pastures Have Current Soil Tests		159		
Pesticide Spill Kit Availability			1	
Pesticides, Application Recordkeeping			2	
Pesticides, Drift Management Plan, New			2	
Pesticides, Drift Management Plan, Revised			2	
Pesticides, Emergency Plan and Contacts			3	
Secondary Containment, Mix-Load			1	
Soil Erosion Controlled		5,161		
Soil, Nutrient Records		2,016		
Storage, Signage			1	
Storage, Spill Kit			4	
Veterinary Product and Waste Disposal			2	
Waste, Floor Drains			3	
Waste, Recycling and Disposal			1	
Well Tests, Every Three Years			15	
Well Tests, Health Standards			14	
<b>Huron</b>		<b>11,913</b>	<b>31</b>	
Emergency Plan, Fertilizer New			1	
Emergency Plan, New, Silage			2	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		2,100		
Fertilizer, Determination of Rates			1	
Isolation Distances Met			4	
Manure Application, MARI Completed			3	
Manure Application, Runoff Prevention		2,100		
Manure Storage, Liquid Storage Design and Installation			1	
Manure, Management Records			1	
Manure, Winter Application Procedure		400		
Nutrient Management Plans, Annual By Field		2,100		
Nutrients, All Sources Considered			1	
P Fertilizer, Rate Determination			1	
Pasture Soil Tested			1	
Pesticide Spill Kit Availability			4	
Pesticides, Application Recordkeeping			1	
Pesticides, Label Compliance			1	
Soil Erosion Controlled		5,213		
Storage, Signage			1	
Storage, Spill Kit			1	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Waste, Floor Drains			1	
Water, Protected From Pesticide Contamination			1	
Well Tests, Every Three Years			3	
Well Tests, Health Standards			1	
<b>Ingham</b>		<b>435</b>	<b>28</b>	<b>383,900</b>
Emergency Plan, Manure Spill, New			5	
Environmentally Sensitive Areas Identified		435		
Impermeable Surface, Fuel			1	
Invasive Species Identified And Managed			1	
Isolation Distances Met			1	
Livestock Yard, Manure Scrape and Haul			1	
Manure Storage, Capacity				383,900
Manure, Management Records			1	
Manure, Nutrient Content Determination			2	
Odor Management Plan			3	
Pasture Soil Tested			3	
Pastures Have Current Soil Tests			2	
Pesticides, Drift Management Plan, New			1	
Soil Testing, Triennial			5	
Storage, Signage			1	
Storage, Spill Kit			1	
<b>Ionia</b>			<b>5</b>	
Impermeable Surface, Fuel			1	
Isolation Distances Met			1	
Storage, Spill Kit			1	
Well Repaired to Standards			1	
Well Tests, Every Three Years			1	
<b>Iosco</b>			<b>4</b>	
Farm Emergency Plan Developed and Followed, New			1	
Manure Storage, Temporary Location			1	
Other Environmental Risks Resolved			1	
Storage, Signage			1	
<b>Jackson</b>		<b>917</b>	<b>33</b>	<b>100</b>
Drift Management Plan, New			1	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Manure Spill, Revised			1	
Environmentally Sensitive Areas Identified		758		
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			1	
Manure Application, MARI Completed			1	
Manure Application, Rate Determination			5	
Manure, Application Rates Do Not Exceed Crop P Needs		45		
Manure, Management Records			1	
Manure, Nutrient Content Determination			5	
Manure, Winter Application Procedure		5		
Odor Management Plan			6	
P Fertilizer, Rate Determination			1	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Pasture Soil Tested			1	
Pesticides, Drift Management Plan, New			1	
Soil Erosion Controlled		56		
Soil Testing, Triennial		8		
Soil, Nutrient Records		45		
Veterinary Product and Waste Disposal			1	
Water Management, Wastewater				100
Well Tests, Every Three Years			3	
Well Tests, Health Standards			2	
<b>Kalamazoo</b>		<b>6,920</b>	<b>224</b>	
Adequate Land Base for Nutrients			1	
Anti-Backflow Device Installed			2	
Containers, Properly Rinsed			2	
Cover Crop Use		800		
Dead Animals Handled According to BODA			6	
Dead Animals, Composting Isolation Distance			2	
Dead Animals, Composting Process Follows BODA			1	
Drift Management Plan, New			4	
Drift Management Plan, Revised			7	
Emergency Plan, Fertilizer New			3	
Emergency Plan, Fertilizer Revised			5	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			4	
Emergency Plan, Pesticide Revised			8	
Environmentally Sensitive Areas Identified		1,810		
Farm Emergency Plan Developed and Followed, New			1	
Fill Opening Separate From Vent Opening			1	
Herbicide Setback Maintenance			1	
Impermeable Surface, Fuel			1	
Irrigation Fuel Tank Meets Setback Requirements			1	
Irrigation Records Maintained			1	
Irrigation, Amount Determined Accurately			2	
Irrigation, Rain Gauges in Fields			2	
Irrigation, Record Keeping			2	
Isolation Distances Met			13	
Large Quantity Water Withdrawal Registered			2	
Livestock Management, Recordkeeping			4	
Livestock Management, Runoff Management			1	
Livestock Yard, Drainage Diversion			1	
Livestock Yard, Floor			2	
Manure Application, Rate Determination			2	
Manure Storage, Isolation Distances Met			2	
Manure Storage, Temporary Duration			2	
Manure Storage, Temporary Location			3	
Manure, Management Records			2	
Nutrient Management Plans, Annual By Field		1,400		
Nutrient Management Records, Multiple			1	

<b>FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallons</b>
Odor Management Plan		3	
Other Environmental Risks Resolved		1	
P Fertilizer, Rate Determination		1	
Pasture Management For Vegetation and Runoff		1	
Pasture Management, Manure Near Water Tanks/Feeders		1	
Pasture Soil Tested		1	
Pastures Have Current Soil Tests		2	
Pesticide Applications, Soil Characteristics Considered		1	
Pesticide Drift Management Plan, New		1	
Pesticide Handling, Field Mixing and Loading		1	
Pesticide Labels Are Followed		2	
Pesticide Spill Kit Availability		8	
Pesticides, Application Recordkeeping		5	
Pesticides, Container Handling		2	
Pesticides, Drift Management Plan, New		2	
Pesticides, Drift Management Plan, Revised		5	
Pesticides, Emergency Plan and Contacts		5	
Pesticides, Label Compliance		2	
Pesticides, Mixing and Loading In Field		1	
Required Regulatory Reporting and Recordkeeping Compliance		2	
RTF Site Selection and Odor-Control GAAMPS Met		1	
Secondary Containment, Fertilizer		1	
Secondary Containment, Mix-Load		2	
Secondary Containment, Operational Pad		1	
Secondary Containment, Pesticides		2	
Soil Erosion Controlled	1,400		
Soil Testing, Representative Sampling		2	
Soil Testing, Triennial		6	
Soil, Nutrient Records	1,510		
Storage, Application Equipment		1	
Storage, Appropriate Tanks		4	
Storage, Capacity		1	
Storage, Decommissioned		1	
Storage, Security		8	
Storage, Signage		3	
Storage, Spill Kit		7	
Storage, Valves and Hoses		2	
Veterinary Product and Waste Disposal		5	
Waste, Floor Drains		1	
Waste, Isolation Distances Met		1	
Water Use Reported		1	
Water, Protected From Pesticide Contamination		5	
Well Decommissioned		1	
Well Tests, Every Three Years		11	
Well Tests, Health Standards		17	
<b>Kalkaska</b>		<b>28</b>	
Drift Management Plan, Revised		2	



FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Emergency Plan, Fertilizer Revised			3	
Emergency Plan, Pesticide Revised			2	
Food Safety Person Designated			1	
Food Safety Program Written and Implemented			1	
Fumigation Management Plan, Revised			1	
Impermeable Surface, Fuel			1	
Irrigation, Rain Gauges in Fields			4	
Pesticides, Drift Management Plan, Revised			2	
Pesticides, Emergency Plan and Contacts			2	
Storage, Spill Kit			2	
Well Tests, Every Three Years			4	
Well Tests, Health Standards			3	
<b>Kent</b>		<b>554</b>	<b>40</b>	
Anti-Backflow Device Installed			1	
Dead Animals Handled According to BODA			1	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			2	
Environmentally Sensitive Areas Identified		550		
Fertilizer, Application Equipment Calibration			2	
Impermeable Surface, Fuel			1	
Irrigation Records Maintained			1	
Irrigation, Record Keeping			3	
Isolation Distances Met			5	
Manure, Application Rates Do Not Exceed Crop P Needs		2		
Manure, Management Records			1	
Odor Management Plan			1	
Pasture Soil Tested			3	
Pesticides, Drift Management Plan, New			1	
Secondary Containment, Mix-Load			1	
Silage, Bag Plastic Disposed of Properly			1	
Silage, Bunker Storage Floor			1	
Soil, Nutrient Records		2		
Storage, Signage			1	
Storage, Spill Kit			4	
Waste, Floor Drains			1	
Well Tests, Every Three Years			6	
Well Tests, Health Standards			2	
<b>Lake</b>			<b>3</b>	
106 Forest Management Plan - Written			1	
Invasive Species Identified And Managed			1	
Property Boundaries Known And Marked			1	
<b>Lapeer</b>		<b>1,261</b>	<b>39</b>	
Drift Management Plan, New			1	
Emergency Plan, Manure Spill, New			3	
Environmentally Sensitive Areas Identified		20		
Fertilizer, Determination of Rates			1	
Impermeable Surface, Fuel			1	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Land Management Plan, New			2	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			2	
Manure Storage, Field Stacked Duration			1	
Manure Storage, Temporary Duration			2	
Manure Storage, Temporary Location			2	
Manure, Application Rates Do Not Exceed Crop P Needs		70		
Manure, Management Records			1	
Manure, Nutrient Content Determination			3	
Nutrient Management Plans, Annual By Field		531		
Pastures Have Current Soil Tests			2	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			2	
Secondary Containment, Pesticides			1	
Soil Erosion Controlled		500		
Soil Testing, Triennial			3	
Soil, Nutrient Records		70		
Soil, pH Maintenance		70		
Storage, Signage			1	
Storage, Spill Kit			1	
Well Tests, Every Three Years			4	
Well Tests, Health Standards			4	
<b>Leelanau</b>		<b>81</b>	<b>30</b>	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		61		
Impermeable Surface, Fuel			2	
Irrigation Records Maintained			1	
Irrigation, Amount Determined Accurately			1	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			1	
Isolation Distances Met			4	
Livestock Management, Recordkeeping			1	
Manure, Nutrient Content Determination			1	
Nutrient Management Plans, Annual By Field		1		
Nutrients, All Sources Considered			1	
P Fertilizer, Rate Determination			1	
Pastures Have Current Soil Tests		6		
Pesticide Spill Kit Availability			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			1	
Soil Testing, Representative Sampling		6	1	
Soil Testing, Triennial		6	1	
Soil, Nutrient Records		1		
Storage, Appropriate Tanks			2	
Storage, Signage			2	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Storage, Spill Kit			2	
Storage, Valves and Hoses			1	
<b>Lenawee</b>		<b>15,199</b>	<b>156</b>	
Adverse Impact To Endangered And Threatened Species Avoided			5	
All Habitat Types Identified and Mapped In LMP			3	
Altered Wetlands Assessed For Restoration			5	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats			5	
Bogs And Fens Identified And RMZs Established			3	
Crop Yields, Realistic Goals			1	
Drift Management Plan, New			2	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			3	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		6,149		
Fertilizer, Determination of Rates			1	
Forest Roads Established And Maintained To Avoid Erosion			2	
Forestation Achieves Adequate Stocking Levels			3	
Harvest Plan Map Used For Harvest			3	
Impermeable Surface, Fuel			1	
Invasive Species Identified And Managed			3	
IPM Used To Control Pests			2	
Land Management Plan, New			3	
Landowner Complies With Laws And Ordinances			3	
Landowner Enrolled in Programs Appropriate To Objectives			2	
Landowner Minimizes Impact To Cultural Sites and Works With SHPO As Needed			3	
LMP Allows for Active and Adaptive Management			4	
LMP Identifies All Resource Concerns			4	
LMP Includes Details of Desired Future Conditions			5	
LMP Includes Landowner Objectives			6	
LMP Prepared By Professional Natural Resource Manager			4	
Management Activities Conform to Applicable Forest Land BMPs			1	
Management Activities Conform To GAFMPs			2	
Manure Application, Compatible With Soils			1	
Manure Application, MARI Completed			2	
Manure Application, Odor-Reduction Practices Used			1	
Manure, Application Rates Do Not Exceed Crop N Needs		700		
Manure, Application Rates Do Not Exceed Crop P Needs		700		
Manure, Liquid Loss Through Tile Lines			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			3	
Manure, Winter Application Procedure		1,500		
Nutrient Management Plans, Annual By Field		1,800		
Nutrients, All Sources Considered			1	
Odor Management Plan			2	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
P Fertilizer, Application to Frozen or Snow Covered Fields		1		
P Fertilizer, Dilute Wastewater Managed Appropriately		1		
Pasture Management, Manure Near Water Tanks/Feeders		1		
Pesticide Spill Kit Availability		1		
Pesticides Used And Stored According To EPA, SSWQPs		2		
Pesticides, Drift Management Plan, New		2		
Pesticides, Drift Management Plan, Revised		1		
Pesticides, Emergency Plan and Contacts		1		
Potential Conflict Between Timber Management And Habitat Development Resolved		4		
Prescribed Burnings Follow Approved FMP And Conform To SSWQPs		1		
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats		1		
Secondary Containment, Fertilizer		1		
Secondary Containment, Fuel		6		
Secondary Containment, Operational Pad		1		
Secondary Containment, Pesticides		1		
Site Monitored Annually For Changes		3		
Soil Erosion Controlled		2,249		
Soil Testing, Representative Sampling		700	1	
Soil Testing, Triennial		700		
Soil, Nutrient Records		700		
Special Sites Protected		5		
Storage, Security		4		
Storage, Signage		1		
Storage, Spill Kit		2		
Sustainable Soil And Water Quality Practices Followed		3		
Timber Harvesting Conducted According To FMP		3		
Water Bodies Identified And Riparian Management Zones Established		5		
Well Tests, Every Three Years		4		
Well Tests, Health Standards		5		
<b>Luce</b>		<b>2</b>	<b>15</b>	
Anti-Backflow Device Installed		1		
Environmentally Sensitive Areas Identified		1		
Irrigation, Evaluation for Uniformity		1		
Irrigation, Rain Gauges in Fields		1		
Irrigation, Scheduling		1		
Isolation Distances Met		1		
Manure Storage, Bedded Design and Construction		1		
Odor Management Plan		1		
Precipitation Leading to Contaminated Run-Off		1		
RTF Site Selection and Odor-Control GAAMPS Met		1		
Soil Testing, Representative Sampling		2		
Soil Testing, Triennial		2		
Soil, Nutrient Records		1		
Well Tests, Every Three Years		1		
Well Tests, Health Standards		1		
<b>Mackinac</b>		<b>14</b>		

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Emergency Plan, Manure Spill, New			1	
IPM Used To Control Pests			1	
Irrigation, Amount Determined Accurately			1	
Irrigation, Record Keeping			1	
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Location			2	
Manure, Management Records			1	
Odor Management Plan			1	
Soil Testing, Triennial			1	
Waste, Floor Drains			1	
Well Repaired to Standards			1	
Well Tests, Every Three Years			1	
Well Tests, Health Standards			1	
<b>Macomb</b>		<b>35</b>	<b>9</b>	
Drift Management Plan, New			1	
Environmentally Sensitive Areas Identified		1		
Manure Application, Rate Determination			1	
Manure Application, Rates Do Not Exceed Crop P Needs			1	
Manure, Application Rates Do Not Exceed Crop P Needs		1		
Manure, Management Records			1	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			1	
Soil Testing, Triennial			2	
Soil, Nutrient Records		33		
Well Tests, Every Three Years			1	
<b>Manistee</b>		<b>4</b>	<b>50</b>	
106 Forest Management Plan - Written			1	
All Habitat Types Identified and Mapped In LMP			3	
Anti-Backflow Device Installed			1	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats			1	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			1	
Drift Management Plan, New			3	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Pesticide New			2	
Environmentally Sensitive Areas Identified		4		
Farm Emergency Plan Developed and Followed, Revised			1	
Fertilizer, Determination of Rates			1	
Forest Roads Established And Maintained To Avoid Erosion			1	
Invasive Species Identified And Managed			3	
Irrigation, Rain Gauges in Fields			1	
Land Management Plan, New			2	
Livestock Management, Runoff Management			1	
Management Activities Conform to Applicable Forest Land BMPs			2	
Manure Application, MARI Completed			1	
Manure Storage, Temporary Duration			1	
Manure, Management Records			1	

<b>FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallons</b>
Odor Management Plan		2	
Pasture Management, Manure Near Water Tanks/Feeders		2	
Pesticide Containers Are Recyclable or Returnable		1	
Pesticide Drift Management Plan, New		1	
Property Boundaries Known And Marked		1	
Silage, Bag Plastic Disposed of Properly		1	
Silage, Leachate Collection/Treatment		1	
Site Monitored Annually For Changes		2	
Soil Testing, Triennial		1	
Storage, Signage		1	
Storage, Spill Kit		2	
Timber Harvesting Conducted According To FMP		1	
Veterinary Product and Waste Disposal		1	
Waste, Recycling and Disposal		2	
Well Tests, Every Three Years		2	
<b>Marquette</b>		<b>114</b>	
Adverse Impact To Endangered And Threatened Species Avoided		1	
All Habitat Types Identified and Mapped In LMP		3	
Appropriate Records For Forest Product Harvests And Other Management Activities		4	
Aquatic Resource Options Identified Within Plan		1	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats		3	
Forest Roads Established And Maintained To Avoid Erosion		2	
Forestland Enrolled In Sustainable Forest Certification Program		4	
Harvest Plan Map Used For Harvest		2	
Invasive Species Identified And Managed		1	
IPM Used To Control Pests		1	
Land Management Plan, New		6	
Landowner Complies With Laws And Ordinances		4	
Landowner Enrolled in Programs Appropriate To Objectives		6	
Landowner Minimizes Impact To Cultural Sites and Works With SHPO As Needed		2	
Landowner Uses Natural Resource Professionals For Services		2	
Landowner Uses Professionals With Insurance and That Comply With Federal, State, and Local Regulations		3	
LMP Allows for Active and Adaptive Management		7	
LMP Identifies All Resource Concerns		4	
LMP Identifies Special Sites and Contains Activities to Maintain Them		1	
LMP Includes Landowner Objectives		7	
LMP Prepared By Professional Natural Resource Manager		5	
Manage Visual Impacts Of Forest Management Using Visual Quality Criteria In RTF GAFMPs		1	
Management Activities Conform to Applicable Forest Land BMPs		2	
Management Activities Conform To GAFMPs		6	
Other Environmental Risks Resolved		7	
Owner Monitors Harvests to Ensure Conformance With LMP		3	
Pesticides Used And Stored According To EPA, SSWQPs		3	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Potential Conflict Between Timber Management And Habitat Development Resolved			1	
Property Boundaries Known And Marked			1	
Restoration Potential and Long-Term Management Outlined in HMP			3	
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats			1	
Site Monitored Annually For Changes			6	
Sustainable Soil And Water Quality Practices Followed			4	
Timber Harvesting Conducted According To FMP			2	
Timber Sale Contract Prepared By Professional Forester			3	
Water Bodies Identified And Riparian Management Zones Established			2	
<b>Mason</b>		<b>12</b>	<b>56</b>	
319 On-Farm Secondary Containment Facility			1	
380 Windbreak/Shelterbelt Establishment			1	
All Habitat Types Identified and Mapped In LMP			1	
Anti-Backflow Device Installed			3	
Containers, Properly Rinsed			3	
Cover Crop Use		1		
Crop Yields, Realistic Goals			1	
Drift Management Plan, New			2	
Emergency Plan, Pesticide New			1	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		7		
Erosion Controlled, Site		1		
Excess Product, Label Rates			1	
Farm Emergency Plan Developed and Followed, Revised			1	
Fertilizer, Determination of Rates			2	
Invasive Species Identified And Managed			1	
Land Management Plan, New			1	
Livestock Yard, Drainage Diversion			1	
Management Activities Conform to Applicable Forest Land BMPs			1	
Manure Applications, Weather Forecasts Monitored			1	
Manure Storage, Isolation Distances Met			1	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Duration			1	
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Mix-Load, Measuring Devices			1	
Odor Management Plan			1	
Pesticide Containers Are Recyclable or Returnable			3	
Pesticides, Application Recordkeeping			1	
Property Boundaries Known And Marked			1	
Required Regulatory Reporting and Recordkeeping Compliance			2	
Silage, Bag Plastic Disposed of Properly			1	
Silage, Leachate Collection/Treatment			1	
Site Monitored Annually For Changes			1	
Soil and/or Tissue Testing, Quadrennial		1		
Soil Erosion Controlled		1		
Soil Testing, Triennial			2	



FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Soil, Nutrient Records		1		
Sprayer, Cleaning Water Collected		1		
Storage, Security		1		
Storage, Signage		4		
Storage, Spill Kit		2		
Waste, Recycling and Disposal		3		
Well Tests, Every Three Years		4		
<b>Mecosta</b>		<b>20</b>	<b>19</b>	<b>50,000</b>
Adequate Land Base for Nutrients		1		
Dead Animals, Composting Process Follows BODA		1		
Forest Roads Established And Maintained To Avoid Erosion		3		
Land Management Plan, New		3		
Landowner Uses Professionals With Insurance and That Comply With Federal, State, and Local Regulations		1		
Livestock Yard, Surface Water Setback		1		
Manure Storage, Capacity		50,000		
Manure Storage, Isolation Distances Met		1		
Pastures Have Current Soil Tests		2		
Pesticide Spill Kit Availability		1		
Soil Testing, Triennial		2		
Soil, Nutrient Records		20		
Timber Harvesting Conducted According To FMP		1		
Well Tests, Every Three Years		2		
<b>Menominee</b>		<b>9,036</b>	<b>47</b>	
Drift Management Plan, New		1		
Emergency Plan, Pesticide New		1		
Environmentally Sensitive Areas Identified		714		
Farm Emergency Plan Developed and Followed, Revised		1		
Irrigation, Excess Avoided		1		
Irrigation, Rain Gauges in Fields		1		
Irrigation, Record Keeping		1		
Livestock Management, Recordkeeping		4		
Livestock Management, Siting		1		
Manure, Management Records		1		
Manure, Nutrient Content Determination		5		
Nutrient Management Plans, Annual By Field		3,754		
Pasture Soil Tested		1		
Pastures Have Current Soil Tests		1		
Pest Management, Practices Current		1		
Pesticide Application, Recordkeeping		1		
Pesticide Handling, Field Mixing and Loading		1		
Pesticide Rinsate, Proper Handling		1		
Pesticide Spill Kit Availability		2		
RTF Site Selection and Odor-Control GAAMPS Met		1		
Secondary Containment, Pesticides		1		
Soil Erosion Controlled		714		
Soil Testing, Representative Sampling		2		

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Soil Testing, Triennial			5	
Soil, Nutrient Records		3,854		
Storage, Signage			1	
Storage, Spill Kit			2	
Water Use Reported			1	
Water, Protected From Pesticide Contamination			1	
Well Tests, Every Three Years			4	
Well Tests, Health Standards			4	
<b>Missaukee</b>		<b>12</b>	<b>65</b>	<b>1,000</b>
Chemigation Interlock and Safety Systems			1	
Dead Animals, Proper Composting Site Selection			1	
Drift Management Plan, New			1	
Drift Management Plan, Revised			2	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Manure Spill, Revised			4	
Emergency Plan, New, Silage			1	
Emergency Plan, New, Tire Fire			1	
Emergency Plan, Pesticide New			1	
Emergency Plan, Pesticide Revised			2	
Emergency Plan, Revised, Silage			3	
Emergency Plan, Revised, Tire Fire			3	
Environmentally Sensitive Areas Identified		12		
Livestock Management, Siting			1	
Manure Storage, Liquid Storage Freeboard Maintained			1	
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Location			1	
Odor Management Plan			4	
Pesticide Spill Kit Availability			2	
Pesticides, Drift Management Plan, New			1	
Pesticides, Drift Management Plan, Revised			3	
Pesticides, Emergency Plan and Contacts			5	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Silage, Leachate Collection/Treatment				1,000
Waste, Floor Drains			1	
Well Decommissioned			1	
Well Tests, Every Three Years			9	
Well Tests, Health Standards			10	
<b>Monroe</b>		<b>12,240</b>	<b>64</b>	
Adverse Impact To Endangered And Threatened Species Avoided			2	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats			1	
Drift Management Plan, New			2	
Drift Management Plan, Revised			1	
Emergency Plan, Pesticide New			1	
Emergency Plan, Pesticide Revised			2	
Environmentally Sensitive Areas Identified		5,315		

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Fertilizer, Determination of Rates			1	
Impermeable Surface, Fuel			1	
Invasive Species Identified And Managed			2	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			1	
Isolation Distances Met			2	
Land Management Plan, New			2	
Large Quantity Water Withdrawal Registered			1	
Livestock Yard, Runoff Management			1	
LMP Includes Landowner Objectives			2	
LMP Prepared By Professional Natural Resource Manager			1	
Manure Application, Rate Determination			1	
Manure, Management Records			1	
Nutrient Management Plans, Annual By Field		1,879		
Nutrients, All Sources Considered			1	
P Fertilizer, Rate Determination			1	
Pasture Soil Tested			4	
Pastures Have Current Soil Tests			1	
Pesticide Spill Kit Availability			1	
Pesticides, Application Recordkeeping			2	
Pesticides, Drift Management Plan, New			5	
Pesticides, Emergency Plan and Contacts			1	
Pesticides, Mixing and Loading In Field			2	
Pesticides, Rinsate Disposal			1	
Secondary Containment, Mix-Load			3	
Secondary Containment, Pesticides			1	
Soil Erosion Controlled		2,823		
Soil Testing, Triennial		15	1	
Soil, Nutrient Records		2,209		
Storage, Appropriate Tanks			2	
Storage, Signage			1	
Storage, Spill Kit			2	
Veterinary Product and Waste Disposal			1	
Waste, Floor Drains			2	
Waste, Isolation Distances Met			1	
Well Decommissioned			2	
Well Repaired to Standards			2	
Well Tests, Every Three Years			1	
<b>Montcalm</b>		<b>4,131</b>	<b>12</b>	
Drift Management Plan, New			1	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		11		
Impermeable Surface, Fuel			1	
Manure, Management Records			1	
Nutrient Management Plans, Annual By Field		40		
Pesticides, Drift Management Plan, Revised		2,000		

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Runoff/Sedimentation Controlled		40		
Soil Erosion Controlled		40		
Soil Testing, Triennial		2,000	3	
Storage, Signage			1	
Well Tests, Every Three Years			3	
<b>Muskegon</b>		<b>882</b>	<b>71</b>	
Anti-Backflow Device Installed			24	
Drift Management Plan, New			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			2	
Environmentally Sensitive Areas Identified		882		
Impermeable Surface, Fuel			1	
Irrigation, Amount Determined Accurately			1	
Isolation Distances Met			3	
Livestock Management, Recordkeeping			1	
Livestock Yard, Drainage Diversion			1	
Livestock Yard, Runoff Management			3	
Manure, Management Records			1	
Manure, Nutrient Content Determination			1	
Nutrients, All Sources Considered			1	
Odor Management Plan			4	
Pesticides, Drift Management Plan, New			1	
Secondary Containment, Fuel			1	
Soil Testing, Triennial			3	
Storage, Spill Kit			4	
Waste, Floor Drains			3	
Well Tests, Every Three Years			8	
Well Tests, Health Standards			5	
<b>Newaygo</b>		<b>120</b>	<b>48</b>	
Anti-Backflow Device Installed			2	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		120		
Fertilizer, Determination of Rates			2	
IPM Used To Control Pests			2	
Livestock Management, Anti-Backflow device installed			2	
Livestock Management, Recordkeeping			1	
Livestock Yard, Drainage Diversion			1	
Livestock Yard, Runoff Management			1	
Livestock Yard, Surface Water Setback			1	
Manure Application, Rate Determination			1	
Manure Storage, Field Stacked Duration			2	
Manure, Management Records			1	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Manure, Nutrient Content Determination			3	
Nutrients, All Sources Considered			1	
Odor Management Plan			2	
P Fertilizer, Rate Determination			1	
Pasture Management, Protecting Surface Water			1	
Pasture Management, Protection of Stream Banks and Surface Water			1	
Pastures Have Current Soil Tests			1	
Pesticides Used And Stored According To EPA, SSWQPs			1	
Pesticides, Drift Management Plan, New			1	
Precipitation Leading to Contaminated Run-Off			1	
Soil Testing, Triennial			1	
Storage, Signage			1	
Storage, Spill Kit			1	
Surface Drains Present Around Farmstead			1	
Waste, Floor Drains			2	
Well Decommissioned			4	
Well Repaired to Standards			1	
Well Tests, Every Three Years			2	
Well Tests, Health Standards			1	
<b>Oakland</b>		<b>2,122</b>	<b>19</b>	
Drift Management Plan, New			1	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		1,060		
Irrigation, Amount Determined Accurately			1	
Livestock Management, Recordkeeping			1	
Odor Management Plan			1	
Pastures Have Current Soil Tests		12	4	
Pesticide Spill Kit Availability			1	
Pesticides, Drift Management Plan, New			1	
Soil Erosion Controlled		1,050		
Soil Testing, Representative Sampling			2	
Soil Testing, Triennial			2	
Storage, Signage			1	
Waste, Floor Drains			1	
Well Tests, Every Three Years			2	
<b>Oceana</b>		<b>5,390</b>	<b>152</b>	
Adverse Impact To Endangered And Threatened Species Avoided			1	
All Habitat Types Identified and Mapped In LMP			1	
Anti-Backflow Device Installed			2	
Backflow Prevention on Livestock Watering Systems			4	
Crop Yields, Realistic Goals			1	
Drift Management Plan, New			2	
Drift Management Plan, Revised			8	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Pesticide New			1	
Emergency Plan, Pesticide Revised			18	
Environmentally Sensitive Areas Identified		5,183		

<b>FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallons</b>
Equipment, Parking and Storage		1	
Erosion Controlled, Site	1		
Farm Emergency Plan Developed and Followed, Revised		5	
Fertilizer, Determination of Rates		6	
Invasive Species Identified And Managed		1	
Irrigation, Record Keeping		1	
Isolation Distances Met		3	
Land Management Plan, New		1	
Livestock Management, Anti-Backflow device installed		3	
Livestock Management, Recordkeeping		3	
Livestock Yard, Floor		1	
Livestock Yard, Manure Scrape and Haul		1	
LMP Allows for Active and Adaptive Management		1	
Manure Application, Rate Determination		3	
Manure Application, Rates Do Not Exceed Crop N Needs		1	
Manure Storage, Field Stacked Duration		1	
Manure Storage, Isolation Distances Met		1	
Manure, Management Records		1	
Manure, Nutrient Content Determination		4	
Pasture Management For Vegetation and Runoff		1	
Pasture Soil Tested		1	
Pastures Have Current Soil Tests		1	
Pesticide Containers Are Recyclable or Returnable		1	
Pesticide Drift Management Plan, Revised		7	
Pesticide Spill Kit Availability		3	
Pesticides Used And Stored According To EPA, SSWQPs		1	
Pesticides, Application Recordkeeping		2	
Pesticides, Container Handling		1	
Pesticides, Drift Management Plan, New		2	
Pesticides, Drift Management Plan, Revised		2	
Pesticides, Emergency Plan and Contacts		2	
Pesticides, Label Compliance		1	
Pesticides, Mixing and Loading In Field		1	
Pollinator Habitat Set Aside	11		
Required Regulatory Reporting and Recordkeeping Compliance		12	
Runoff/Sedimentation Controlled		3	
Secondary Containment, Mix-Load		1	
Soil Erosion Controlled	70		
Soil Testing, Triennial		3	
Soil, Nutrient Records	125		
Special Sites Protected		1	
Storage, Isolated From Other Products		1	
Storage, Security		1	
Storage, Signage		4	
Storage, Spill Kit		3	
Timber Harvesting Conducted According To FMP		1	
Waste, Floor Drains		1	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Waste, Isolation Distances Met			2	
Water Use Reported			1	
Well Decommissioned			1	
Well Setback, Manure Sources			1	
Well Tests, Every Three Years			12	
<b>Osceola</b>			<b>22</b>	
106 Forest Management Plan - Written			1	
Chemigation Interlock and Safety Systems			1	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Pesticide Revised			1	
Fertilizer, Determination of Rates			1	
Irrigation, Excessive Applications Avoided			1	
Land Management Plan, New			1	
Livestock Management, Recordkeeping			1	
Pesticide Inventory Control			2	
Pesticides, Drift Management Plan, Revised			1	
Pesticides, Emergency Plan and Contacts			1	
Secondary Containment, Fuel			1	
Soil Testing, Triennial			2	
Storage, Spill Kit			1	
Well Tests, Every Three Years			4	
Well Tests, Health Standards			1	
<b>Oscoda</b>			<b>1</b>	
Well Tests, Every Three Years			1	
<b>Ottawa</b>		<b>3,601</b>	<b>64</b>	
Adequate Land Base for Nutrients			1	
Anti-Backflow Device Installed			1	
Containers, Properly Rinsed			1	
Drift Management Plan, New			3	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			1	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		579		
Fertilizer, Rate Determination		11		
Impermeable Surface, Fuel			1	
Irrigation, Backflow Prevention			3	
Irrigation, Record Keeping			2	
Irrigation, Scheduling			1	
Irrigation, System Evaluation			1	
Isolation Distances Met			5	
Livestock Management, Recordkeeping			1	
Livestock Yard, Runoff Management			1	
Livestock Yard, Surface Water Setback			1	
Manure Storage, Liquid Storage Design and Installation			2	
Milking Center, Wastewater Collection and Storage			1	



FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Nutrient Management Records, Multiple			2	
Odor Management Plan			2	
Pastures Have Current Soil Tests			1	
Pesticide Application, Recordkeeping			2	
Pesticide Drift Management Plan, New			1	
Pesticide Rinsate, Proper Handling			1	
Pesticide Spill Kit Availability			1	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Equipment Calibration			2	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			1	
Soil and/or Tissue Testing, Quadrennial		11		
Soil Erosion Controlled		3,000		
Storage, Appropriate Tanks			1	
Storage, Signage			2	
Storage, Spill Kit			2	
Veterinary Product and Waste Disposal			1	
Well Inspected			1	
Well Repaired to Standards			2	
Well Tests, Every Three Years			6	
Well Tests, Health Standards			2	
<b>Presque Isle</b>		<b>89</b>	<b>29</b>	
Anti-Backflow Device Installed			1	
Dead Animals, Composting Isolation Distance			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Pesticide New			2	
Environmentally Sensitive Areas Identified		42		
Livestock Management, Anti-Backflow device installed			1	
Livestock Yard, Surface Water Setback			1	
Manure, Management Records			1	
Nutrient Management Plans, Annual By Field		1		
Odor Management Plan			1	
Soil Testing, Representative Sampling			5	
Soil Testing, Triennial			5	
Soil, Nutrient Records		46		
Storage, Spill Kit			2	
Well Tests, Every Three Years			4	
Well Tests, Health Standards			4	
<b>Roscommon</b>			<b>1</b>	
Well Tests, Health Standards			1	
<b>Saginaw</b>		<b>5,214</b>	<b>14</b>	
Drift Management Plan, New			1	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		1,482		
Nutrient Management Plans, Annual By Field		2,250		

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Pesticide Spill Kit Availability			1	
Pesticides, Drift Management Plan, New			3	
Pesticides, Emergency Plan and Contacts			4	
Pesticides, Excess Spray Mixture Use			1	
Pesticides, Rinsate Disposal			1	
Soil Erosion Controlled		1,482		
Storage, Signage			1	
Well Tests, Health Standards			1	
<b>Saint Clair</b>			<b>30</b>	
Adequate Land Base for Nutrients			1	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			1	
Emergency Plan, Pesticide New			1	
Impermeable Surface, Fuel			1	
Livestock Management, Recordkeeping			1	
Manure Storage, Farmstead Stacked, Odor and Pest Control			2	
Manure Storage, Isolation Distances Met			1	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Stacked, Odor and Pest Control			1	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Nutrient Content Determination			1	
Odor Management Plan			1	
Pastures Have Current Soil Tests			1	
Pesticide Spill Kit Availability			1	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			1	
Pesticides, Mixing and Loading In Field			3	
Secondary Containment, Pesticides			1	
Storage, Signage			3	
Storage, Spill Kit			2	
Weather Stations/Models Used, On-Farm			1	
Well Tests, Every Three Years			1	
<b>Saint Joseph</b>			<b>39</b>	
Chemigation Interlock and Safety Systems			4	
Drift Management Plan, New			1	
Drift Management Plan, Revised			2	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, Revised			2	
Emergency Plan, Pesticide New			1	
Emergency Plan, Pesticide Revised			2	
Livestock Yard, Drainage Diversion			2	
Odor Management Plan			4	
Pesticides, Drift Management Plan, Revised			3	
Pesticides, Emergency Plan and Contacts			2	
Secondary Containment, Pesticides			1	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Storage, Signage			2	
Waste, Floor Drains			2	
Well Decommissioned			1	
Well Tests, Every Three Years			8	
<b>Sanilac</b>		<b>18,774</b>	<b>126</b>	
Adequate Land Base for Nutrients			2	
Anti-Backflow Device Installed			1	
Dead Animals Handled According to BODA			2	
Drift Management Plan, New			1	
Drift Management Plan, Revised			1	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		4,007		
Fertilizer, Determination of Rates			1	
Fill Opening Separate From Vent Opening			2	
Impermeable Surface, Fuel			4	
Isolation Distances Met			4	
Livestock Management, Recordkeeping			1	
Manure Application, Procedure		1,000		
Manure, Management Records			5	
Manure, Nutrient Content Determination			4	
Manure, Winter Application Procedure		1,300		
Nutrient Management Plans, Annual By Field		3,900		
Nutrients, All Sources Considered			1	
Odor Management Plan			5	
Pastures Have Current Soil Tests			2	
Pesticide Spill Kit Availability			1	
Pesticides, Application Recordkeeping			6	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			2	
Pesticides, Drift Management Plan, Revised			10	
Pesticides, Label Compliance			2	
Pesticides, Mixing and Loading In Field			2	
Required Regulatory Reporting and Recordkeeping Compliance			2	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Secondary Containment, Fuel			4	
Soil Erosion Controlled		2,127		
Soil Testing, Representative Sampling		1,300		
Soil Testing, Triennial		1,300	3	
Soil, Nutrient Records		3,840		
Storage, Appropriate Tanks			8	
Storage, Elevation			3	
Storage, Security			2	
Storage, Signage			12	
Storage, Spill Kit			1	
Storage, Spill Protection			10	
Waste, Floor Drains			2	
Waste, Isolation Distances Met			2	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Waste, Recycling and Disposal			1	
Water, Protected From Pesticide Contamination			8	
Well Tests, Every Three Years			4	
Well Tests, Health Standards			2	
<b>Shiawassee</b>		<b>25,843</b>	<b>86</b>	
Dead Animals Handled According to BODA			1	
Emergency Plan, Fertilizer Revised			13	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Manure Spill, Revised			4	
Emergency Plan, Pesticide Revised			13	
Environmentally Sensitive Areas Identified		17,711		
Livestock Management, Recordkeeping			2	
Livestock Management, Siting			1	
Manure Application, Rate Determination			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			1	
Manure, Odor Management			1	
Mix-Load, Measuring Devices			2	
No Odor Complaints/Odor Complaints Resolved			1	
Odor Management Plan			5	
Pastures Have Current Soil Tests			1	
Pesticide Spill Kit Availability			2	
Pesticides, Drift Management Plan, New			1	
Soil Erosion Controlled		8,132		
Soil Testing, Representative Sampling			1	
Storage, Signage			2	
Storage, Spill Kit			1	
Veterinary Product and Waste Disposal			6	
Well Tests, Every Three Years			23	
Well Tests, Health Standards			1	
<b>Tuscola</b>		<b>10,251</b>	<b>77</b>	<b>1,374,200</b>
Adequate Land Base for Nutrients			2	
Dead Animals Handled According to BODA			1	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Pesticide New			3	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		2,911		
Impermeable Surface, Fuel			1	
Invasive Species Identified And Managed			1	
Isolation Distances Met			1	
Leaching/Runoff Toxic Potential Consideration			1	
Livestock Management, Recordkeeping			3	
Manure Application, Rates Do Not Exceed Crop P Needs			1	
Manure Storage, Liquid Storage Design and Installation			4	
Manure Storage, Liquid Storage Freeboard Maintained			1	
Manure Storage, Liquid Storage Maintained Properly				1,314,000
Manure, Management Records			2	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Manure, Nutrient Content Determination			2	
Manure, Winter Application Procedure		867		
Nutrient Management Plans, Annual By Field		1,460		
Odor Management Plan			2	
P Fertilizer, Rate Determination			1	
Pesticide Containers Are Recyclable or Returnable			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			1	
Pesticides, Mixing and Loading In Field			1	
Secondary Containment, Pesticides			2	
Silage, Leachate Collection/Treatment				200
Soil Erosion Controlled		2,751		
Soil Testing, Representative Sampling			1	
Soil Testing, Triennial			2	
Soil, Characteristics Considered			1	
Soil, Nutrient Records		867		
Soil, pH Maintenance		1,395		
Storage, Appropriate Tanks			3	
Storage, Dedicated			1	
Storage, Fertilizer Liquid				60,000
Storage, Signage			3	
Storage, Spill Kit			1	
Waste, Floor Drains			5	
Well Decommissioned			1	
Well Tests, Every Three Years			15	
Well Tests, Health Standards			9	
<b>Van Buren</b>		<b>50</b>	<b>37</b>	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			1	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		50		
Farm Emergency Plan Developed and Followed, New			1	
Isolation Distances Met			2	
Nutrient Management Records, Multiple			2	
Pesticide Drift Management Plan, New			1	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			1	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Storage, Appropriate Tanks			2	
Storage, Signage			1	
Storage, Spill Kit			1	
Veterinary Product and Waste Disposal			2	
Waste, Recycling and Disposal			1	
Water, Protected From Pesticide Contamination			1	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented by County	Acres	Each	Gallons
Well Inspected		6	
Well Tests, Every Three Years		8	
<b>Washtenaw</b>	<b>5,531</b>	<b>296</b>	
Adequate Land Base for Nutrients		2	
Adverse Impact To Endangered And Threatened Species Avoided		5	
All Habitat Types Identified and Mapped In LMP		5	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats		5	
Containers, Properly Rinsed		1	
Dead Animals Handled According to BODA		2	
Drift Management Plan, New		1	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Manure Spill, New		5	
Emergency Plan, Manure Spill, Revised		3	
Emergency Plan, New, Silage		1	
Emergency Plan, Pesticide New		4	
Environmentally Sensitive Areas Identified	1,191		
Farm Emergency Plan Developed and Followed, New		1	
Fertilizer, Application Equipment Calibration		1	
Fertilizer, Determination of Rates		6	
Fertilizer, Rate Determination	5		
Forest Roads Established And Maintained To Avoid Erosion		1	
Impermeable Surface, Fuel		1	
Invasive Species Identified And Managed		5	
IPM Used To Control Pests		6	
Irrigation, Amount Determined Accurately		4	
Irrigation, Evaluation for Uniformity		1	
Irrigation, Rain Gauges in Fields		3	
Irrigation, Record Keeping		1	
Isolation Distances Met		1	
Land Management Plan, New		6	
Livestock Management, Recordkeeping		1	
Livestock Management, Runoff Management		1	
Livestock Yard, Drainage Diversion		3	
LMP Allows for Active and Adaptive Management		5	
LMP Identifies All Resource Concerns		4	
LMP Includes Details of Desired Future Conditions		9	
LMP Includes Landowner Objectives		8	
LMP Prepared By Professional Natural Resource Manager		4	
Manure Application, Compatible With Soils		3	
Manure Application, MARI Completed		1	
Manure Application, Procedure	40		
Manure Application, Rate Determination		6	
Manure Application, Rates Do Not Exceed Crop N Needs		2	
Manure Application, Rates Do Not Exceed Crop P Needs		3	
Manure Applications, Weather Forecasts Monitored		1	
Manure Storage, Bedded Design and Construction		1	
Manure Storage, Capacity		2	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Manure Storage, Design and Construction			2	
Manure Storage, Temporary Duration			4	
Manure Storage, Temporary Location			2	
Manure, Application Rates Do Not Exceed Crop N Needs		796		
Manure, Application Rates Do Not Exceed Crop P Needs		796		
Manure, Designed Use			1	
Manure, Nutrient Content Determination			13	
Nursery Containers, Media and Waste Disposed of Properly			1	
Nutrient Management Plans, Annual		5		
Nutrient Management Plans, Annual By Field		811		
Nutrient Management Records, Multiple			5	
Nutrients, All Sources Considered			1	
Odor Management Plan			6	
P Fertilizer, Rate Determination			1	
Pasture Management, Manure Near Water Tanks/Feeders			3	
Pasture Soil Tested			14	
Pastures Have Current Soil Tests		40	8	
Pesticide Application, Recordkeeping			1	
Pesticide Spill Kit Availability			6	
Pesticides Used And Stored According To EPA, SSWQPs			2	
Pesticides, Application Recordkeeping			3	
Pesticides, Container Handling			2	
Pesticides, Drift Management Plan, New			3	
Pesticides, Emergency Plan and Contacts			1	
Pesticides, Equipment Calibration			1	
Pesticides, Mixing and Loading In Field			1	
Potential Conflict Between Timber Management And Habitat Development Resolved			1	
Prescribed Burnings Follow Approved FMP And Conform To SSWQPs			2	
Restoration Potential and Long-Term Management Outlined in HMP			1	
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats			1	
Secondary Containment, Fuel			1	
Soil and/or Tissue Testing, Quadrennial		11		
Soil Erosion Controlled		1,755		
Soil Testing, Representative Sampling			22	
Soil Testing, Triennial			33	
Soil, Nutrient Records		81		
Special Sites Protected			1	
Storage, Elevation			1	
Storage, Monitored for Leaks			1	
Storage, Signage			2	
Storage, Spill Kit			6	
Sustainable Soil And Water Quality Practices Followed			1	
Trout Streams, Natural, Wild, And Scenic Rivers Identified And RMZs Established			1	
Waste, Floor Drains			1	
Water Bodies Identified And Riparian Management Zones Established			5	
Well Decommissioned			1	

FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallons
Well Repaired to Standards			1	
Well Tests, Every Three Years			7	
Well Tests, Health Standards			1	
<b>Wayne</b>			<b>12</b>	
Adverse Impact To Endangered And Threatened Species Avoided			1	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats			1	
Invasive Species Identified And Managed			1	
Irrigation, Rain Gauges in Fields			1	
Land Management Plan, New			1	
Livestock Yard, Drainage Diversion			2	
LMP Includes Landowner Objectives			1	
Manure, Management Records			1	
Pesticides Used And Stored According To EPA, SSWQPs			1	
Soil Testing, Triennial			1	
Storage, Spill Kit			1	
<b>Wexford</b>		<b>2,805</b>	<b>61</b>	
Cover Crop Use		1,000		
Dead Animals, Composting Recordkeeping Meets BODA Requirements			1	
Drift Management Plan, New			3	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			6	
Emergency Plan, New, Silage			4	
Emergency Plan, New, Tire Fire			1	
Emergency Plan, Pesticide New			3	
Emergency Plan, Revised, Tire Fire			1	
Environmentally Sensitive Areas Identified		4		
FMP Includes Landowner Objectives			1	
Forestry Management Plan, New			1	
Land Management Plan, New			1	
Livestock Management, Recordkeeping			1	
Livestock Management, Siting			2	
Livestock Yard, Drainage Diversion			4	
Livestock Yard, Runoff Management			4	
Manure Storage, Clean Water Diverted			6	
Manure Storage, Design and Construction			1	
Manure Storage, Designed Use			2	
Manure Storage, Runoff Management			2	
Manure, Management Records			1	
Manure, Nutrient Content Determination			2	
Nutrients, All Sources Considered			1	
Odor Management Plan			2	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Drift Management Plan, Revised			1	
Soil Erosion Controlled		1,800		
Soil Testing, Representative Sampling			2	
Soil Testing, Triennial			2	



<b>FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallons</b>
Soil, Nutrient Records	1		
Storage, Signage		2	
Storage, Spill Kit		1	
<b>Unit Totals</b>	<b>243,235</b>	<b>3,404</b>	<b>1,809,200</b>

Conservation Practices Delivered by CTAI Technicians, FY 2020	Units				
Practices Implemented By County	Acres	Each	Feet	Gallon	Sq Feet
<b>Alger</b>	<b>40</b>	<b>5</b>			<b>1,500</b>
14c Payments - CSP only		5			
314 Brush Management	13				
325 High Tunnel System					1,500
612 Tree/Shrub Establishment	5				
666 Forest Stand Improvement	22				
<b>Allegan</b>	<b>150</b>				
340 Cover Crop	150				
<b>Arenac</b>					<b>31,332</b>
313 Waste Storage Facility					13,992
367 Roofs and Covers					16,140
561 Heavy Use Area Protection					1,200
<b>Branch</b>	<b>5,097</b>	<b>381</b>			
110 Grazing Management Plan - Written		381			
340 Cover Crop	4,960				
590 Nutrient Management	137				
<b>Calhoun</b>	<b>182</b>				
340 Cover Crop	182				
<b>Clinton</b>		<b>1</b>			
14c Payments - CSP only		1			
<b>Delta</b>	<b>123</b>	<b>142</b>			<b>6,228</b>
106 Forest Management Plan - Written		4			
14c Payments - CSP only		138			
314 Brush Management	23				
315 Herbaceous Weed Control	8				
325 High Tunnel System					6,228
327 Conservation Cover	5				
612 Tree/Shrub Establishment	15				
666 Forest Stand Improvement	72				
<b>Huron</b>	<b>82</b>				
340 Cover Crop	41				
590 Nutrient Management	41				
<b>Jackson</b>			<b>465</b>		<b>25,710</b>
313 Waste Storage Facility					8,835
367 Roofs and Covers					8,400
558 Roof Runoff Structure			260		
561 Heavy Use Area Protection					8,475
620 Underground Outlet			205		
<b>Kent</b>	<b>7,608</b>			<b>1,100</b>	
319 On-Farm Secondary Containment Facility				1,100	
329 Residue and Tillage Management, No-Till	123				
340 Cover Crop	2,654				
345 Residue and Tillage Management, Reduced Till	368				
511 Forage Harvest Management	799				
590 Nutrient Management	10				
595 Integrated Pest Management (IPM)	3,655				
<b>Macomb</b>	<b>34</b>				

Conservation Practices Delivered by CTAI Technicians, FY 2020	Units				
Practices Implemented By County	Acres	Each	Feet	Gallon	Sq Feet
340 Cover Crop	34				
<b>Mason</b>	<b>106</b>	<b>2</b>			
14c Payments - CSP only		2			
340 Cover Crop	106				
<b>Menominee</b>	<b>6</b>	<b>11</b>			
106 Forest Management Plan - Written		1			
14c Payments - CSP only		10			
612 Tree/Shrub Establishment	0				
666 Forest Stand Improvement	6				
<b>Missaukee</b>	<b>127</b>	<b>16</b>			
106 Forest Management Plan - Written		1			
14c Payments - CSP only		10			
327 Conservation Cover	5				
340 Cover Crop	52				
351 Well Decommissioning		2			
533 Pumping Plant		2			
595 Integrated Pest Management (IPM)	69				
612 Tree/Shrub Establishment	1				
634 Waste Transfer		1			
<b>Oceana</b>	<b>20,339</b>	<b>121</b>	<b>1,540</b>	<b>6,400</b>	<b>56,424</b>
14c Payments - CSP only		115			
309 Agrichemical Handling Facility					9,440
316 Animal Mortality Facility					720
319 On-Farm Secondary Containment Facility				6,400	
327 Conservation Cover	1,598				
340 Cover Crop	2,382				
342 Critical Area Planting	1				
351 Well Decommissioning		1			
367 Roofs and Covers					10,560
374 Farmstead Energy Improvement		5			
380 Windbreak/Shelterbelt Establishment			1,540		
384 Woody Residue Treatment	18				
393 Filter Strip	2				
449 Irrigation Water Management	1,382				
484 Mulching	1,687				
511 Forage Harvest Management	200				
561 Heavy Use Area Protection					35,704
590 Nutrient Management	12,387				
595 Integrated Pest Management (IPM)	683				
<b>Ogemaw</b>		<b>2</b>			<b>666</b>
533 Pumping Plant		1			
561 Heavy Use Area Protection					666
634 Waste Transfer		1			
<b>Osceola</b>	<b>17</b>	<b>11</b>	<b>2,657</b>		<b>5,423</b>
14c Payments - CSP only		7			
313 Waste Storage Facility					5,423
327 Conservation Cover	0				

Conservation Practices Delivered by CTAI Technicians, FY 2020	Units				
Practices Implemented By County	Acres	Each	Feet	Gallon	Sq Feet
382 Fence			2,087		
533 Pumping Plant		1			
606 Subsurface Drain			570		
634 Waste Transfer		3			
666 Forest Stand Improvement	17				
<b>Ottawa</b>	<b>2,000</b>				
340 Cover Crop	1,938				
490 Tree/Shrub Site Preparation	3				
590 Nutrient Management	26				
595 Integrated Pest Management (IPM)	15				
612 Tree/Shrub Establishment	3				
666 Forest Stand Improvement	15				
<b>Presque Isle</b>			<b>208</b>	<b>5,500</b>	<b>35,074</b>
309 Agrichemical Handling Facility					7,763
319 On-Farm Secondary Containment Facility				5,500	
367 Roofs and Covers					8,110
560 Access Road			208		
561 Heavy Use Area Protection					19,201
<b>Saint Clair</b>	<b>449</b>	<b>4</b>	<b>16,310</b>		<b>2,178</b>
102 Comprehensive Nutrient Management Plan - Written		1			
106 Forest Management Plan - Written		2			
114 Integrated Pest Management Plan - Written		1			
325 High Tunnel System					2,178
327 Conservation Cover	3				
340 Cover Crop	326				
382 Fence			16,310		
512 Forage and Biomass Planting	30				
528 Prescribed Grazing	90				
<b>Saint Joseph</b>	<b>637</b>				
340 Cover Crop	31				
449 Irrigation Water Management	606				
<b>Sanilac</b>	<b>16,304</b>				
314 Brush Management	5				
329 Residue and Tillage Management, No-Till	377				
340 Cover Crop	4,487				
590 Nutrient Management	5,724				
595 Integrated Pest Management (IPM)	5,710				
<b>Schoolcraft</b>	<b>23</b>	<b>30</b>			
14c Payments - CSP only		30			
327 Conservation Cover	2				
612 Tree/Shrub Establishment	5				
666 Forest Stand Improvement	17				
<b>Tuscola</b>	<b>77</b>			<b>2,100</b>	<b>2,511</b>
309 Agrichemical Handling Facility					1,311
319 On-Farm Secondary Containment Facility				2,100	
367 Roofs and Covers					1,200
590 Nutrient Management	77				

Conservation Practices Delivered by CTAI Technicians, FY 2020	Units				
Practices Implemented By County	Acres	Each	Feet	Gallon	Sq Feet
<b>Wexford</b>	<b>1,034</b>	<b>15</b>	<b>64</b>	<b>1,000</b>	<b>3,123</b>
106 Forest Management Plan - Written		1			
14c Payments - CSP only		14			
313 Waste Storage Facility					995
314 Brush Management	6				
319 On-Farm Secondary Containment Facility				1,000	
327 Conservation Cover	1				
340 Cover Crop	1,011				
490 Tree/Shrub Site Preparation	15				
558 Roof Runoff Structure			64		
561 Heavy Use Area Protection					2,128
612 Tree/Shrub Establishment	1				
<b>Unit Totals</b>	<b>54,435</b>	<b>741</b>	<b>21,244</b>	<b>16,100</b>	<b>170,169</b>

Michigan Agriculture Environmental Assurance Program FY 2020		
Number of New Assessments and Reassessments By County	New	Reassessment
<b>Alcona</b>		<b>10</b>
Crop*A*Syst, Field Crop and Veg		3
Farm*A*Syst		3
Forest, Wetlands and Habitat *A*Syst		1
Livestock*A*Syst		3
<b>Alger</b>	<b>1</b>	<b>7</b>
Crop*A*Syst, Field Crop and Veg		2
Farm*A*Syst		2
Forest, Wetlands and Habitat *A*Syst	1	1
Greenhouse*A*Syst		1
Livestock*A*Syst		1
<b>Allegan</b>	<b>17</b>	<b>52</b>
Crop*A*Syst, Field Crop and Veg	3	8
Crop*A*Syst, Nursery and Christmas Tree	1	16
Farm*A*Syst	7	17
Forest, Wetlands and Habitat *A*Syst	3	
Fruit*A*Syst	1	1
Greenhouse*A*Syst		1
Livestock*A*Syst	2	9
<b>Alpena</b>		<b>9</b>
Crop*A*Syst, Field Crop and Veg		3
Farm*A*Syst		3
Forest, Wetlands and Habitat *A*Syst		1
Livestock*A*Syst		2
<b>Antrim</b>	<b>6</b>	<b>4</b>
Crop*A*Syst, Field Crop and Veg	1	
Crop*A*Syst, Nursery and Christmas Tree	1	
Farm*A*Syst	3	2
Fruit*A*Syst		1
Greenhouse*A*Syst		1
Livestock*A*Syst	1	
<b>Arenac</b>	<b>4</b>	
Crop*A*Syst, Field Crop and Veg	1	
Farm*A*Syst	1	
Forest, Wetlands and Habitat *A*Syst	1	
Livestock*A*Syst	1	
<b>Barry</b>		<b>4</b>
Crop*A*Syst, Field Crop and Veg		1
Farm*A*Syst		1
Livestock*A*Syst		2
<b>Bay</b>	<b>14</b>	<b>12</b>
Crop*A*Syst, Field Crop and Veg	7	6
Farm*A*Syst	5	6
Forest, Wetlands and Habitat *A*Syst	1	
Livestock*A*Syst	1	

Michigan Agriculture Environmental Assurance Program FY 2020		
Number of New Assessments and Reassessments By County	New	Reassessment
<b>Benzie</b>	<b>3</b>	
Farm*A*Syst	1	
Forest, Wetlands and Habitat *A*Syst	1	
Fruit*A*Syst	1	
<b>Berrien</b>	<b>24</b>	<b>17</b>
Crop*A*Syst, Field Crop and Veg	6	1
Farm*A*Syst	9	6
Forest, Wetlands and Habitat *A*Syst	1	
Fruit*A*Syst	3	8
Greenhouse*A*Syst	1	
Livestock*A*Syst	4	2
<b>Branch</b>		<b>9</b>
Crop*A*Syst, Field Crop and Veg		3
Farm*A*Syst		4
Livestock*A*Syst		2
<b>Calhoun</b>	<b>3</b>	<b>1</b>
Crop*A*Syst, Field Crop and Veg	1	
Farm*A*Syst	1	1
Livestock*A*Syst	1	
<b>Cass</b>	<b>16</b>	<b>8</b>
Crop*A*Syst, Field Crop and Veg	5	1
Crop*A*Syst, Nursery and Christmas Tree		1
Farm*A*Syst	6	3
Forest, Wetlands and Habitat *A*Syst	2	1
Greenhouse*A*Syst		1
Livestock*A*Syst	3	1
<b>Charlevoix</b>	<b>6</b>	<b>5</b>
Crop*A*Syst, Field Crop and Veg	2	1
Farm*A*Syst	2	2
Fruit*A*Syst		1
Livestock*A*Syst	2	1
<b>Cheboygan</b>	<b>9</b>	<b>3</b>
Crop*A*Syst, Field Crop and Veg	3	1
Farm*A*Syst	3	1
Fruit*A*Syst		1
Livestock*A*Syst	3	
<b>Chippewa</b>	<b>37</b>	<b>18</b>
Crop*A*Syst, Field Crop and Veg	9	5
Farm*A*Syst	10	6
Forest, Wetlands and Habitat *A*Syst	12	1
Livestock*A*Syst	6	6
<b>Clare</b>		<b>17</b>
Crop*A*Syst, Field Crop and Veg		5
Farm*A*Syst		6
Forest, Wetlands and Habitat *A*Syst		1

Michigan Agriculture Environmental Assurance Program FY 2020		
Number of New Assessments and Reassessments By County	New	Reassessment
Livestock*A*Syst		5
<b>Clinton</b>	<b>1</b>	<b>32</b>
Crop*A*Syst, Field Crop and Veg		9
Farm*A*Syst	1	13
Forest, Wetlands and Habitat *A*Syst		2
Livestock*A*Syst		8
<b>Crawford</b>		<b>3</b>
Crop*A*Syst, Field Crop and Veg		1
Farm*A*Syst		1
Livestock*A*Syst		1
<b>Delta</b>	<b>8</b>	<b>23</b>
Crop*A*Syst, Field Crop and Veg	1	7
Farm*A*Syst		6
Forest, Wetlands and Habitat *A*Syst	7	5
Livestock*A*Syst		5
<b>Eaton</b>	<b>2</b>	<b>2</b>
Crop*A*Syst, Field Crop and Veg		1
Farm*A*Syst	1	1
Livestock*A*Syst	1	
<b>Emmet</b>	<b>6</b>	
Crop*A*Syst, Field Crop and Veg	1	
Farm*A*Syst	2	
Forest, Wetlands and Habitat *A*Syst	1	
Fruit*A*Syst	1	
Livestock*A*Syst	1	
<b>Genesee</b>	<b>8</b>	<b>6</b>
Crop*A*Syst, Field Crop and Veg	2	
Farm*A*Syst	2	5
Forest, Wetlands and Habitat *A*Syst	1	
Fruit*A*Syst	1	
Livestock*A*Syst	2	1
<b>Gogebic</b>		<b>3</b>
Crop*A*Syst, Field Crop and Veg		1
Farm*A*Syst		1
Livestock*A*Syst		1
<b>Grand Traverse</b>	<b>10</b>	<b>10</b>
Crop*A*Syst, Field Crop and Veg		1
Farm*A*Syst	4	5
Forest, Wetlands and Habitat *A*Syst	1	
Fruit*A*Syst	5	4
<b>Gratiot</b>		<b>7</b>
Crop*A*Syst, Field Crop and Veg		2
Farm*A*Syst		3
Greenhouse*A*Syst		1
Livestock*A*Syst		1



Michigan Agriculture Environmental Assurance Program FY 2020		
Number of New Assessments and Reassessments By County	New	Reassessment
<b>Hillsdale</b>	<b>9</b>	<b>52</b>
Crop*A*Syst, Field Crop and Veg	2	18
Crop*A*Syst, Nursery and Christmas Tree		1
Farm*A*Syst	4	18
Forest, Wetlands and Habitat *A*Syst	1	2
Fruit*A*Syst		1
Livestock*A*Syst	2	12
<b>Huron</b>	<b>5</b>	<b>20</b>
Crop*A*Syst, Field Crop and Veg	1	10
Farm*A*Syst	3	5
Greenhouse*A*Syst	1	
Livestock*A*Syst		5
<b>Ingham</b>	<b>4</b>	<b>8</b>
Crop*A*Syst, Field Crop and Veg	1	2
Farm*A*Syst	1	3
Forest, Wetlands and Habitat *A*Syst	2	
Livestock*A*Syst		3
<b>Ionia</b>	<b>4</b>	<b>7</b>
Crop*A*Syst, Field Crop and Veg		3
Crop*A*Syst, Nursery and Christmas Tree		1
Farm*A*Syst	2	2
Greenhouse*A*Syst	1	
Livestock*A*Syst	1	1
<b>Iosco</b>	<b>4</b>	<b>1</b>
Crop*A*Syst, Field Crop and Veg	1	
Farm*A*Syst	1	1
Fruit*A*Syst	1	
Livestock*A*Syst	1	
<b>Isabella</b>	<b>13</b>	
Crop*A*Syst, Field Crop and Veg	4	
Farm*A*Syst	4	
Forest, Wetlands and Habitat *A*Syst	3	
Livestock*A*Syst	2	
<b>Jackson</b>	<b>19</b>	<b>3</b>
Crop*A*Syst, Field Crop and Veg	6	1
Farm*A*Syst	7	1
Greenhouse*A*Syst	1	
Livestock*A*Syst	5	1
<b>Kalamazoo</b>	<b>8</b>	<b>20</b>
Crop*A*Syst, Field Crop and Veg	3	7
Crop*A*Syst, Nursery and Christmas Tree		1
Farm*A*Syst	3	8
Fruit*A*Syst		1
Greenhouse*A*Syst		1
Livestock*A*Syst	2	2

Michigan Agriculture Environmental Assurance Program FY 2020		
Number of New Assessments and Reassessments By County	New	Reassessment
<b>Kalkaska</b>	<b>2</b>	<b>7</b>
Crop*A*Syst, Field Crop and Veg		3
Farm*A*Syst	1	3
Forest, Wetlands and Habitat *A*Syst	1	
Livestock*A*Syst		1
<b>Kent</b>	<b>26</b>	<b>13</b>
Crop*A*Syst, Field Crop and Veg	4	2
Crop*A*Syst, Nursery and Christmas Tree	1	
Farm*A*Syst	10	6
Forest, Wetlands and Habitat *A*Syst		1
Fruit*A*Syst	3	2
Greenhouse*A*Syst	7	
Livestock*A*Syst	1	2
<b>Lake</b>	<b>2</b>	<b>4</b>
Forest, Wetlands and Habitat *A*Syst	2	4
<b>Lapeer</b>	<b>21</b>	<b>9</b>
Crop*A*Syst, Field Crop and Veg	6	3
Farm*A*Syst	6	3
Forest, Wetlands and Habitat *A*Syst	6	
Livestock*A*Syst	3	3
<b>Leelanau</b>	<b>11</b>	<b>13</b>
Crop*A*Syst, Field Crop and Veg	1	1
Farm*A*Syst	4	6
Forest, Wetlands and Habitat *A*Syst	3	1
Fruit*A*Syst	3	4
Livestock*A*Syst		1
<b>Lenawee</b>	<b>11</b>	<b>41</b>
Crop*A*Syst, Field Crop and Veg	6	20
Farm*A*Syst	5	16
Forest, Wetlands and Habitat *A*Syst		1
Fruit*A*Syst		1
Livestock*A*Syst		3
<b>Luce</b>	<b>3</b>	
Crop*A*Syst, Field Crop and Veg	1	
Farm*A*Syst	1	
Livestock*A*Syst	1	
<b>Mackinac</b>	<b>6</b>	<b>4</b>
Crop*A*Syst, Field Crop and Veg	1	1
Farm*A*Syst	1	1
Forest, Wetlands and Habitat *A*Syst	3	1
Livestock*A*Syst	1	1
<b>Macomb</b>	<b>13</b>	<b>6</b>
Crop*A*Syst, Field Crop and Veg	6	2
Farm*A*Syst	5	2
Greenhouse*A*Syst		1

Michigan Agriculture Environmental Assurance Program FY 2020		
Number of New Assessments and Reassessments By County	New	Reassessment
Livestock*A*Syst	2	1
<b>Manistee</b>		<b>11</b>
Crop*A*Syst, Field Crop and Veg		2
Farm*A*Syst		3
Forest, Wetlands and Habitat *A*Syst		3
Fruit*A*Syst		2
Livestock*A*Syst		1
<b>Marquette</b>	<b>3</b>	<b>4</b>
Forest, Wetlands and Habitat *A*Syst	3	4
<b>Mason</b>		<b>13</b>
Crop*A*Syst, Field Crop and Veg		4
Farm*A*Syst		5
Forest, Wetlands and Habitat *A*Syst		1
Fruit*A*Syst		2
Livestock*A*Syst		1
<b>Mecosta</b>	<b>13</b>	
Crop*A*Syst, Field Crop and Veg	5	
Farm*A*Syst	2	
Forest, Wetlands and Habitat *A*Syst	4	
Livestock*A*Syst	2	
<b>Menominee</b>	<b>5</b>	<b>7</b>
Crop*A*Syst, Field Crop and Veg	1	3
Farm*A*Syst	2	2
Fruit*A*Syst	1	
Livestock*A*Syst	1	2
<b>Midland</b>	<b>13</b>	
Crop*A*Syst, Field Crop and Veg	4	
Farm*A*Syst	4	
Forest, Wetlands and Habitat *A*Syst	3	
Livestock*A*Syst	2	
<b>Missaukee</b>	<b>2</b>	<b>11</b>
Crop*A*Syst, Field Crop and Veg		3
Farm*A*Syst	1	4
Livestock*A*Syst	1	4
<b>Monroe</b>	<b>24</b>	<b>15</b>
Crop*A*Syst, Field Crop and Veg	8	5
Farm*A*Syst	7	7
Forest, Wetlands and Habitat *A*Syst	3	
Greenhouse*A*Syst	1	
Livestock*A*Syst	5	3
<b>Montcalm</b>	<b>7</b>	<b>3</b>
Crop*A*Syst, Field Crop and Veg	4	1
Farm*A*Syst	2	1
Livestock*A*Syst	1	1
<b>Muskegon</b>	<b>15</b>	<b>16</b>

Michigan Agriculture Environmental Assurance Program FY 2020		
Number of New Assessments and Reassessments By County	New	Reassessment
Crop*A*Syst, Field Crop and Veg	4	5
Farm*A*Syst	6	8
Forest, Wetlands and Habitat *A*Syst	2	
Fruit*A*Syst		1
Livestock*A*Syst	3	2
<b>Newaygo</b>	<b>8</b>	<b>3</b>
Crop*A*Syst, Field Crop and Veg	2	1
Farm*A*Syst	2	1
Forest, Wetlands and Habitat *A*Syst	2	
Livestock*A*Syst	2	1
<b>Oakland</b>	<b>11</b>	<b>2</b>
Crop*A*Syst, Field Crop and Veg	3	
Farm*A*Syst	4	2
Livestock*A*Syst	4	
<b>Oceana</b>	<b>7</b>	<b>34</b>
Crop*A*Syst, Field Crop and Veg	2	8
Farm*A*Syst	2	16
Forest, Wetlands and Habitat *A*Syst	2	
Fruit*A*Syst	1	10
<b>Ogemaw</b>	<b>2</b>	<b>1</b>
Crop*A*Syst, Field Crop and Veg	1	
Farm*A*Syst		1
Livestock*A*Syst	1	
<b>Osceola</b>	<b>16</b>	<b>15</b>
Crop*A*Syst, Field Crop and Veg	3	6
Farm*A*Syst	4	6
Forest, Wetlands and Habitat *A*Syst	4	
Fruit*A*Syst	1	
Livestock*A*Syst	4	3
<b>Oscoda</b>		<b>2</b>
Crop*A*Syst, Field Crop and Veg		1
Farm*A*Syst		1
<b>Ottawa</b>	<b>27</b>	<b>16</b>
Crop*A*Syst, Field Crop and Veg	5	2
Crop*A*Syst, Nursery and Christmas Tree	1	2
Farm*A*Syst	10	6
Forest, Wetlands and Habitat *A*Syst	3	
Fruit*A*Syst	2	3
Greenhouse*A*Syst	2	1
Livestock*A*Syst	4	2
<b>Presque Isle</b>		<b>11</b>
Crop*A*Syst, Field Crop and Veg		4
Farm*A*Syst		4
Forest, Wetlands and Habitat *A*Syst		1
Livestock*A*Syst		2

Michigan Agriculture Environmental Assurance Program FY 2020		
Number of New Assessments and Reassessments By County	New	Reassessment
<b>Roscommon</b>		<b>2</b>
Crop*A*Syst, Field Crop and Veg		1
Livestock*A*Syst		1
<b>Saginaw</b>	<b>6</b>	<b>5</b>
Crop*A*Syst, Field Crop and Veg	2	2
Farm*A*Syst	2	3
Forest, Wetlands and Habitat *A*Syst	1	
Livestock*A*Syst	1	
<b>Saint Clair</b>	<b>12</b>	<b>10</b>
Crop*A*Syst, Field Crop and Veg	5	4
Farm*A*Syst	6	4
Greenhouse*A*Syst		1
Livestock*A*Syst	1	1
<b>Saint Joseph</b>	<b>1</b>	<b>13</b>
Crop*A*Syst, Field Crop and Veg	1	5
Farm*A*Syst		4
Fruit*A*Syst		1
Livestock*A*Syst		3
<b>Sanilac</b>	<b>11</b>	<b>23</b>
Crop*A*Syst, Field Crop and Veg	3	12
Farm*A*Syst	7	5
Forest, Wetlands and Habitat *A*Syst		1
Livestock*A*Syst	1	5
<b>Shiawassee</b>	<b>2</b>	<b>42</b>
Crop*A*Syst, Field Crop and Veg		14
Farm*A*Syst	1	22
Forest, Wetlands and Habitat *A*Syst		1
Livestock*A*Syst	1	5
<b>Tuscola</b>	<b>14</b>	<b>24</b>
Crop*A*Syst, Field Crop and Veg	4	9
Farm*A*Syst	5	12
Forest, Wetlands and Habitat *A*Syst	3	
Livestock*A*Syst	2	3
<b>Van Buren</b>	<b>8</b>	<b>8</b>
Crop*A*Syst, Field Crop and Veg	1	
Farm*A*Syst	3	4
Forest, Wetlands and Habitat *A*Syst	1	
Fruit*A*Syst	2	4
Livestock*A*Syst	1	
<b>Washtenaw</b>	<b>27</b>	<b>7</b>
Crop*A*Syst, Field Crop and Veg	6	3
Crop*A*Syst, Nursery and Christmas Tree		1
Farm*A*Syst	6	2
Forest, Wetlands and Habitat *A*Syst	8	
Fruit*A*Syst	2	

Michigan Agriculture Environmental Assurance Program FY 2020		
Number of New Assessments and Reassessments By County	New	Reassessment
Livestock*A*Syst	5	1
<b>Wayne</b>	<b>7</b>	<b>4</b>
Crop*A*Syst, Field Crop and Veg	2	2
Farm*A*Syst	1	2
Forest, Wetlands and Habitat *A*Syst	2	
Greenhouse*A*Syst	2	
<b>Wexford</b>	<b>12</b>	<b>7</b>
Crop*A*Syst, Field Crop and Veg	3	1
Crop*A*Syst, Nursery and Christmas Tree	1	
Farm*A*Syst	3	3
Forest, Wetlands and Habitat *A*Syst	2	
Livestock*A*Syst	3	3
<b>Assessment Totals</b>	<b>589</b>	<b>779</b>

## **FY 2020 MAEAP ENVIRONMENTAL OUTCOMES**

Information collected from MAEAP verified farms used to calculate environmental outcomes:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>227,298</b>
Linear feet of buffer/filter strips	<b>1,012,241</b>
Acres of cover crops	<b>58,463</b>
Acres of conservation tillage	<b>122,768</b>
Acres of no-till, zone till, or grass cover	<b>70,708</b>
Number of gullies stabilized	<b>743</b>
Feet of livestock exclusion	<b>113,229</b>
Size of silage pad in acres	<b>17</b>
Acres of Pest Management Plans	<b>209,727</b>

This data was then compiled from farms verified in FY 2020, and the following totals were calculated:

Sediment reduced: **334,983** tons

Phosphorus reduced: **551,709** pounds

Nitrogen reduced: **1,173,344** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate:  
**1,024,689** pounds

**To put this information in terms the general public might better understand:**

Sediment reduced on MAEAP farms could have filled **29,776** dump trucks (10 yards each)

Phosphorus reduced on MAEAP farms could have grown **275,854,500** pounds of algae in surface waters (**137,927 tons of algae**)

Nitrogen reduced on MAEAP farms could have grown **83,307,424** pounds of algae in surface waters (**41,654 tons of algae**)

Nitrogen reduced on MAEAP farms could have contaminated **11,080,100,000** gallons of water above 10 ppm



### **FY 2020 Alcona County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Alcona County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>528</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>27</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>0</b>

This data was then compiled from farms verified in Alcona County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **769** tons

Phosphorus reduced: **1,231** pounds

Nitrogen reduced: **2,462** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds





### **FY 2020 Alger County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Alger County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>1,034</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>1</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>1,000</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>102</b>

This data was then compiled from farms verified in Alger County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **1,507** tons

Phosphorus reduced: **2,412** pounds

Nitrogen reduced: **4,824** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Allegan County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Allegan County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>10,528</b>
Acres of buffer/filter strips	<b>279</b>
Acres of cover crops	<b>878</b>
Acres of conservation tillage	<b>2,850</b>
Acres of no-till, zone till, or grass cover	<b>2,945</b>
Number of gullies stabilized	<b>51</b>
Feet of livestock exclusion	<b>5,494</b>
Size of silage pad (acres)	<b>2</b>
Acres of Pest Management Plans	<b>8,011</b>

This data was then compiled from farms verified in Allegan County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **15,762** tons

Phosphorus reduced: **27,028** pounds

Nitrogen reduced: **62,095** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **117,780** pounds



### **FY 2020 Alpena County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Alpena County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>3,266</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>150</b>
Acres of conservation tillage	<b>600</b>
Acres of no-till, zone till, or grass cover	<b>2,164</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>2,800</b>

This data was then compiled from farms verified in Alpena County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **4,760** tons

Phosphorus reduced: **7,616** pounds

Nitrogen reduced: **15,232** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Antrim County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Antrim County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>3.3</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>3.3</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>3.3</b>

This data was then compiled from farms verified in Antrim County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **5** tons

Phosphorus reduced: **8** pounds

Nitrogen reduced: **15** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### FY 2020 Barry County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Barry County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>0</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>0</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>0</b>

This data was then compiled from farms verified in Barry County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **0.00** tons

Phosphorus reduced: **0.00** pounds

Nitrogen reduced: **0.00** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Bay County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Bay County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>13,960</b>
Acres of buffer/filter strips	<b>34</b>
Acres of cover crops	<b>6,075</b>
Acres of conservation tillage	<b>13,152</b>
Acres of no-till, zone till, or grass cover	<b>455</b>
Number of gullies stabilized	<b>66</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>13,960</b>

This data was then compiled from farms verified in Bay County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **20,394** tons

Phosphorus reduced: **32,636** pounds

Nitrogen reduced: **65,271** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Benzie County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Benzie County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>112</b>
Acres of buffer/filter strips	<b>3</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>112</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>1,320</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>4</b>

This data was then compiled from farms verified in Benzie County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **171** tons

Phosphorus reduced: **275** pounds

Nitrogen reduced: **551** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Berrien County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Berrien County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>992</b>
Acres of buffer/filter strips	<b>0.3</b>
Acres of cover crops	<b>228</b>
Acres of conservation tillage	<b>340</b>
Acres of no-till, zone till, or grass cover	<b>305</b>
Number of gullies stabilized	<b>1</b>
Feet of livestock exclusion	<b>300</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>980</b>

This data was then compiled from farms verified in Berrien County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **1,447** tons

Phosphorus reduced: **2,316** pounds

Nitrogen reduced: **4,632** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds





### **FY 2020 Branch County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Branch County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>785</b>
Acres of buffer/filter strips	<b>3.2</b>
Acres of cover crops	<b>80</b>
Acres of conservation tillage	<b>360</b>
Acres of no-till, zone till, or grass cover	<b>425</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>500</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>720</b>

This data was then compiled from farms verified in Branch County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **1,150** tons

Phosphorus reduced: **1,841** pounds

Nitrogen reduced: **3,682** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Calhoun County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Calhoun County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>1,472</b>
Acres of buffer/filter strips	<b>6.9</b>
Acres of cover crops	<b>100</b>
Acres of conservation tillage	<b>937</b>
Acres of no-till, zone till, or grass cover	<b>450</b>
Number of gullies stabilized	<b>13</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>0</b>

This data was then compiled from farms verified in Calhoun County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **2,155** tons

Phosphorus reduced: **3,449** pounds

Nitrogen reduced: **6,898** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### FY 2020 Cass County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Cass County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>12,814</b>
Acres of buffer/filter strips	<b>0.0</b>
Acres of cover crops	<b>370</b>
Acres of conservation tillage	<b>9,400</b>
Acres of no-till, zone till, or grass cover	<b>2,029</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>10,908</b>

This data was then compiled from farms verified in Cass County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **18,676** tons

Phosphorus reduced: **29,882** pounds

Nitrogen reduced: **59,764** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Charlevoix County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Charlevoix County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>0.5</b>
Acres of buffer/filter strips	<b>0.0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>0</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>0</b>

This data was then compiled from farms verified in Charlevoix County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **0.73** tons

Phosphorus reduced: **1.17** pounds

Nitrogen reduced: **2.33** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Cheboygan County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Cheboygan County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>6</b>
Acres of buffer/filter strips	<b>0.0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>4.5</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>6</b>

This data was then compiled from farms verified in Cheboygan County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **8.75** tons

Phosphorus reduced: **13.99** pounds

Nitrogen reduced: **27.98** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Chippewa County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Chippewa County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>186</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>0</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>0</b>

This data was then compiled from farms verified in Chippewa County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **271** tons

Phosphorus reduced: **433** pounds

Nitrogen reduced: **867** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Clare County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Clare County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>439</b>
Acres of buffer/filter strips	<b>12.7</b>
Acres of cover crops	<b>80</b>
Acres of conservation tillage	<b>240</b>
Acres of no-till, zone till, or grass cover	<b>195</b>
Number of gullies stabilized	<b>2</b>
Feet of livestock exclusion	<b>11,869</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>240</b>

This data was then compiled from farms verified in Clare County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **697** tons

Phosphorus reduced: **1,120** pounds

Nitrogen reduced: **2,240** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



## **FY 2020 Clinton County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Clinton County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>353</b>
Acres of buffer/filter strips	<b>8.1</b>
Acres of cover crops	<b>176</b>
Acres of conservation tillage	<b>25.</b>
Acres of no-till, zone till, or grass cover	<b>327</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>1,800</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>325</b>

This data was then compiled from farms verified in Clinton County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **532** tons

Phosphorus reduced: **852** pounds

Nitrogen reduced: **1,705** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds





### **FY 2020 Crawford County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Crawford County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>90</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>90</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>70</b>

This data was then compiled from farms verified in Crawford County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **131** tons

Phosphorus reduced: **209** pounds

Nitrogen reduced: **420** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Delta County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Delta County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>970</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>350</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>100</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>1,000</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>280</b>

This data was then compiled from farms verified in Delta County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **1,417** tons

Phosphorus reduced: **2,267** pounds

Nitrogen reduced: **4,535** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Eaton County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Eaton County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>3,246</b>
Acres of buffer/filter strips	<b>15</b>
Acres of cover crops	<b>52</b>
Acres of conservation tillage	<b>1,100</b>
Acres of no-till, zone till, or grass cover	<b>2,046</b>
Number of gullies stabilized	<b>3</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>3,244</b>

This data was then compiled from farms verified in Eaton County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **4,753** tons

Phosphorus reduced: **7,608** pounds

Nitrogen reduced: **15,215** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Emmet County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Emmet County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>2</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>2</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>2</b>

This data was then compiled from farms verified in Emmet County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **2.92** tons

Phosphorus reduced: **4.66** pounds

Nitrogen reduced: **9.33** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### FY 2020 Genesee County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Genesee County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>6,000</b>
Acres of buffer/filter strips	<b>1.9</b>
Acres of cover crops	<b>2,000</b>
Acres of conservation tillage	<b>6,000</b>
Acres of no-till, zone till, or grass cover	<b>0</b>
Number of gullies stabilized	<b>5</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>6,000</b>

This data was then compiled from farms verified in Genesee County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **8,747** tons

Phosphorus reduced: **13,996** pounds

Nitrogen reduced: **27,993** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Grand Traverse County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Grand Traverse County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>220</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>37</b>
Acres of conservation tillage	<b>4</b>
Acres of no-till, zone till, or grass cover	<b>216</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>213</b>

This data was then compiled from farms verified in Grand Traverse County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **320** tons

Phosphorus reduced: **513** pounds

Nitrogen reduced: **1,026** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



## **FY 2020 Gratiot County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Gratiot County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>2,723</b>
Acres of buffer/filter strips	<b>27.0</b>
Acres of cover crops	<b>368</b>
Acres of conservation tillage	<b>2,356</b>
Acres of no-till, zone till, or grass cover	<b>368</b>
Number of gullies stabilized	<b>8</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>2,723</b>

This data was then compiled from farms verified in Gratiot County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **4,007** tons

Phosphorus reduced: **6,415** pounds

Nitrogen reduced: **12,830** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Hillsdale County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Hillsdale County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>18,250</b>
Acres of buffer/filter strips	<b>265</b>
Acres of cover crops	<b>4,817</b>
Acres of conservation tillage	<b>4,089</b>
Acres of no-till, zone till, or grass cover	<b>10,753</b>
Number of gullies stabilized	<b>83</b>
Feet of livestock exclusion	<b>2,100</b>
Size of silage pad (acres)	<b>0.75</b>
Acres of Pest Management Plans	<b>17,857</b>

This data was then compiled from farms verified in Hillsdale County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **26,985** tons

Phosphorus reduced: **43,878** pounds

Nitrogen reduced: **90,764** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **44,167** pounds





### **FY 2020 Huron County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Huron County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>17,192</b>
Acres of buffer/filter strips	<b>57</b>
Acres of cover crops	<b>9,257</b>
Acres of conservation tillage	<b>10,997</b>
Acres of no-till, zone till, or grass cover	<b>4,202</b>
Number of gullies stabilized	<b>89</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0.4</b>
Acres of Pest Management Plans	<b>17,192</b>

This data was then compiled from farms verified in Huron County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **25,139** tons

Phosphorus reduced: **40,585** pounds

Nitrogen reduced: **82,778** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **23,556** pounds



### **FY 2020 Ingham County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Ingham County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>1,708</b>
Acres of buffer/filter strips	<b>76</b>
Acres of cover crops	<b>61</b>
Acres of conservation tillage	<b>61</b>
Acres of no-till, zone till, or grass cover	<b>1,058</b>
Number of gullies stabilized	<b>5</b>
Feet of livestock exclusion	<b>62,000</b>
Size of silage pad (acres)	<b>1</b>
Acres of Pest Management Plans	<b>1,201</b>

This data was then compiled from farms verified in Ingham County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **2,802** tons

Phosphorus reduced: **5,398** pounds

Nitrogen reduced: **14,813** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **58,890** pounds



### **FY 2020 Ionia County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Ionia County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>7,140</b>
Acres of buffer/filter strips	<b>6.9</b>
Acres of cover crops	<b>2,440</b>
Acres of conservation tillage	<b>4,800</b>
Acres of no-till, zone till, or grass cover	<b>2,340</b>
Number of gullies stabilized	<b>16</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>5,740</b>

This data was then compiled from farms verified in Ionia County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **10,416** tons

Phosphorus reduced: **16,667** pounds

Nitrogen reduced: **33,334** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



## **FY 2020 Iosco County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Iosco County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>6</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>6</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>6</b>

This data was then compiled from farms verified in Iosco County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **9** tons

Phosphorus reduced: **14** pounds

Nitrogen reduced: **278** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Isabella County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Isabella County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>1,930</b>
Acres of buffer/filter strips	<b>6.0</b>
Acres of cover crops	<b>310</b>
Acres of conservation tillage	<b>200</b>
Acres of no-till, zone till, or grass cover	<b>1,730</b>
Number of gullies stabilized	<b>2</b>
Feet of livestock exclusion	<b>600</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>1,930</b>

This data was then compiled from farms verified in Isabella County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **2,823** tons

Phosphorus reduced: **4,518** pounds

Nitrogen reduced: **9,037** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



## **FY 2020 Jackson County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Jackson County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>278.5</b>
Acres of buffer/filter strips	<b>0.0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>5</b>
Acres of no-till, zone till, or grass cover	<b>273.5</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>5</b>

This data was then compiled from farms verified in Jackson County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **406** tons

Phosphorus reduced: **649** pounds

Nitrogen reduced: **1,299** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Kalamazoo County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Kalamazoo County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>1,725</b>
Acres of buffer/filter strips	<b>53.4</b>
Acres of cover crops	<b>1,112</b>
Acres of conservation tillage	<b>1,420</b>
Acres of no-till, zone till, or grass cover	<b>276</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>1,717</b>

This data was then compiled from farms verified in Kalamazoo County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **2,590** tons

Phosphorus reduced: **4,152** pounds

Nitrogen reduced: **8,303** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Kalkaska County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Kalkaska County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>2,725</b>
Acres of buffer/filter strips	<b>0.0</b>
Acres of cover crops	<b>2,725</b>
Acres of conservation tillage	<b>2,725</b>
Acres of no-till, zone till, or grass cover	<b>0</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>2,725</b>

This data was then compiled from farms verified in Kalkaska County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **3,971** tons

Phosphorus reduced: **6,354** pounds

Nitrogen reduced: **12,709** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds





### FY 2020 Kent County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Kent County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>8,499</b>
Acres of buffer/filter strips	<b>30.3</b>
Acres of cover crops	<b>960</b>
Acres of conservation tillage	<b>3,247</b>
Acres of no-till, zone till, or grass cover	<b>4,845</b>
Number of gullies stabilized	<b>58</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>4</b>
Acres of Pest Management Plans	<b>8,932</b>

This data was then compiled from farms verified in Kent County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **12,430** tons

Phosphorus reduced: **23,426** pounds

Nitrogen reduced: **62,948** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **235,560** pounds



### **FY 2020 Lapeer County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Lapeer County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>6,369</b>
Acres of buffer/filter strips	<b>149</b>
Acres of cover crops	<b>1,136</b>
Acres of conservation tillage	<b>2,823</b>
Acres of no-till, zone till, or grass cover	<b>901</b>
Number of gullies stabilized	<b>14</b>
Feet of livestock exclusion	<b>1,000</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>5,608</b>

This data was then compiled from farms verified in Lapeer County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **9,500** tons

Phosphorus reduced: **15,222** pounds

Nitrogen reduced: **30,438** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Leelanau County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Leelanau County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>78.5</b>
Acres of buffer/filter strips	<b>0.5</b>
Acres of cover crops	<b>10</b>
Acres of conservation tillage	<b>1.5</b>
Acres of no-till, zone till, or grass cover	<b>75.5</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>78.5</b>

This data was then compiled from farms verified in Leelanau County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **115** tons

Phosphorus reduced: **184** pounds

Nitrogen reduced: **368** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



## **FY 2020 Lenawee County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Lenawee County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>10,269</b>
Acres of buffer/filter strips	<b>184</b>
Acres of cover crops	<b>2,987</b>
Acres of conservation tillage	<b>4,599</b>
Acres of no-till, zone till, or grass cover	<b>4,966</b>
Number of gullies stabilized	<b>55</b>
Feet of livestock exclusion	<b>2,000</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>10,259</b>

This data was then compiled from farms verified in Lenawee County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **15,237** tons

Phosphorus reduced: **24,406** pounds

Nitrogen reduced: **48,806** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



## **FY 2020 Macomb County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Macomb County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>676</b>
Acres of buffer/filter strips	<b>57</b>
Acres of cover crops	<b>120</b>
Acres of conservation tillage	<b>330</b>
Acres of no-till, zone till, or grass cover	<b>205</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>2,100</b>
Size of silage pad (acres)	<b>1</b>
Acres of Pest Management Plans	<b>602</b>

This data was then compiled from farms verified in Macomb County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **1,074** tons

Phosphorus reduced: **2,611** pounds

Nitrogen reduced: **9,245** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **58,890** pounds



## **FY 2020 Manistee County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Manistee County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>155</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>155</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>155</b>

This data was then compiled from farms verified in Manistee County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **225** tons

Phosphorus reduced: **361** pounds

Nitrogen reduced: **722** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Mason County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Mason County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>579</b>
Acres of buffer/filter strips	<b>12</b>
Acres of cover crops	<b>42</b>
Acres of conservation tillage	<b>291</b>
Acres of no-till, zone till, or grass cover	<b>211</b>
Number of gullies stabilized	<b>5</b>
Feet of livestock exclusion	<b>2,640</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>418</b>

This data was then compiled from farms verified in Mason County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **870** tons

Phosphorus reduced: **1,395** pounds

Nitrogen reduced: **2,790** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### FY 2020 Mecosta County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Mecosta County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>283</b>
Acres of buffer/filter strips	<b>0.0</b>
Acres of cover crops	<b>160</b>
Acres of conservation tillage	<b>60</b>
Acres of no-till, zone till, or grass cover	<b>222</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>400</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>60</b>

This data was then compiled from farms verified in Mecosta County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **413** tons

Phosphorus reduced: **662** pounds

Nitrogen reduced: **1,324** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds





### **FY 2020 Menominee County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Menominee County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>221</b>
Acres of buffer/filter strips	<b>0.0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>6</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>46</b>

This data was then compiled from farms verified in Menominee County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **322** tons

Phosphorus reduced: **516** pounds

Nitrogen reduced: **1,033** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Midland County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Midland County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>115</b>
Acres of buffer/filter strips	<b>0.0</b>
Acres of cover crops	<b>20</b>
Acres of conservation tillage	<b>20</b>
Acres of no-till, zone till, or grass cover	<b>95</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>300</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>20</b>

This data was then compiled from farms verified in Midland County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **168** tons

Phosphorus reduced: **269** pounds

Nitrogen reduced: **539** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Missaukee County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Missaukee County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>8,765</b>
Acres of buffer/filter strips	<b>27</b>
Acres of cover crops	<b>1,600</b>
Acres of conservation tillage	<b>5,025</b>
Acres of no-till, zone till, or grass cover	<b>3,640</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>5,280</b>
Size of silage pad (acres)	<b>5</b>
Acres of Pest Management Plans	<b>8,765</b>

This data was then compiled from farms verified in Missaukee County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **12,831** tons

Phosphorus reduced: **24,952** pounds

Nitrogen reduced: **70,024** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **294,450** pounds



## **FY 2020 Monroe County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Monroe County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>3,826</b>
Acres of buffer/filter strips	<b>51</b>
Acres of cover crops	<b>1,207</b>
Acres of conservation tillage	<b>2,707</b>
Acres of no-till, zone till, or grass cover	<b>617</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>3,611</b>

This data was then compiled from farms verified in Monroe County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **5,649** tons

Phosphorus reduced: **9,046** pounds

Nitrogen reduced: **18,090** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Montcalm County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Montcalm County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>2,477</b>
Acres of buffer/filter strips	<b>19</b>
Acres of cover crops	<b>550</b>
Acres of conservation tillage	<b>1,266</b>
Acres of no-till, zone till, or grass cover	<b>1,211</b>
Number of gullies stabilized	<b>4</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>2,360</b>

This data was then compiled from farms verified in Montcalm County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **3,637** tons

Phosphorus reduced: **5,822** pounds

Nitrogen reduced: **11,645** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Muskegon County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Muskegon County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>980</b>
Acres of buffer/filter strips	<b>6.8</b>
Acres of cover crops	<b>200</b>
Acres of conservation tillage	<b>650</b>
Acres of no-till, zone till, or grass cover	<b>330</b>
Number of gullies stabilized	<b>1</b>
Feet of livestock exclusion	<b>1,320</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>980</b>

This data was then compiled from farms verified in Muskegon County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **1,443** tons

Phosphorus reduced: **2,311** pounds

Nitrogen reduced: **4,621** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Newaygo County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Newaygo County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>301</b>
Acres of buffer/filter strips	<b>6.1</b>
Acres of cover crops	<b>10</b>
Acres of conservation tillage	<b>277</b>
Acres of no-till, zone till, or grass cover	<b>24</b>
Number of gullies stabilized	<b>1</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>208</b>

This data was then compiled from farms verified in Newaygo County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **447** tons

Phosphorus reduced: **716** pounds

Nitrogen reduced: **1,433** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Oakland County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Oakland County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>0.25</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0.25</b>
Acres of no-till, zone till, or grass cover	<b>0</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>0</b>

This data was then compiled from farms verified in Oakland County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **0.36** tons

Phosphorus reduced: **0.58** pounds

Nitrogen reduced: **1.17** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds





### **FY 2020 Oceana County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Oceana County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>2,220</b>
Acres of buffer/filter strips	<b>3</b>
Acres of cover crops	<b>319</b>
Acres of conservation tillage	<b>69</b>
Acres of no-till, zone till, or grass cover	<b>2,038</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>2,200</b>

This data was then compiled from farms verified in Oceana County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **3,240** tons

Phosphorus reduced: **5,185** pounds

Nitrogen reduced: **10,371** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Ogemaw County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Ogemaw County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>5.5</b>
Acres of buffer/filter strips	<b>0.0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>5</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>0</b>

This data was then compiled from farms verified in Ogemaw County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **8 tons**

Phosphorus reduced: **12 pounds**

Nitrogen reduced: **25 pounds**

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00 pounds**



## **FY 2020 Osceola County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Osceola County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>1,904</b>
Acres of buffer/filter strips	<b>176</b>
Acres of cover crops	<b>132</b>
Acres of conservation tillage	<b>855</b>
Acres of no-till, zone till, or grass cover	<b>1,032</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>1,765</b>
Size of silage pad (acres)	<b>1</b>
Acres of Pest Management Plans	<b>1,301</b>

This data was then compiled from farms verified in Osceola County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **3,033** tons

Phosphorus reduced: **6,028** pounds

Nitrogen reduced: **17,281** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **76,557** pounds



### **FY 2020 Oscoda County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Oscoda County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>5</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>1</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>3</b>

This data was then compiled from farms verified in Oscoda County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **7.29** tons

Phosphorus reduced: **11.66** pounds

Nitrogen reduced: **23.32** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Ottawa County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Ottawa County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>1,355</b>
Acres of buffer/filter strips	<b>22</b>
Acres of cover crops	<b>227</b>
Acres of conservation tillage	<b>553</b>
Acres of no-till, zone till, or grass cover	<b>437</b>
Number of gullies stabilized	<b>2</b>
Feet of livestock exclusion	<b>8,941</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>1,031</b>

This data was then compiled from farms verified in Ottawa County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **2,035** tons

Phosphorus reduced: **3,262** pounds

Nitrogen reduced: **6,523** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Saginaw County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Saginaw County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>6,731</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>813</b>
Acres of conservation tillage	<b>3,126</b>
Acres of no-till, zone till, or grass cover	<b>1,205</b>
Number of gullies stabilized	<b>22</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>6,731</b>

This data was then compiled from farms verified in Saginaw County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **9,810** tons

Phosphorus reduced: **15,696** pounds

Nitrogen reduced: **31,393** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Sanilac County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Sanilac County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>23,647</b>
Acres of buffer/filter strips	<b>378</b>
Acres of cover crops	<b>7,437</b>
Acres of conservation tillage	<b>20,049</b>
Acres of no-till, zone till, or grass cover	<b>2,996</b>
Number of gullies stabilized	<b>159</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>1</b>
Acres of Pest Management Plans	<b>23,078</b>

This data was then compiled from farms verified in Sanilac County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **35,007** tons

Phosphorus reduced: **57,567** pounds

Nitrogen reduced: **121,961** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **100,113** pounds



### **FY 2020 Shiawassee County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Shiawassee County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>15,220</b>
Acres of buffer/filter strips	<b>59</b>
Acres of cover crops	<b>2,183</b>
Acres of conservation tillage	<b>5,718</b>
Acres of no-till, zone till, or grass cover	<b>4,985</b>
Number of gullies stabilized	<b>43</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>15,185</b>

This data was then compiled from farms verified in Shiawassee County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **22,268** tons

Phosphorus reduced: **35,637** pounds

Nitrogen reduced: **71,273** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds





### **FY 2020 St. Clair County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in St. Clair County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>4,342</b>
Acres of buffer/filter strips	<b>22</b>
Acres of cover crops	<b>467</b>
Acres of conservation tillage	<b>450</b>
Acres of no-till, zone till, or grass cover	<b>2,223</b>
Number of gullies stabilized	<b>14</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>3,722</b>

This data was then compiled from farms verified in St. Clair County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **6,361** tons

Phosphorus reduced: **10,181** pounds

Nitrogen reduced: **20,361** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 St. Joseph County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in St. Joseph County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>2,633</b>
Acres of buffer/filter strips	<b>8</b>
Acres of cover crops	<b>607</b>
Acres of conservation tillage	<b>17</b>
Acres of no-till, zone till, or grass cover	<b>1,459</b>
Number of gullies stabilized	<b>3</b>
Feet of livestock exclusion	<b>500</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>2,626</b>

This data was then compiled from farms verified in St. Joseph County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **3,850** tons

Phosphorus reduced: **6,162** pounds

Nitrogen reduced: **12,325** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Tuscola County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Tuscola County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>10,565</b>
Acres of buffer/filter strips	<b>210</b>
Acres of cover crops	<b>5,470</b>
Acres of conservation tillage	<b>5,872</b>
Acres of no-till, zone till, or grass cover	<b>1,631</b>
Number of gullies stabilized	<b>10</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>9,208</b>

This data was then compiled from farms verified in Tuscola County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **15,699** tons

Phosphorus reduced: **25,149** pounds

Nitrogen reduced: **50,290** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Van Buren County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Van Buren County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>1,682</b>
Acres of buffer/filter strips	<b>20</b>
Acres of cover crops	<b>1</b>
Acres of conservation tillage	<b>1,445</b>
Acres of no-till, zone till, or grass cover	<b>235</b>
Number of gullies stabilized	<b>4</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>1,678</b>

This data was then compiled from farms verified in Van Buren County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **2,481** tons

Phosphorus reduced: **3,972** pounds

Nitrogen reduced: **7,944** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Washtenaw County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Washtenaw County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>763</b>
Acres of buffer/filter strips	<b>19</b>
Acres of cover crops	<b>135</b>
Acres of conservation tillage	<b>251</b>
Acres of no-till, zone till, or grass cover	<b>512</b>
Number of gullies stabilized	<b>4</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0.25</b>
Acres of Pest Management Plans	<b>751</b>

This data was then compiled from farms verified in Washtenaw County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **1,140** tons

Phosphorus reduced: **2,048** pounds

Nitrogen reduced: **5102** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **14,722** pounds



### **FY 2020 Wayne County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Wayne County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>1</b>
Acres of buffer/filter strips	<b>0</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>0</b>
Acres of no-till, zone till, or grass cover	<b>0</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>0</b>

This data was then compiled from farms verified in Wayne County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **1.46** tons

Phosphorus reduced: **2.33** pounds

Nitrogen reduced: **4.66** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



### **FY 2020 Wexford County MAEAP Environmental Outcomes**

Information collected from MAEAP verified farms in Wexford County were used to calculate environmental outcomes in 2020:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>1,940</b>
Acres of buffer/filter strips	<b>1</b>
Acres of cover crops	<b>0</b>
Acres of conservation tillage	<b>1,400</b>
Acres of no-till, zone till, or grass cover	<b>540</b>
Number of gullies stabilized	<b>0</b>
Feet of livestock exclusion	<b>0</b>
Size of silage pad (acres)	<b>0</b>
Acres of Pest Management Plans	<b>1,140</b>

This data was then compiled from farms verified in Wexford County during the fiscal year of 2020, and the following totals were calculated:

Sediment reduced: **2,829** tons

Phosphorus reduced: **4,527** pounds

Nitrogen reduced: **9,055** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **0.00** pounds



County	FY20 Unique Sites
Alcona	<b>2</b>
Alger	<b>2</b>
Allegan	<b>17</b>
Alpena	<b>5</b>
Antrim	<b>1</b>
Arenac	<b>0</b>
Baraga	<b>0</b>
Barry	<b>1</b>
Bay	<b>10</b>
Benzie	<b>1</b>
Berrien	<b>14</b>
Branch	<b>3</b>
Calhoun	<b>2</b>
Cass	<b>11</b>
Charlevoix	<b>1</b>
Cheboygan	<b>1</b>
Chippewa	<b>1</b>
Clare	<b>5</b>
Clinton	<b>7</b>
Crawford	<b>2</b>
Delta	<b>2</b>
Dickinson	<b>0</b>
Eaton	<b>3</b>
Emmet	<b>1</b>
Genesee	<b>3</b>
Gladwin	<b>0</b>
Gogebic	<b>0</b>
Grand Traverse	<b>6</b>
Gratiot	<b>2</b>

County	FY20 Unique Sites
Hillsdale	<b>22</b>
Houghton	<b>0</b>
Huron	<b>14</b>
Ingham	<b>7</b>
Ionia	<b>3</b>
Iosco	<b>1</b>
Iron	<b>0</b>
Isabella	<b>4</b>
Jackson	<b>4</b>
Kalamazoo	<b>10</b>
Kalkaska	<b>3</b>
Kent	<b>17</b>
Keweenaw	<b>0</b>
Lake	<b>0</b>
Lapeer	<b>13</b>
Leelanau	<b>5</b>
Lenawee	<b>13</b>
Livingston	<b>0</b>
Luce	<b>0</b>
Mackinac	<b>0</b>
Macomb	<b>5</b>
Manistee	<b>0</b>
Marquette	<b>0</b>
Mason	<b>4</b>
Mecosta	<b>4</b>
Menominee	<b>2</b>
Midland	<b>1</b>
Missaukee	<b>5</b>
Monroe	<b>8</b>

County	FY20 Unique Sites
Montcalm	<b>8</b>
Montmorency	<b>0</b>
Muskegon	<b>7</b>
Newaygo	<b>2</b>
Oakland	<b>1</b>
Oceana	<b>14</b>
Ogemaw	<b>1</b>
Ontonagon	<b>0</b>
Osceola	<b>11</b>
Oscoda	<b>1</b>
Otsego	<b>0</b>
Ottawa	<b>8</b>
Presque Isle	<b>0</b>
Roscommon	<b>0</b>
Saginaw	<b>6</b>
Sanilac	<b>18</b>
Schoolcraft	<b>0</b>
Shiawassee	<b>11</b>
St. Clair	<b>11</b>
St. Joseph	<b>8</b>
Tuscola	<b>14</b>
Van Buren	<b>6</b>
Washtenaw	<b>6</b>
Wayne	<b>1</b>
Wexford	<b>3</b>





## FY20 Breakdown Vers and Revers by County

County	CAS	FAS	LAS	FWH	New Verifications	CAS RV	FAS RV	LAS RV	FWH RV	Reverified	Total New and RV
Alcona	1	1	1	0	3	1	1	1	0	3	6
Alger	0	0	0	1	1	2	2	1	0	5	6
Allegan	7	5	2	3	17	7	6	5	0	18	35
Alpena	4	4	3	1	12	1	1	1	0	3	15
Antrim	0	0	0	0	0	1	1	0	0	2	2
Arenac	0	0	0	1	1	0	0	0	0	0	1
Baraga	0	0	0	0	0	0	0	0	0	0	0
Barry	0	0	0	1	1	0	0	1	0	1	2
Bay	6	1	0	0	7	4	4	0	0	8	15
Benzie	1	1	1	1	4	0	0	0	0	0	4
Berrien	4	4	0	0	8	7	4	0	0	11	19
Branch	0	0	0	0	0	2	3	1	0	6	6
Calhoun	0	0	0	0	0	0	0	2	0	2	2
Cass	5	5	1	2	13	2	2	1	0	5	18
Charlevoix	1	1	1	0	3	0	0	0	0	0	3
Cheboygan	0	0	0	0	0	1	1	0	0	2	2
Chippewa	0	0	0	2	2	1	1	1	0	3	5
Clare	0	1	1	1	3	3	4	3	0	10	13
Clinton	4	3	3	3	13	3	3	2	0	8	21
Crawford	2	2	2	0	6	0	0	0	0	0	6
Delta	0	0	0	6	6	2	2	1	0	5	11
Dickinson	0	0	0	0	0	0	0	0	0	0	0
Eaton	2	1	1	0	4	1	1	0	0	2	6
Emmet	1	1	1	0	3	0	0	0	0	0	3
Genesee	0	0	0	1	1	1	3	0	0	3	4
Gladwin	0	0	0	0	0	0	0	0	0	0	0
Gogebic	0	0	0	0	0	0	0	0	0	0	0
Grand Traverse	4	3	0	0	7	2	2	0	0	4	11
Gratiot	1	0	0	0	1	0	1	0	0	1	2



## FY20 Breakdown Vers and Revers by County

County	CAS	FAS	LAS	FWH	New Verifications	CAS RV	FAS RV	LAS RV	FWH RV	Reverified	Total New and RV
Hillsdale	4	7	4	2	17	15	7	8	0	30	45
Houghton	0	0	0	0	0	0	0	0	0	0	0
Huron	5	3	0	0	8	9	3	3	0	15	23
Ingham	1	1	1	2	5	1	6	5	0	12	17
Ionia	1	0	0	0	1	2	1	0	0	3	4
Iosco	0	0	0	0	0	1	1	0	0	2	2
Iron	0	0	0	0	0	0	0	0	0	0	0
Isabella	0	0	0	0	0	4	3	1	0	8	8
Jackson	3	3	4	0	10	1	1	0	0	2	12
Kalamazoo	2	2	0	0	4	7	7	1	0	15	19
Kalkaska	0	1	0	0	1	2	2	0	0	4	5
Kent	8	8	1	0	17	5	6	3	0	14	31
Keweenaw	0	0	0	0	0	0	0	0	0	0	0
Lake	0	0	0	6	6	0	0	0	0	0	6
Lapeer	10	6	2	3	21	3	3	3	0	9	30
Leelanau	3	1	0	3	7	2	3	0	0	5	12
Lenawee	4	3	3	2	12	7	4	0	0	11	23
Livingston	0	0	0	0	0	0	0	0	0	0	0
Luce	0	0	0	0	0	0	0	0	0	0	0
Mackinac	0	0	0	2	2	0	0	0	0	0	2
Macomb	1	1	0	0	2	4	3	1	0	8	10
Manistee	0	0	0	2	2	1	0	0	0	1	3
Marquette	0	0	0	6	6	0	0	0	1	1	7
Mason	2	2	1	2	7	2	1	0	0	3	10
Mecosta	3	1	1	3	8	1	0	0	0	1	9
Menominee	1	1	0	0	2	1	1	1	0	3	5
Midland	1	0	1	0	2	0	0	0	0	0	2
Missaukee	2	2	1	0	5	3	3	2	0	8	13
Monroe	5	4	1	2	12	1	0	0	0	1	13

## FY20 Breakdown Vers and Revers by County

[illegible]

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
<b>Alcona</b>	<b>240</b>	<b>151</b>	
Anti-Backflow Device Installed		7	
Chemigation, Anti-backflow Device		1	
Containers, Properly Rinsed		1	
Dead Animals Handled According to BODA		3	
Drift Management Plan, New		2	
Emergency Plan, Fertilizer New		2	
Emergency Plan, Pesticide New		4	
Environmentally Sensitive Areas Identified	<b>50</b>		
Farm Emergency Plan Developed and Followed, New		1	
Fertilizer, Determination of Rates		2	
FMP Includes Landowner Objectives		4	
Forestry Management Plan, New		1	
Impermeable Surface, Fuel		1	
Irrigation, Excess Avoided		1	
Irrigation, Excessive Applications Avoided		1	
Irrigation, Rain Gauges in Fields		3	
Irrigation, Record Keeping		2	
Isolation Distances Met		5	
Land Management Plan, New		1	
Livestock Management, Runoff Management		1	
Livestock Yard, Drainage Diversion		1	
Manure Application, Rate Determination		1	
Manure Storage, Field Stacked Duration		1	
Manure Storage, Temporary Duration		3	
Manure Storage, Temporary Location		3	
Manure, Application Rates Do Not Exceed Crop P Needs	<b>1</b>		
Manure, Management Records		1	
Manure, Nutrient Content Determination		2	
Nutrient Management Records, Multiple		2	
Odor Management Plan		2	
P Fertilizer, Rate Determination	<b>50</b>		
Pasture Soil Tested		3	
Pastures Have Current Soil Tests		6	
Pesticide Spill Kit Availability		2	
Pesticides, Application Recordkeeping		1	
Pesticides, Emergency Plan and Contacts		1	
Precipitation Leading to Contaminated Run-Off		1	
Secondary Containment, Fertilizer		1	
Secondary Containment, Fuel		4	
Secondary Containment, Pesticides		1	
Septic, Pumping		1	
Soil and/or Tissue Testing, Quadrennial	<b>10</b>		
Soil Testing, Representative Sampling	<b>17</b>	<b>7</b>	
Soil Testing, Triennial	<b>13</b>	<b>23</b>	
Soil, Nutrient Records	<b>99</b>		

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians			
Practices Implemented by County	Units		
	Acres	Each	Gallon
Storage, Dedicated		1	
Storage, Signage		5	
Storage, Spill Kit		5	
Veterinary Product and Waste Disposal		3	
Waste, Recycling and Disposal		5	
Well Decommissioned		2	
Well Tests, Every Three Years		12	
Well Tests, Health Standards		8	
<b>Alger</b>	<b>100</b>	<b>121</b>	
Adverse Impact To Endangered And Threatened Species Avoided		1	
All Habitat Types Identified and Mapped In LMP		1	
Appropriate Records For Forest Product Harvests And Other Management Activities		3	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats		1	
Bogs And Fens Identified And RMZs Established		1	
Dead Animals Handled According to BODA		2	
Emergency Plan, Fertilizer New		2	
Emergency Plan, Fertilizer Revised		1	
Emergency Plan, Manure Spill, New		1	
Emergency Plan, Manure Spill, Revised		1	
Environmentally Sensitive Areas Identified	<b>52</b>		
Fertilizer Records Maintained		1	
Fertilizer, Determination of Rates		1	
Forest Roads Established And Maintained To Avoid Erosion		1	
Forestland Enrolled In Sustainable Forest Certification Program		4	
Harvest Plan Map Used For Harvest		2	
Invasive Species Identified And Managed		1	
IPM Used To Control Pests		1	
Irrigation Records Maintained		1	
Irrigation, Amount Determined Accurately		1	
Irrigation, Evaluation for Uniformity		1	
Irrigation, Rain Gauges in Fields		2	
Irrigation, Record Keeping		3	
Isolation Distances Met		2	
Land Management Plan, New		2	
Landowner Enrolled in Programs Appropriate To Objectives		3	
Landowner Minimizes Impact To Cultural Sites and Works With SHPO As Needed		1	
Landowner Uses Natural Resource Professionals For Services		2	
Landowner Uses Professionals With Insurance and That Comply With Federal, State, and Local Regulations		2	
Livestock Management, Recordkeeping		3	
LMP Allows for Active and Adaptive Management		2	
LMP Identifies All Resource Concerns		1	
LMP Includes Landowner Objectives		2	
LMP Prepared By Professional Natural Resource Manager		2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Manage Visual Impacts Of Forest Management Using Visual Quality Criteria In RTF GAFMPs			1	
Management Activities Conform to Applicable Forest Land BMPs			1	
Management Activities Conform To GAFMPs			2	
Manure Application, Runoff Prevention		3		
Manure Storage, Isolation Distances Met			1	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Location			2	
Manure Storage, Temporary Stacked, Surface Water Setback			2	
Manure, Management Records			1	
Nutrient Management Plans, Annual By Field		6		
Other Environmental Risks Resolved			3	
Owner Monitors Harvests to Ensure Conformance With LMP			3	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			1	
Pesticides Used And Stored According To EPA, SSWQPs			2	
Potential Conflict Between Timber Management And Habitat Development Resolved			2	
Restoration Potential and Long-Term Management Outlined in HMP			1	
Runoff/Sedimentation Controlled			1	
Secondary Containment, Fertilizer			2	
Site Monitored Annually For Changes			1	
Soil Erosion Controlled		35		
Soil Testing, Triennial			10	
Soil, Nutrient Records		6		
Special Sites Protected			1	
Sustainable Soil And Water Quality Practices Followed			1	
Timber Harvesting Conducted According To FMP			1	
Timber Sale Contract Prepared By Professional Forester			2	
Waste, Floor Drains			3	
Water Bodies Identified And Riparian Management Zones Established			1	
Well Tests, Every Three Years			10	
Well Tests, Health Standards			9	
<b>Allegan</b>		<b>14,787</b>	<b>799</b>	
Adverse Impact To Endangered And Threatened Species Avoided			1	
All Other Habitats Enrolled In Long-Term Or Permanent Conservation Programs			1	
Anti-Backflow Device Installed			5	
Backflow Prevention on Livestock Watering Systems			3	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats			1	
Conservation Practices Routinely Evaluated			4	
Containers, Properly Rinsed			3	
Corn Rotated Annually			1	
Cover Crop Use		1,848		
Dead Animals Handled According to BODA			13	
Dead Animals, Composting Process Follows BODA			3	
Dead Animals, Composting Recordkeeping Meets BODA Requirements			4	
Drift Management Plan, New			20	

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Drift Management Plan, Revised		6	
Emergency Plan, Fertilizer New		2	
Emergency Plan, Fertilizer Revised		1	
Emergency Plan, Manure Spill, New		11	
Emergency Plan, Manure Spill, Revised		3	
Emergency Plan, Pesticide New		13	
Emergency Plan, Pesticide Revised		6	
Emergency Plan, Revised, Silage		1	
Emergency Plan, Spill Control and Counter-measure		1	
Environmentally Sensitive Areas Identified	9,219		
Equipment, Parking and Storage		10	
Erosion Controlled, Site	3		
Excess or Unwanted Product, Disposed of Properly		2	
Excess Product, Label Rates		2	
Farm Emergency Plan Developed and Followed, New		4	
Fertilizer, Application Equipment Calibration		5	
Fertilizer, Determination of Rates		3	
Fertilizer, Rate Determination	184		
FMP Addresses All Habitat Types		1	
FMP Includes Landowner Objectives		1	
Forestry Management Plan, New		1	
Impermeable Surface, Fuel		12	
Invasive Species Identified And Managed		2	
IPM Scouting Weekly		1	
Irrigation Fuel Tank Meets Setback Requirements		4	
Irrigation, Amount Determined Accurately		1	
Irrigation, Anti-backflow Device Separating Groundwater and Surface Water		1	
Irrigation, Evaluation for Uniformity		6	
Irrigation, Rain Gauges in Fields		6	
Irrigation, Record Keeping		6	
Irrigation, Scheduling		10	
Irrigation, Sock Wells Isolated		1	
Irrigation, System Evaluation		2	
Isolation Distances Met		22	
Landowner Complies With Laws And Ordinances		4	
Large Quantity Water Withdrawal Registered		1	
Leaching/Runoff Toxic Potential Consideration		1	
Livestock Management, Anti-Backflow device installed		1	
Livestock Management, NMP		1	
Livestock Management, Recordkeeping		9	
Livestock Management, Runoff Management		1	
Livestock Management, Siting		5	
Livestock Yard, Drainage Diversion		2	
Livestock Yard, Manure Scrape and Haul		1	
Livestock Yard, Runoff Management		2	
Manure Application, Odor-Reduction Practices Used		1	
Manure Application, Rate Determination		1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Manure Application, Rates Do Not Exceed Crop N Needs			1	
Manure Application, Rates Do Not Exceed Crop P Needs			1	
Manure Applications, Weather Forecasts Monitored			1	
Manure Storage, Farmstead Stacked, Odor and Pest Control			1	
Manure Storage, Isolation Distances Met			1	
Manure Storage, Liquid Storage Freeboard Maintained			1	
Manure Storage, Temporary Duration			8	
Manure Storage, Temporary Location			5	
Manure Storage, Temporary Stacked, Odor and Pest Control			1	
Manure, Isolation Distances Met			1	
Manure, Management Records			3	
Mix-Load, Filling Monitored			1	
No Cross-Connections With Potable Water and Isolation Distances Met			1	
Non-Forested/Non-Wetland Habitats Being Restored			2	
Nursery Containers, Containers Recycled or Reused			1	
Nutrient Management Plans, Annual		79		
Nutrient Management Plans, Annual By Field		2,592		
Nutrient Management Records, Multiple			3	
Nutrients, All Sources Considered			9	
Odor Management Plan			17	
Other Environmental Risks Resolved			3	
P Fertilizer, Rate Determination			3	
Pasture Management For Vegetation and Runoff			1	
Pasture Management, Manure Near Water Tanks/Feeders			1	
Pasture Soil Tested			3	
Pastures Have Current Soil Tests			6	
Pest Management, Current on Practices			2	
Pest Management, Reliable Providers			1	
Pest Management, Reviews Previous Years Results			1	
Pest Management, Weather Conditions Monitored			1	
Pesticide Application, Recordkeeping			2	
Pesticide Applications, Soil Characteristics Considered			1	
Pesticide Drift Management Plan, New			4	
Pesticide Drift Management Plan, Revised			1	
Pesticide Handling, Field Mixing and Loading			3	
Pesticide Mixture, Disposal of Excess			1	
Pesticide Spill Kit Availability			24	
Pesticides Stored Properly			1	
Pesticides, Air Blast Management			1	
Pesticides, Application Recordkeeping			4	
Pesticides, Container Handling			5	
Pesticides, Drift Management Plan, New			16	
Pesticides, Drift Management Plan, Revised			3	
Pesticides, Emergency Plan and Contacts			16	
Pesticides, Equipment Calibration			8	
Pesticides, Excess Spray Mixture Use			1	
Pesticides, Mixing and Loading In Field			12	



FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Pesticides, Resistance Prevention			1	
Pesticides, Rinsate Disposal			2	
Potential Conflict Between Timber Management And Habitat Development Resolved			1	
Precipitation Leading to Contaminated Run-Off			1	
Required Regulatory Reporting and Recordkeeping Compliance			1	
RTF Site Selection and Odor-Control GAAMPS Met			2	
Runoff/Sedimentation Controlled			1	
RUP Compliance			4	
Secondary Containment, Fuel			6	
Secondary Containment, Mix-Load			2	
Secondary Containment, Pesticides			2	
Site Monitored Annually For Changes			2	
Soil and/or Tissue Testing, Quadrennial		99		
Soil Erosion Controlled		1		
Soil Testing, Representative Sampling		80	11	
Soil Testing, Triennial			23	
Soil, Characteristics Considered			2	
Soil, Nutrient Records		598		
Soil, pH Maintenance		86		
Special Sites Protected			1	
Sprayer, Cleaning Water Collected			1	
Storage, Application Equipment			1	
Storage, Appropriate Tanks			12	
Storage, Buildings Setback			1	
Storage, Decommissioned			4	
Storage, Dedicated			4	
Storage, Isolated From Other Products			2	
Storage, Labeled Containers			3	
Storage, Monitored for Leaks			2	
Storage, Security			4	
Storage, Shelving			4	
Storage, Signage			14	
Storage, Spill Kit			19	
Surface Drains Present Around Farmstead			1	
Veterinary Product and Waste Disposal			8	
Visual Sensitivity Of The Site Has Been Assessed			1	
Waste, Floor Drains			2	
Waste, Recycling and Disposal			1	
Water, Protected From Pesticide Contamination			4	
Weather Stations/Models Used, On-Farm			4	
Well Construction			31	
Well Decommissioned			3	
Well Inspected			85	
Well Repaired to Standards			14	
Well Setback, Manure Sources			1	
Well Tests, Every Three Years			51	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Well Tests, Health Standards		39		
Worker Notification		1		
Worker Protection, Central Notification		1		
<b>Alpena</b>		<b>2,051</b>	<b>334</b>	
Adequate Land Base for Nutrients		2		
Anti-Backflow Device Installed		10		
Backflow Prevention on Livestock Watering Systems		3		
Containers, Properly Rinsed		1		
Dead Animals Handled According to BODA		15		
Drift Management Plan, New		5		
Emergency Plan, Employee Training		1		
Emergency Plan, Fertilizer New		2		
Emergency Plan, Manure Spill, New		6		
Emergency Plan, Pesticide New		5		
Environmentally Sensitive Areas Identified		<b>685</b>		
Fill Opening Separate From Vent Opening		1		
Impermeable Surface, Fuel		3		
Irrigation, Rain Gauges in Fields		2		
Irrigation, Record Keeping		1		
Isolation Distances Met		5		
Land Management Plan, New		1		
Livestock Management, Anti-Backflow device installed		5		
Livestock Management, NMP		5		
Livestock Management, Recordkeeping		10		
Livestock Management, Siting		9		
Livestock Yard, Floor		2		
Livestock Yard, Manure Scrape and Haul		5		
LMP Identifies Special Sites and Contains Activities to Maintain Them		1		
Manure Storage, Runoff Management		1		
Manure Storage, Temporary Duration		4		
Manure Storage, Temporary Location		6		
Manure, Isolation Distances Met		1		
Manure, Management Records		4		
Manure, Odor Management		2		
Nutrient Management Plans, Annual By Field		<b>500</b>		
Odor Management Plan		6		
P Fertilizer, Rate Determination		1		
Pasture Management, Manure Near Water Tanks/Feeders		1		
Pasture Soil Tested		5		
Pasture, Managing Livestock in Winter for Runoff		1		
Pastures Have Current Soil Tests		5		
Pesticide Spill Kit Availability		2		
Pesticides, Application Recordkeeping		1		
Pesticides, Drift Management Plan, New		3		
Pesticides, Emergency Plan and Contacts		1		
Pesticides, Mixing and Loading In Field		1		
Portion of Animal Feed Produced On Farm		1		

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
RTF Site Selection and Odor-Control GAAMPS Met			2	
Secondary Containment, Fuel			6	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			1	
Septic, System Maintenance Records			3	
Soil Testing, Representative Sampling		7	14	
Soil Testing, Triennial		32	16	
Soil, Nutrient Records		826		
Soil, pH Maintenance		1		
Storage, Decommissioned			3	
Storage, Dedicated			1	
Storage, Elevation			1	
Storage, Monitored for Leaks			1	
Storage, Portable Fueling			1	
Storage, Security			17	
Storage, Signage			8	
Storage, Spill Kit			1	
Storage, Spill Protection			3	
Sustainable Soil And Water Quality Practices Followed			2	
Veterinary Product and Waste Disposal			27	
Waste, Ash Disposal			1	
Waste, Floor Drains			2	
Waste, Isolation Distances Met			2	
Waste, Recycling and Disposal			34	
Well Tests, Every Three Years			19	
Well Tests, Health Standards			22	
<b>Antrim</b>		<b>6,205</b>	<b>178</b>	
Dead Animals Handled According to BODA			2	
Drift Management Plan, New			6	
Drift Management Plan, Revised			2	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			6	
Emergency Plan, Manure Spill, Revised			4	
Emergency Plan, Pesticide New			7	
Emergency Plan, Pesticide Revised			6	
Environmentally Sensitive Areas Identified		5,922		
Farm Emergency Plan Developed and Followed, New			2	
Fertilizer, Determination of Rates			1	
FMP Includes Landowner Objectives			1	
Forestry Management Plan, New			1	
Impermeable Surface, Fuel			4	
Irrigation, Amount Determined Accurately			1	
Irrigation, Rain Gauges in Fields		6	3	
Irrigation, Record Keeping			4	
Isolation Distances Met			8	
Large Quantity Water Withdrawal Registered			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			1	
Livestock Yard, Drainage Diversion			2	
Livestock Yard, Floor			1	
Manure Application, Rate Determination			3	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Location			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			2	
Nutrient Management Plans, Annual By Field		80		
Nutrient Management Records, Multiple			1	
Odor Management Plan			6	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			6	
Pesticide Drift Management Plan, New			3	
Pesticide Drift Management Plan, Revised			1	
Pesticide Spill Kit Availability			6	
Pesticides, Application Recordkeeping			1	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			1	
Required Regulatory Reporting and Recordkeeping Compliance			9	
Secondary Containment, Fertilizer			2	
Secondary Containment, Leaks and Precipitation			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Operational Pad			1	
Soil and/or Tissue Testing, Quadrennial		120		
Soil Testing, Representative Sampling			1	
Soil Testing, Triennial		7	5	
Soil, Nutrient Records		70		
Storage, Appropriate Tanks			2	
Storage, Labeled Containers			2	
Storage, Portable Fueling			1	
Storage, Security			1	
Storage, Signage			5	
Storage, Spill Kit			10	
Storage, Spill Protection			2	
Waste, Floor Drains			7	
Waste, Isolation Distances Met			1	
Waste, Mercury			2	
Waste, Recycling and Disposal			5	
Water Use Reported			6	
Well Tests, Every Three Years			7	
Well Tests, Health Standards			6	
<b>Arenac</b>		<b>2,800</b>	<b>8</b>	
106 Forest Management Plan - Written			1	
Environmentally Sensitive Areas Identified		1,300		
Manure, Nutrient Content Determination			2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Nutrients, All Sources Considered			1	
Odor Management Plan			1	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			1	
Soil Erosion Controlled		750		
Soil, Nutrient Records		750		
<b>Barry</b>		<b>1,986</b>	<b>38</b>	
Adequate Land Base for Nutrients			1	
Bogs And Fens Identified And RMZs Established			1	
Drift Management Plan, New			2	
Emergency Plan, Manure Spill, New			1	
Environmentally Sensitive Areas Identified		1,980		
Fertilizer, Determination of Rates			2	
Harvest Plan Map Used For Harvest			1	
Land Management Plan, New			1	
Livestock Management, Recordkeeping			1	
Livestock Management, Runoff Management			1	
Livestock Yard, Manure Scrape and Haul			1	
Manure Application, Rate Determination			3	
Manure Storage, Clean Water Diverted			1	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Duration			3	
Manure Storage, Temporary Location			1	
Manure, Nutrient Content Determination			3	
Manure, Odor Management			1	
Odor Management Plan			1	
Pastures Have Current Soil Tests		6	1	
Pesticides, Drift Management Plan, New			2	
Soil Testing, Triennial			3	
Well Tests, Every Three Years			3	
Well Tests, Health Standards			3	
<b>Bay</b>		<b>28,587</b>	<b>30</b>	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			3	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		9,036		
Irrigation, Evaluation for Uniformity			1	
Irrigation, Record Keeping			1	
Isolation Distances Met			1	
Livestock Management, Recordkeeping			1	
Livestock Yard, Surface Water Setback			1	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Duration			1	
Nutrient Management Plans, Annual By Field		7,250		
Nutrients, All Sources Considered			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Odor Management Plan			1	
Other Environmental Risks Resolved			1	
Pastures Have Current Soil Tests			1	
Pesticide Spill Kit Availability			3	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			2	
Pesticides, Emergency Plan and Contacts			1	
Soil Erosion Controlled		11,001		
Soil Testing, Triennial		1,300	1	
Storage, Spill Kit			2	
Veterinary Product and Waste Disposal			1	
Water Use Reported			2	
<b>Benzie</b>		<b>24</b>	<b>108</b>	
Dead Animals Handled According to BODA			1	
Dead Animals, Composting Recordkeeping Meets BODA Requirements			1	
Drift Management Plan, New			5	
Emergency Plan, Fertilizer New			3	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Pesticide New			6	
Emergency Plan, Pesticide Revised			2	
Environmentally Sensitive Areas Identified		2		
Fertilizer, Determination of Rates			1	
Impermeable Surface, Fuel			3	
Irrigation, Rain Gauges in Fields			3	
Irrigation, Record Keeping			2	
Isolation Distances Met			9	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			1	
Livestock Yard, Drainage Diversion			1	
Livestock Yard, Runoff Management			2	
Livestock Yard, Surface Water Setback			2	
Manure Application, Rate Determination			2	
Manure Storage, Clean Water Diverted			1	
Manure Storage, Runoff Management			2	
Manure Storage, Temporary Location			1	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Isolation Distances Met			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			1	
Nutrient Management Records, Multiple			1	
Odor Management Plan			4	
Pasture Management For Vegetation and Runoff			1	
Pasture Management, Protection of Stream Banks and Surface Water			1	
Pesticide Application, Recordkeeping			1	
Pesticide Drift Management Plan, New			2	
Pesticide Handling, Field Mixing and Loading			2	
Pesticide Rinsate, Proper Handling			2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Pesticide Spill Kit Availability			3	
Precipitation Leading to Contaminated Run-Off			1	
Required Regulatory Reporting and Recordkeeping Compliance			1	
Rinsate, Label Rates			1	
Secondary Containment, Mix-Load			2	
Secondary Containment, Pesticides			3	
Soil and/or Tissue Testing, Quadrennial		1		
Soil, Nutrient Records		21		
Storage, Appropriate Tanks			2	
Storage, Security			3	
Storage, Signage			5	
Storage, Spill Kit			7	
Waste, Floor Drains			1	
Waste, Isolation Distances Met			1	
Waste, Recycling and Disposal			1	
Water Use Reported			1	
Water, Protected From Pesticide Contamination			1	
Well Decommissioned			1	
Well Setback, Manure Sources			1	
Well Tests, Every Three Years			4	
Well Tests, Health Standards			1	
<b>Berrien</b>		<b>2,064</b>	<b>286</b>	
Anti-Backflow Device Installed			6	
Backflow Prevention on Livestock Watering Systems			9	
Dead Animals Handled According to BODA			1	
Drift Management Plan, New			6	
Drift Management Plan, Revised			4	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Fertilizer Revised			3	
Emergency Plan, Manure Spill, New			7	
Emergency Plan, Pesticide New			12	
Emergency Plan, Pesticide Revised			5	
Environmentally Sensitive Areas Identified		1,018		
Fertilizer, Determination of Rates			16	
Fertilizer, Rate Determination		175		
Impermeable Surface, Fuel			4	
Irrigation, Amount Determined Accurately			1	
Irrigation, Backflow Prevention			1	
Irrigation, Rain Gauges in Fields			2	
Irrigation, Record Keeping			1	
Isolation Distances Met			7	
Landowner Complies With Laws And Ordinances			2	
Livestock Yard, Manure Scrape and Haul			1	
Livestock Yard, Surface Water Setback			2	
Manure Application, Odor-Reduction Practices Used			1	
Manure Application, Rates Do Not Exceed Crop P Needs			2	
Manure Storage, Field Stacked Duration			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Manure Storage, Temporary Duration			5	
Manure Storage, Temporary Location			1	
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Manure, Field Stockpile Duration			1	
Manure, Management Records			3	
Manure, Nutrient Content Determination			5	
No Odor Complaints/Odor Complaints Resolved			1	
Nutrient Management Plans, Annual By Field		5		
Nutrient Management Records, Multiple			9	
Nutrients, All Sources Considered			2	
Odor Management Plan			5	
P Fertilizer, Rate Determination			2	
Pasture Management, Manure Near Water Tanks/Feeders			7	
Pasture Soil Tested			6	
Pastures Have Current Soil Tests		9	1	
Pesticide Application, Recordkeeping			5	
Pesticide Drift Management Plan, New			3	
Pesticide Drift Management Plan, Revised			6	
Pesticide Spill Kit Availability			3	
Pesticides, Application Recordkeeping			4	
Pesticides, Drift Management Plan, New			5	
Pesticides, Drift Management Plan, Revised			1	
Pesticides, Emergency Plan and Contacts			4	
Pesticides, Label Compliance			13	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Secondary Containment, Fuel			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			2	
Soil and/or Tissue Testing, Quadrennial		372		
Soil Testing, Representative Sampling			2	
Soil Testing, Triennial		12	26	
Soil, Nutrient Records		473		
Storage, Appropriate Tanks			1	
Storage, Security			2	
Storage, Shelving			1	
Storage, Signage			5	
Storage, Spill Kit			16	
Veterinary Product and Waste Disposal			3	
Waste, Floor Drains			3	
Waste, Isolation Distances Met			1	
Waste, Recycling and Disposal			2	
Water Use Reported			1	
Water, Protected From Pesticide Contamination			1	
Well Decommissioned			2	
Well Inspected			4	
Well Tests, Every Three Years			22	
<b>Branch</b>		<b>4,462</b>	<b>141</b>	



FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Adequate Land Base for Nutrients			1	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			1	
Dead Animals, Composting Recordkeeping Meets BODA Requirements			1	
Dead Animals: Composting Process Properly Managed			1	
Drift Management Plan, New			2	
Drift Management Plan, Revised			6	
Emergency Plan, Fertilizer New			4	
Emergency Plan, Fertilizer Revised			6	
Emergency Plan, Manure Spill, New			7	
Emergency Plan, Manure Spill, Revised			3	
Emergency Plan, Pesticide New			4	
Emergency Plan, Pesticide Revised			5	
Environmentally Sensitive Areas Identified		2,307		
Erosion Minimized On Roads And Parking Lots			1	
Impermeable Surface, Fuel			2	
Isolation Distances Met			1	
Livestock Management, Runoff Management			1	
Manure Application, Rate Determination			1	
Manure Storage, Designed Use			1	
Manure Storage, Isolation Distances Met			2	
Manure Storage, Liquid Storage Design and Installation			1	
Manure Storage, Liquid Storage Freeboard Maintained			2	
Manure Storage, Temporary Duration			2	
Manure, Management Records			1	
Odor Management Plan			11	
Pastures Have Current Soil Tests			1	
Pesticide Spill Kit Availability			3	
Pesticides, Application Recordkeeping			4	
Pesticides, Container Handling			2	
Pesticides, Drift Management Plan, New			3	
Pesticides, Drift Management Plan, Revised			7	
Pesticides, Emergency Plan and Contacts			6	
Pesticides, Rinsate Disposal			1	
Soil Erosion Controlled		1,050		
Soil, Nutrient Records		1,105		
Storage, Signage			3	
Storage, Spill Kit			3	
Veterinary Product and Waste Disposal			1	
Waste, Floor Drains			3	
Waste, Recycling and Disposal			2	
Water, Protected From Pesticide Contamination			8	
Well Decommissioned			5	
Well Tests, Every Three Years			18	
Well Tests, Health Standards			3	
<b>Calhoun</b>		<b>11,734</b>	<b>127</b>	
Anti-Backflow Device Installed			2	

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Cover Crop Use	<b>300</b>		
Drift Management Plan, New		5	
Emergency Plan, Fertilizer New		4	
Emergency Plan, Fertilizer Revised		1	
Emergency Plan, Manure Spill, New		3	
Emergency Plan, Manure Spill, Revised		2	
Emergency Plan, New, Silage		1	
Emergency Plan, Pesticide New		5	
Emergency Plan, Pesticide Revised		2	
Environmentally Sensitive Areas Identified	<b>4,460</b>		
Equipment, Parking and Storage		1	
Fertilizer, Determination of Rates		1	
Herbicide Setback Maintenance		1	
Impermeable Surface, Fuel		2	
Irrigation, Evaluation for Uniformity		1	
Irrigation, Record Keeping		2	
Isolation Distances Met		3	
Livestock Management, Recordkeeping		2	
Manure Application, Rate Determination		1	
Manure, Liquid Loss Through Tile Lines		1	
Manure, Management Records		3	
Manure, Nutrient Content Determination		1	
Nutrients, All Sources Considered		1	
Odor Management Plan		4	
Pesticide Spill Kit Availability		4	
Pesticides, Application Recordkeeping		4	
Pesticides, Container Handling		2	
Pesticides, Drift Management Plan, New		9	
Pesticides, Drift Management Plan, Revised		1	
Pesticides, Emergency Plan and Contacts		4	
Pesticides, Equipment Calibration		2	
Pesticides, Mixing and Loading In Field		1	
Pesticides, Toxicity Considered for Beneficial Insects		1	
Secondary Containment, Mix-Load		1	
Secondary Containment, Pesticides		1	
Soil Erosion Controlled	<b>2,150</b>		
Soil Testing, Triennial		14	
Soil, Nutrient Records	<b>4,824</b>		
Storage, Signage		4	
Storage, Spill Kit		2	
Surface Drains Present Around Farmstead		1	
Veterinary Product and Waste Disposal		1	
Waste, Floor Drains		2	
Water Use Reported		1	
Water, Protected From Pesticide Contamination		1	
Well Inspected		2	
Well Repaired to Standards		2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Well Tests, Every Three Years		11		
Well Tests, Health Standards		7		
<b>Cass</b>		<b>50,092</b>	<b>683</b>	<b>3,001,200</b>
104 Nutrient Management Plan - Written		5		
106 Forest Management Plan - Written		1		
108 Feed Management Plan - Written		3		
110 Grazing Management Plan - Written		5		
329 Residue and Tillage Management, No-Till		450		
340 Cover Crop		367		
351 Well Decommissioning		1		
472 Access Control		23		
490 Tree/Shrub Site Preparation		2		
528 Prescribed Grazing		23		
561 Heavy Use Area Protection		365		
590 Nutrient Management		360		
592 Feed Management		30		
Adequate Land Base for Nutrients		7		
Anti-Backflow Device Installed		12		
Backflow Prevention on Livestock Watering Systems		4		
BMPs Implemented To Protect Rare And Sensitive Species And Habitats		1		
Chemigation, Anti-backflow Device		3		
Conservation Practices Routinely Evaluated		5		
Corn Rotated Annually		5		
Cover Crop Use		450		
Crop Yields, Realistic Goals		6		
Current On Pest Management Practices		1		
Dead Animals Handled According to BODA		17		
Dead Animals, Composting Isolation Distance		3		
Dead Animals, Composting Process Follows BODA		3		
Dead Animals, Composting Recordkeeping Meets BODA Requirements		2		
Dead Animals, Composting Site Capacity Is Adequate		1		
Dead Animals, Proper Composting Site Selection		4		
Drift Management Plan, New		4		
Drift Management Plan, Revised		1		
Emergency Plan, Employee Training		1		
Emergency Plan, Fertilizer New		3		
Emergency Plan, Fertilizer Revised		1		
Emergency Plan, Manure Spill, New		14		
Emergency Plan, Manure Spill, Revised		3		
Emergency Plan, Pesticide New		3		
Environmentally Sensitive Areas Identified		12,483		
Erosion Controlled, Site		56		
Excess Product, Label Rates		1		
Farm Emergency Plan Developed and Followed, New		1		
Fertilizer Records Maintained		3		
Fertilizer, Application Equipment Calibration		5		
Fertilizer, Determination of Rates		11		

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Fertilizer, Rate Determination	605		
Food Safety Plan Written and Implemented	1		
Forestland Enrolled In Sustainable Forest Certification Program	1		
Forestry Management Plan , Revised	2		
Herbicide Setback Maintenance	1		
Hydrant MDEQ Approved	1		
Impermeable Surface, Fuel	16		
Invasive Species Identified And Managed	5		
Irrigation Discharge Managed	1		
Irrigation Records Maintained	2		
Irrigation, Drift and Off-Target Prevention	1		
Irrigation, Evaluation for Uniformity	1		
Irrigation, Rain Gauges in Fields	1		
Irrigation, Record Keeping	10		
Isolation Distances Met	25		
Land Management Plan, New	1		
Landowner Complies With Laws And Ordinances	6		
Landowner Enrolled in Programs Appropriate To Objectives	1		
Livestock Management, Anti-Backflow device installed	3		
Livestock Management, NMP	9		
Livestock Management, Recordkeeping	11		
Livestock Management, Siting	1		
Livestock Yard, Drainage Diversion	1		
Livestock Yard, Manure Scrape and Haul	4		
Livestock Yard, Runoff Management	3		
Livestock Yard, Surface Water Setback	1		
Management Activities Conform to Applicable Forest Land BMPs	1		
Management Activities Conform To GAFMPs	1		
Manure Application, Odor-Reduction Practices Used	1		
Manure Application, Ponding, Erosion, and Runoff Avoided	2		
Manure Application, Rate Determination	1		
Manure Storage, Capacity			3,000,000
Manure Storage, Farmstead Stacked, Odor and Pest Control	5		
Manure Storage, Isolation Distances Met	3		
Manure Storage, Liquid Storage Design and Installation	5		
Manure Storage, Liquid Storage, Nearby Area Maintained	1		
Manure Storage, Temporary Duration	4		
Manure Storage, Temporary Location	12		
Manure Storage, Temporary Stacked, Surface Water Setback	1		
Manure, Application Rates Do Not Exceed Crop N Needs	2,800		
Manure, Application Rates Do Not Exceed Crop P Needs	200		
Manure, Application to Avoid Ponding, Erosion, and Runoff	1		
Manure, Irrigation System Backflow Prevention	1		
Manure, Isolation Distances Met	2		
Manure, Management Records	7		
Manure, Nutrient Content Determination	7		
Manure, Odor Management	1		

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
N Fertilizer, Split/Multiple Applications	520		
No N Applications For Soybeans or Alfalfa	400		
No Restricted or Prohibited Species Present Without Permit		1	
Nutrient Management Plans, Annual	300		
Nutrient Management Plans, Annual By Field	3,150		
Nutrient Management Records, Multiple		2	
Nutrients, All Sources Considered		5	
Odor Management Plan		14	
Other Environmental Risks Resolved		3	
P Fertilizer, Rate Determination		3	
Pasture Management For Vegetation and Runoff		2	
Pasture Management, Manure Near Water Tanks/Feeders	150	7	
Pasture Management, Protecting Surface Water	15	1	
Pasture Management, Protection of Stream Banks and Surface Water		3	
Pasture Soil Tested	37	15	
Pastures Have Current Soil Tests	15	10	
Pest Management, Practices Current		1	
Pest Management, Reviews Previous Years Results		2	
Pesticide Drift Management Plan, New		1	
Pesticide Inventory Control		4	
Pesticide Spill Kit Availability		6	
Pesticides, Drift Management Plan, New		3	
Pesticides, Drift Management Plan, Revised		1	
Pesticides, Emergency Plan and Contacts		1	
Pesticides, Equipment Calibration		1	
Pesticides, Label Compliance		5	
Portion of Animal Feed Produced On Farm		5	
PPE Training And Maintenance		2	
Property Boundaries Known And Marked		1	
Required Regulatory Reporting and Recordkeeping Compliance		3	
Roof Runoff System In Place		1	
RTF Site Selection and Odor-Control GAAMPS Met		2	
Runoff/Sedimentation Controlled		2	
RUP Compliance		3	
Secondary Containment, Fertilizer		4	
Secondary Containment, Mix-Load		1	
Secondary Containment, Operational Pad		1	
Secondary Containment, Pesticides		5	
Septic, Isolation Distances Met		1	
Septic, Pumping		1	
Soil and/or Tissue Testing, Quadrennial	305		
Soil Erosion Controlled	12,237		
Soil Quality Indicators Evaluated	10	3	
Soil Testing, Representative Sampling	475	11	
Soil Testing, Triennial	223	44	
Soil, Nutrient Records	14,041		
Soil, pH Maintenance	0		

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Special Sites Protected			1	
Storage, Appropriate Tanks			12	
Storage, Decommissioned			1	
Storage, Dedicated			1	
Storage, Fertilizer Liquid				1,200
Storage, Monitored for Leaks			3	
Storage, Security			1	
Storage, Shelving			3	
Storage, Signage			8	
Storage, Spill Kit			5	
Storage, Spill Protection			2	
Storage, Valves and Hoses			8	
Surface Drains Present Around Farmstead			3	
Sustainable Soil And Water Quality Practices Followed			1	
Veterinary Product and Waste Disposal			11	
Waste, Floor Drains			5	
Waste, Isolation Distances Met			1	
Waste, Recycling and Disposal			12	
Water Management, Wastewater			1	
Water Source, Appropriate			1	
Water Use Reported			8	
Well Construction			1	
Well Decommissioned			10	
Well Inspected			14	
Well Repaired to Standards			14	
Well Setback, Manure Sources			2	
Well Tests, Every Three Years			28	
Well Tests, Health Standards			38	
Worker Notification			1	
Worker Protection Standards Met			1	
<b>Charlevoix</b>		<b>165</b>	<b>86</b>	
Anti-Backflow Device Installed			4	
Containers, Properly Rinsed			2	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Manure Spill, Revised			2	
Emergency Plan, Pesticide New			3	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		<b>130</b>		
Excess Product, Label Rates			1	
Impermeable Surface, Fuel			1	
Irrigation, Record Keeping			1	
Isolation Distances Met			6	
Livestock Management, Recordkeeping			2	
Manure Storage, Temporary Location			2	
Manure, Management Records			2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Nutrient Management Records, Multiple			1	
Odor Management Plan			1	
Pasture Soil Tested			3	
Pastures Have Current Soil Tests			2	
Pesticide Drift Management Plan, New			1	
Pesticide Handling, Field Mixing and Loading			1	
Pesticide Spill Kit Availability			3	
Pesticides, Application Recordkeeping			1	
Pesticides, Container Handling			3	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			1	
Pesticides, Excess Spray Mixture Use			1	
Pesticides, Label Compliance			1	
Pesticides, Mixing and Loading In Field			2	
Pesticides, Rinsate Disposal			1	
Rinsate, Label Rates			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			1	
Soil and/or Tissue Testing, Quadrennial		4		
Soil Testing, Triennial			6	
Soil, Nutrient Records		31		
Storage, Security			1	
Storage, Signage			1	
Storage, Spill Kit			2	
Veterinary Product and Waste Disposal			1	
Waste, Isolation Distances Met			1	
Water, Protected From Pesticide Contamination			1	
Well Tests, Every Three Years			15	
<b>Cheboygan</b>		160	82	
Anti-Backflow Device Installed			5	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			2	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Manure Spill, Revised			1	
Excess Product, Label Rates			1	
Fertilizer, Determination of Rates			1	
Isolation Distances Met			1	
Livestock Management, Anti-Backflow device installed			2	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			2	
Manure Application, Rate Determination			2	
Manure Applications, Weather Forecasts Monitored			1	
Manure Storage, Temporary Duration			2	
Manure Storage, Temporary Location			4	
Manure, Isolation Distances Met			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Milking Center, Parlor Cleanup Practices			1	
Milking Center, Septic System Management			1	
Milking Center, Septic Treatment			1	
Milking Center, Wastewater Collection and Storage			1	
Nutrient Management Plans, Annual By Field		80		
Nutrients, All Sources Considered			1	
Pasture Management For Vegetation and Runoff			2	
Pasture Management, Manure Near Water Tanks/Feeders			2	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			2	
Pesticides, Container Handling			1	
Pesticides, Excess Spray Mixture Use			1	
Pesticides, Mixing and Loading In Field			1	
Rejected Milk Collection and Storage			1	
Secondary Containment, Mix-Load			1	
Septic, Designed Use			2	
Soil Testing, Representative Sampling			2	
Soil Testing, Triennial			4	
Soil, Nutrient Records		80		
Storage, Appropriate Tanks			1	
Storage, Monitored for Leaks			1	
Storage, Valves and Hoses			1	
Veterinary Product and Waste Disposal			2	
Well Tests, Every Three Years			18	
Well Tests, Health Standards			2	
<b>Chippewa</b>		<b>9,200</b>	<b>670</b>	
Adequate Land Base for Nutrients			2	
Anti-Backflow Device Installed			6	
Chemigation, Anti-backflow Device			1	
Containers, Properly Rinsed			5	
Crop Yields, Realistic Goals			4	
Dead Animals Handled According to BODA			19	
Dead Animals, Composting Isolation Distance			1	
Dead Animals, Composting Process Follows BODA			1	
Dead Animals, Composting Recordkeeping Meets BODA Requirements			7	
Dead Animals: Composting Process Properly Managed			1	
Drift Management Plan, New			8	
Emergency Plan, Fertilizer New			16	
Emergency Plan, Fertilizer Revised			2	
Emergency Plan, Manure Spill, New			27	
Emergency Plan, Manure Spill, Revised			9	
Emergency Plan, New, Silage			1	
Emergency Plan, Pesticide New			11	
Emergency Plan, Pesticide Revised			3	
Environmentally Sensitive Areas Identified		5,152		
Erosion Controlled, Site		6		
Excess Product, Label Rates			1	



FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Farm Emergency Plan Developed and Followed, New			1	
Fertilizer, Determination of Rates			3	
Fertilizer, Rate Determination		18		
Food Safety Program Written and Implemented			1	
Forest Roads Established And Maintained To Avoid Erosion			4	
Impermeable Surface, Fuel			2	
IPM Used To Control Pests			1	
Irrigation, Amount Determined Accurately			3	
Irrigation, Evaluation for Uniformity			2	
Irrigation, Rain Gauges in Fields			9	
Irrigation, Record Keeping			4	
Isolation Distances Met			12	
Livestock Management, Anti-Backflow device installed			4	
Livestock Management, NMP			5	
Livestock Management, Recordkeeping			26	
Livestock Management, Runoff Management			3	
Livestock Management, Siting			1	
Livestock Yard, Drainage Diversion			5	
Livestock Yard, Manure Scrape and Haul			1	
Livestock Yard, Runoff Management			2	
LMP Includes Landowner Objectives			1	
Manure Application, Procedure		6		
Manure Storage, Bedded Design and Construction			1	
Manure Storage, Design and Construction			2	
Manure Storage, Farmstead Stacked, Odor and Pest Control			1	
Manure Storage, Isolation Distances Met			1	
Manure Storage, Temporary Duration			3	
Manure Storage, Temporary Location			8	
Manure Storage, Temporary Stacked, Odor and Pest Control			1	
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Manure, Designed Use			1	
Manure, Isolation Distances Met			1	
Manure, Management Records			15	
Manure, Nutrient Content Determination			8	
Manure, Odor Management			3	
Mix-Load, Filling Monitored			1	
Nutrient Management Plans, Annual		17		
Nutrient Management Plans, Annual By Field		21		
Nutrient Management Records, Multiple			2	
Nutrients, All Sources Considered			3	
Odor Management Plan			29	
Other Environmental Risks Resolved			3	
P Fertilizer, Rate Determination			4	
Pasture Management For Vegetation and Runoff			1	
Pasture Management, Manure Near Water Tanks/Feeders			3	
Pasture Management, Protection of Stream Banks and Surface Water			2	
Pasture Soil Tested		232	11	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Pastures Have Current Soil Tests		572	9	
Pesticide Application, Recordkeeping			1	
Pesticide Drift Management Plan, New			1	
Pesticide Spill Kit Availability			6	
Pesticides, Application Recordkeeping			5	
Pesticides, Container Handling			6	
Pesticides, Drift Management Plan, New			7	
Pesticides, Emergency Plan and Contacts			3	
Pesticides, Equipment Calibration			1	
Pesticides, Excess Spray Mixture Use			2	
Pesticides, Label Compliance			1	
Pesticides, Mixing and Loading In Field			2	
Pesticides, Rinsate Disposal			2	
Precipitation Leading to Contaminated Run-Off			3	
Rinsate, Label Rates			1	
Secondary Containment, Fertilizer			1	
Secondary Containment, Fuel			2	
Secondary Containment, Mix-Load			2	
Secondary Containment, Pesticides			1	
Septic, Pumping			5	
Soil and/or Tissue Testing, Quadrennial		17		
Soil Testing, Representative Sampling		29	31	
Soil Testing, Triennial		789	44	
Soil, Nutrient Records		2,341		
Storage, Appropriate Tanks			2	
Storage, Dedicated			1	
Storage, Designed Use			1	
Storage, Monitored for Leaks			1	
Storage, Portable Fueling			2	
Storage, Security			1	
Storage, Signage			8	
Storage, Spill Kit			8	
Storage, Valves and Hoses			1	
Veterinary Product and Waste Disposal			21	
Waste, Ash Disposal			4	
Waste, Farm Dump			3	
Waste, Floor Drains			13	
Waste, Isolation Distances Met			4	
Waste, Recycling and Disposal			73	
Well Decommissioned			2	
Well Repaired to Standards			5	
Well Tests, Every Three Years			33	
Well Tests, Health Standards			31	
<b>Clare</b>			16	
Drift Management Plan, New			1	
Emergency Plan, Manure Spill, Revised			1	
Land Management Plan, New			2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented by County	Acres	Each	Gallon
LMP Allows for Active and Adaptive Management		1	
LMP Prepared By Professional Natural Resource Manager		1	
Pasture Soil Tested		1	
Pastures Have Current Soil Tests		1	
Runoff/Sedimentation Controlled		1	
Soil Testing, Triennial		2	
Storage, Dedicated		2	
Well Tests, Every Three Years		2	
Well Tests, Health Standards		1	
Clinton	37,618	317	2,446,267
378 Pond		1	
Adequate Land Base for Nutrients		4	
Adverse Impact To Endangered And Threatened Species Avoided		1	
All Habitat Types Identified and Mapped In LMP		1	
Anti-Backflow Device Installed		1	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats		2	
Chemigation, Anti-backflow Device		0	
Containers, Properly Rinsed		2	
Dead Animals Handled According to BODA		12	
Drift Management Plan, New		6	
Drift Management Plan, Revised		3	
Emergency Plan, Employee Training		1	
Emergency Plan, Fertilizer New		6	
Emergency Plan, Fertilizer Revised		6	
Emergency Plan, Manure Spill, New		9	
Emergency Plan, Manure Spill, Revised		3	
Emergency Plan, New, Silage		5	
Emergency Plan, New, Tire Fire		1	
Emergency Plan, Pesticide New		6	
Emergency Plan, Pesticide Revised		7	
Emergency Plan, Revised, Silage		2	
Emergency Plan, Revised, Tire Fire		1	
Environmentally Sensitive Areas Identified	25,252		
Erosion Controlled, Site	12		
Fertilizer, Application Equipment Calibration		2	
Fertilizer, Determination of Rates		1	
Impermeable Surface, Fuel		5	
Invasive Species Identified And Managed		1	
Irrigation Records Maintained		1	
Irrigation, Amount Determined Accurately		1	
Irrigation, Anti-backflow Device Separating Groundwater and Surface Water		1	
Irrigation, Evaluation for Uniformity		1	
Irrigation, Excessive Applications Avoided		0	
Irrigation, Rain Gauges in Fields		1	
Irrigation, Record Keeping		3	
Isolation Distances Met		7	
Land Management Plan, New		2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Large Quantity Water Withdrawal Registered			1	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			3	
Livestock Management, Runoff Management			1	
Livestock Management, Siting			3	
Livestock Yard, Drainage Diversion			1	
Livestock Yard, Runoff Management			4	
Livestock Yard, Surface Water Setback			2	
LMP Allows for Active and Adaptive Management			1	
LMP Identifies All Resource Concerns			1	
LMP Includes Details of Desired Future Conditions			2	
LMP Includes Landowner Objectives			1	
LMP Prepared By Professional Natural Resource Manager			1	
Manure Application, Compatible With Soils			4	
Manure Application, MARI Completed		1,655	2	
Manure Application, Odor-Reduction Practices Used			1	
Manure Application, Ponding, Erosion, and Runoff Avoided			1	
Manure Application, Rate Determination			6	
Manure Application, Rates Do Not Exceed Crop N Needs			1	
Manure Application, Rates Do Not Exceed Crop P Needs			2	
Manure Application, Runoff Prevention		360		
Manure Applications, Weather Forecasts Monitored			1	
Manure Storage, Capacity				2,446,147
Manure Storage, Designed Use			1	
Manure Storage, Farmstead Stacked, Odor and Pest Control			1	
Manure Storage, Isolation Distances Met			2	
Manure Storage, Liquid Storage Design and Installation			1	
Manure Storage, Liquid Storage Freeboard Maintained			3	
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Location			3	
Manure, Application Rates Do Not Exceed Crop P Needs		621		
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Manure, Management Records			4	
Manure, Odor Management			1	
Manure, Winter Application Procedure		1,896		
Nutrient Management Plans, Annual By Field		1,399		
Nutrients, All Sources Considered			1	
Odor Management Plan			14	
P Fertilizer, Rate Determination		39	3	
Pasture Management For Vegetation and Runoff			1	
Pasture Management, Manure Near Water Tanks/Feeders			1	
Pasture Soil Tested		6		
Pastures Have Current Soil Tests			3	
Pesticide Drift Management Plan, New			1	
Pesticide Spill Kit Availability			8	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			6	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Pesticides, Drift Management Plan, Revised			6	
Pesticides, Emergency Plan and Contacts			5	
Pesticides, Equipment Calibration			6	
Precipitation Leading to Contaminated Run-Off			2	
Required Regulatory Reporting and Recordkeeping Compliance			4	
RTF Site Selection and Odor-Control GAAMPS Met			3	
Secondary Containment, Fuel			3	
Secondary Containment, Mix-Load			2	
Secondary Containment, Pesticides			2	
Silage, Leachate Collection/Treatment				20
Soil Erosion Controlled		6,380		
Soil Testing, Triennial			12	
Special Sites Protected			1	
Storage, Appropriate Tanks			2	
Storage, Decommissioned			2	
Storage, Security			3	
Storage, Signage			5	
Storage, Spill Kit			7	
Storage, Spill Protection			6	
Veterinary Product and Waste Disposal			5	
Waste, Floor Drains			2	
Waste, Isolation Distances Met			2	
Waste, Recycling and Disposal			5	
Water Bodies Identified And Riparian Management Zones Established			1	
Water Management, Wastewater				100
Water Use Reported			1	
Well Decommissioned			1	
Well Repaired to Standards			3	
Well Tests, Every Three Years			17	
Well Tests, Health Standards			6	
<b>Crawford</b>		<b>210</b>	<b>47</b>	
Dead Animals Handled According to BODA			1	
Emergency Plan, Manure Spill, New			4	
Environmentally Sensitive Areas Identified		90		
Impermeable Surface, Fuel			1	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			3	
Livestock Management, Siting			1	
Manure Application, Odor-Reduction Practices Used			1	
Manure Application, Rate Determination			1	
Manure Storage, Temporary Duration			5	
Manure Storage, Temporary Location			1	
Manure, Management Records			2	
Manure, Nutrient Content Determination			4	
Nutrients, All Sources Considered			1	
Odor Management Plan			4	
Pasture Soil Tested			3	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Pastures Have Current Soil Tests			2	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Soil Testing, Triennial			4	
Soil, Nutrient Records		120		
Waste, Floor Drains			1	
Well Tests, Every Three Years			4	
Well Tests, Health Standards			2	
<b>Delta</b>		<b>4,234</b>	<b>386</b>	
Adverse Impact To Endangered And Threatened Species Avoided			13	
All Habitat Types Identified and Mapped In LMP			14	
Appropriate Records For Forest Product Harvests And Other Management Activities			3	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats			3	
Dead Animals Handled According to BODA			12	
Drift Management Plan, New			1	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			3	
Emergency Plan, Fertilizer Revised			5	
Emergency Plan, Manure Spill, New			7	
Emergency Plan, Manure Spill, Revised			10	
Emergency Plan, Pesticide New			3	
Emergency Plan, Pesticide Revised			5	
Environmentally Sensitive Areas Identified		578		
Fertilizer, Determination of Rates			1	
Forest Roads Established And Maintained To Avoid Erosion			1	
Forestation Achieves Adequate Stocking Levels			1	
Forestland Enrolled In Sustainable Forest Certification Program			5	
Harvest Plan Map Used For Harvest			3	
Irrigation, Evaluation for Uniformity			5	
Irrigation, Record Keeping			5	
Land Management Plan, New			16	
Land Units Evaluated For Stocking Levels of Desired Species			1	
Landowner Complies With Laws And Ordinances			3	
Landowner Enrolled in Programs Appropriate To Objectives			6	
Landowner Minimizes Impact To Cultural Sites and Works With SHPO As Needed			4	
Landowner Uses Natural Resource Professionals For Services			5	
Landowner Uses Professionals With Insurance and That Comply With Federal, State, and Local Regulations			7	
Livestock Management, Recordkeeping			13	
LMP Allows for Active and Adaptive Management			18	
LMP Identifies All Resource Concerns			3	
LMP Identifies Special Sites and Contains Activities to Maintain Them			2	
LMP Includes Details of Desired Future Conditions			1	
LMP Includes Landowner Objectives			17	
LMP Prepared By Professional Natural Resource Manager			15	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Manage Visual Impacts Of Forest Management Using Visual Quality Criteria In RTF GAFMPs			1	
Management Activities Conform to Applicable Forest Land BMPs			3	
Management Activities Conform To GAFMPs			12	
Manure Application, Rate Determination			4	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Management Records			6	
Manure, Nutrient Content Determination			3	
Nutrient Management Plans, Annual By Field		1,410		
Odor Management Plan			1	
Other Environmental Risks Resolved			2	
Owner Monitors Harvests to Ensure Conformance With LMP			4	
Pasture Management, Protection of Stream Banks and Surface Water			1	
Pasture Soil Tested			9	
Pastures Have Current Soil Tests			7	
Pesticide Spill Kit Availability			1	
Pesticides Used And Stored According To EPA, SSWQPs			2	
Pesticides, Application Recordkeeping			6	
Pesticides, Drift Management Plan, New			1	
Pesticides, Drift Management Plan, Revised			1	
Potential Conflict Between Timber Management And Habitat Development Resolved			15	
Site Monitored Annually For Changes			6	
Soil Testing, Triennial			20	
Soil, Nutrient Records		2,246		
Special Sites Protected			6	
Storage, Dedicated			1	
Storage, Signage			1	
Storage, Spill Kit			1	
Sustainable Soil And Water Quality Practices Followed			3	
Timber Harvesting Conducted According To FMP			4	
Timber Sale Contract Prepared By Professional Forester			7	
Veterinary Product and Waste Disposal			5	
Visual Sensitivity Of The Site Has Been Assessed			1	
Waste, Floor Drains			1	
Waste, Isolation Distances Met			1	
Well Tests, Every Three Years			19	
Well Tests, Health Standards			18	
<b>Dickinson</b>		50	5	
Environmentally Sensitive Areas Identified		50		
Well Tests, Every Three Years			2	
Well Tests, Health Standards			3	
<b>Eaton</b>		2,508	121	
Adequate Land Base for Nutrients			1	
Appropriate Records For Forest Product Harvests And Other Management Activities			1	
Containers, Properly Rinsed			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Dead Animals Handled According to BODA			2	
Drift Management Plan, New			2	
Emergency Plan, Manure Spill, New			5	
Emergency Plan, Pesticide New			2	
Emergency Plan, Spill Control and Counter-measure			1	
Environmentally Sensitive Areas Identified		2,087		
Farm Emergency Plan Developed and Followed, New			1	
Fertilizer Records Maintained			1	
Impermeable Surface, Fuel			5	
Invasive Species Identified And Managed			1	
Irrigation, Record Keeping			1	
Isolation Distances Met			2	
Livestock Management, Recordkeeping			4	
Livestock Yard, Manure Scrape and Haul			1	
Livestock Yard, Runoff Management			1	
Manure Application, MARI Completed			1	
Manure Application, Rate Determination			3	
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Location			4	
Manure Storage, Temporary Stacked, Surface Water Setback			2	
Manure, Management Records			3	
Manure, Nutrient Content Determination			8	
Manure, Winter Application Procedure		72		
Nutrient Management Plans, Annual		1		
Nutrient Management Records, Multiple			1	
Odor Management Plan			6	
Pasture Management For Vegetation and Runoff			1	
Pasture Management, Protection of Stream Banks and Surface Water			1	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			5	
Pesticide Application, Recordkeeping			1	
Pesticide Drift Management Plan, New			1	
Pesticide Handling, Field Mixing and Loading			1	
Pesticides, Drift Management Plan, New			2	
Pesticides, Emergency Plan and Contacts			1	
Potential Conflict Between Timber Management And Habitat Development Resolved			1	
Secondary Containment, Mix-Load			2	
Soil Erosion Controlled		308		
Soil Testing, Triennial			8	
Soil, Nutrient Records		40		
Storage, Appropriate Tanks			1	
Storage, Signage			2	
Storage, Spill Kit			2	
Timber Harvesting Conducted According To FMP			1	
Veterinary Product and Waste Disposal			3	
Waste, Floor Drains			1	



FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Waste, Isolation Distances Met			2	
Waste, Recycling and Disposal			2	
Well Tests, Every Three Years			14	
Well Tests, Health Standards			7	
<b>Emmet</b>		<b>155</b>	<b>71</b>	
Anti-Backflow Device Installed			7	
Containers, Properly Rinsed			3	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		<b>40</b>		
Excess Product, Label Rates			4	
Farm Emergency Plan Developed and Followed, New			2	
Isolation Distances Met			5	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			1	
Manure Storage, Temporary Duration			2	
Manure Storage, Temporary Location			2	
Mix-Load, Filling Monitored			1	
Mix-Load, Measuring Devices			1	
Nutrient Management Records, Multiple			1	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			1	
Pesticide Application, Recordkeeping			1	
Pesticide Drift Management Plan, New			1	
Pesticide Mixture, Disposal of Excess			3	
Pesticide Rinsate, Proper Handling			1	
Pesticides, Container Handling			5	
Pesticides, Excess Spray Mixture Use			2	
Pesticides, Rinsate Disposal			1	
Rinsate, Label Rates			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			1	
Soil and/or Tissue Testing, Quadrennial		<b>15</b>		
Soil Erosion Controlled		<b>100</b>		
Soil Testing, Triennial			3	
Storage, Isolated From Other Products			2	
Storage, Regular Inspection			1	
Storage, Security			1	
Storage, Signage			1	
Veterinary Product and Waste Disposal			2	
Water, Protected From Pesticide Contamination			1	
Well Tests, Every Three Years			7	
Well Tests, Health Standards			1	
<b>Genesee</b>		<b>15,240</b>	<b>149</b>	
Crop Yields, Realistic Goals			4	
Dead Animals Handled According to BODA			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Drift Management Plan, New			2	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Fertilizer Revised			2	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Manure Spill, Revised			4	
Emergency Plan, Pesticide New			3	
Emergency Plan, Pesticide Revised			3	
Emergency Plan, Revised, Silage			2	
Environmentally Sensitive Areas Identified		15,065		
Fertilizer, Determination of Rates			1	
Impermeable Surface, Fuel			3	
Irrigation, Amount Determined Accurately			4	
Irrigation, Record Keeping			5	
Landowner Complies With Laws And Ordinances			3	
Livestock Management, Anti-Backflow device installed			4	
Livestock Management, Recordkeeping			2	
Manure Application, MARI Completed			1	
Manure Application, Rate Determination			9	
Manure Application, Rates Do Not Exceed Crop P Needs			1	
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Application Rates Do Not Exceed Crop N Needs		0		
Manure, Application Rates Do Not Exceed Crop P Needs		1		
Manure, Management Records			3	
Manure, Nutrient Content Determination			4	
Manure, Winter Application Procedure		118		
Nutrient Management Plans, Annual		27		
Nutrient Management Plans, Annual By Field		1		
Odor Management Plan			6	
P Fertilizer, Rate Determination			5	
Pasture Soil Tested			2	
Pastures Have Current Soil Tests		8	2	
Pesticide Application, Recordkeeping			1	
Pesticide Drift Management Plan, New			1	
Pesticide Spill Kit Availability			3	
Pesticides, Application Recordkeeping			3	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			2	
Pesticides, Mixing and Loading In Field			1	
Secondary Containment, Fuel			4	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			3	
Soil Erosion Controlled		10		
Soil Testing, Triennial		8	10	
Soil, Nutrient Records		1		
Storage, Buildings Setback			3	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Storage, Monitored for Leaks			1	
Storage, Security			4	
Storage, Signage			3	
Storage, Spill Kit			4	
Well Repaired to Standards			1	
Well Tests, Every Three Years			17	
Well Tests, Health Standards			5	
<b>Gladwin</b>		<b>888</b>	<b>43</b>	
Adequate Land Base for Nutrients			2	
Conservation Practices Routinely Evaluated			1	
Dead Animals Handled According to BODA			3	
Emergency Plan, Manure Spill, New			3	
Environmentally Sensitive Areas Identified		<b>288</b>		
Impermeable Surface, Fuel			1	
Livestock Management, NMP			3	
Livestock Management, Recordkeeping			2	
Livestock Yard, Manure Scrape and Haul			2	
Livestock Yard, Runoff Management			2	
Manure Application, MARI Completed			2	
Manure Application, Rate Determination			1	
Manure Application, Runoff Prevention		<b>200</b>		
Manure Storage, Bedded Design and Construction			1	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Location			1	
Manure Storage, Temporary Stacked, Odor and Pest Control			1	
Manure, Management Records			1	
Manure, Winter Application Procedure		<b>200</b>		
Nutrient Management Plans, Annual By Field		<b>200</b>		
Odor Management Plan			2	
Other Environmental Risks Resolved			1	
Pasture Management For Vegetation and Runoff			1	
Pasture Management, Manure Near Water Tanks/Feeders			2	
Pasture Management, Protecting Surface Water			1	
Pasture Soil Tested			1	
Pesticide Spill Kit Availability			1	
Soil Testing, Triennial			3	
Veterinary Product and Waste Disposal			1	
Well Tests, Every Three Years			2	
<b>Gogebic</b>		<b>300</b>	<b>3</b>	
Environmentally Sensitive Areas Identified		<b>300</b>		
Pasture Soil Tested			3	
<b>Grand Traverse</b>		<b>1,768</b>	<b>291</b>	
Anti-Backflow Device Installed			4	
Chemigation, Pesticide/Fertilizer Setback			1	
Drift Management Plan, New			11	
Drift Management Plan, Revised			4	

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Emergency Plan, Fertilizer New		5	
Emergency Plan, Fertilizer Revised		3	
Emergency Plan, Pesticide New		18	
Emergency Plan, Pesticide Revised		6	
Environmentally Sensitive Areas Identified	1,605		
Equipment, Parking and Storage		2	
Equipment, Properly Cleaned and Rinsed		1	
Erosion Controlled, Site	1		
Fertilizer, Rate Determination	6		
Impermeable Surface, Fuel		6	
Irrigation Records Maintained		1	
Irrigation, Amount Determined Accurately		5	
Irrigation, Rain Gauges in Fields		9	
Irrigation, Record Keeping		10	
Irrigation, Scheduling		1	
Irrigation, System Evaluation		1	
Isolation Distances Met		14	
Livestock Management, NMP		1	
Livestock Yard, Drainage Diversion		1	
Livestock Yard, Floor		1	
Livestock Yard, Manure Scrape and Haul		1	
Manure Application, Rate Determination		1	
Manure Storage, Design and Construction		1	
Manure Storage, Field Stacked Duration		1	
Manure, Application Rate Determination	2		
Manure, Management Records		7	
Manure, N Application Rates	2		
Manure, P Application Rates	2		
Nutrient Management Records, Multiple		7	
Odor Management Plan		1	
P Fertilizer, Rate Determination		1	
Pasture Soil Tested		1	
Pesticide Drift Management Plan, New		8	
Pesticide Drift Management Plan, Revised		2	
Pesticide Handling, Field Mixing and Loading		5	
Pesticide Mixture, Disposal of Excess		1	
Pesticide Rinsate, Proper Handling		3	
Pesticide Spill Kit Availability		16	
Pesticides, Application Recordkeeping		3	
Pesticides, Container Handling		1	
Pesticides, Drift Management Plan, New		2	
Pesticides, Equipment Calibration		2	
Pesticides, Excess Spray Mixture Use		1	
Pesticides, Mixing and Loading In Field		1	
Required Regulatory Reporting and Recordkeeping Compliance		20	
Rinsate, Label Rates		1	
RUP Compliance		1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Safety Data Sheets Available On-Site			1	
Secondary Containment, Fertilizer			2	
Secondary Containment, Mix-Load			13	
Secondary Containment, Operational Pad			1	
Secondary Containment, Pesticides			5	
Soil and/or Tissue Testing, Quadrennial		138		
Soil Testing, Triennial			1	
Soil, Nutrient Records		11		
Storage, Application Equipment			1	
Storage, Appropriate Tanks			1	
Storage, Designed Use			1	
Storage, Isolated From Other Products			1	
Storage, Labeled Containers			1	
Storage, Security			5	
Storage, Signage			11	
Storage, Spill Kit			17	
Storage, Valves and Hoses			1	
Waste, Floor Drains			2	
Waste, Isolation Distances Met			1	
Waste, Recycling and Disposal			5	
Water Use Reported			1	
Well Decommissioned			1	
Well Repaired to Standards			2	
Well Tests, Every Three Years			15	
Well Tests, Health Standards			9	
<b>Gratiot</b>		<b>24,057</b>	<b>140</b>	
Adequate Land Base for Nutrients			1	
All Other Habitats Enrolled In Long-Term Or Permanent Conservation Programs			1	
Anti-Backflow Device Installed			1	
Backflow Prevention on Livestock Watering Systems			2	
Crop Yields, Realistic Goals			1	
Drift Management Plan, New			2	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Fertilizer Revised			2	
Emergency Plan, Manure Spill, New			4	
Emergency Plan, Pesticide New			8	
Emergency Plan, Pesticide Revised			2	
Emergency Plan, Spill Control and Counter-measure			1	
Environmentally Sensitive Areas Identified		9,588		
Excess Product, Label Rates			1	
Fertilizer, Determination of Rates			1	
Fertilizer, Rate Determination		30		
Impermeable Surface, Fuel			6	
Isolation Distances Met			2	
Livestock Management, Anti-Backflow device installed			2	
Livestock Management, NMP			2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Livestock Management, Recordkeeping			5	
Livestock Management, Runoff Management			3	
Manure Application, Rate Determination			2	
Manure, Application Rates Do Not Exceed Crop N Needs		5		
Manure, Management Records			2	
Manure, Nutrient Content Determination			3	
Nutrient Management Plans, Annual By Field		60		
Nutrient Management Records, Multiple			1	
Nutrients, All Sources Considered			1	
Odor Management Plan			3	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			3	
Pesticide Spill Kit Availability			2	
Pesticides, Drift Management Plan, New			5	
Property Boundaries Known And Marked			1	
Rinsate, Label Rates			1	
Secondary Containment, Fuel			1	
Secondary Containment, Mix-Load			2	
Secondary Containment, Pesticides			2	
Soil and/or Tissue Testing, Quadrennial		30		
Soil Erosion Controlled		14,198		
Soil Testing, Representative Sampling			3	
Soil Testing, Triennial			6	
Soil, Nutrient Records		65		
Soil, pH Maintenance		79		
Sprayer, Cleaning Water Collected			1	
Storage, Appropriate Tanks			1	
Storage, Elevation			1	
Storage, Security			1	
Storage, Signage			4	
Storage, Spill Kit			4	
Storage, Spill Protection			2	
Waste, Floor Drains			4	
Waste, Isolation Distances Met			1	
Well Tests, Every Three Years			17	
Well Tests, Health Standards			16	
Wetlands And Water Bodies Protected From Pollution And Sedimentation		3		
<b>Hillsdale</b>		<b>52,646</b>	<b>175</b>	<b>5,000</b>
Adequate Land Base for Nutrients			6	
Dead Animals Handled According to BODA			2	
Dead Animals, Composting Recordkeeping Meets BODA Requirements			1	
Dead Animals, Proper Composting Site Selection			1	
Drift Management Plan, New			5	
Drift Management Plan, Revised			1	
Emergency Plan, Employee Training			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Fertilizer Revised			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Emergency Plan, Manure Spill, New			7	
Emergency Plan, Manure Spill, Revised			3	
Emergency Plan, Pesticide New			4	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		34,136		
Impermeable Surface, Fuel			5	
Irrigation, Anti-backflow Device Separating Groundwater and Surface Water			1	
Irrigation, Rain Gauges in Fields		6	4	
Irrigation, Record Keeping			1	
Land Management Plan, New			1	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			2	
Livestock Management, Runoff Management			1	
Livestock Management, Siting			1	
Manure Application, MARI Completed		110	1	
Manure Application, Rate Determination			1	
Manure Storage, Clean Water Diverted			1	
Manure Storage, Designed Use			1	
Manure Storage, Isolation Distances Met			1	
Manure Storage, Liquid Storage Freeboard Maintained			2	
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Manure, Management Records			2	
Manure, Nutrient Content Determination			15	
Manure, Winter Application Procedure		605		
Nutrient Management Plans, Annual By Field		285		
Nutrients, All Sources Considered		177		
Odor Management Plan			12	
P Fertilizer, Rate Determination		285		
Pasture Management, Protecting Surface Water			1	
Pasture Soil Tested		71	4	
Pastures Have Current Soil Tests		159	1	
Pesticide Drift Management Plan, Revised			1	
Pesticide Spill Kit Availability			4	
Pesticides, Application Recordkeeping			2	
Pesticides, Drift Management Plan, New			4	
Pesticides, Drift Management Plan, Revised			3	
Pesticides, Emergency Plan and Contacts			3	
RTF Site Selection and Odor-Control GAAMPS Met			3	
Secondary Containment, Mix-Load			1	
Soil Erosion Controlled		10,840		
Soil Testing, Representative Sampling		482		
Soil Testing, Triennial		3,475	1	
Soil, Nutrient Records		2,016		
Storage, Elevation			1	
Storage, Fertilizer Liquid				5,000
Storage, Signage			3	
Storage, Spill Kit			8	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Veterinary Product and Waste Disposal			2	
Waste, Floor Drains			3	
Waste, Recycling and Disposal			1	
Well Repaired to Standards			1	
Well Tests, Every Three Years			25	
Well Tests, Health Standards			15	
<b>Houghton</b>		<b>4</b>	<b>24</b>	
Cover Crop Use		<b>0</b>		
Environmentally Sensitive Areas Identified		<b>2</b>		
IPM Consultant, University, Other Reliable Source			4	
IPM Scouting Weekly			3	
Irrigation, Record Keeping			3	
Irrigation, Scheduling			4	
Nutrients, All Sources Considered			4	
Pesticides, Application Recordkeeping			2	
Soil Erosion Controlled		<b>1</b>		
Soil Testing, Triennial			4	
Soil, Nutrient Records		<b>1</b>		
<b>Huron</b>		<b>31,824</b>	<b>172</b>	
Adequate Land Base for Nutrients			1	
Anti-Backflow Device Installed			6	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			1	
Dead Animals: Composting Process Properly Managed			2	
Drift Management Plan, New			6	
Emergency Plan, Fertilizer New			5	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, New, Silage			4	
Emergency Plan, New, Tire Fire			1	
Emergency Plan, Pesticide New			7	
Emergency Plan, Revised, Tire Fire			1	
Environmentally Sensitive Areas Identified		<b>3,300</b>		
Equipment, Parking and Storage			6	
Fertilizer, Determination of Rates			6	
Hydrant MDEQ Approved			1	
Impermeable Surface, Fuel			1	
Irrigation, Record Keeping			1	
Isolation Distances Met			5	
Livestock Management, Recordkeeping			2	
Livestock Management, Runoff Management			1	
Manure Application, MARI Completed			6	
Manure Application, Rate Determination			1	
Manure Application, Runoff Prevention		<b>2,260</b>		
Manure Storage, Liquid Storage Design and Installation			1	
Manure Storage, Liquid Storage Freeboard Maintained			1	
Manure, Liquid Loss Through Tile Lines		<b>160</b>		
Manure, Management Records			5	



FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Manure, Winter Application Procedure		2,225		
Nutrient Management Plans, Annual By Field		2,260		
Nutrients, All Sources Considered			1	
Odor Management Plan			2	
P Fertilizer, Rate Determination			1	
Pasture Soil Tested			1	
Pesticide Spill Kit Availability			11	
Pesticides, Application Recordkeeping			6	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			13	
Pesticides, Label Compliance			1	
Pesticides, Rinsate Disposal			1	
Precipitation Leading to Contaminated Run-Off			4	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Septic, Designed Use			1	
Soil Erosion Controlled		20,421		
Soil Testing, Triennial		72	1	
Soil, Nutrient Records		1,126		
Storage, Appropriate Tanks			1	
Storage, Signage			9	
Storage, Spill Kit			7	
Veterinary Product and Waste Disposal			1	
Waste, Floor Drains			4	
Waste, Isolation Distances Met			1	
Water, Protected From Pesticide Contamination			2	
Well Tests, Every Three Years			15	
Well Tests, Health Standards			13	
<b>Ingham</b>		<b>6,306</b>	<b>203</b>	<b>767,900</b>
Adequate Land Base for Nutrients			2	
Anti-Backflow Device Installed			1	
Backflow Prevention on Livestock Watering Systems			1	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			2	
Drift Management Plan, New			5	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			7	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			3	
Emergency Plan, Pesticide Revised			2	
Environmentally Sensitive Areas Identified		5,179		
Farm Emergency Plan Developed and Followed, New			1	
Fertilizer Records Maintained			2	
Fertilizer Stock Tank Leak Protection			1	
Fertilizer, Determination of Rates			2	
Impermeable Surface, Fuel			5	
Invasive Species Identified And Managed			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Irrigation Records Maintained			1	
Isolation Distances Met			1	
Livestock Management, Recordkeeping			2	
Livestock Management, Siting			1	
Livestock Yard, Manure Scrape and Haul			1	
Livestock Yard, Runoff Management			1	
Manure Application, MARI Completed			1	
Manure Application, Rate Determination			2	
Manure Application, Rates Do Not Exceed Crop N Needs			1	
Manure Applications, Weather Forecasts Monitored			1	
Manure Storage, Capacity				767,900
Manure Storage, Clean Water Diverted			1	
Manure Storage, Isolation Distances Met			1	
Manure Storage, Liquid Storage Freeboard Maintained			1	
Manure Storage, Temporary Duration			2	
Manure Storage, Temporary Location			1	
Manure, Isolation Distances Met			1	
Manure, Management Records			5	
Manure, Nutrient Content Determination			11	
Nutrient Management Plans, Annual By Field		4		
Nutrient Management Records, Multiple			2	
Nutrients, All Sources Considered			1	
Odor Management Plan			11	
Pasture Soil Tested			11	
Pastures Have Current Soil Tests			12	
Pesticide Application, Recordkeeping			2	
Pesticide Drift Management Plan, New			1	
Pesticide Rinsate, Proper Handling			1	
Pesticide Spill Kit Availability			3	
Pesticides, Application Recordkeeping			3	
Pesticides, Drift Management Plan, New			4	
Pesticides, Drift Management Plan, Revised			1	
Pesticides, Emergency Plan and Contacts			2	
Pesticides, Excess Spray Mixture Use			1	
Pesticides, Rinsate Disposal			1	
Precipitation Leading to Contaminated Run-Off			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			2	
Soil Erosion Controlled		1,123		
Soil Testing, Representative Sampling			1	
Soil Testing, Triennial			18	
Soil, Nutrient Records		0		
Special Sites Protected			1	
Storage, Labeled Containers			1	
Storage, Security			1	
Storage, Signage			10	
Storage, Spill Kit			8	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Surface Drains Present Around Farmstead			1	
Veterinary Product and Waste Disposal			4	
Visual Sensitivity Of The Site Has Been Assessed			1	
Waste, Recycling and Disposal			5	
Well Decommissioned			1	
Well Inspected			2	
Well Tests, Every Three Years			11	
Well Tests, Health Standards			3	
<b>Ionia</b>		<b>3,098</b>	<b>103</b>	
Adequate Land Base for Nutrients			2	
Containers, Properly Rinsed			2	
Drift Management Plan, New			2	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			3	
Environmentally Sensitive Areas Identified		<b>2,302</b>		
Excess Product, Label Rates			1	
Fertilizer, Determination of Rates			1	
Fill Opening Separate From Vent Opening			1	
Impermeable Surface, Fuel			7	
Irrigation, Record Keeping			2	
Isolation Distances Met			8	
Land Management Plan, New			1	
Livestock Management, Recordkeeping			3	
Livestock Management, Runoff Management			1	
Livestock Yard, Drainage Diversion			1	
Livestock Yard, Runoff Management			1	
Manure Application, MARI Completed			1	
Manure Application, Rate Determination			3	
Manure Applications, Weather Forecasts Monitored			1	
Manure Storage, Temporary Duration			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			3	
Manure, Winter Application Procedure		<b>1</b>		
Nutrient Management Plans, Annual By Field		<b>1</b>		
Odor Management Plan			1	
P Fertilizer, Dilute Wastewater Managed Appropriately			1	
P Fertilizer, Rate Determination			1	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			1	
Pesticide Spill Kit Availability			3	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			3	
Pesticides, Emergency Plan and Contacts			2	
Pesticides, Equipment Calibration			1	
Pesticides, Mixing and Loading In Field			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Pesticides, Rinsate Disposal			1	
Required Regulatory Reporting and Recordkeeping Compliance			1	
Rinsate, Label Rates			1	
Secondary Containment, Fuel			1	
Secondary Containment, Pesticides			1	
Soil Erosion Controlled		793		
Soil Testing, Triennial			1	
Soil, Nutrient Records		1		
Storage, Appropriate Tanks			2	
Storage, Buildings Setback			1	
Storage, Security			3	
Storage, Signage			4	
Storage, Spill Kit			3	
Waste, Floor Drains			1	
Well Repaired to Standards			3	
Well Tests, Every Three Years			7	
Well Tests, Health Standards			7	
<b>Iosco</b>		<b>1,699</b>	<b>56</b>	
Adequate Land Base for Nutrients			1	
Anti-Backflow Device Installed			2	
Chemigation, Anti-backflow Device			1	
Drift Management Plan, New			3	
Emergency Plan, Pesticide New			3	
Environmentally Sensitive Areas Identified		77		
Farm Emergency Plan Developed and Followed, New			2	
Fertilizer Records Maintained			2	
Fertilizer, Determination of Rates			1	
Impermeable Surface, Fuel			1	
Irrigation Records Maintained			1	
Irrigation, Record Keeping			1	
Isolation Distances Met			2	
Large Quantity Water Withdrawal Registered			1	
Manure Storage, Temporary Location			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			1	
Odor Management Plan			2	
Other Environmental Risks Resolved			1	
Pesticide Drift Management Plan, New			1	
Pesticide Spill Kit Availability			1	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			3	
Required Regulatory Reporting and Recordkeeping Compliance			1	
Secondary Containment, Pesticides			1	
Soil and/or Tissue Testing, Quadrennial		1		
Soil Erosion Controlled		1,621		
Soil Testing, Representative Sampling			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians			
Practices Implemented by County	Units		
	Acres	Each	Gallon
Soil Testing, Triennial		6	
Storage, Signage		5	
Storage, Spill Kit		2	
Waste, Recycling and Disposal		1	
Well Tests, Every Three Years		4	
Well Tests, Health Standards		1	
<b>Isabella</b>	<b>4,890</b>	<b>11</b>	
104 Nutrient Management Plan - Written	520		
114 Integrated Pest Management Plan - Written	520		
590 Nutrient Management	1,500		
595 Integrated Pest Management (IPM)	1,500		
Dead Animals Handled According to BODA		1	
Emergency Plan, Manure Spill, Revised		1	
Environmentally Sensitive Areas Identified	80		
Impermeable Surface, Fuel		1	
Irrigation, Record Keeping		1	
Manure Application, Rate Determination		1	
Portion of Animal Feed Produced On Farm		1	
Septic, Pumping		1	
Soil Testing, Triennial		1	
Soil, Nutrient Records	770		
Veterinary Product and Waste Disposal		2	
Well Tests, Every Three Years		1	
<b>Jackson</b>	<b>8,390</b>	<b>142</b>	<b>100</b>
Anti-Backflow Device Installed		5	
Dead Animals, Composting Recordkeeping Meets BODA Requirements		1	
Drift Management Plan, New		4	
Emergency Plan, Manure Spill, New		4	
Emergency Plan, Manure Spill, Revised		1	
Emergency Plan, Pesticide New		1	
Emergency Plan, Pesticide Revised		1	
Environmentally Sensitive Areas Identified	4,067		
Fertilizer, Determination of Rates		1	
Irrigation, Amount Determined Accurately		5	
Irrigation, Evaluation for Uniformity		6	
Irrigation, Rain Gauges in Fields	5	5	
Irrigation, Record Keeping		1	
Isolation Distances Met		1	
Livestock Management, NMP		2	
Livestock Management, Recordkeeping		4	
Manure Application, MARI Completed		1	
Manure Application, Rate Determination		9	
Manure Application, Rates Do Not Exceed Crop P Needs		1	
Manure, Application Rates Do Not Exceed Crop N Needs	820		
Manure, Application Rates Do Not Exceed Crop P Needs	56		
Manure, Management Records		6	
Manure, Nutrient Content Determination		8	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Manure, Winter Application Procedure		50		
Nutrient Management Plans, Annual By Field		119		
Odor Management Plan			14	
P Fertilizer, Rate Determination			2	
Pasture Soil Tested		10	11	
Pastures Have Current Soil Tests			5	
Pesticide Drift Management Plan, New			1	
Pesticide Spill Kit Availability			4	
Pesticides, Application Recordkeeping			2	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			3	
Pesticides, Mixing and Loading In Field			1	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Secondary Containment, Mix-Load			1	
Soil Erosion Controlled		3,056		
Soil Testing, Representative Sampling			1	
Soil Testing, Triennial		28	12	
Soil, Nutrient Records		179		
Storage, Spill Kit			1	
Veterinary Product and Waste Disposal			1	
Water Management, Wastewater				100
Water Use Reported			1	
Well Tests, Every Three Years			8	
Well Tests, Health Standards			5	
<b>Kalamazoo</b>		<b>11,192</b>	<b>824</b>	<b>100</b>
Adequate Land Base for Nutrients			8	
Anti-Backflow Device Installed			9	
Chemigation, Anti-backflow Device			1	
Chemigation, Pesticide/Fertilizer Setback			1	
Containers, Properly Rinsed			2	
Cover Crop Use		1,200		
Crop Yields, Realistic Goals			1	
Dead Animals Handled According to BODA			20	
Dead Animals, Composting Isolation Distance			3	
Dead Animals, Composting Process Follows BODA			3	
Dead Animals, Composting Recordkeeping Meets BODA Requirements			2	
Dead Animals: Composting Process Properly Managed			1	
Drift Management Plan, New			24	
Drift Management Plan, Revised			17	
Emergency Plan, Fertilizer New			13	
Emergency Plan, Fertilizer Revised			15	
Emergency Plan, Manure Spill, New			10	
Emergency Plan, Manure Spill, Revised			3	
Emergency Plan, New, Silage			2	
Emergency Plan, Pesticide New			15	
Emergency Plan, Pesticide Revised			20	
Environmentally Sensitive Areas Identified		2,634		

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Equipment, Parking and Storage		1	
Erosion Controlled, Site	2		
Farm Emergency Plan Developed and Followed, New		1	
Fertilizer Records Maintained		2	
Fertilizer Stock Tank Leak Protection		5	
Fertilizer, Determination of Rates		3	
Fill Opening Separate From Vent Opening		1	
Herbicide Setback Maintenance		1	
Impermeable Surface, Fuel		9	
Irrigation Fuel Tank Meets Setback Requirements		3	
Irrigation Records Maintained		10	
Irrigation, Amount Determined Accurately		5	
Irrigation, Evaluation for Uniformity		1	
Irrigation, Rain Gauges in Fields		7	
Irrigation, Record Keeping		6	
Irrigation, Scheduling		1	
Isolation Distances Met		47	
Large Quantity Water Withdrawal Registered		2	
Livestock Management, Anti-Backflow device installed		1	
Livestock Management, NMP		6	
Livestock Management, Recordkeeping		16	
Livestock Management, Runoff Management		2	
Livestock Management, Siting		2	
Livestock Yard, Drainage Diversion		4	
Livestock Yard, Floor		2	
Livestock Yard, Manure Scrape and Haul		1	
Livestock Yard, Runoff Management		4	
Manure Application, MARI Completed		2	
Manure Application, Odor-Reduction Practices Used		4	
Manure Application, Rate Determination		7	
Manure Application, Rates Do Not Exceed Crop N Needs		3	
Manure Application, Rates Do Not Exceed Crop P Needs		4	
Manure Application, Runoff Prevention	161		
Manure Applications, Weather Forecasts Monitored		2	
Manure Storage, Bedded Design and Construction		1	
Manure Storage, Design and Construction		1	
Manure Storage, Designed Use		1	
Manure Storage, Farmstead Stacked, Odor and Pest Control		2	
Manure Storage, Field Stacked Duration		3	
Manure Storage, Isolation Distances Met		3	
Manure Storage, Runoff Management		5	
Manure Storage, Temporary Duration		8	
Manure Storage, Temporary Location		8	
Manure Storage, Temporary Stacked, Odor and Pest Control		3	
Manure Storage, Temporary Stacked, Surface Water Setback		2	
Manure, Application Rates Do Not Exceed Crop N Needs	253		
Manure, Application Rates Do Not Exceed Crop P Needs	314		

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Manure, Isolation Distances Met			1	
Manure, Management Records			12	
Manure, Nutrient Content Determination			6	
Manure, Odor Management			2	
Manure, Winter Application Procedure		270		
N Fertilizer, Split/Multiple Applications		252		
Nutrient Management Plans, Annual By Field		1,654		
Nutrient Management Records, Multiple			2	
Nutrients, All Sources Considered			5	
Odor Management Plan			25	
Other Environmental Risks Resolved			4	
P Fertilizer, Rate Determination			4	
Pasture Management For Vegetation and Runoff			2	
Pasture Management, Manure Near Water Tanks/Feeders			3	
Pasture Management, Protecting Surface Water			1	
Pasture Soil Tested			8	
Pastures Have Current Soil Tests			7	
Pesticide Application, Recordkeeping			1	
Pesticide Applications, Soil Characteristics Considered			1	
Pesticide Drift Management Plan, New			2	
Pesticide Handling, Field Mixing and Loading			1	
Pesticide Inventory Control			3	
Pesticide Labels Are Followed			13	
Pesticide Spill Kit Availability			21	
Pesticides Used And Stored According To EPA, SSWQPs			1	
Pesticides, Application Recordkeeping			19	
Pesticides, Container Handling			3	
Pesticides, Drift Management Plan, New			9	
Pesticides, Drift Management Plan, Revised			8	
Pesticides, Emergency Plan and Contacts			15	
Pesticides, Label Compliance			4	
Pesticides, Mixing and Loading In Field			4	
Precipitation Leading to Contaminated Run-Off			5	
Required Regulatory Reporting and Recordkeeping Compliance			5	
Rinsate, Label Rates			1	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Safety Data Sheets Available On-Site			1	
Secondary Containment, Fertilizer			11	
Secondary Containment, Fuel			3	
Secondary Containment, Mix-Load			5	
Secondary Containment, Operational Pad			1	
Secondary Containment, Pesticides			10	
Silage, Leachate Collection/Treatment				100
Silage, Leachate Management			2	
Silage, Leachate Ponding			2	
Soil and/or Tissue Testing, Quadrennial		50		



FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Soil Erosion Controlled		1,415		
Soil Testing, Representative Sampling			4	
Soil Testing, Triennial		8	17	
Soil, Nutrient Records		2,974		
Soil, pH Maintenance		5		
Storage, Application Equipment			2	
Storage, Appropriate Tanks			4	
Storage, Buildings Setback			6	
Storage, Capacity			1	
Storage, Decommissioned			2	
Storage, Dedicated			1	
Storage, Designed Use			2	
Storage, Elevation			1	
Storage, Security			11	
Storage, Signage			17	
Storage, Spill Kit			28	
Storage, Spill Protection			2	
Storage, Valves and Hoses			2	
Trout Streams, Natural, Wild, And Scenic Rivers Identified And RMZs Established			1	
Veterinary Product and Waste Disposal			11	
Waste, Ash Disposal			1	
Waste, Floor Drains			3	
Waste, Isolation Distances Met			4	
Waste, Recycling and Disposal			9	
Water Use Reported			2	
Water, Protected From Pesticide Contamination			9	
Well Construction			3	
Well Decommissioned			3	
Well Inspected			3	
Well Repaired to Standards			2	
Well Tests, Every Three Years			33	
Well Tests, Health Standards			32	
Worker Protection Standards Met			1	
<b>Kalkaska</b>		<b>1</b>	<b>52</b>	
Adequate Land Base for Nutrients			1	
Dead Animals Handled According to BODA			1	
Drift Management Plan, Revised			2	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Fertilizer Revised			3	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Pesticide Revised			2	
Food Safety Person Designated			1	
Food Safety Program Written and Implemented			1	
Fumigation Management Plan, Revised			1	
Impermeable Surface, Fuel			1	
Irrigation, Rain Gauges in Fields			4	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			2	
Livestock Management, Siting			1	
Manure, Nutrient Content Determination			3	
Nutrient Management Plans, Annual By Field		1		
Odor Management Plan			2	
Pesticides, Drift Management Plan, Revised			2	
Pesticides, Emergency Plan and Contacts			2	
Storage, Signage			2	
Storage, Spill Kit			4	
Veterinary Product and Waste Disposal			4	
Well Tests, Every Three Years			6	
Well Tests, Health Standards			3	
<b>Kent</b>		<b>1,689</b>	<b>159</b>	
Anti-Backflow Device Installed			1	
Dead Animals Handled According to BODA			4	
Dead Animals, Composting Recordkeeping Meets BODA Requirements			2	
Drift Management Plan, New			7	
Emergency Plan, Fertilizer New			7	
Emergency Plan, Manure Spill, New			4	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			6	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		1,633		
Farm Emergency Plan Developed and Followed, New			3	
Fertilizer, Application Equipment Calibration			2	
Impermeable Surface, Fuel			1	
Irrigation Records Maintained			3	
Irrigation, Evaluation for Uniformity			1	
Irrigation, Rain Gauges in Fields			5	
Irrigation, Record Keeping			6	
Irrigation, System Evaluation			1	
Isolation Distances Met			7	
Livestock Management, Anti-Backflow device installed			2	
Livestock Management, Recordkeeping			3	
Manure, Application Rates Do Not Exceed Crop P Needs		2		
Manure, Management Records			1	
Manure, Nutrient Content Determination			1	
Nutrient Management Records, Multiple			1	
Odor Management Plan			4	
Pasture Soil Tested			3	
Pastures Have Current Soil Tests			3	
Pesticide Application, Recordkeeping			2	
Pesticide Drift Management Plan, New			6	
Pesticide Spill Kit Availability			12	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Pesticides, Emergency Plan and Contacts			2	
Pesticides, Equipment Calibration			1	
Secondary Containment, Fertilizer			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			1	
Silage, Bag Plastic Disposed of Properly			1	
Silage, Bunker Storage Floor			1	
Soil and/or Tissue Testing, Quadrennial		46		
Soil Erosion Controlled		1		
Soil Testing, Triennial			1	
Soil, Nutrient Records		7		
Storage, Signage			10	
Storage, Spill Kit			15	
Waste, Floor Drains			1	
Well Repaired to Standards			1	
Well Tests, Every Three Years			16	
Well Tests, Health Standards			4	
<b>Lake</b>			17	
106 Forest Management Plan - Written			1	
All Habitat Types Identified and Mapped In LMP			1	
Drift Management Plan, New			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Pesticide New			2	
Invasive Species Identified And Managed			1	
Livestock Management, Recordkeeping			1	
Odor Management Plan			1	
Pastures Have Current Soil Tests			2	
Property Boundaries Known And Marked			1	
Well Decommissioned			1	
Well Tests, Every Three Years			4	
<b>Lapeer</b>		9,662	296	50,000
Adequate Land Base for Nutrients			1	
Anti-Backflow Device Installed			2	
Crop Yields, Realistic Goals			4	
Drift Management Plan, New			11	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			16	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			6	
Emergency Plan, Pesticide Revised			2	
Environmentally Sensitive Areas Identified		1,496		
Erosion Controlled, Site		1		
Excess Product, Label Rates			2	
Fertilizer, Determination of Rates			5	
Impermeable Surface, Fuel			9	
Irrigation Fuel Tank Meets Setback Requirements			2	

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Irrigation, Rain Gauges in Fields		3	
Irrigation, Record Keeping		1	
Isolation Distances Met		4	
Land Management Plan, New		4	
Livestock Management, NMP		3	
Livestock Management, Recordkeeping		6	
Livestock Yard, Drainage Diversion		4	
Manure Application, MARI Completed		1	
Manure Application, Rate Determination		6	
Manure Application, Rates Do Not Exceed Crop N Needs		2	
Manure Application, Rates Do Not Exceed Crop P Needs		2	
Manure Applications, Weather Forecasts Monitored		1	
Manure Storage, Capacity			50,000
Manure Storage, Clean Water Diverted		2	
Manure Storage, Field Stacked Duration		1	
Manure Storage, Liquid Storage Freeboard Maintained		2	
Manure Storage, Temporary Duration		2	
Manure Storage, Temporary Location		8	
Manure Storage, Temporary Stacked, Surface Water Setback		1	
Manure, Application Rates Do Not Exceed Crop N Needs	1		
Manure, Application Rates Do Not Exceed Crop P Needs	82		
Manure, Management Records		5	
Manure, Nutrient Content Determination		12	
Manure, Winter Application Procedure	201		
Nutrient Management Plans, Annual By Field	4,472		
Odor Management Plan		10	
P Fertilizer, Rate Determination		5	
Pasture Management, Protecting Surface Water		1	
Pasture Management, Protection of Stream Banks and Surface Water		1	
Pasture Soil Tested		5	
Pastures Have Current Soil Tests		10	
Pesticide Spill Kit Availability		5	
Pesticides, Application Recordkeeping		4	
Pesticides, Container Handling		2	
Pesticides, Drift Management Plan, New		12	
Pesticides, Emergency Plan and Contacts		6	
Pesticides, Rinsate Disposal		1	
Precipitation Leading to Contaminated Run-Off		2	
Rinsate, Label Rates		2	
Secondary Containment, Mix-Load		3	
Secondary Containment, Pesticides		2	
Soil Erosion Controlled	1,640		
Soil Testing, Triennial		23	
Soil, Nutrient Records	1,700		
Soil, pH Maintenance	70		
Storage, Appropriate Tanks		1	
Storage, Buildings Setback		1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Storage, Decommissioned			4	
Storage, FLCL Rules			1	
Storage, Monitored for Leaks			1	
Storage, Security			1	
Storage, Signage			6	
Storage, Spill Kit			8	
Timber Harvesting Conducted According To FMP			1	
Veterinary Product and Waste Disposal			1	
Waste, Ash Disposal			1	
Waste, Recycling and Disposal			2	
Well Repaired to Standards			2	
Well Tests, Every Three Years			19	
Well Tests, Health Standards			20	
<b>Leelanau</b>		<b>180</b>	<b>162</b>	
Anti-Backflow Device Installed			1	
Drift Management Plan, New			8	
Emergency Plan, Fertilizer New			3	
Emergency Plan, Pesticide New			11	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		<b>114</b>		
Farm Emergency Plan Developed and Followed, New			1	
Farm Emergency Plan Developed and Followed, Revised			1	
Fertilizer, Rate Determination		<b>20</b>		
Impermeable Surface, Fuel			6	
Irrigation Records Maintained			1	
Irrigation, Amount Determined Accurately			1	
Irrigation, Rain Gauges in Fields			7	
Irrigation, Record Keeping			5	
Irrigation, Scheduling			1	
Isolation Distances Met			14	
Large Quantity Water Withdrawal Registered			1	
Livestock Management, Recordkeeping			3	
Livestock Management, Siting			1	
Manure, Application Rates Do Not Exceed Crop P Needs		<b>1</b>		
Manure, Management Records			3	
Manure, Nutrient Content Determination			1	
Nutrient Management Plans, Annual By Field		<b>2</b>		
Nutrient Management Records, Multiple			3	
Nutrients, All Sources Considered			1	
Other Environmental Risks Resolved			1	
P Fertilizer, Rate Determination			1	
Pastures Have Current Soil Tests		<b>6</b>	<b>1</b>	
Pesticide Application, Recordkeeping			1	
Pesticide Containers Are Recyclable or Returnable			1	
Pesticide Drift Management Plan, New			2	
Pesticide Handling, Field Mixing and Loading			1	
Pesticide Spill Kit Availability			6	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Required Regulatory Reporting and Recordkeeping Compliance		6		
Secondary Containment, Fuel		1		
Secondary Containment, Mix-Load		5		
Secondary Containment, Pesticides		5		
Soil and/or Tissue Testing, Quadrennial		22		
Soil Testing, Representative Sampling		6	1	
Soil Testing, Triennial		6	2	
Soil, Nutrient Records		3		
Storage, Appropriate Tanks		2		
Storage, Decommissioned		1		
Storage, Security		3		
Storage, Shelving		1		
Storage, Signage		14		
Storage, Spill Kit		15		
Storage, Valves and Hoses		1		
Veterinary Product and Waste Disposal		1		
Waste, Floor Drains		2		
Waste, Isolation Distances Met		3		
Waste, Recycling and Disposal		3		
Water Use Reported		1		
Well Decommissioned		2		
Well Tests, Every Three Years		3		
Well Tests, Health Standards		2		
<b>Lenawee</b>		<b>80,524</b>	<b>1,145</b>	<b>20,000</b>
Adequate Land Base for Nutrients		2		
Adverse Impact To Endangered And Threatened Species Avoided		15		
All Habitat Types Identified and Mapped In LMP		8	11	
All Other Habitats Enrolled In Long-Term Or Permanent Conservation Programs		1		
Altered Wetlands Assessed For Restoration		8		
Anti-Backflow Device Installed		9		
Aquatic Resource Options Identified Within Plan		1		
Backflow Prevention on Livestock Watering Systems		1		
Beneficial Insect Management		1		
BMPs Implemented To Protect Rare And Sensitive Species And Habitats		16		
Bogs And Fens Identified And RMZs Established		7		
Certified Seed and Plant Material Used		1		
Conservation Practices Routinely Evaluated		5		
Containers, Properly Rinsed		1		
Corn Rotated Annually		44	3	
Cover Crop Use		174		
Crop Rotations, Three Years or Longer		2,500		
Crop Yields, Realistic Goals		1,326	9	
Dead Animals Handled According to BODA		4		
Decontamination, Supplies Available		1		
Delivery, Just In Time		5		
Ditches and Tile Drains Maintained		1		
Drift Management Plan, New		9		

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Drift Management Plan, Revised			1	
Emergency Plan, Employee Training			1	
Emergency Plan, Fertilizer New			5	
Emergency Plan, Fertilizer Revised			4	
Emergency Plan, Manure Spill, New			6	
Emergency Plan, Manure Spill, Revised			2	
Emergency Plan, Pesticide New			6	
Emergency Plan, Pesticide Revised			3	
Emergency Plan, Spill Control and Counter-measure			3	
Environmentally Sensitive Areas Identified		20,490		
Equipment, Parking and Storage			5	
Equipment, Properly Cleaned and Rinsed			16	
Erosion Controlled, Site		2,175		
Excess Product, Label Rates			6	
Fertilizer Records Maintained			2	
Fertilizer Solutions Properly Managed			1	
Fertilizer Stock Tank Leak Protection			1	
Fertilizer, Determination of Rates			9	
Fertilizer, Rate Determination		7		
Fertilizers, Controlled Release/Split Applications			1	
Fill Opening Separate From Vent Opening			8	
FMP Addresses All Habitat Types			1	
FMP Includes Landowner Objectives			1	
Forest Roads Established And Maintained To Avoid Erosion			6	
Forestation Achieves Adequate Stocking Levels			3	
Forestry Management Plan, New			2	
Handling, Closed System			5	
Harvest Plan Map Used For Harvest			3	
Herbicide Setback Maintenance		44	2	
Impermeable Surface, Fuel			14	
Invasive Species Identified And Managed			11	
IPM Consultant, University, Other Reliable Source			3	
IPM Scouting Weekly		400		
IPM Used To Control Pests		8	4	
Irrigation Discharge Managed			2	
Irrigation Records Maintained			1	
Irrigation Type			1	
Irrigation Water Alkalinity Monitoring			1	
Irrigation Water pH Managed For Nutrients			1	
Irrigation, Amount Determined Accurately			1	
Irrigation, Evaluation for Uniformity			1	
Irrigation, Excessive Applications Avoided			2	
Irrigation, Rain Gauges in Fields			5	
Irrigation, Record Keeping			4	
Irrigation, Runoff and Ponding Minimized			2	
Irrigation, Scheduling			2	
Isolation Distances Met			63	

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Land Management Plan, New		12	
Land Units Evaluated For Stocking Levels of Desired Species		1	
Landowner Complies With Laws And Ordinances		13	
Landowner Enrolled in Programs Appropriate To Objectives		4	
Landowner Minimizes Impact To Cultural Sites and Works With SHPO As Needed		5	
Leaching/Runoff Toxic Potential Consideration		1	
Livestock Management, Anti-Backflow device installed		5	
Livestock Management, NMP		1	
Livestock Management, Recordkeeping		6	
Livestock Yard, Drainage Diversion		3	
Livestock Yard, Floor		4	
Livestock Yard, Manure Scrape and Haul		3	
Livestock Yard, Runoff Management		5	
Livestock Yard, Surface Water Setback		2	
LMP Allows for Active and Adaptive Management		14	
LMP Identifies All Resource Concerns		9	
LMP Includes Details of Desired Future Conditions		8	
LMP Includes Landowner Objectives		12	
LMP Prepared By Professional Natural Resource Manager		7	
Management Activities Conform to Applicable Forest Land BMPs		11	
Management Activities Conform To GAFMPs		11	
Manure Application, Compatible With Soils		2	
Manure Application, MARI Completed		2	
Manure Application, Odor-Reduction Practices Used		1	
Manure Application, Ponding, Erosion, and Runoff Avoided		2	
Manure Application, Procedure	100		
Manure Application, Rate Determination	870	1	
Manure Application, Rates Do Not Exceed Crop N Needs	290		
Manure Application, Rates Do Not Exceed Crop P Needs	580		
Manure Application, Runoff Prevention	100		
Manure Applications, Weather Forecasts Monitored	290		
Manure Storage, Clean Water Diverted		3	
Manure Storage, Design and Construction		2	
Manure Storage, Designed Use		1	
Manure Storage, Field Stacked Duration		1	
Manure Storage, Isolation Distances Met		4	
Manure Storage, Runoff Management		1	
Manure Storage, Temporary Duration		3	
Manure Storage, Temporary Location		3	
Manure Storage, Temporary Stacked, Odor and Pest Control		1	
Manure Storage, Temporary Stacked, Surface Water Setback		1	
Manure, Application Rates Do Not Exceed Crop N Needs	800		
Manure, Application Rates Do Not Exceed Crop P Needs	800		
Manure, Isolation Distances Met		3	
Manure, Liquid Loss Through Tile Lines		1	
Manure, Management Records		7	



FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Manure, Nutrient Content Determination		290	7	
Manure, Odor Management			1	
Manure, Winter Application Procedure		3,453		
Mix-Load, Filling Monitored			2	
Mix-Load, Measuring Devices			1	
N Applications Do Not Exceed 25 lbs In Fall		44		
N Fertilizer, Split/Multiple Applications		120		
No N Applications For Soybeans or Alfalfa		44		
No N Applications in Fall		44	3	
Non-Forested/Non-Wetland Habitats Being Restored			1	
Nutrient Management Plans, Annual		0		
Nutrient Management Plans, Annual By Field		4,502		
Nutrient Management Records, Multiple			2	
Nutrients, All Sources Considered		1,200	8	
Odor Management Plan			6	
Other Environmental Risks Resolved			39	
Overhead Fertigation Is Avoided			1	
Owner Monitors Harvests to Ensure Conformance With LMP			4	
P Fertilizer, Application to Frozen or Snow Covered Fields		121		
P Fertilizer, Dilute Wastewater Managed Appropriately			1	
P Fertilizer, Placement		1,820		
P Fertilizer, Rate Determination			3	
Pasture Management, Manure Near Water Tanks/Feeders			5	
Pasture Management, Minimal Imported Feed			5	
Pasture Management, Protecting Surface Water			1	
Pasture Soil Tested			6	
Pastures Have Current Soil Tests			1	
Pest Management, Reviews Previous Years Results			1	
Pest Resistant and Tolerant Varieties Planted			1	
Pesticide Application, Recordkeeping			1	
Pesticide Applications, Soil Characteristics Considered		7		
Pesticide Drift Management Plan, New			3	
Pesticide Spill Kit Availability			12	
Pesticides Used And Stored According To EPA, SSWQPs			6	
Pesticides, Application Recordkeeping			1	
Pesticides, Container Handling			2	
Pesticides, Drift Management Plan, New			12	
Pesticides, Drift Management Plan, Revised			1	
Pesticides, Emergency Plan and Contacts			3	
Pesticides, Equipment Calibration			2	
Pesticides, Excess Spray Mixture Use			1	
Pesticides, Label Compliance			2	
Pesticides, Mixing and Loading In Field			1	
Pesticides, Resistance Prevention			2	
Pesticides, Rinsate Disposal			1	
Pesticides, Toxicity Considered for Beneficial Insects			1	
pH and EC Meters Used			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented by County	Acres	Each	Gallon
Planting Dates Adjusted to Avoid Pest Damage	1		
Poly Fertilizer Tanks Used Appropriately	2		
Portion of Animal Feed Produced On Farm	1		
Potential Conflict Between Timber Management And Habitat Development Resolved	6		
Precipitation Leading to Contaminated Run-Off	4		
Prescribed Burnings Follow Approved FMP And Conform To SSWQPs	3		
Property Boundaries Known And Marked	1		
Required Regulatory Reporting and Recordkeeping Compliance	2		
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats	2		
Rinsate, Label Rates	1		
Roof Runoff System In Place	1		
RTF Site Selection and Odor-Control GAAMPS Met	1		
Runoff/Sedimentation Controlled	5		
RUP Compliance	1		
Secondary Containment, Fertilizer	7		
Secondary Containment, Fuel	15		
Secondary Containment, Leaks and Precipitation	6		
Secondary Containment, Mix-Load	8		
Secondary Containment, Operational Pad	1	10,000	
Secondary Containment, Pesticides	6		
Site Monitored Annually For Changes	5		
Slow-Release Fertilizer Usage	1		
Soil and/or Tissue Testing, Quadrennial	7		
Soil Erosion Controlled	24,290		
Soil Quality Indicators Evaluated	7		
Soil Testing, Representative Sampling	2,196	12	
Soil Testing, Triennial	2,710	23	
Soil, Characteristics Considered	400	1	
Soil, Nutrient Records	6,459		
Soil, pH Maintenance	1,804		
Special Sites Protected	12		
Sprayer, Cleaning Water Collected	1		
Storage, Application Equipment	3		
Storage, Appropriate Tanks	23		
Storage, Buildings Setback	8		
Storage, Capacity	3		
Storage, Decommissioned	1		
Storage, Dedicated	2		
Storage, Designed Use	1		
Storage, Elevation	9		
Storage, Fertilizer Liquid	10,000		
Storage, Isolated From Other Products	14		
Storage, Labeled Containers	6		
Storage, Monitored for Leaks	16		
Storage, Portable Fueling	6		
Storage, Regular Inspection	5		

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Storage, Security			41	
Storage, Shelving			2	
Storage, Signage			21	
Storage, Spill Kit			13	
Storage, Spill Protection			8	
Storage, Valves and Hoses			22	
Sustainable Soil And Water Quality Practices Followed			17	
Timber Harvesting Conducted According To FMP			3	
Timber Sale Contract Prepared By Professional Forester			1	
Vegetative Buffer Strips		2		
Veterinary Product and Waste Disposal			5	
Waste, Ash Disposal			1	
Waste, Farm Dump			4	
Waste, Floor Drains			3	
Waste, Isolation Distances Met			2	
Waste, Recycling and Disposal			25	
Water Bodies Identified And Riparian Management Zones Established			14	
Water, Protected From Pesticide Contamination			1	
Weather Stations/Models Used, On-Farm			1	
Well Construction			2	
Well Decommissioned			3	
Well Inspected			3	
Well Repaired to Standards			10	
Well Setback, Manure Sources			1	
Well Tests, Every Three Years			25	
Well Tests, Health Standards			22	
Worker Notification			1	
Worker Protection Standards Met			2	
Worker Protection, Central Notification			2	
Worker Protection, Proper Training			5	
<b>Livingston</b>		<b>6,101</b>	<b>38</b>	
Adequate Land Base for Nutrients			1	
Containers, Properly Rinsed			1	
Drift Management Plan, New			3	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		2,036		
Impermeable Surface, Fuel			1	
Manure Application, Rate Determination			2	
Manure Application, Rates Do Not Exceed Crop P Needs			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			1	
Manure, Winter Application Procedure		200		
Nutrient Management Plans, Annual By Field		930		
Nutrients, All Sources Considered			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Odor Management Plan			1	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			2	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			3	
Pesticides, Drift Management Plan, Revised			1	
Pesticides, Excess Spray Mixture Use			1	
Rinsate, Label Rates			1	
Soil Erosion Controlled		2,005		
Soil Testing, Triennial			2	
Soil, Nutrient Records		930		
Storage, Security			2	
Veterinary Product and Waste Disposal			5	
Well Tests, Every Three Years			2	
<b>Luce</b>		722	55	
Anti-Backflow Device Installed			1	
Drift Management Plan, New			2	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Pesticide New			3	
Environmentally Sensitive Areas Identified		719		
Fertilizer, Determination of Rates			1	
Food Safety Program Written and Implemented			2	
Irrigation, Amount Determined Accurately			1	
Irrigation, Evaluation for Uniformity			2	
Irrigation, Rain Gauges in Fields			2	
Irrigation, Record Keeping			1	
Irrigation, Scheduling			2	
Isolation Distances Met			2	
Manure Storage, Bedded Design and Construction			1	
Manure, Applications Managed for Food Safety			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			1	
Odor Management Plan			2	
Pesticide Spill Kit Availability			2	
Pesticides, Application Recordkeeping			2	
Pesticides, Drift Management Plan, New			1	
PPE Training And Maintenance			1	
Precipitation Leading to Contaminated Run-Off			1	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Soil Testing, Representative Sampling			2	
Soil Testing, Triennial			4	
Soil, Nutrient Records		3		
Storage, Security			1	
Storage, Signage			3	
Storage, Spill Kit			2	
Well Tests, Every Three Years			3	
Well Tests, Health Standards			3	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Worker Protection Standards Met			1	
Worker Protection, Proper Training			1	
<b>Mackinac</b>		<b>1,554</b>	<b>118</b>	
Dead Animals Handled According to BODA			7	
Dead Animals, Composting Recordkeeping Meets BODA Requirements			1	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			9	
Emergency Plan, Pesticide New			3	
Environmentally Sensitive Areas Identified		<b>1,224</b>		
Fertilizer, Determination of Rates			2	
Impermeable Surface, Fuel			1	
Invasive Species Identified And Managed			1	
IPM Used To Control Pests			1	
Irrigation, Amount Determined Accurately			1	
Irrigation, Record Keeping			1	
Land Management Plan, New			2	
Landowner Complies With Laws And Ordinances			1	
Landowner Minimizes Impact To Cultural Sites and Works With SHPO As Needed			1	
Livestock Management, NMP			3	
Livestock Management, Recordkeeping			4	
Livestock Management, Runoff Management			1	
Livestock Yard, Drainage Diversion			1	
Manure Storage, Temporary Duration			2	
Manure Storage, Temporary Location			2	
Manure, Management Records			5	
Manure, Nutrient Content Determination			1	
Odor Management Plan			7	
P Fertilizer, Rate Determination			1	
Pasture Management For Vegetation and Runoff			2	
Pasture Soil Tested			3	
Pastures Have Current Soil Tests			1	
Pesticides Used And Stored According To EPA, SSWQPs			1	
Pesticides, Application Recordkeeping			3	
Pesticides, Drift Management Plan, New			1	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Soil Testing, Triennial		<b>80</b>	<b>7</b>	
Soil, Nutrient Records		<b>250</b>		
Storage, Appropriate Tanks			1	
Storage, Portable Fueling			3	
Storage, Spill Kit			2	
Sustainable Soil And Water Quality Practices Followed			1	
Timber Sale Contract Prepared By Professional Forester			1	
Veterinary Product and Waste Disposal			6	
Waste, Farm Dump			1	
Waste, Floor Drains			2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Well Decommissioned			2	
Well Repaired to Standards			2	
Well Tests, Every Three Years			10	
Well Tests, Health Standards			8	
<b>Macomb</b>		<b>340</b>	<b>59</b>	
Drift Management Plan, New			5	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Pesticide New			2	
Environmentally Sensitive Areas Identified		<b>53</b>		
Impermeable Surface, Fuel			1	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			1	
Livestock Management, Recordkeeping			1	
Livestock Yard, Drainage Diversion			1	
Manure Application, Procedure		<b>1</b>		
Manure Application, Rate Determination			5	
Manure Application, Rates Do Not Exceed Crop P Needs			1	
Manure Application, Runoff Prevention		<b>10</b>		
Manure Storage, Temporary Location			2	
Manure, Application Rates Do Not Exceed Crop N Needs		<b>65</b>		
Manure, Application Rates Do Not Exceed Crop P Needs		<b>66</b>		
Manure, Management Records			4	
Manure, Nutrient Content Determination			2	
Nutrient Management Plans, Annual		<b>100</b>		
Nutrient Management Plans, Annual By Field		<b>11</b>		
Odor Management Plan			1	
P Fertilizer, Rate Determination			1	
Pasture Soil Tested			1	
Pesticide Spill Kit Availability			1	
Pesticides, Application Recordkeeping			1	
Pesticides, Container Handling			2	
Pesticides, Drift Management Plan, New			2	
Pesticides, Emergency Plan and Contacts			3	
Pesticides, Mixing and Loading In Field			1	
Precipitation Leading to Contaminated Run-Off			1	
Soil Testing, Representative Sampling			1	
Soil Testing, Triennial			5	
Soil, Nutrient Records		<b>34</b>		
Well Decommissioned			1	
Well Tests, Every Three Years			7	
Well Tests, Health Standards			3	
<b>Manistee</b>		<b>768</b>	<b>105</b>	
106 Forest Management Plan - Written			3	
All Habitat Types Identified and Mapped In LMP			3	
Anti-Backflow Device Installed			1	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Containers, Properly Rinsed			2	
Dead Animals Handled According to BODA			1	
Drift Management Plan, New			6	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Pesticide New			4	
Emergency Plan, Pesticide Revised			2	
Environmentally Sensitive Areas Identified		8		
Erosion Controlled, Site		0		
Farm Emergency Plan Developed and Followed, Revised			1	
Fertilizer, Determination of Rates			1	
Forest Roads Established And Maintained To Avoid Erosion			1	
Forestry Management Plan, New			2	
Impermeable Surface, Fuel			1	
Invasive Species Identified And Managed			3	
Irrigation, Rain Gauges in Fields			1	
Isolation Distances Met			6	
Land Management Plan, New			2	
Livestock Management, Runoff Management			1	
Livestock Yard, Floor			1	
Livestock Yard, Runoff Management			1	
Management Activities Conform to Applicable Forest Land BMPs			5	
Manure Application, MARI Completed			1	
Manure Storage, Design and Construction			1	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Stacked, Odor and Pest Control			1	
Manure, Management Records			1	
Mix-Load, Filling Monitored			1	
Nutrient Management Plans, Annual By Field		760		
Odor Management Plan			2	
Pasture Management, Manure Near Water Tanks/Feeders			2	
Pasture Management, Protection of Stream Banks and Surface Water			1	
Pesticide Containers Are Recyclable or Returnable			1	
Pesticide Drift Management Plan, New			1	
Property Boundaries Known And Marked			1	
Secondary Containment, Fuel			2	
Secondary Containment, Pesticides			1	
Silage, Bag Plastic Disposed of Properly			1	
Silage, Leachate Collection/Treatment			1	
Site Monitored Annually For Changes			2	
Soil Testing, Representative Sampling			4	
Soil Testing, Triennial			1	
Storage, Appropriate Tanks			1	
Storage, Security			2	
Storage, Signage			5	
Storage, Spill Kit			5	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Timber Harvesting Conducted According To FMP			1	
Trout Streams, Natural, Wild, And Scenic Rivers Identified And RMZs Established			1	
Veterinary Product and Waste Disposal			1	
Waste, Floor Drains			2	
Waste, Recycling and Disposal			4	
Well Tests, Every Three Years			3	
Well Tests, Health Standards			1	
<b>Marquette</b>		<b>180</b>	<b>173</b>	
Adverse Impact To Endangered And Threatened Species Avoided			2	
All Habitat Types Identified and Mapped In LMP			3	
Appropriate Records For Forest Product Harvests And Other Management Activities			7	
Aquatic Resource Options Identified Within Plan			1	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats			3	
Cover Crop Use		0		
Dead Animals Handled According to BODA			2	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		120		
Forest Roads Established And Maintained To Avoid Erosion			2	
Forestland Enrolled In Sustainable Forest Certification Program			8	
Harvest Plan Map Used For Harvest			2	
Impermeable Surface, Fuel			1	
Invasive Species Identified And Managed			2	
IPM Consultant, University, Other Reliable Source			1	
IPM Scouting Weekly			1	
IPM Used To Control Pests			1	
Irrigation, Evaluation for Uniformity			8	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			2	
Land Management Plan, New			7	
Landowner Complies With Laws And Ordinances			4	
Landowner Enrolled in Programs Appropriate To Objectives			9	
Landowner Minimizes Impact To Cultural Sites and Works With SHPO As Needed			2	
Landowner Uses Natural Resource Professionals For Services			4	
Landowner Uses Professionals With Insurance and That Comply With Federal, State, and Local Regulations			6	
Livestock Management, Recordkeeping			2	
LMP Allows for Active and Adaptive Management			8	
LMP Identifies All Resource Concerns			4	
LMP Identifies Special Sites and Contains Activities to Maintain Them			1	
LMP Includes Landowner Objectives			7	
LMP Prepared By Professional Natural Resource Manager			5	



FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Manage Visual Impacts Of Forest Management Using Visual Quality Criteria In RTF GAFMPs			1	
Management Activities Conform to Applicable Forest Land BMPs			2	
Management Activities Conform To GAFMPs			6	
Nutrients, All Sources Considered			1	
Other Environmental Risks Resolved			7	
Owner Monitors Harvests to Ensure Conformance With LMP			5	
Pasture Soil Tested			2	
Pesticides Used And Stored According To EPA, SSWQPs			7	
Pesticides, Application Recordkeeping			2	
Potential Conflict Between Timber Management And Habitat Development Resolved			2	
Property Boundaries Known And Marked			1	
Restoration Potential and Long-Term Management Outlined in HMP			3	
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats			1	
Site Monitored Annually For Changes			6	
Soil Testing, Triennial			1	
Soil, Nutrient Records		60		
Storage, Monitored for Leaks			1	
Sustainable Soil And Water Quality Practices Followed			4	
Timber Harvesting Conducted According To FMP			2	
Timber Sale Contract Prepared By Professional Forester			5	
Veterinary Product and Waste Disposal			2	
Water Bodies Identified And Riparian Management Zones Established			2	
<b>Mason</b>		<b>15,966</b>	<b>308</b>	
102 Comprehensive Nutrient Management Plan - Written			1	
104 Nutrient Management Plan - Written			1	
106 Forest Management Plan - Written			2	
118 Irrigation Water Management Plan - Written			1	
309 Agrichemical Handling Facility			1	
319 On-Farm Secondary Containment Facility			1	
380 Windbreak/Shelterbelt Establishment			1	
Adequate Land Base for Nutrients			2	
All Habitat Types Identified and Mapped In LMP			1	
Anti-Backflow Device Installed			8	
Chemigation, Anti-backflow Device			1	
Conservation Practices Routinely Evaluated		1,250		
Containers, Properly Rinsed			4	
Cover Crop Use		361		
Crop Yields, Realistic Goals			1	
Drift Management Plan, New			7	
Drift Management Plan, Revised			2	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Pesticide New			10	
Emergency Plan, Pesticide Revised			7	

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Environmentally Sensitive Areas Identified	5,552		
Equipment, Parking and Storage		1	
Erosion Controlled, Site	444		
Excess Product, Label Rates		1	
Farm Emergency Plan Developed and Followed, Revised		1	
Fertilizer, Application Equipment Calibration		1	
Fertilizer, Determination of Rates		3	
Fertilizer, Rate Determination	85		
Fill Opening Separate From Vent Opening		4	
Forestland Enrolled In Sustainable Forest Certification Program		1	
Forestry Management Plan , Revised		1	
Impermeable Surface, Fuel		5	
Invasive Species Identified And Managed		2	
IPM Consultant, University, Other Reliable Source		1	
IPM Scouting Weekly		1	
Irrigation Fuel Tank Meets Setback Requirements		1	
Irrigation, Evaluation for Uniformity		2	
Irrigation, Rain Gauges in Fields	6		
Irrigation, Record Keeping		1	
Isolation Distances Met		14	
Land Management Plan, New		2	
Large Quantity Water Withdrawal Registered		7	
Livestock Management, Recordkeeping		2	
Livestock Yard, Drainage Diversion		1	
Management Activities Conform to Applicable Forest Land BMPs		3	
Manure Application, Compatible With Soils		1	
Manure Application, Odor-Reduction Practices Used		1	
Manure Application, Rate Determination		2	
Manure Application, Rates Do Not Exceed Crop N Needs		1	
Manure Applications, Weather Forecasts Monitored		2	
Manure Storage, Isolation Distances Met		1	
Manure Storage, Liquid Storage Design and Installation		1	
Manure Storage, Runoff Management		1	
Manure Storage, Temporary Duration		1	
Manure, Application Rates Do Not Exceed Crop N Needs	1,250		
Manure, Application to Avoid Ponding, Erosion, and Runoff		1	
Manure, Management Records		2	
Manure, Nutrient Content Determination		6	
Mix-Load, Measuring Devices		1	
N Fertilizer, Split/Multiple Applications	1,250		
No N Applications in Fall	700		
Nutrient Management Plans, Annual By Field	4,866		
Nutrient Management Records, Multiple		1	
Nutrients, All Sources Considered		2	
Odor Management Plan		4	
Pest Management, Weather Conditions Monitored		2	
Pesticide Containers Are Recyclable or Returnable		3	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Pesticide Drift Management Plan, Revised			1	
Pesticide Spill Kit Availability			3	
Pesticides, Application Recordkeeping			5	
Pesticides, Drift Management Plan, New			4	
Pesticides, Drift Management Plan, Revised			2	
Pesticides, Emergency Plan and Contacts			4	
Pesticides, Equipment Calibration			7	
Pesticides, Excess Spray Mixture Use			1	
Pesticides, Label Compliance			4	
Pesticides, Mixing and Loading In Field			1	
Pests, Fields Scouted Weekly			1	
Property Boundaries Known And Marked			2	
Required Regulatory Reporting and Recordkeeping Compliance			3	
Secondary Containment, Fuel			7	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			6	
Silage, Bag Plastic Disposed of Properly			1	
Silage, Leachate Collection/Treatment			1	
Site Monitored Annually For Changes			2	
Soil and/or Tissue Testing, Quadrennial		1		
Soil Erosion Controlled		1		
Soil Testing, Representative Sampling			3	
Soil Testing, Triennial			12	
Soil, Nutrient Records		200		
Sprayer, Cleaning Water Collected			1	
Storage, Appropriate Tanks			7	
Storage, Buildings Setback			3	
Storage, Monitored for Leaks			2	
Storage, Regular Inspection			2	
Storage, Security			10	
Storage, Signage			22	
Storage, Spill Kit			6	
Storage, Valves and Hoses			2	
Waste, Floor Drains			1	
Waste, Recycling and Disposal			11	
Water Use Reported			7	
Water, Protected From Pesticide Contamination			1	
Well Decommissioned			1	
Well Inspected			1	
Well Tests, Every Three Years			11	
Well Tests, Health Standards			4	
Worker Notification			1	
Worker Protection Standards Met			2	
<b>Mecosta</b>		<b>265</b>	<b>61</b>	<b>50,000</b>
102 Comprehensive Nutrient Management Plan - Written			1	
528 Prescribed Grazing		113		
578 Stream Crossing			2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians			
Practices Implemented by County	Units		
	Acres	Each	Gallon
612 Tree/Shrub Establishment	14		
666 Forest Stand Improvement	118		
Adequate Land Base for Nutrients		1	
Dead Animals, Composting Process Follows BODA		1	
Dead Animals, Composting Recordkeeping Meets BODA Requirements		1	
Emergency Plan, Manure Spill, Revised		1	
Forest Roads Established And Maintained To Avoid Erosion		3	
Impermeable Surface, Fuel		1	
Isolation Distances Met		1	
Land Management Plan, New		10	
Landowner Uses Professionals With Insurance and That Comply With Federal, State, and Local Regulations		1	
Livestock Management, Siting		1	
Livestock Yard, Surface Water Setback		1	
Manure Storage, Capacity			50,000
Manure Storage, Field Stacked Duration		1	
Manure Storage, Isolation Distances Met		1	
Manure, Management Records		2	
Odor Management Plan		1	
Pasture Management, Protection of Stream Banks and Surface Water		2	
Pastures Have Current Soil Tests		2	
Pesticide Spill Kit Availability		1	
Pesticides, Emergency Plan and Contacts		1	
RTF Site Selection and Odor-Control GAAMPS Met		1	
Soil Testing, Representative Sampling		1	
Soil Testing, Triennial		6	
Soil, Nutrient Records	20		
Storage, Spill Kit		1	
Timber Harvesting Conducted According To FMP		1	
Waste, Floor Drains		1	
Well Decommissioned		1	
Well Tests, Every Three Years		8	
Well Tests, Health Standards		5	
<b>Menominee</b>	<b>25,742</b>	<b>138</b>	<b>145,705</b>
Anti-Backflow Device Installed		2	
Dead Animals Handled According to BODA		3	
Drift Management Plan, New		3	
Drift Management Plan, Revised		1	
Emergency Plan, Fertilizer New		2	
Emergency Plan, Manure Spill, New		2	
Emergency Plan, Manure Spill, Revised		3	
Emergency Plan, New, Silage		1	
Emergency Plan, Pesticide New		3	
Emergency Plan, Pesticide Revised		1	
Environmentally Sensitive Areas Identified	8,299		
Farm Emergency Plan Developed and Followed, Revised		1	
Forestry Management Plan , Revised		1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Impermeable Surface			1	
IPM Scouting Weekly			3	
Irrigation, Amount Determined Accurately			1	
Irrigation, Backflow Prevention			1	
Irrigation, Excess Avoided			1	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			2	
Livestock Management, Recordkeeping			7	
Livestock Management, Siting			1	
Manure Application, Odor-Reduction Practices Used			2	
Manure Application, Procedure		3		
Manure Application, Rate Determination			3	
Manure Applications, Weather Forecasts Monitored			3	
Manure Storage, Liquid Storage Maintained Properly				145,705
Manure, Management Records			3	
Manure, Nutrient Content Determination			7	
Nutrient Management Plans, Annual By Field		3,754		
Pasture Soil Tested			2	
Pastures Have Current Soil Tests			2	
Pest Management, Practices Current			2	
Pesticide Application, Recordkeeping			1	
Pesticide Handling, Field Mixing and Loading			1	
Pesticide Mixture, Disposal of Excess			1	
Pesticide Rinsate, Proper Handling			1	
Pesticide Spill Kit Availability			7	
Pesticides, Application Recordkeeping			3	
Pesticides, Drift Management Plan, New			2	
Pesticides, Drift Management Plan, Revised			2	
Pesticides, Emergency Plan and Contacts			2	
Pesticides, Excess Spray Mixture Use			2	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Runoff/Sedimentation Controlled			1	
Secondary Containment, Pesticides			1	
Soil Erosion Controlled		8,257		
Soil Testing, Representative Sampling			2	
Soil Testing, Triennial			9	
Soil, Nutrient Records		5,429		
Storage, Appropriate Tanks			2	
Storage, Regular Inspection			3	
Storage, Signage			1	
Storage, Spill Kit			6	
Water Use Reported			1	
Water, Protected From Pesticide Contamination			1	
Weather Stations/Models Used, On-Farm			3	
Well Inspected			1	
Well Tests, Every Three Years			8	
Well Tests, Health Standards			9	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Worker Notification			2	
<b>Midland</b>		<b>1,675</b>	<b>28</b>	
590 Nutrient Management		<b>562</b>		
595 Integrated Pest Management (IPM)		<b>562</b>		
Adequate Land Base for Nutrients			1	
Dead Animals Handled According to BODA			1	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		<b>525</b>		
Erosion Controlled, Site		<b>1</b>		
Fertilizer, Determination of Rates			1	
Impermeable Surface, Fuel			1	
Livestock Yard, Runoff Management			2	
Manure Application, Rate Determination			2	
Manure Storage, Farmstead Stacked, Odor and Pest Control			1	
Manure Storage, Liquid Storage, Nearby Area Maintained			1	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Duration			2	
Manure Storage, Temporary Location			1	
Manure Storage, Temporary Stacked, Surface Water Setback			2	
Odor Management Plan			1	
Pasture Management For Vegetation and Runoff			1	
Pasture Management, Protection of Stream Banks and Surface Water			1	
Pasture, Managing Livestock in Winter for Runoff			1	
Pastures Have Current Soil Tests		<b>25</b>		
Pesticide Spill Kit Availability			2	
Storage, Signage			2	
Waste, Recycling and Disposal			1	
<b>Missaukee</b>		<b>7,090</b>	<b>271</b>	<b>1,000</b>
Chemigation Interlock and Safety Systems			1	
Cover Crop Use		<b>835</b>		
Dead Animals Handled According to BODA			1	
Dead Animals, Proper Composting Site Selection			2	
Drift Management Plan, New			6	
Drift Management Plan, Revised			7	
Emergency Plan, Fertilizer New			5	
Emergency Plan, Fertilizer Revised			5	
Emergency Plan, Manure Spill, New			11	
Emergency Plan, Manure Spill, Revised			9	
Emergency Plan, New, Silage			8	
Emergency Plan, New, Tire Fire			5	
Emergency Plan, Pesticide New			6	
Emergency Plan, Pesticide Revised			6	
Emergency Plan, Revised, Silage			7	
Emergency Plan, Revised, Tire Fire			8	
Environmentally Sensitive Areas Identified		<b>1,959</b>		
Fumigation Management Plan, Revised			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Impermeable Surface, Fuel			3	
Irrigation, Evaluation for Uniformity			1	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			2	
Isolation Distances Met			6	
Livestock Management, NMP			3	
Livestock Management, Recordkeeping			3	
Livestock Management, Siting			5	
Livestock Yard, Drainage Diversion			2	
Livestock Yard, Surface Water Setback			1	
Manure Application, MARI Completed			1	
Manure Storage, Design and Construction			2	
Manure Storage, Liquid Storage Freeboard Maintained			1	
Manure Storage, Runoff Management			2	
Manure Storage, Temporary Duration			2	
Manure Storage, Temporary Location			3	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Management Records			4	
Manure, Nutrient Content Determination			9	
Manure, Winter Application Procedure		660		
Milking Center, Wastewater Collection and Storage			1	
Nutrient Management Plans, Annual By Field		847		
Nutrients, All Sources Considered			2	
Odor Management Plan			14	
Pasture Soil Tested			2	
Pastures Have Current Soil Tests			1	
Pesticide Spill Kit Availability			10	
Pesticides, Drift Management Plan, New			4	
Pesticides, Drift Management Plan, Revised			8	
Pesticides, Emergency Plan and Contacts			13	
Precipitation Leading to Contaminated Run-Off			2	
RTF Site Selection and Odor-Control GAAMPS Met			3	
Runoff/Sedimentation Controlled		847		
Secondary Containment, Pesticides			1	
Silage, Clean Water Diversion			1	
Silage, Leachate Collection/Treatment				1,000
Soil Erosion Controlled		1,932		
Soil Testing, Triennial		5	6	
Soil, Nutrient Records		5		
Storage, Appropriate Tanks			2	
Storage, Signage			2	
Storage, Spill Kit			6	
Veterinary Product and Waste Disposal			6	
Waste, Floor Drains			1	
Well Decommissioned			1	
Well Setback, Manure Sources			1	
Well Tests, Every Three Years			25	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Well Tests, Health Standards			19	
<b>Monroe</b>		<b>36,387</b>	<b>617</b>	
Adequate Land Base for Nutrients			13	
Adverse Impact To Endangered And Threatened Species Avoided			4	
All Habitat Types Identified and Mapped In LMP			1	
Anti-Backflow Device Installed			3	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats			2	
Chemigation, Anti-backflow Device			3	
Chemigation, Pesticide/Fertilizer Setback			1	
Containers, Properly Rinsed			5	
Cover Crop Use		<b>63</b>		
Crop Yields, Realistic Goals			7	
Dead Animals Handled According to BODA			7	
Drift Management Plan, New			8	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			5	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			7	
Emergency Plan, Manure Spill, Revised			5	
Emergency Plan, Pesticide New			13	
Emergency Plan, Pesticide Revised			7	
Environmentally Sensitive Areas Identified		<b>20,964</b>		
Equipment, Properly Cleaned and Rinsed			2	
Erosion Controlled, Site		<b>1,395</b>		
Fertilizer, Determination of Rates			3	
Impermeable Surface, Fuel			18	
Invasive Species Identified And Managed			11	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			2	
Irrigation, Scheduling			1	
Isolation Distances Met			37	
Land Management Plan, New			5	
Landowner Complies With Laws And Ordinances			6	
Large Quantity Water Withdrawal Registered			1	
Livestock Management, Anti-Backflow device installed			1	
Livestock Management, Recordkeeping			3	
Livestock Management, Siting			2	
Livestock Yard, Drainage Diversion			1	
Livestock Yard, Manure Scrape and Haul			2	
Livestock Yard, Runoff Management			2	
Livestock Yard, Surface Water Setback			3	
LMP Allows for Active and Adaptive Management			2	
LMP Includes Details of Desired Future Conditions			1	
LMP Includes Landowner Objectives			5	
LMP Prepared By Professional Natural Resource Manager			3	
Manure Application, MARI Completed			1	
Manure Application, Ponding, Erosion, and Runoff Avoided			5	



FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Manure Application, Rate Determination			3	
Manure Storage, Clean Water Diverted			10	
Manure Storage, Farmstead Stacked, Odor and Pest Control			1	
Manure Storage, Isolation Distances Met			10	
Manure Storage, Runoff Management			2	
Manure Storage, Temporary Duration			4	
Manure Storage, Temporary Location			9	
Manure Storage, Temporary Stacked, Odor and Pest Control			2	
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Manure, Isolation Distances Met			1	
Manure, Management Records			8	
Manure, Nutrient Content Determination			1	
Manure, Odor Management			1	
Non-Forested/Non-Wetland Habitats Being Restored			1	
Nutrient Management Plans, Annual By Field		2,644		
Nutrients, All Sources Considered			5	
Odor Management Plan			10	
Other Environmental Risks Resolved			71	
P Fertilizer, Rate Determination			2	
Pasture Management For Vegetation and Runoff			2	
Pasture Management, Protecting Surface Water			1	
Pasture Soil Tested			9	
Pastures Have Current Soil Tests			8	
Pesticide Spill Kit Availability			11	
Pesticides, Application Recordkeeping			5	
Pesticides, Container Handling			3	
Pesticides, Drift Management Plan, New			13	
Pesticides, Emergency Plan and Contacts			2	
Pesticides, Mixing and Loading In Field			5	
Pesticides, Rinsate Disposal			2	
Precipitation Leading to Contaminated Run-Off			1	
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats			3	
RTF Site Selection and Odor-Control GAAMPS Met			2	
Runoff/Sedimentation Controlled		125	1	
RUP Compliance			1	
Secondary Containment, Mix-Load			8	
Secondary Containment, Operational Pad			2	
Secondary Containment, Pesticides			4	
Septic, Pumping			3	
Soil and/or Tissue Testing, Quadrennial		22		
Soil Erosion Controlled		6,370		
Soil Testing, Representative Sampling		13	12	
Soil Testing, Triennial		1,685	38	
Soil, Nutrient Records		3,107		
Storage, Appropriate Tanks			22	
Storage, Buildings Setback			2	
Storage, Elevation			2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Storage, Isolated From Other Products			2	
Storage, Monitored for Leaks			5	
Storage, Security			5	
Storage, Signage			7	
Storage, Spill Kit			25	
Sustainable Soil And Water Quality Practices Followed			8	
Veterinary Product and Waste Disposal			2	
Waste, Floor Drains			4	
Waste, Isolation Distances Met			3	
Waste, Recycling and Disposal			1	
Water Bodies Identified And Riparian Management Zones Established			1	
Well Decommissioned			4	
Well Repaired to Standards			9	
Well Tests, Every Three Years			21	
Well Tests, Health Standards			4	
Wetlands And Water Bodies Protected From Pollution And Sedimentation			1	
<b>Montcalm</b>		<b>4,132</b>	<b>50</b>	
Drift Management Plan, New			3	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		<b>11</b>		
Farm Emergency Plan Developed and Followed, New			1	
Forest Roads Established And Maintained To Avoid Erosion			1	
Forestry Management Plan, New			4	
Impermeable Surface, Fuel			3	
Land Management Plan, New			1	
Large Quantity Water Withdrawal Registered			1	
Manure, Management Records			2	
Nutrient Management Plans, Annual By Field		<b>40</b>		
Other Environmental Risks Resolved			1	
P Fertilizer, Rate Determination			1	
Pesticides, Drift Management Plan, Revised		<b>2,000</b>		
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats			1	
Runoff/Sedimentation Controlled		<b>40</b>		
Secondary Containment, Fuel			3	
Secondary Containment, Mix-Load			1	
Soil Erosion Controlled		<b>40</b>		
Soil Testing, Triennial		<b>2,000</b>	<b>5</b>	
Soil, Nutrient Records		<b>1</b>		
Storage, Decommissioned			1	
Storage, Signage			6	
Storage, Spill Kit			1	
Storage, Spill Protection			3	
Waste, Floor Drains			1	
Water Use Reported			1	
Well Decommissioned			2	
Well Tests, Every Three Years			5	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
<b>Montmorency</b>		<b>1</b>	<b>47</b>	
Adverse Impact To Endangered And Threatened Species Avoided			1	
Dead Animals Handled According to BODA			1	
Forestation Achieves Adequate Stocking Levels			1	
Impermeable Surface, Fuel			1	
IPM Used To Control Pests			1	
Livestock Yard, Runoff Management			2	
Manure Application, MARI Completed			1	
Manure Storage, Temporary Location			1	
Secondary Containment, Mix-Load			1	
Soil Testing, Representative Sampling			4	
Soil Testing, Triennial			6	
Soil, Nutrient Records		1		
Storage, Signage			1	
Storage, Spill Kit			1	
Veterinary Product and Waste Disposal			4	
Waste, Ash Disposal			1	
Waste, Recycling and Disposal			13	
Well Tests, Every Three Years			3	
Well Tests, Health Standards			4	
<b>Muskegon</b>		<b>2,504</b>	<b>221</b>	
Adequate Land Base for Nutrients			1	
Anti-Backflow Device Installed			27	
Containers, Properly Rinsed			2	
Crop Yields, Realistic Goals			4	
Drift Management Plan, New			2	
Emergency Plan, Fertilizer New			3	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Manure Spill, Revised			2	
Emergency Plan, Pesticide New			6	
Environmentally Sensitive Areas Identified		1,645		
Excess Product and Rinsate, Label Rates			1	
Farm Emergency Plan Developed and Followed, New			1	
Fertilizer, Application Equipment Calibration			3	
Fertilizer, Determination of Rates			5	
Impermeable Surface, Fuel			2	
Irrigation, Amount Determined Accurately			4	
Irrigation, Evaluation for Uniformity			2	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			5	
Irrigation, Scheduling			1	
Irrigation, System Evaluation			2	
Isolation Distances Met			17	
Livestock Management, Recordkeeping			1	
Livestock Management, Siting			1	
Livestock Yard, Drainage Diversion			1	

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Livestock Yard, Runoff Management		3	
Livestock Yard, Surface Water Setback		1	
Manure Application, Procedure	19		
Manure Application, Rate Determination		2	
Manure Application, Runoff Prevention	1		
Manure Storage, Temporary Duration		1	
Manure Storage, Temporary Location		1	
Manure Storage, Temporary Stacked, Surface Water Setback		1	
Manure, Application Rates Do Not Exceed Crop N Needs	19		
Manure, Application Rates Do Not Exceed Crop P Needs	19		
Manure, Management Records		3	
Manure, Nutrient Content Determination		3	
N Fertilizer, Split/Multiple Applications	1		
Nutrient Management Plans, Annual By Field	29		
Nutrients, All Sources Considered		5	
Odor Management Plan		4	
P Fertilizer, Placement	1		
P Fertilizer, Rate Determination		8	
Pasture Soil Tested		1	
Pesticide Drift Management Plan, New		2	
Pesticide Drift Management Plan, Revised		1	
Pesticide Handling, Field Mixing and Loading		3	
Pesticide Mixture, Disposal of Excess		1	
Pesticide Rinsate, Proper Handling		2	
Pesticide Spill Kit Availability		2	
Pesticides, Drift Management Plan, New		2	
Pesticides, Emergency Plan and Contacts		2	
Pesticides, Excess Spray Mixture Use		1	
Pesticides, Mixing and Loading In Field		1	
Pesticides, Rinsate Disposal		6	
Required Regulatory Reporting and Recordkeeping Compliance		9	
Secondary Containment, Fuel		1	
Secondary Containment, Mix-Load		3	
Secondary Containment, Pesticides		1	
Soil and/or Tissue Testing, Quadrennial	2		
Soil Erosion Controlled	712		
Soil Testing, Representative Sampling		3	
Soil Testing, Triennial		7	
Soil, Nutrient Records	37		
Soil, pH Maintenance	19		
Sprayer, Cleaning Water Collected		1	
Storage, Application Equipment		1	
Storage, Appropriate Tanks		1	
Storage, Monitored for Leaks		1	
Storage, Signage		3	
Storage, Spill Kit		6	
Waste, Floor Drains		8	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Waste, Recycling and Disposal			3	
Well Inspected			1	
Well Repaired to Standards			2	
Well Tests, Every Three Years			10	
Well Tests, Health Standards			6	
Worker Protection, Proper Training			1	
<b>Newaygo</b>		<b>2,586</b>	<b>404</b>	
Adequate Land Base for Nutrients			1	
Adverse Impact To Endangered And Threatened Species Avoided			1	
Anti-Backflow Device Installed			24	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats			1	
Containers, Properly Rinsed			7	
Cover Crop Use		1		
Crop Yields, Realistic Goals			5	
Dead Animals Handled According to BODA			3	
Drift Management Plan, New			8	
Emergency Plan, Fertilizer New			6	
Emergency Plan, Manure Spill, New			6	
Emergency Plan, Manure Spill, Revised			2	
Emergency Plan, Pesticide New			6	
Environmentally Sensitive Areas Identified		433		
Equipment, Parking and Storage			6	
Excess Product, Label Rates			1	
Fertilizer, Application Equipment Calibration			1	
Fertilizer, Determination of Rates			10	
Hydrant MDEQ Approved			1	
Impermeable Surface			1	
Impermeable Surface, Fuel			8	
Invasive Species Identified And Managed			1	
IPM Used To Control Pests			2	
Irrigation, Amount Determined Accurately			2	
Irrigation, Evaluation for Uniformity			3	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			2	
Irrigation, Scheduling			1	
Isolation Distances Met			34	
Large Quantity Water Withdrawal Registered			3	
Livestock Management, Anti-Backflow device installed			4	
Livestock Management, NMP			2	
Livestock Management, Recordkeeping			5	
Livestock Management, Runoff Management			1	
Livestock Management, Siting			1	
Livestock Yard, Drainage Diversion			2	
Livestock Yard, Floor			1	
Livestock Yard, Runoff Management			1	
Livestock Yard, Surface Water Setback			1	
Manure Application, Odor-Reduction Practices Used			1	

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Manure Application, Procedure	6		
Manure Application, Rate Determination		7	
Manure Application, Rates Do Not Exceed Crop N Needs		1	
Manure Application, Rates Do Not Exceed Crop P Needs		2	
Manure Application, Runoff Prevention	715		
Manure Storage, Field Stacked Duration		2	
Manure Storage, Temporary Duration		2	
Manure Storage, Temporary Location		4	
Manure Storage, Temporary Stacked, Surface Water Setback		1	
Manure, Application Rates Do Not Exceed Crop N Needs	16		
Manure, Application Rates Do Not Exceed Crop P Needs	16		
Manure, Management Records		6	
Manure, Nutrient Content Determination		11	
N Fertilizer, Split/Multiple Applications	1		
Nutrient Management Plans, Annual By Field	550		
Nutrients, All Sources Considered		8	
Odor Management Plan		7	
P Fertilizer, Rate Determination		9	
Pasture Management For Vegetation and Runoff		1	
Pasture Management, Manure Near Water Tanks/Feeders		1	
Pasture Management, Protecting Surface Water		1	
Pasture Management, Protection of Stream Banks and Surface Water		1	
Pasture Soil Tested		2	
Pastures Have Current Soil Tests		4	
Pesticide Drift Management Plan, New		8	
Pesticide Handling, Field Mixing and Loading		5	
Pesticide Spill Kit Availability		8	
Pesticides Used And Stored According To EPA, SSWQPs		1	
Pesticides, Application Recordkeeping		2	
Pesticides, Container Handling		7	
Pesticides, Drift Management Plan, New		2	
Pesticides, Emergency Plan and Contacts		3	
Pesticides, Rinsate Disposal		6	
Precipitation Leading to Contaminated Run-Off		1	
Required Regulatory Reporting and Recordkeeping Compliance		6	
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats		1	
Rinsate, Label Rates		6	
Secondary Containment, Fertilizer		4	
Secondary Containment, Fuel		1	
Secondary Containment, Mix-Load		6	
Secondary Containment, Pesticides		7	
Silage, Leachate Management		1	
Soil Erosion Controlled	45		
Soil Quality Indicators Evaluated		1	
Soil Testing, Representative Sampling		5	
Soil Testing, Triennial		12	
Soil, Nutrient Records	796		

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Soil, pH Maintenance		7		
Storage, Application Equipment		1		
Storage, Corrosion Protection		1		
Storage, Decommissioned		1		
Storage, Elevation		3		
Storage, Monitored for Leaks		2		
Storage, Security		8		
Storage, Signage		5		
Storage, Spill Kit		7		
Surface Drains Present Around Farmstead		1		
Veterinary Product and Waste Disposal		2		
Waste, Floor Drains		6		
Waste, Isolation Distances Met		3		
Waste, Recycling and Disposal		2		
Water Use Reported		1		
Well Decommissioned		8		
Well Repaired to Standards		4		
Well Tests, Every Three Years		10		
Well Tests, Health Standards		9		
Wetlands Enrolled In Long-Term Or Permanent Conservation Programs		1		
<b>Oakland</b>		<b>2,423</b>	<b>49</b>	
Drift Management Plan, New		2		
Emergency Plan, Manure Spill, New		1		
Emergency Plan, Pesticide New		1		
Environmentally Sensitive Areas Identified		1,138		
Fertilizer, Determination of Rates		1		
Fertilizer, Rate Determination		40		
Impermeable Surface, Fuel		1		
Irrigation, Amount Determined Accurately		3		
Irrigation, Record Keeping		1		
Land Management Plan, New		1		
Landowner Complies With Laws And Ordinances		2		
Livestock Management, Recordkeeping		2		
Manure Application, Rate Determination		1		
Manure Application, Rates Do Not Exceed Crop N Needs		1		
Manure Application, Rates Do Not Exceed Crop P Needs		1		
Manure Applications, Weather Forecasts Monitored		1		
Manure Storage, Design and Construction		1		
Manure Storage, Farmstead Stacked, Odor and Pest Control		1		
Manure Storage, Temporary Location		2		
Manure Storage, Temporary Stacked, Surface Water Setback		1		
Manure, Application Rates Do Not Exceed Crop P Needs		1		
Manure, Nutrient Content Determination		1		
Manure, Winter Application Procedure		60		
Nutrient Management Plans, Annual By Field		62		
Odor Management Plan		2		
Pastures Have Current Soil Tests		12	4	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Pesticide Spill Kit Availability			1	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Equipment Calibration			1	
Pesticides, Resistance Prevention			1	
Precipitation Leading to Contaminated Run-Off			1	
Soil Erosion Controlled		1,050		
Soil Testing, Representative Sampling			2	
Soil Testing, Triennial			3	
Soil, Nutrient Records		60		
Storage, Signage			2	
Waste, Floor Drains			2	
Well Tests, Every Three Years			3	
<b>Oceana</b>		<b>13,624</b>	<b>607</b>	<b>2,000</b>
Adequate Land Base for Nutrients			1	
Adverse Impact To Endangered And Threatened Species Avoided			2	
All Habitat Types Identified and Mapped In LMP			2	
Anti-Backflow Device Installed			7	
Backflow Prevention on Livestock Watering Systems			4	
Containers, Properly Rinsed			2	
Cover Crop Use		115		
Crop Yields, Realistic Goals			1	
Dead Animals Handled According to BODA			3	
Dead Animals, Composting Recordkeeping Meets BODA Requirements			2	
Drift Management Plan, New			10	
Drift Management Plan, Revised			16	
Emergency Plan, Manure Spill, New			6	
Emergency Plan, Manure Spill, Revised			3	
Emergency Plan, Pesticide New			15	
Emergency Plan, Pesticide Revised			42	
Emergency Plan, Spill Control and Counter-measure			1	
Environmentally Sensitive Areas Identified		9,978		
Equipment, Parking and Storage			3	
Erosion Controlled, Site		2		
Excess Product, Label Rates			2	
Farm Emergency Plan Developed and Followed, New			1	
Farm Emergency Plan Developed and Followed, Revised			9	
Fertilizer, Determination of Rates			15	
Food Safety Plan Written and Implemented			1	
Forestation Achieves Adequate Stocking Levels			1	
Forestry Management Plan, New			1	
Impermeable Surface, Fuel			11	
Invasive Species Identified And Managed			1	
IPM Consultant, University, Other Reliable Source			2	
IPM Scouting Weekly			1	
Irrigation, Amount Determined Accurately			1	
Irrigation, Backflow Prevention			2	



<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Irrigation, Chemigation Storage Setback		2	
Irrigation, Evaluation for Uniformity		3	
Irrigation, Excess Avoided		1	
Irrigation, Rain Gauges in Fields		4	
Irrigation, Record Keeping		4	
Irrigation, System Evaluation		2	
Isolation Distances Met		28	
Land Management Plan, New		2	
Landowner Enrolled in Programs Appropriate To Objectives		2	
Landowner Minimizes Impact To Cultural Sites and Works With SHPO As Needed		1	
Leaching/Runoff Toxic Potential Consideration		1	
Livestock Management, Anti-Backflow device installed		3	
Livestock Management, NMP		1	
Livestock Management, Recordkeeping		4	
Livestock Yard, Floor		1	
Livestock Yard, Manure Scrape and Haul		1	
Livestock Yard, Runoff Management		1	
LMP Allows for Active and Adaptive Management		2	
LMP Includes Landowner Objectives		1	
LMP Prepared By Professional Natural Resource Manager		1	
Manure Application, Odor-Reduction Practices Used		1	
Manure Application, Rate Determination		8	
Manure Application, Rates Do Not Exceed Crop N Needs		2	
Manure Application, Rates Do Not Exceed Crop P Needs		2	
Manure Applications, Weather Forecasts Monitored		2	
Manure Storage, Field Stacked Duration		1	
Manure Storage, Isolation Distances Met		1	
Manure Storage, Temporary Location		1	
Manure, Application Rates Do Not Exceed Crop N Needs	200		
Manure, Application Rates Do Not Exceed Crop P Needs	200		
Manure, Applications Managed for Food Safety		1	
Manure, Management Records		2	
Manure, Nutrient Content Determination		7	
Milking Center, Parlor Cleanup Practices		1	
Mix-Load, Measuring Devices		1	
Non-Forested/Non-Wetland Habitats Being Restored		3	
Nutrient Management Plans, Annual By Field	49		
Nutrients, All Sources Considered		1	
Odor Management Plan		5	
Other Environmental Risks Resolved		1	
P Fertilizer, Rate Determination		2	
Pasture Management For Vegetation and Runoff		1	
Pasture Soil Tested		2	
Pastures Have Current Soil Tests		1	
Pesticide Application, Recordkeeping		2	
Pesticide Containers Are Recyclable or Returnable		1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Pesticide Drift Management Plan, New		3		
Pesticide Drift Management Plan, Revised		15		
Pesticide Handling, Field Mixing and Loading		2		
Pesticide Mixture, Disposal of Excess		1		
Pesticide Spill Kit Availability		8		
Pesticides Used And Stored According To EPA, SSWQPs		2		
Pesticides, Application Recordkeeping		4		
Pesticides, Container Handling		6		
Pesticides, Drift Management Plan, New		7		
Pesticides, Drift Management Plan, Revised		6		
Pesticides, Emergency Plan and Contacts		7		
Pesticides, Equipment Calibration		2		
Pesticides, Label Compliance		1		
Pesticides, Mixing and Loading In Field		3		
Pesticides, Rinsate Disposal		3		
Pollinator Habitat Set Aside		11		
Required Regulatory Reporting and Recordkeeping Compliance		31		
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats		1		
Rinsate, Label Rates		1		
RTF Site Selection and Odor-Control GAAMPS Met		1		
Runoff/Sedimentation Controlled		7		
RUP Compliance		3		
Secondary Containment, Fuel		4		
Secondary Containment, Leaks and Precipitation		1		
Secondary Containment, Mix-Load		9		
Secondary Containment, Pesticides		7		
Septic, Designed Use		1		
Soil and/or Tissue Testing, Quadrennial		320		
Soil Erosion Controlled		1,401		
Soil Testing, Triennial		5	5	
Soil, Nutrient Records		243		
Soil, pH Maintenance		1,100		
Special Sites Protected		2		
Sprayer, Cleaning Water Collected		3		
Storage, Application Equipment		3		
Storage, Appropriate Tanks		6		
Storage, Buildings Setback		5		
Storage, Dedicated		4		
Storage, Elevation		2		
Storage, Isolated From Other Products		1		
Storage, Labeled Containers		3		
Storage, Security		9		
Storage, Shelving		1		
Storage, Signage		28		
Storage, Spill Kit		28		
Timber Harvesting Conducted According To FMP		3		
Veterinary Product and Waste Disposal		2		

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Waste, Floor Drains			12	
Waste, Isolation Distances Met			6	
Waste, Recycling and Disposal			1	
Water Management, Wastewater				2,000
Water Use Reported			8	
Weather Stations/Models Used, On-Farm			1	
Well Construction			1	
Well Decommissioned			4	
Well Repaired to Standards			2	
Well Setback, Manure Sources			1	
Well Tests, Every Three Years			41	
Well Tests, Health Standards			5	
Worker Protection Standards Met			1	
Worker Protection, Central Notification			1	
<b>Ogemaw</b>		<b>1,524</b>	<b>44</b>	
Drift Management Plan, New			1	
Emergency Plan, Pesticide New			2	
Environmentally Sensitive Areas Identified		<b>850</b>		
Erosion Controlled, Site		<b>1</b>		
Fill Opening Separate From Vent Opening			3	
Impermeable Surface, Fuel			5	
Isolation Distances Met			4	
Livestock Management, Siting			1	
Livestock Yard, Runoff Management			1	
Livestock Yard, Surface Water Setback			1	
Manure Storage, Liquid Storage Freeboard Maintained			1	
Manure Storage, Temporary Duration			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			1	
Secondary Containment, Fuel			3	
Silage, Leachate Collection/Treatment			1	
Soil Erosion Controlled		<b>673</b>		
Storage, Appropriate Tanks			3	
Storage, Elevation			3	
Storage, Security			3	
Storage, Signage			3	
Storage, Valves and Hoses			3	
Well Repaired to Standards			1	
Well Tests, Every Three Years			2	
<b>Osceola</b>		<b>37</b>	<b>113</b>	
106 Forest Management Plan - Written			1	
All Habitat Types Identified and Mapped In LMP			1	
Anti-Backflow Device Installed			1	
Chemigation Interlock and Safety Systems			1	
Drift Management Plan, New			5	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			15	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			1	
Emergency Plan, Pesticide Revised			1	
Erosion Controlled, Site		2		
Farm Emergency Plan Developed and Followed, New			3	
Fertilizer, Determination of Rates			1	
Forestry Management Plan, New			1	
Impermeable Surface, Fuel			10	
Irrigation, Excessive Applications Avoided			1	
Irrigation, Record Keeping			1	
Land Management Plan, New			2	
Livestock Management, Recordkeeping			1	
Livestock Yard, Surface Water Setback			1	
LMP Allows for Active and Adaptive Management			1	
LMP Prepared By Professional Natural Resource Manager			1	
Manure Storage, Temporary Location			1	
Manure, Management Records			1	
Odor Management Plan			8	
Pasture Management, Protection of Stream Banks and Surface Water			3	
Pastures Have Current Soil Tests			1	
Pesticide Inventory Control			2	
Pesticide Spill Kit Availability			1	
Pesticides, Drift Management Plan, Revised			1	
Pesticides, Emergency Plan and Contacts			2	
Secondary Containment, Fuel			1	
Secondary Containment, Pesticides			1	
Soil Erosion Controlled		25		
Soil Testing, Triennial		10	3	
Soil, Nutrient Records			1	
Storage, Dedicated			3	
Storage, Elevation			3	
Storage, Monitored for Leaks			1	
Storage, Security			3	
Storage, Spill Kit			5	
Well Decommissioned			2	
Well Tests, Every Three Years			15	
Well Tests, Health Standards			4	
<b>Oscoda</b>		<b>592</b>	<b>69</b>	
Adequate Land Base for Nutrients			2	
Anti-Backflow Device Installed			1	
Crop Yields, Realistic Goals			1	
Dead Animals Handled According to BODA			2	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			4	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		296		

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Fertilizer, Determination of Rates			1	
Forestry Management Plan, New			1	
Invasive Species Identified And Managed			1	
Large Quantity Water Withdrawal Registered			1	
Livestock Management, Recordkeeping			6	
Manage Visual Impacts Of Forest Management Using Visual Quality Criteria In RTF GAFMPs			1	
Manure Application, MARI Completed			1	
Manure Application, Rates Do Not Exceed Crop N Needs			1	
Manure, Nutrient Content Determination			2	
Manure, Winter Application Procedure		148		
Nutrients, All Sources Considered			2	
Odor Management Plan			4	
Pasture Management For Vegetation and Runoff			1	
Pasture Soil Tested			4	
Pastures Have Current Soil Tests			4	
Pesticide Application, Recordkeeping			1	
Pesticide Drift Management Plan, New			1	
Pesticide Spill Kit Availability			1	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			1	
Required Regulatory Reporting and Recordkeeping Compliance			1	
Soil Erosion Controlled			1	
Soil Testing, Representative Sampling			3	
Soil Testing, Triennial			3	
Soil, Nutrient Records		148		
Storage, Signage			1	
Storage, Spill Kit			1	
Veterinary Product and Waste Disposal			2	
Well Tests, Every Three Years			5	
Well Tests, Health Standards			3	
<b>Otsego</b>		94	51	
Anti-Backflow Device Installed			5	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			2	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			4	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		60		
Impermeable Surface, Fuel			1	
Isolation Distances Met			1	
Livestock Management, Recordkeeping			3	
Manure Application, Odor-Reduction Practices Used			1	
Manure Application, Runoff Prevention		1		
Manure Runoff Prevention		1		
Manure Storage, Farmstead Stacked, Odor and Pest Control			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Manure Storage, Field Stacked Duration			1	
Manure Storage, Odor and Pest Control			1	
Manure Storage, Temporary Duration			3	
Manure Storage, Temporary Location			2	
Manure Storage, Temporary Stacked, Odor and Pest Control			2	
Manure Storage, Temporary Stacked, Surface Water Setback			2	
Manure, Application Procedure		1		
Manure, Application to Avoid Ponding, Erosion, and Runoff			2	
Manure, Field Stockpile Duration			1	
Manure, Isolation Distances Met			1	
Manure, Management Records			3	
Manure, Odor Management			1	
Manure, Temporary Stacking Setback			1	
Nutrient Management Records, Multiple			1	
Odor Management Plan			1	
Pesticides, Container Handling			1	
Soil, Nutrient Records		31		
Veterinary Product and Waste Disposal			3	
Well Setback, Manure Sources			1	
Well Tests, Every Three Years			3	
<b>Ottawa</b>		<b>6,521</b>	<b>311</b>	<b>15,000</b>
Adequate Land Base for Nutrients			2	
Anti-Backflow Device Installed			8	
Chemigation, Anti-backflow Device			2	
Containers, Properly Rinsed			1	
Crop Yields, Realistic Goals			1	
Dead Animals Handled According to BODA			8	
Dead Animals, Composting Recordkeeping Meets BODA Requirements			1	
Drift Management Plan, New			12	
Emergency Plan, Employee Training			1	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Manure Spill, New			6	
Emergency Plan, Manure Spill, Revised			3	
Emergency Plan, Pesticide New			8	
Emergency Plan, Pesticide Revised			2	
Environmentally Sensitive Areas Identified		1,971		
Equipment, Parking and Storage			1	
Erosion Controlled, Site		7		
Farm Emergency Plan Developed and Followed, New			1	
Fertilizer, Application Equipment Calibration			1	
Fertilizer, Determination of Rates			1	
Fertilizer, Rate Determination		911		
Herbicide Setback Maintenance			2	
Impermeable Surface, Fuel			5	
Irrigation Records Maintained			1	
Irrigation, Amount Determined Accurately			2	
Irrigation, Backflow Prevention			3	

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Irrigation, Rain Gauges in Fields		1	
Irrigation, Record Keeping		5	
Irrigation, Scheduling		1	
Irrigation, Sock Wells Isolated		5	
Irrigation, System Evaluation		2	
Isolation Distances Met		20	
Livestock Management, Anti-Backflow device installed		5	
Livestock Management, Recordkeeping		4	
Livestock Management, Siting		1	
Livestock Yard, Runoff Management		2	
Livestock Yard, Surface Water Setback		1	
Manure Application, Rate Determination		2	
Manure Application, Rates Do Not Exceed Crop P Needs		1	
Manure Application, Runoff Prevention	2		
Manure Storage, Design and Construction		1	
Manure Storage, Isolation Distances Met		3	
Manure Storage, Liquid Storage Design and Installation		2	
Manure Storage, Liquid Storage Maintained Properly			15,000
Manure Storage, Temporary Duration		1	
Manure Storage, Temporary Location		4	
Manure, Application Rates Do Not Exceed Crop P Needs	111		
Manure, Isolation Distances Met		1	
Manure, Management Records		1	
Manure, Nutrient Content Determination		1	
Manure, Winter Application Procedure	13		
Milking Center, Wastewater Collection and Storage		1	
Mix-Load, Filling Monitored		1	
No Cross-Connections With Potable Water and Isolation Distances Met		12	
Nutrient Management Plans, Annual By Field	16		
Nutrient Management Records, Multiple		2	
Nutrients, All Sources Considered		3	
Odor Management Plan		9	
P Fertilizer, Application to Frozen or Snow Covered Fields	106		
Pastures Have Current Soil Tests		1	
Pesticide Application Equipment Calibrated Annually		2	
Pesticide Application, Recordkeeping		2	
Pesticide Drift Management Plan, New		2	
Pesticide Handling, Field Mixing and Loading		1	
Pesticide Mixture, Disposal of Excess		1	
Pesticide Rinsate, Proper Handling		2	
Pesticide Spill Kit Availability		2	
Pesticides, Application Recordkeeping		1	
Pesticides, Container Handling		2	
Pesticides, Drift Management Plan, New		2	
Pesticides, Emergency Plan and Contacts		3	
Pesticides, Equipment Calibration		4	
Pesticides, Excess Spray Mixture Use		1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Pesticides, Label Compliance			1	
Pesticides, Mixing and Loading In Field			1	
Pesticides, Rinsate Disposal			2	
Rinsate, Label Rates			1	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Secondary Containment, Mix-Load			3	
Secondary Containment, Pesticides			3	
Septic, Designed Use			1	
Soil and/or Tissue Testing, Quadrennial		117		
Soil Erosion Controlled		3,260		
Soil Testing, Representative Sampling			1	
Soil Testing, Triennial			5	
Soil, Nutrient Records		7		
Storage, Appropriate Tanks			3	
Storage, Dedicated			4	
Storage, Portable Fueling			2	
Storage, Signage			10	
Storage, Spill Kit			12	
Storage, Valves and Hoses			2	
Veterinary Product and Waste Disposal			5	
Waste, Floor Drains			3	
Waste, Recycling and Disposal			2	
Well Construction			7	
Well Decommissioned			2	
Well Inspected			4	
Well Repaired to Standards			11	
Well Tests, Every Three Years			24	
Well Tests, Health Standards			9	
<b>Presque Isle</b>		<b>90</b>	<b>117</b>	
Adverse Impact To Endangered And Threatened Species Avoided			1	
Anti-Backflow Device Installed			4	
Backflow Prevention on Livestock Watering Systems			4	
Conservation Practices Routinely Evaluated			1	
Dead Animals Handled According to BODA			4	
Dead Animals, Composting Isolation Distance			1	
Drift Management Plan, New			2	
Emergency Plan, Manure Spill, New			4	
Emergency Plan, Pesticide New			5	
Environmentally Sensitive Areas Identified		42		
Forestry Management Plan, New			1	
Hydrant MDEQ Approved			1	
Isolation Distances Met			2	
Livestock Management, Anti-Backflow device installed			2	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			2	
Livestock Management, Siting			3	
Livestock Yard, Surface Water Setback			1	



FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Manure, Management Records			2	
Nutrient Management Plans, Annual By Field		1		
Odor Management Plan			2	
P Fertilizer, Rate Determination			1	
Pasture Management, Manure Near Water Tanks/Feeders			1	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			2	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Secondary Containment, Pesticides			1	
Soil Testing, Representative Sampling			11	
Soil Testing, Triennial			17	
Soil, Nutrient Records		47		
Storage, Security			1	
Storage, Signage			2	
Storage, Spill Kit			3	
Veterinary Product and Waste Disposal			7	
Waste, Floor Drains			1	
Waste, Recycling and Disposal			7	
Well Tests, Every Three Years			9	
Well Tests, Health Standards			9	
<b>Roscommon</b>		<b>980</b>	<b>34</b>	
Adequate Land Base for Nutrients			2	
Anti-Backflow Device Installed			1	
Dead Animals Handled According to BODA			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Manure Spill, Revised			1	
Environmentally Sensitive Areas Identified		412		
Erosion Controlled, Site		184		
Impermeable Surface, Fuel			1	
Livestock Management, Anti-Backflow device installed			1	
Livestock Management, NMP			1	
Manure Application, Runoff Prevention		92		
Manure, Management Records			1	
Manure, Nutrient Content Determination			2	
Odor Management Plan			5	
Pastures Have Current Soil Tests			2	
Pesticides, Emergency Plan and Contacts			2	
Soil Erosion Controlled		292		
Soil Testing, Representative Sampling			2	
Soil Testing, Triennial			2	
Veterinary Product and Waste Disposal			2	
Well Tests, Every Three Years			2	
Well Tests, Health Standards			3	
<b>Saginaw</b>		<b>39,946</b>	<b>108</b>	
Adequate Land Base for Nutrients			1	
Anti-Backflow Device Installed			2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Cover Crop Use		200		
Drift Management Plan, New		4		
Emergency Plan, Fertilizer New		2		
Emergency Plan, Fertilizer Revised		1		
Emergency Plan, Pesticide New		5		
Emergency Plan, Pesticide Revised		1		
Emergency Plan, Spill Control and Counter-measure		1		
Environmentally Sensitive Areas Identified		17,214		
Fertilizer Records Maintained		1		
Fertilizer, Rate Determination		8		
Impermeable Surface, Fuel		5		
Irrigation Records Maintained		2		
Isolation Distances Met		6		
Manure Storage, Isolation Distances Met		1		
Manure, Management Records		2		
Manure, N Application Rates		8		
Manure, Nutrient Content Determination		2		
Manure, Temporary Stacking Setback		1		
Manure, Winter Application Procedure		25		
Nutrient Management Plans, Annual		8		
Nutrient Management Plans, Annual By Field		3,166		
Nutrient Management Records, Multiple		1		
Nutrients, All Sources Considered		2		
Odor Management Plan		1		
Other Environmental Risks Resolved		2		
Pesticide Drift Management Plan, New		1		
Pesticide Handling, Field Mixing and Loading		1		
Pesticide Spill Kit Availability		4		
Pesticides, Drift Management Plan, New		9		
Pesticides, Emergency Plan and Contacts		5		
Pesticides, Excess Spray Mixture Use		1		
Pesticides, Rinsate Disposal		2		
Required Regulatory Reporting and Recordkeeping Compliance		1		
RTF Site Selection and Odor-Control GAAMPS Met		1		
Secondary Containment, Fuel		3		
Secondary Containment, Mix-Load		2		
Secondary Containment, Operational Pad		1		
Secondary Containment, Pesticides		1		
Soil and/or Tissue Testing, Quadrennial		8		
Soil Erosion Controlled		18,811		
Soil Testing, Triennial		500	2	
Storage, Elevation		1		
Storage, Portable Fueling		1		
Storage, Security		2		
Storage, Signage		3		
Storage, Spill Kit		3		
Waste, Floor Drains		1		

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Well Decommissioned			3	
Well Tests, Every Three Years			14	
Well Tests, Health Standards			3	
<b>Saint Clair</b>		<b>4,539</b>	<b>114</b>	
Adequate Land Base for Nutrients			2	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			4	
Dead Animals, Composting Recordkeeping Meets BODA Requirements			2	
Drift Management Plan, New			3	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Pesticide New			4	
Environmentally Sensitive Areas Identified		<b>2,148</b>		
Erosion Controlled, Site		<b>3</b>		
Impermeable Surface, Fuel			2	
Irrigation, Record Keeping			1	
Isolation Distances Met			1	
Landowner Complies With Laws And Ordinances			1	
Livestock Management, Recordkeeping			1	
Livestock Management, Siting			1	
Manure Application, MARI Completed			1	
Manure Storage, Farmstead Stacked, Odor and Pest Control			2	
Manure Storage, Isolation Distances Met			1	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Location			1	
Manure Storage, Temporary Stacked, Odor and Pest Control			1	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			1	
Manure, Winter Application Procedure		<b>380</b>		
Nutrient Management Plans, Annual By Field		<b>548</b>		
Odor Management Plan			1	
Pastures Have Current Soil Tests			3	
Pesticide Application, Recordkeeping			2	
Pesticide Drift Management Plan, New			2	
Pesticide Spill Kit Availability			6	
Pesticides, Application Recordkeeping			5	
Pesticides, Drift Management Plan, New			6	
Pesticides, Drift Management Plan, Revised			1	
Pesticides, Emergency Plan and Contacts			6	
Pesticides, Excess Spray Mixture Use			1	
Pesticides, Label Compliance			1	
Pesticides, Mixing and Loading In Field			3	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			2	
Soil and/or Tissue Testing, Quadrennial		<b>4</b>		
Soil Erosion Controlled		<b>911</b>		

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians			
Practices Implemented by County	Units		
	Acres	Each	Gallon
Soil Testing, Triennial	12	3	
Soil, Nutrient Records	533		
Storage, Signage		7	
Storage, Spill Kit		4	
Waste, Floor Drains		3	
Water, Protected From Pesticide Contamination		2	
Weather Stations/Models Used, On-Farm		1	
Well Tests, Every Three Years		11	
Well Tests, Health Standards		8	
<b>Saint Joseph</b>	<b>121</b>	<b>109</b>	
Chemigation Interlock and Safety Systems		4	
Drift Management Plan, New		5	
Drift Management Plan, Revised		4	
Emergency Plan, Fertilizer New		5	
Emergency Plan, Fertilizer Revised		3	
Emergency Plan, Manure Spill, New		7	
Emergency Plan, Manure Spill, Revised		2	
Emergency Plan, Pesticide New		4	
Emergency Plan, Pesticide Revised		4	
Environmentally Sensitive Areas Identified	55		
Impermeable Surface, Fuel		3	
Isolation Distances Met		4	
Livestock Yard, Drainage Diversion		2	
Manure Application, Rate Determination		1	
Manure, Management Records		1	
Odor Management Plan		7	
Pesticide Spill Kit Availability		2	
Pesticides, Application Recordkeeping		1	
Pesticides, Drift Management Plan, New		3	
Pesticides, Drift Management Plan, Revised		6	
Pesticides, Emergency Plan and Contacts		8	
Pesticides, Mixing and Loading In Field		1	
Required Regulatory Reporting and Recordkeeping Compliance		1	
Secondary Containment, Mix-Load		1	
Secondary Containment, Pesticides		1	
Soil Testing, Representative Sampling		1	
Soil Testing, Triennial		1	
Soil, Nutrient Records	66		
Storage, Application Equipment		1	
Storage, Buildings Setback		1	
Storage, Fertilizer Liquid		2	
Storage, Signage		2	
Storage, Spill Kit		1	
Waste, Floor Drains		5	
Waste, Recycling and Disposal		1	
Water, Protected From Pesticide Contamination		1	
Well Decommissioned		2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Well Tests, Every Three Years			11	
<b>Sanilac</b>		<b>77,987</b>	<b>379</b>	
Adequate Land Base for Nutrients			3	
Anti-Backflow Device Installed			1	
Cover Crop Use		<b>1,500</b>		
Dead Animals Handled According to BODA			2	
Drift Management Plan, New			3	
Drift Management Plan, Revised			5	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			4	
Emergency Plan, Pesticide Revised			1	
Emergency Plan, Spill Control and Counter-measure			1	
Environmentally Sensitive Areas Identified		<b>22,918</b>		
Fertilizer, Determination of Rates			6	
Fill Opening Separate From Vent Opening			13	
Herbicide Setback Maintenance			4	
Impermeable Surface, Fuel			7	
Isolation Distances Met			7	
Livestock Management, Recordkeeping			3	
Manure Application, MARI Completed			2	
Manure Application, Procedure		<b>2,200</b>		
Manure Storage, Liquid Storage, Nearby Area Maintained			1	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Manure, Liquid Loss Through Tile Lines			5	
Manure, Management Records			21	
Manure, Nutrient Content Determination			13	
Manure, Winter Application Procedure		<b>2,091</b>		
Nutrient Management Plans, Annual By Field		<b>9,009</b>		
Nutrients, All Sources Considered			1	
Odor Management Plan			6	
P Fertilizer, Rate Determination			1	
Pastures Have Current Soil Tests			2	
Pesticide Application, Recordkeeping			1	
Pesticide Spill Kit Availability			15	
Pesticides, Application Recordkeeping			25	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			21	
Pesticides, Drift Management Plan, Revised			20	
Pesticides, Emergency Plan and Contacts			2	
Pesticides, Label Compliance			19	
Pesticides, Mixing and Loading In Field			5	
Pesticides, Resistance Prevention			1	
Required Regulatory Reporting and Recordkeeping Compliance			2	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Runoff/Sedimentation Controlled			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Secondary Containment, Fertilizer			1	
Secondary Containment, Fuel			5	
Secondary Containment, Mix-Load			2	
Secondary Containment, Pesticides			2	
Silage, Bunker Silo Covered			1	
Soil and/or Tissue Testing, Quadrennial		20		
Soil Erosion Controlled		21,908		
Soil Testing, Representative Sampling		1,300	4	
Soil Testing, Triennial		1,478	7	
Soil, Nutrient Records		15,563		
Storage, Appropriate Tanks			9	
Storage, Decommissioned			1	
Storage, Dedicated			1	
Storage, Elevation			3	
Storage, Security			2	
Storage, Signage			33	
Storage, Spill Kit			2	
Storage, Spill Protection			10	
Waste, Floor Drains			6	
Waste, Isolation Distances Met			2	
Waste, Recycling and Disposal			1	
Water, Protected From Pesticide Contamination			29	
Well Tests, Every Three Years			23	
Well Tests, Health Standards			4	
<b>Schoolcraft</b>		256	64	
Adverse Impact To Endangered And Threatened Species Avoided			3	
All Habitat Types Identified and Mapped In LMP			3	
Dead Animals Handled According to BODA			4	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			3	
Environmentally Sensitive Areas Identified		216		
Irrigation, Amount Determined Accurately			1	
Irrigation, Evaluation for Uniformity			1	
Irrigation, Rain Gauges in Fields			1	
Land Management Plan, New			3	
Landowner Uses Professionals With Insurance and That Comply With Federal, State, and Local Regulations			3	
Livestock Management, Anti-Backflow device installed			1	
Livestock Management, Recordkeeping			3	
LMP Allows for Active and Adaptive Management			2	
LMP Identifies All Resource Concerns			1	
LMP Includes Landowner Objectives			3	
LMP Prepared By Professional Natural Resource Manager			2	
Manure Application, Procedure		40		
Manure, Management Records			2	
Manure, Nutrient Content Determination			5	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Odor Management Plan			2	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			1	
Pesticide Spill Kit Availability			1	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			1	
Potential Conflict Between Timber Management And Habitat Development Resolved			3	
Secondary Containment, Pesticides			1	
Soil, Nutrient Records		0		
Storage, Spill Kit			1	
Veterinary Product and Waste Disposal			2	
Waste, Floor Drains			1	
Waste, Isolation Distances Met			1	
Well Tests, Every Three Years			2	
Well Tests, Health Standards			2	
<b>Shiawassee</b>		<b>92,101</b>	<b>456</b>	<b>15,200</b>
Adequate Land Base for Nutrients			2	
Containers, Properly Rinsed			6	
Cover Crop Use		1,690		
Dead Animals Handled According to BODA			6	
Dead Animals, Composting Recordkeeping Meets BODA Requirements			1	
Drift Management Plan, New			8	
Drift Management Plan, Revised			4	
Emergency Plan, Fertilizer New			12	
Emergency Plan, Fertilizer Revised			29	
Emergency Plan, Manure Spill, New			11	
Emergency Plan, Manure Spill, Revised			6	
Emergency Plan, New, Silage			2	
Emergency Plan, Pesticide New			11	
Emergency Plan, Pesticide Revised			30	
Emergency Plan, Revised, Silage			1	
Emergency Plan, Revised, Tire Fire			1	
Emergency Plan, Spill Control and Counter-measure			2	
Environmentally Sensitive Areas Identified		50,666		
Equipment, Properly Cleaned and Rinsed			1	
Erosion Controlled, Site		1		
Fertilizer, Determination of Rates			3	
Fill Opening Separate From Vent Opening			1	
Herbicide Setback Maintenance			1	
Impermeable Surface			1	
Impermeable Surface, Fuel			14	
Irrigation, Amount Determined Accurately			2	
Irrigation, Record Keeping			2	
Isolation Distances Met			4	
Livestock Management, Anti-Backflow device installed			3	

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Livestock Management, NMP		1	
Livestock Management, Recordkeeping		11	
Livestock Management, Runoff Management		2	
Livestock Management, Siting		1	
Livestock Yard, Drainage Diversion		3	
Livestock Yard, Runoff Management		1	
Manure Application, MARI Completed		1	
Manure Application, Rate Determination		8	
Manure Application, Rates Do Not Exceed Crop N Needs		1	
Manure Application, Rates Do Not Exceed Crop P Needs		1	
Manure Storage, Capacity			15,000
Manure Storage, Designed Use		1	
Manure Storage, Liquid Storage Design and Installation		1	
Manure Storage, Liquid Storage Freeboard Maintained		1	
Manure Storage, Runoff Management		1	
Manure Storage, Temporary Duration		6	
Manure Storage, Temporary Location		3	
Manure Storage, Temporary Stacked, Surface Water Setback		1	
Manure, Application Rates Do Not Exceed Crop N Needs	1,210		
Manure, Application Rates Do Not Exceed Crop P Needs	1,200		
Manure, Management Records		4	
Manure, Nutrient Content Determination		12	
Manure, Odor Management		1	
Manure, Winter Application Procedure	540		
Mix-Load, Measuring Devices		2	
No Odor Complaints/Odor Complaints Resolved		1	
Nutrient Management Plans, Annual By Field	700		
Nutrients, All Sources Considered		3	
Odor Management Plan		11	
P Fertilizer, Rate Determination		1	
Pasture Soil Tested		1	
Pastures Have Current Soil Tests		5	
Pesticide Spill Kit Availability		7	
Pesticides, Application Recordkeeping		12	
Pesticides, Container Handling		9	
Pesticides, Drift Management Plan, New		15	
Pesticides, Drift Management Plan, Revised		2	
Pesticides, Equipment Calibration		1	
Pesticides, Mixing and Loading In Field		1	
Pesticides, Rinsate Disposal		3	
Precipitation Leading to Contaminated Run-Off		2	
Required Regulatory Reporting and Recordkeeping Compliance		2	
Secondary Containment, Fuel		5	
Secondary Containment, Mix-Load		3	
Secondary Containment, Operational Pad		1	
Secondary Containment, Pesticides		5	
Silage, Bunker Storage Floor		1	



FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Silage, Clean Water Diversion			3	
Silage, Leachate Collection/Treatment				200
Silage, Leachate Ponding			3	
Silage, Pad and Area Kept Clean			1	
Soil Erosion Controlled		30,685		
Soil Testing, Representative Sampling			1	
Soil Testing, Triennial			6	
Soil, Nutrient Records		5,409		
Storage, Appropriate Tanks			2	
Storage, Dedicated			3	
Storage, Designed Use			2	
Storage, Isolated From Other Products			1	
Storage, Labeled Containers			1	
Storage, Monitored for Leaks			1	
Storage, Security			7	
Storage, Signage			16	
Storage, Spill Kit			10	
Storage, Spill Protection			1	
Veterinary Product and Waste Disposal			12	
Waste, Floor Drains			3	
Waste, Isolation Distances Met			3	
Well Decommissioned			6	
Well Tests, Every Three Years			55	
Well Tests, Health Standards			1	
<b>St. Clair</b>		<b>9,600</b>	<b>23</b>	
Adequate Land Base for Nutrients			1	
Drift Management Plan, Revised			1	
Environmentally Sensitive Areas Identified		2,960		
Manure Application, MARI Completed			1	
Manure Application, Runoff Prevention		1,100		
Manure, Management Records			2	
Manure, Winter Application Procedure		2,580		
Soil Erosion Controlled		2,960		
Soil Testing, Triennial			12	
Storage, Signage			1	
Water, Protected From Pesticide Contamination			2	
Well Tests, Every Three Years			1	
Well Tests, Health Standards			2	
<b>St. Joseph</b>		<b>2</b>	<b>43</b>	<b>689,850</b>
Containers, Properly Rinsed			1	
Decontamination, Supplies Available			1	
Drift Management Plan, New			3	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Pesticide New			2	
Emergency Plan, Pesticide Revised			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Impermeable Surface, Fuel			1	
Isolation Distances Met			4	
Livestock Management, Recordkeeping			1	
Manure, Discharge from Tiles Prevented				689,850
Manure, Liquid Loss Through Tile Lines			1	
Manure, Management Records			1	
Pesticides, Application Recordkeeping			1	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			2	
Pesticides, Emergency Plan and Contacts			3	
Pesticides, Mixing and Loading In Field			1	
Pesticides, Rinsate Disposal			1	
Rinsate, Label Rates			1	
Secondary Containment, Fertilizer			1	
Secondary Containment, Mix-Load			2	
Secondary Containment, Pesticides			1	
Soil, Nutrient Records		2		
Storage, Signage			3	
Water, Protected From Pesticide Contamination			1	
Well Tests, Every Three Years			4	
Well Tests, Health Standards			1	
<b>Tuscola</b>		<b>25,052</b>	<b>293</b>	<b>1,374,200</b>
Adequate Land Base for Nutrients			12	
Adverse Impact To Endangered And Threatened Species Avoided			5	
Anti-Backflow Device Installed			1	
Containers, Properly Rinsed			1	
Crop Yields, Realistic Goals			1	
Dead Animals Handled According to BODA			1	
Drift Management Plan, New			2	
Emergency Plan, Manure Spill, New			4	
Emergency Plan, Pesticide New			6	
Emergency Plan, Pesticide Revised			5	
Emergency Plan, Spill Control and Counter-measure			1	
Environmentally Sensitive Areas Identified		9,456		
Herbicide Setback Maintenance			1	
Impermeable Surface, Fuel			15	
Invasive Species Identified And Managed			2	
Isolation Distances Met			2	
Leaching/Runoff Toxic Potential Consideration			5	
Livestock Management, Recordkeeping			4	
Livestock Yard, Manure Scrape and Haul			1	
Manure Application, Rates Do Not Exceed Crop P Needs			2	
Manure Storage, Liquid Storage Design and Installation			4	
Manure Storage, Liquid Storage Freeboard Maintained			1	
Manure Storage, Liquid Storage Maintained Properly				1,314,000
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Location			3	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Management Records			5	
Manure, Nutrient Content Determination			4	
Manure, Winter Application Procedure		867		
Nutrient Management Plans, Annual By Field		2,389		
Nutrients, All Sources Considered			2	
Odor Management Plan			8	
P Fertilizer, Application to Frozen or Snow Covered Fields		195		
P Fertilizer, Rate Determination			1	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			1	
Pesticide Containers Are Recyclable or Returnable			1	
Pesticide Spill Kit Availability			4	
Pesticides, Application Recordkeeping			4	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			15	
Pesticides, Emergency Plan and Contacts			3	
Pesticides, Label Compliance			2	
Pesticides, Mixing and Loading In Field			3	
Portion of Animal Feed Produced On Farm			2	
Secondary Containment, Pesticides			2	
Silage, Leachate Collection/Treatment				200
Soil Erosion Controlled		9,253		
Soil Testing, Representative Sampling			4	
Soil Testing, Triennial			11	
Soil, Characteristics Considered			1	
Soil, Nutrient Records		1,354		
Soil, pH Maintenance		1,538		
Special Sites Protected			1	
Storage, Appropriate Tanks			18	
Storage, Dedicated			1	
Storage, Fertilizer Liquid				60,000
Storage, Signage			10	
Storage, Spill Kit			3	
Waste, Floor Drains			10	
Water, Protected From Pesticide Contamination			3	
Well Decommissioned			9	
Well Tests, Every Three Years			47	
Well Tests, Health Standards			35	
<b>Van Buren</b>		<b>2,086</b>	<b>297</b>	
Anti-Backflow Device Installed			2	
Biosolids, Nutrient Application Rates			1	
Biosolids, Nutrient Content Determination			1	
Chemigation, Anti-backflow Device			1	
Containers, Properly Rinsed			2	
Dead Animals Handled According to BODA			2	
Dead Animals, Composting Isolation Distance			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Drift Management Plan, New			21	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			4	
Emergency Plan, Fertilizer Revised			3	
Emergency Plan, Manure Spill, New			4	
Emergency Plan, Manure Spill, Revised			4	
Emergency Plan, New, Silage			2	
Emergency Plan, Pesticide New			13	
Emergency Plan, Pesticide Revised			4	
Emergency Plan, Revised, Tire Fire			1	
Environmentally Sensitive Areas Identified		1,035		
Farm Emergency Plan Developed and Followed, New			3	
Farm Emergency Plan Developed and Followed, Revised			2	
Fill Opening Separate From Vent Opening			4	
Impermeable Surface, Fuel			8	
Irrigation, Amount Determined Accurately			1	
Irrigation, Evaluation for Uniformity			4	
Irrigation, Fuel Tank Isolation			2	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			4	
Irrigation, Sock Wells Isolated			3	
Irrigation, System Evaluation			1	
Isolation Distances Met			16	
Livestock Management, NMP			1	
Manure Storage, Temporary Location			1	
Manure, Management Records			1	
No Cross-Connections With Potable Water and Isolation Distances Met			3	
Nutrient Management Records, Multiple			11	
Nutrients, All Sources Considered		200		
Odor Management Plan			5	
Pastures Have Current Soil Tests			1	
Pesticide Application, Recordkeeping			9	
Pesticide Drift Management Plan, New			9	
Pesticide Drift Management Plan, Revised			1	
Pesticide Handling, Field Mixing and Loading			1	
Pesticide Spill Kit Availability			3	
Pesticides, Application Recordkeeping			2	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			8	
Pesticides, Emergency Plan and Contacts			2	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Secondary Containment, Fuel			6	
Secondary Containment, Mix-Load			3	
Secondary Containment, Pesticides			3	
Soil and/or Tissue Testing, Quadrennial		382		
Soil Testing, Representative Sampling		17	3	
Soil Testing, Triennial		17	7	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Soil, Nutrient Records		85		
Soil, pH Maintenance		350		
Storage, Appropriate Tanks			7	
Storage, Buildings Setback			3	
Storage, Capacity			2	
Storage, Elevation			4	
Storage, Portable Fueling			1	
Storage, Security			6	
Storage, Signage			16	
Storage, Spill Kit			12	
Storage, Spill Protection			3	
Veterinary Product and Waste Disposal			2	
Waste, Recycling and Disposal			1	
Water, Protected From Pesticide Contamination			1	
Well Construction			4	
Well Decommissioned			6	
Well Inspected			10	
Well Tests, Every Three Years			20	
Well Tests, Health Standards			1	
<b>Washtenaw</b>		<b>35,760</b>	<b>809</b>	<b>45,001</b>
Adequate Land Base for Nutrients			4	
Adverse Impact To Endangered And Threatened Species Avoided			13	
All Habitat Types Identified and Mapped In LMP		10	13	
Altered Wetlands Assessed For Restoration			6	
Anti-Backflow Device Installed			8	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats		10	12	
Bogs And Fens Identified And RMZs Established			5	
Chemigation Interlock and Safety Systems			1	
Containers, Properly Rinsed			1	
Cover Crop Use		60		
Crop Yields, Realistic Goals			1	
Dead Animals Handled According to BODA			11	
Dead Animals, Composting Recordkeeping Meets BODA Requirements			1	
Delivery, Just In Time			1	
Drift Management Plan, New			6	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			8	
Emergency Plan, Manure Spill, New			15	
Emergency Plan, Manure Spill, Revised			5	
Emergency Plan, New, Silage			4	
Emergency Plan, Pesticide New			14	
Environmentally Sensitive Areas Identified		13,521		
Equipment, Parking and Storage			1	
Equipment, Properly Cleaned and Rinsed			3	
Erosion Controlled, Site		420		
Excess Product, Label Rates			4	
Farm Emergency Plan Developed and Followed, New			1	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Fertilizer Records Maintained			1	
Fertilizer Stock Tank Leak Protection			1	
Fertilizer, Application Equipment Calibration			2	
Fertilizer, Determination of Rates		2,128	12	
Fertilizer, Rate Determination		5		
Forest Roads Established And Maintained To Avoid Erosion			2	
Forestation Achieves Adequate Stocking Levels			2	
Forestry Management Plan, New			2	
Harvest Plan Map Used For Harvest			1	
Impermeable Surface, Fuel			4	
Invasive Species Identified And Managed			10	
IPM Used To Control Pests		10	8	
Irrigation Records Maintained			1	
Irrigation, Amount Determined Accurately			4	
Irrigation, Evaluation for Uniformity			2	
Irrigation, Excessive Applications Avoided			1	
Irrigation, Rain Gauges in Fields			5	
Irrigation, Record Keeping			4	
Isolation Distances Met			14	
Land Management Plan, New			12	
Large Quantity Water Withdrawal Registered			3	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			10	
Livestock Management, Runoff Management			1	
Livestock Management, Siting			1	
Livestock Yard, Drainage Diversion			3	
Livestock Yard, Manure Scrape and Haul			1	
Livestock Yard, Runoff Management			1	
Livestock Yard, Surface Water Setback			5	
LMP Allows for Active and Adaptive Management			11	
LMP Identifies All Resource Concerns			10	
LMP Includes Details of Desired Future Conditions			14	
LMP Includes Landowner Objectives			14	
LMP Prepared By Professional Natural Resource Manager			9	
LQW Water Use Reported.			3	
Management Activities Conform to Applicable Forest Land BMPs			1	
Management Activities Conform To GAFMPs			2	
Manure Application, Compatible With Soils			3	
Manure Application, MARI Completed		384	1	
Manure Application, Procedure		40		
Manure Application, Rate Determination			19	
Manure Application, Rates Do Not Exceed Crop N Needs			3	
Manure Application, Rates Do Not Exceed Crop P Needs			4	
Manure Applications, Weather Forecasts Monitored			2	
Manure Storage, Bedded Design and Construction			1	
Manure Storage, Capacity			2	1
Manure Storage, Design and Construction			2	

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Manure Storage, Field Stacked Duration		1	
Manure Storage, Temporary Duration		8	
Manure Storage, Temporary Location		5	
Manure, Application Rates Do Not Exceed Crop N Needs	1,005		
Manure, Application Rates Do Not Exceed Crop P Needs	829		
Manure, Application to Avoid Ponding, Erosion, and Runoff		2	
Manure, Designed Use		1	
Manure, Management Records		7	
Manure, Nutrient Content Determination		24	
Manure, Winter Application Procedure	384		
Nursery Containers, Media and Waste Disposed of Properly		1	
Nutrient Management Plans, Annual	5		
Nutrient Management Plans, Annual By Field	1,872		
Nutrient Management Records, Multiple		5	
Nutrients, All Sources Considered		3	
Odor Management Plan		19	
Other Environmental Risks Resolved		1	
P Fertilizer, Dilute Wastewater Managed Appropriately		1	
P Fertilizer, Rate Determination	884	3	
Pasture Management, Manure Near Water Tanks/Feeders		3	
Pasture Soil Tested	150	21	
Pastures Have Current Soil Tests	40	24	
Pesticide Application, Recordkeeping		1	
Pesticide Spill Kit Availability		15	
Pesticides Used And Stored According To EPA, SSWQPs		4	
Pesticides, Application Recordkeeping		5	
Pesticides, Container Handling		2	
Pesticides, Drift Management Plan, New		12	
Pesticides, Drift Management Plan, Revised		1	
Pesticides, Emergency Plan and Contacts		3	
Pesticides, Equipment Calibration		3	
Pesticides, Mixing and Loading In Field		1	
Potential Conflict Between Timber Management And Habitat Development Resolved		4	
Prescribed Burnings Follow Approved FMP And Conform To SSWQPs		3	
Property Boundaries Known And Marked		1	
Restoration Potential and Long-Term Management Outlined in HMP		1	
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats		5	
RTF Site Selection and Odor-Control GAAMPS Met		1	
Secondary Containment, Fuel		3	
Secondary Containment, Leaks and Precipitation			7,500
Secondary Containment, Mix-Load			7,500
Secondary Containment, Pesticides		3	
Septic, Designed Use		2	
Septic, Isolation Distances Met		1	
Septic, Pumping		1	
Site Monitored Annually For Changes		2	

FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians			
Practices Implemented by County	Units		
	Acres	Each	Gallon
Soil and/or Tissue Testing, Quadrennial	11		
Soil Erosion Controlled	11,752		
Soil Testing, Representative Sampling	220	29	
Soil Testing, Triennial	387	54	
Soil, Nutrient Records	1,433		
Soil, pH Maintenance	200		
Special Sites Protected		6	
Storage, Application Equipment		3	
Storage, Appropriate Tanks		1	
Storage, Decommissioned		4	
Storage, Designed Use		1	
Storage, Elevation		1	
Storage, Fertilizer Liquid			7,500
Storage, Isolated From Other Products			7,500
Storage, Monitored for Leaks		1	
Storage, Poly Tanks		1	
Storage, Regular Inspection		6	7,500
Storage, Security		8	
Storage, Signage		9	
Storage, Spill Kit		26	
Storage, Valves and Hoses		1	7,500
Sustainable Soil And Water Quality Practices Followed		1	
Trout Streams, Natural, Wild, And Scenic Rivers Identified And RMZs Established		1	
Veterinary Product and Waste Disposal		1	
Waste, Floor Drains		4	
Waste, Isolation Distances Met		1	
Waste, Recycling and Disposal		15	
Water Bodies Identified And Riparian Management Zones Established		12	
Well Construction		2	
Well Decommissioned		1	
Well Inspected		1	
Well Repaired to Standards		4	
Well Setback, Manure Sources		4	
Well Tests, Every Three Years		33	
Well Tests, Health Standards		22	
<b>Wayne</b>	<b>546</b>	<b>103</b>	
Adequate Land Base for Nutrients		1	
Adverse Impact To Endangered And Threatened Species Avoided		2	
Anti-Backflow Device Installed		1	
BMPs Implemented To Protect Rare And Sensitive Species And Habitats		2	
Dead Animals Handled According to BODA		1	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Manure Spill, New		1	
Emergency Plan, Pesticide New		1	
Emergency Plan, Pesticide Revised		1	
Environmentally Sensitive Areas Identified	154		



FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians		Units		
Practices Implemented by County		Acres	Each	Gallon
Erosion Controlled, Site		235		
Fertilizer Records Maintained		1		
Fertilizer, Determination of Rates		3		
Impermeable Surface, Fuel		3		
Invasive Species Identified And Managed		2		
IPM Used To Control Pests		1		
Irrigation Discharge Managed		2		
Irrigation Records Maintained		3		
Irrigation, Rain Gauges in Fields		5		
Irrigation, Record Keeping		3		
Irrigation, Runoff and Ponding Minimized		1		
Isolation Distances Met		2		
Land Management Plan, New		2		
Livestock Yard, Drainage Diversion		2		
Livestock Yard, Surface Water Setback		2		
LMP Includes Details of Desired Future Conditions		1		
LMP Includes Landowner Objectives		1		
LMP Prepared By Professional Natural Resource Manager		1		
Manure Storage, Isolation Distances Met		1		
Manure Storage, Temporary Location		1		
Manure, Management Records		1		
Nutrient Management Plans, Annual By Field		6		
Nutrients, All Sources Considered		1		
Odor Management Plan		1		
Other Environmental Risks Resolved		12		
P Fertilizer, Rate Determination		5		
Pastures Have Current Soil Tests		1		
Pesticides Used And Stored According To EPA, SSWQPs		1		
Pesticides, Drift Management Plan, New		2		
Pesticides, Label Compliance		1		
Potential Conflict Between Timber Management And Habitat Development Resolved		1		
Secondary Containment, Fertilizer		1		
Secondary Containment, Pesticides		1		
Soil Erosion Controlled		8		
Soil Testing, Representative Sampling		2		
Soil Testing, Triennial		140	16	
Soil, Nutrient Records		3		
Storage, Portable Fueling		1		
Storage, Security		1		
Storage, Signage		2		
Storage, Spill Kit		2		
Waste, Recycling and Disposal		1		
Water Bodies Identified And Riparian Management Zones Established		1		
Well Tests, Every Three Years		1		
<b>Wexford</b>		<b>4,977</b>	<b>186</b>	
Adequate Land Base for Nutrients		1		

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Cover Crop Use	<b>1,300</b>		
Dead Animals Handled According to BODA		<b>2</b>	
Dead Animals, Composting Recordkeeping Meets BODA Requirements		<b>1</b>	
Drift Management Plan, New		<b>7</b>	
Drift Management Plan, Revised		<b>1</b>	
Emergency Plan, Fertilizer New		<b>4</b>	
Emergency Plan, Fertilizer Revised		<b>1</b>	
Emergency Plan, Manure Spill, New		<b>11</b>	
Emergency Plan, Manure Spill, Revised		<b>1</b>	
Emergency Plan, New, Silage		<b>7</b>	
Emergency Plan, New, Tire Fire		<b>3</b>	
Emergency Plan, Pesticide New		<b>7</b>	
Emergency Plan, Pesticide Revised		<b>2</b>	
Emergency Plan, Revised, Tire Fire		<b>3</b>	
Environmentally Sensitive Areas Identified	<b>1,235</b>		
FMP Includes Landowner Objectives		<b>1</b>	
Forestry Management Plan, New		<b>1</b>	
Habitat for Native Pollinators		<b>1</b>	
Impermeable Surface, Fuel		<b>5</b>	
Irrigation, Rain Gauges in Fields		<b>1</b>	
Irrigation, Record Keeping		<b>1</b>	
Isolation Distances Met		<b>4</b>	
Land Management Plan, New		<b>1</b>	
Livestock Management, NMP		<b>1</b>	
Livestock Management, Recordkeeping		<b>3</b>	
Livestock Management, Siting		<b>3</b>	
Livestock Yard, Drainage Diversion		<b>4</b>	
Livestock Yard, Runoff Management		<b>4</b>	
Manure Application, MARI Completed		<b>1</b>	
Manure Storage, Clean Water Diverted		<b>6</b>	
Manure Storage, Design and Construction		<b>1</b>	
Manure Storage, Designed Use		<b>2</b>	
Manure Storage, Liquid Storage Design and Installation		<b>2</b>	
Manure Storage, Runoff Management		<b>2</b>	
Manure, Management Records		<b>2</b>	
Manure, Nutrient Content Determination		<b>6</b>	
Nutrient Management Plans, Annual By Field	<b>21</b>		
Nutrients, All Sources Considered		<b>1</b>	
Odor Management Plan		<b>5</b>	
Pasture Soil Tested		<b>4</b>	
Pastures Have Current Soil Tests		<b>1</b>	
Pesticide Spill Kit Availability		<b>4</b>	
Pesticides, Application Recordkeeping		<b>1</b>	
Pesticides, Drift Management Plan, New		<b>2</b>	
Pesticides, Drift Management Plan, Revised		<b>2</b>	
Pesticides, Emergency Plan and Contacts		<b>2</b>	
Secondary Containment, Fuel		<b>5</b>	

<b>FY 2017 through FY 2020 Technical Assistance Practices Delivered By MAEAP Technicians</b>	<b>Units</b>		
<b>Practices Implemented by County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Secondary Containment, Leaks and Precipitation		1	
Secondary Containment, Mix-Load		1	
Secondary Containment, Pesticides		2	
Soil Erosion Controlled	2,400		
Soil Testing, Representative Sampling		3	
Soil Testing, Triennial		7	
Soil, Nutrient Records	21		
Storage, Appropriate Tanks		4	
Storage, Dedicated		2	
Storage, Isolated From Other Products		1	
Storage, Monitored for Leaks		1	
Storage, Signage		3	
Storage, Spill Kit		8	
Veterinary Product and Waste Disposal		5	
Well Inspected		1	
Well Tests, Every Three Years		9	
Well Tests, Health Standards		8	
<b>Grand Total</b>	<b>858,653</b>	<b>16,044</b>	<b>8,628,523</b>

Conservation Practices Delivered by CTAI Technicians FY 2017 - FY 2020	Units						
Practices Implemented By County	Acres	Cu Ft	Cu Yd	Each	Feet	Gallon	Sq Feet
<b>Alger</b>	<b>40</b>			<b>6</b>			<b>1,500</b>
106 Forest Management Plan - Written				1			
14c Payments - CSP only				5			
314 Brush Management	13						
325 High Tunnel System							1,500
612 Tree/Shrub Establishment	5						
666 Forest Stand Improvement	22						
<b>Allegan</b>	<b>150</b>						
340 Cover Crop	150						
<b>Alpena</b>	<b>27,316</b>			<b>178</b>	<b>9,697</b>	<b>7,420</b>	<b>17,351</b>
313 Waste Storage Facility						4,590	
319 On-Farm Secondary Containment Facility						2,200	
351 Well Decommissioning				1			
360 Waste Facility Closure	27,316						
367 Roofs and Covers							5,100
410 Grade Stabilization Structure				2			
516 Livestock Pipeline					8,904		
533 Pumping Plant				2			
558 Roof Runoff Structure					387		
561 Heavy Use Area Protection							12,251
606 Subsurface Drain					276		
614 Watering Facility						630	
620 Underground Outlet				7			
634 Waste Transfer				166			
642 Water Well					130		
<b>Antrim</b>						<b>600</b>	<b>5,684</b>
313 Waste Storage Facility							1,344
319 On-Farm Secondary Containment Facility						600	
561 Heavy Use Area Protection							4,340
<b>Arenac</b>							<b>1,310,576</b>
313 Waste Storage Facility							653,014
367 Roofs and Covers							16,140
521A Pond Sealing or Lining, Flexible Membrane							639,022
561 Heavy Use Area Protection							2,400
<b>Branch</b>	<b>12,716</b>			<b>760</b>			
102 Comprehensive Nutrient Management Plan - Written				2			
110 Grazing Management Plan - Written				751			
14c Payments - CSP only				7			
315 Herbaceous Weed Control	3						
329 Residue and Tillage Management, No-Till	338						
333 Amending Soil Properties with Gypsum Products	1,666						
340 Cover Crop	10,335						
490 Tree/Shrub Site Preparation	2						
528 Prescribed Grazing	65						
590 Nutrient Management	273						

Conservation Practices Delivered by CTAI Technicians FY 2017 - FY 2020	Units						
Practices Implemented By County	Acres	Cu Ft	Cu Yd	Each	Feet	Gallon	Sq Feet
595 Integrated Pest Management (IPM)	31						
612 Tree/Shrub Establishment	2						
<b>Calhoun</b>	<b>729</b>						
340 Cover Crop	729						
<b>Cheboygan</b>					<b>9,433</b>		
560 Access Road					9,433		
<b>Chippewa</b>	<b>3</b>		<b>104</b>		<b>1,317</b>	<b>360</b>	<b>29,843</b>
313 Waste Storage Facility							8,139
367 Roofs and Covers							8,394
516 Livestock Pipeline					562		
558 Roof Runoff Structure					280		
560 Access Road					475		
561 Heavy Use Area Protection							13,310
614 Watering Facility						360	
657 Wetland Restoration	3						
659 Wetland Enhancement			104				
<b>Clare</b>				<b>1</b>	<b>2,375</b>	<b>800</b>	<b>2,747</b>
516 Livestock Pipeline					2,255		
533 Pumping Plant				1			
561 Heavy Use Area Protection							2,747
614 Watering Facility						800	
642 Water Well					120		
<b>Clinton</b>	<b>2,161</b>			<b>10</b>	<b>28,222</b>	<b>1,300</b>	<b>2,675</b>
14c Payments - CSP only				10			
313 Waste Storage Facility							575
314 Brush Management	8						
315 Herbaceous Weed Control	23						
319 On-Farm Secondary Containment Facility						1,300	
327 Conservation Cover	1						
340 Cover Crop	2,064						
367 Roofs and Covers							780
382 Fence					28,222		
386 Field Border	3						
490 Tree/Shrub Site Preparation	1						
528 Prescribed Grazing	62						
561 Heavy Use Area Protection							1,320
645 Upland Wildlife Habitat Management	1						
<b>Delta</b>	<b>241</b>			<b>298</b>			<b>6,228</b>
106 Forest Management Plan - Written				25			
14c Payments - CSP only				273			
314 Brush Management	32						
315 Herbaceous Weed Control	8						
325 High Tunnel System							6,228
327 Conservation Cover	7						
490 Tree/Shrub Site Preparation	3						
612 Tree/Shrub Establishment	45						

Conservation Practices Delivered by CTAI Technicians FY 2017 - FY 2020	Units						
Practices Implemented By County	Acres	Cu Ft	Cu Yd	Each	Feet	Gallon	Sq Feet
666 Forest Stand Improvement	146						
<b>Dickinson</b>	<b>9</b>			<b>5</b>			
106 Forest Management Plan - Written				4			
12 Administration of Active Long-Term Contracts (EQIP, WHIP, CSP)				1			
612 Tree/Shrub Establishment	9						
<b>Eaton</b>	<b>2,806</b>			<b>1</b>	<b>1,385</b>	<b>720</b>	<b>8,676</b>
328 Conservation Crop Rotation	119						
329 Residue and Tillage Management, No-Till	75						
340 Cover Crop	2,612						
516 Livestock Pipeline					1,200		
558 Roof Runoff Structure					185		
561 Heavy Use Area Protection							1,140
575 Trails and Walkways							7,536
614 Watering Facility						720	
620 Underground Outlet				1			
<b>Emmet</b>					<b>36</b>		<b>21,563</b>
313 Waste Storage Facility							7,519
367 Roofs and Covers							8,640
558 Roof Runoff Structure					36		
561 Heavy Use Area Protection							5,404
<b>Gladwin</b>				<b>1</b>	<b>971</b>		
516 Livestock Pipeline					840		
560 Access Road					131		
642 Water Well				1			
<b>Gogebic</b>	<b>108</b>						
644 Wetland Wildlife Habitat Management	108						
<b>Hillsdale</b>				<b>1</b>			
410 Grade Stabilization Structure				1			
<b>Huron</b>	<b>129,935</b>			<b>172</b>	<b>1,777</b>	<b>41,500</b>	<b>75,068</b>
102 Comprehensive Nutrient Management Plan - Written				2			
130 Drainage Water Management Plan - Written				34			
15 CNMP Acceptance Reviews (no Core Work Product available)				4			
309 Agrichemical Handling Facility							13,972
313 Waste Storage Facility							26,369
319 On-Farm Secondary Containment Facility						41,500	4,900
327 Conservation Cover	1						
329 Residue and Tillage Management, No-Till	5,733						
340 Cover Crop	56,171						
345 Residue and Tillage Management, Reduced Till	6,898						
351 Well Decommissioning				1			
367 Roofs and Covers							18,737
410 Grade Stabilization Structure				4			
554 Drainage Water Management	58						

Conservation Practices Delivered by CTAI Technicians FY 2017 - FY 2020	Units						
Practices Implemented By County	Acres	Cu Ft	Cu Yd	Each	Feet	Gallon	Sq Feet
558 Roof Runoff Structure					1,347		
561 Heavy Use Area Protection							11,090
587 Structure for Water Control				6	160		
590 Nutrient Management	40,042						
595 Integrated Pest Management (IPM)	21,033						
620 Underground Outlet				121			
642 Water Well					270		
<b>Ingham</b>				<b>5</b>	<b>254</b>		<b>34,778</b>
313 Waste Storage Facility							2,340
367 Roofs and Covers							2,340
558 Roof Runoff Structure					254		
561 Heavy Use Area Protection							30,098
620 Underground Outlet				5			
<b>Iron</b>	<b>227</b>			<b>5</b>			
106 Forest Management Plan - Written				5			
314 Brush Management	63						
327 Conservation Cover	4						
340 Cover Crop	5						
384 Woody Residue Treatment	34						
490 Tree/Shrub Site Preparation	23						
612 Tree/Shrub Establishment	98						
<b>Isabella</b>							<b>700</b>
561 Heavy Use Area Protection							700
<b>Jackson</b>	<b>1</b>			<b>358</b>	<b>12,590</b>	<b>1,330</b>	<b>67,607</b>
313 Waste Storage Facility							13,840
351 Well Decommissioning				2			
367 Roofs and Covers							14,240
516 Livestock Pipeline					8,859		
533 Pumping Plant	1						
558 Roof Runoff Structure					960		
560 Access Road					120		
561 Heavy Use Area Protection							39,527
578 Stream Crossing					32		
587 Structure for Water Control					754		
614 Watering Facility				6		1,330	
620 Underground Outlet				350	1,745		
642 Water Well					120		
<b>Kalamazoo</b>				<b>1</b>	<b>1,330</b>		<b>5,600</b>
309 Agrichemical Handling Facility							2,400
367 Roofs and Covers							2,400
516 Livestock Pipeline					1,250		
558 Roof Runoff Structure					80		
561 Heavy Use Area Protection							800
620 Underground Outlet				1			
<b>Kalkaska</b>					<b>50</b>	<b>2,000</b>	<b>9,300</b>
317 Composting Facility							9,300

Conservation Practices Delivered by CTAI Technicians FY 2017 - FY 2020	Units						
Practices Implemented By County	Acres	Cu Ft	Cu Yd	Each	Feet	Gallon	Sq Feet
319 On-Farm Secondary Containment Facility						2,000	
560 Access Road					50		
<b>Kent</b>	<b>72,591</b>			<b>11</b>	<b>23,447</b>	<b>29,272</b>	<b>24,700</b>
102 Comprehensive Nutrient Management Plan - Written				2			
128 Agricultural Energy Management Plan - Written				2			
309 Agrichemical Handling Facility							10,186
314 Brush Management	4						
315 Herbaceous Weed Control	2						
319 On-Farm Secondary Containment Facility						28,850	1,600
325 High Tunnel System							2,178
327 Conservation Cover	21						
329 Residue and Tillage Management, No-Till	368						
340 Cover Crop	66,430						
342 Critical Area Planting	0						
345 Residue and Tillage Management, Reduced Till	368						
367 Roofs and Covers							4,384
380 Windbreak/Shelterbelt Establishment					4,533		
382 Fence					5,605		
410 Grade Stabilization Structure				5			
412 Grassed Waterway					8,850		
449 Irrigation Water Management	164						
484 Mulching	7						
490 Tree/Shrub Site Preparation	2						
511 Forage Harvest Management	970						
512 Forage and Biomass Planting	8						
516 Livestock Pipeline					2,800		
528 Prescribed Grazing	20						
533 Pumping Plant				1			
560 Access Road					285		
561 Heavy Use Area Protection							6,352
580 Streambank and Shoreline Protection					200		
590 Nutrient Management	317						
595 Integrated Pest Management (IPM)	3,910						
606 Subsurface Drain					1,100		
612 Tree/Shrub Establishment	1						
614 Watering Facility						422	
620 Underground Outlet				1			
642 Water Well					74		
<b>Macomb</b>	<b>444</b>					<b>13,000</b>	
319 On-Farm Secondary Containment Facility						13,000	
340 Cover Crop	444						
<b>Manistee</b>				<b>2</b>			
614 Watering Facility				2			
<b>Marquette</b>	<b>9</b>			<b>8</b>			
106 Forest Management Plan - Written				4			



Conservation Practices Delivered by CTAI Technicians FY 2017 - FY 2020	Units						
Practices Implemented By County	Acres	Cu Ft	Cu Yd	Each	Feet	Gallon	Sq Feet
14c Payments - CSP only				4			
612 Tree/Shrub Establishment	4						
666 Forest Stand Improvement	5						
<b>Mason</b>	<b>125</b>			<b>3</b>			<b>4,760</b>
14c Payments - CSP only				3			
309 Agrichemical Handling Facility							4,760
327 Conservation Cover	1						
340 Cover Crop	123						
612 Tree/Shrub Establishment	0						
<b>Mecosta</b>				<b>3</b>	<b>2,943</b>	<b>1,000</b>	<b>109,285</b>
313 Waste Storage Facility							92,805
316 Animal Mortality Facility							1,260
319 On-Farm Secondary Containment Facility						1,000	
367 Roofs and Covers							2,160
382 Fence					286		
516 Livestock Pipeline					2,225		
558 Roof Runoff Structure					432		
561 Heavy Use Area Protection							13,060
620 Underground Outlet				3			
<b>Menominee</b>	<b>15</b>			<b>15</b>			
106 Forest Management Plan - Written				5			
14c Payments - CSP only				10			
490 Tree/Shrub Site Preparation	4						
612 Tree/Shrub Establishment	4						
666 Forest Stand Improvement	6						
<b>Missaukee</b>	<b>894</b>			<b>26</b>	<b>30,257</b>	<b>3,300</b>	<b>391,286</b>
106 Forest Management Plan - Written				3			
14c Payments - CSP only				13			
14c Payments - CSP only+A1228				1			
309 Agrichemical Handling Facility							1,473
313 Waste Storage Facility							370,900
315 Herbaceous Weed Control	0						
319 On-Farm Secondary Containment Facility						3,000	
325 High Tunnel System							6,480
327 Conservation Cover	12						
340 Cover Crop	223						
351 Well Decommissioning				3			
380 Windbreak/Shelterbelt Establishment					9,620		
382 Fence					18,654		
384 Woody Residue Treatment	2						
449 Irrigation Water Management	29						
472 Access Control	1						
484 Mulching	2						
490 Tree/Shrub Site Preparation	4						
516 Livestock Pipeline					1,983		
533 Pumping Plant				2			

Conservation Practices Delivered by CTAI Technicians FY 2017 - FY 2020	Units						
Practices Implemented By County	Acres	Cu Ft	Cu Yd	Each	Feet	Gallon	Sq Feet
561 Heavy Use Area Protection							12,433
595 Integrated Pest Management (IPM)	621						
612 Tree/Shrub Establishment	1						
614 Watering Facility						300	
620 Underground Outlet				2			
634 Waste Transfer				2			
<b>Monroe</b>							<b>18,992</b>
313 Waste Storage Facility							2,232
367 Roofs and Covers							2,232
561 Heavy Use Area Protection							14,528
<b>Oceana</b>	<b>20,724</b>			<b>360</b>	<b>26,447</b>	<b>34,540</b>	<b>167,375</b>
14c Payments - CSP only				352			
309 Agrichemical Handling Facility							33,904
314 Brush Management	13						
316 Animal Mortality Facility							720
319 On-Farm Secondary Containment Facility						34,480	
325 High Tunnel System							2,178
327 Conservation Cover	1,627						
340 Cover Crop	2,579						
342 Critical Area Planting	4						
351 Well Decommissioning				2			
367 Roofs and Covers							17,248
374 Farmstead Energy Improvement				5			
380 Windbreak/Shelterbelt Establishment					9,625		
382 Fence					13,596		
384 Woody Residue Treatment	23						
386 Field Border	7						
393 Filter Strip	3						
449 Irrigation Water Management	1,382						
484 Mulching	1,688						
490 Tree/Shrub Site Preparation	1						
511 Forage Harvest Management	200						
512 Forage and Biomass Planting	27						
516 Livestock Pipeline					2,600		
528 Prescribed Grazing	62						
558 Roof Runoff Structure					316		
561 Heavy Use Area Protection							113,325
590 Nutrient Management	12,387						
595 Integrated Pest Management (IPM)	683						
612 Tree/Shrub Establishment	9						
614 Watering Facility						60	
620 Underground Outlet				1			
655 Forest Trails and Landings					310		
666 Forest Stand Improvement	32						
<b>Ogemaw</b>				<b>2</b>	<b>804</b>		<b>631,837</b>
313 Waste Storage Facility							628,727

Conservation Practices Delivered by CTAI Technicians FY 2017 - FY 2020	Units						
Practices Implemented By County	Acres	Cu Ft	Cu Yd	Each	Feet	Gallon	Sq Feet
316 Animal Mortality Facility							936
533 Pumping Plant				1			
561 Heavy Use Area Protection							2,174
606 Subsurface Drain					804		
634 Waste Transfer				1			
<b>Osceola</b>	<b>17</b>		<b>667</b>	<b>14</b>	<b>10,872</b>	<b>635</b>	<b>136,679</b>
14c Payments - CSP only				10			
313 Waste Storage Facility							91,551
327 Conservation Cover	0						
382 Fence					2,087		
516 Livestock Pipeline					6,750		
533 Pumping Plant				1			
561 Heavy Use Area Protection							45,128
606 Subsurface Drain					2,035		
614 Watering Facility						635	
634 Waste Transfer				3			
659 Wetland Enhancement			667				
666 Forest Stand Improvement	17						
<b>Otsego</b>					<b>3,708</b>	<b>368</b>	<b>2,028</b>
516 Livestock Pipeline					3,708		
561 Heavy Use Area Protection							2,028
614 Watering Facility						368	
<b>Ottawa</b>	<b>8,582</b>			<b>1</b>	<b>4,279</b>	<b>150</b>	<b>48,836</b>
102 Comprehensive Nutrient Management Plan - Written				1			
309 Agrichemical Handling Facility							3,200
327 Conservation Cover	81						
340 Cover Crop	6,517						
380 Windbreak/Shelterbelt Establishment					1,104		
382 Fence					2,575		
449 Irrigation Water Management	153						
484 Mulching	1						
490 Tree/Shrub Site Preparation	42						
512 Forage and Biomass Planting	5						
516 Livestock Pipeline					600		
528 Prescribed Grazing	9						
561 Heavy Use Area Protection							45,636
590 Nutrient Management	364						
595 Integrated Pest Management (IPM)	1,392						
612 Tree/Shrub Establishment	4						
614 Watering Facility						150	
666 Forest Stand Improvement	15						
<b>Presque Isle</b>					<b>208</b>	<b>5,500</b>	<b>35,074</b>
309 Agrichemical Handling Facility							7,763
319 On-Farm Secondary Containment Facility						5,500	
367 Roofs and Covers							8,110

Conservation Practices Delivered by CTAI Technicians FY 2017 - FY 2020	Units						
Practices Implemented By County	Acres	Cu Ft	Cu Yd	Each	Feet	Gallon	Sq Feet
560 Access Road					208		
561 Heavy Use Area Protection							19,201
<b>Saint Clair</b>	<b>1,606</b>			<b>4</b>	<b>18,155</b>	<b>200</b>	<b>5,153</b>
102 Comprehensive Nutrient Management Plan - Written				1			
106 Forest Management Plan - Written				2			
114 Integrated Pest Management Plan - Written				1			
325 High Tunnel System							2,178
327 Conservation Cover	3						
340 Cover Crop	1,483						
382 Fence					16,310		
512 Forage and Biomass Planting	30						
516 Livestock Pipeline					1,845		
528 Prescribed Grazing	90						
561 Heavy Use Area Protection							2,975
614 Watering Facility						200	
<b>Saint Joseph</b>	<b>768</b>						<b>26,935</b>
313 Waste Storage Facility							12,000
329 Residue and Tillage Management, No-Till	64						
340 Cover Crop	98						
367 Roofs and Covers							12,960
449 Irrigation Water Management	606						
561 Heavy Use Area Protection							1,975
<b>Sanilac</b>	<b>32,227</b>			<b>3</b>			<b>2,520</b>
106 Forest Management Plan - Written				1			
128 Agricultural Energy Management Plan - Written				1			
309 Agrichemical Handling Facility							2,400
314 Brush Management	51						
315 Herbaceous Weed Control	1						
327 Conservation Cover	1						
329 Residue and Tillage Management, No-Till	587						
340 Cover Crop	12,613						
345 Residue and Tillage Management, Reduced Till	1,000						
351 Well Decommissioning				1			
393 Filter Strip	2						
490 Tree/Shrub Site Preparation	4						
561 Heavy Use Area Protection							120
590 Nutrient Management	8,540						
595 Integrated Pest Management (IPM)	9,417						
612 Tree/Shrub Establishment	4						
666 Forest Stand Improvement	8						
<b>Schoolcraft</b>	<b>29</b>			<b>50</b>			
106 Forest Management Plan - Written				5			
14c Payments - CSP only				45			
327 Conservation Cover	2						
612 Tree/Shrub Establishment	5						

Conservation Practices Delivered by CTAI Technicians FY 2017 - FY 2020	Units						
Practices Implemented By County	Acres	Cu Ft	Cu Yd	Each	Feet	Gallon	Sq Feet
666 Forest Stand Improvement	23						
<b>Shiawassee</b>	<b>68</b>				<b>1,973</b>	<b>3,500</b>	<b>2,800</b>
340 Cover Crop	68						
516 Livestock Pipeline					1,973		
561 Heavy Use Area Protection							2,800
614 Watering Facility						3,500	
<b>Tuscola</b>	<b>10,834</b>			<b>6</b>	<b>8,117</b>	<b>7,909</b>	<b>32,253</b>
130 Drainage Water Management Plan - Written				6			
309 Agrichemical Handling Facility							1,311
313 Waste Storage Facility							9,142
319 On-Farm Secondary Containment Facility						7,900	2,000
329 Residue and Tillage Management, No-Till	401						
340 Cover Crop	3,601						
345 Residue and Tillage Management, Reduced Till	1,293						
367 Roofs and Covers							11,700
412 Grassed Waterway					2,120		
516 Livestock Pipeline					2,355		
558 Roof Runoff Structure					420		
560 Access Road					1,100		
561 Heavy Use Area Protection							8,100
587 Structure for Water Control					2		
590 Nutrient Management	2,839						
595 Integrated Pest Management (IPM)	2,701						
606 Subsurface Drain					2,120		
614 Watering Facility						9	
<b>Wayne</b>						<b>2,000</b>	
319 On-Farm Secondary Containment Facility						2,000	
<b>Wexford</b>	<b>3,483</b>			<b>20</b>	<b>26,194</b>	<b>4,930</b>	<b>10,292</b>
106 Forest Management Plan - Written				4			
128 Agricultural Energy Management Plan - Written				1			
14c Payments - CSP only				15			
309 Agrichemical Handling Facility							3,583
313 Waste Storage Facility							995
314 Brush Management	26						
315 Herbaceous Weed Control	38						
319 On-Farm Secondary Containment Facility						4,000	500
325 High Tunnel System							2,160
327 Conservation Cover	5						
340 Cover Crop	2,930						
342 Critical Area Planting	0						
382 Fence					19,657		
484 Mulching	1						
490 Tree/Shrub Site Preparation	43						
512 Forage and Biomass Planting	17						
516 Livestock Pipeline					6,399		
528 Prescribed Grazing	171						

Conservation Practices Delivered by CTAI Technicians FY 2017 - FY 2020	Units						
Practices Implemented By County	Acres	Cu Ft	Cu Yd	Each	Feet	Gallon	Sq Feet
558 Roof Runoff Structure					64		
561 Heavy Use Area Protection							3,054
590 Nutrient Management	223						
612 Tree/Shrub Establishment	29						
614 Watering Facility						930	
642 Water Well					74		
<b>Unit Totals</b>	<b>301,539</b>	<b>27,316</b>	<b>771</b>	<b>2,330</b>	<b>226,840</b>	<b>162,334</b>	<b>3,250,701</b>

## MAEAP Technical Assistance Summary: FY 2017 Through FY 2019

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
<b>Alcona</b>	<b>104.3</b>	<b>151</b>	
Anti-Backflow Device Installed		7	
Chemigation, Anti-backflow Device		1	
Containers, Properly Rinsed		1	
Dead Animals Handled According to BODA		2	
Drift Management Plan, New		1	
Emergency Plan, Fertilizer New		2	
Emergency Plan, Pesticide New		3	
Farm Emergency Plan Developed and Followed, New		1	
Fertilizer, Determination of Rates		2	
FMP Includes Landowner Objectives		4	
Forestry Management Plan, New		1	
Impermeable Surface, Fuel		1	
Irrigation, Excess Avoided		1	
Irrigation, Excessive Applications Avoided		1	
Irrigation, Rain Gauges in Fields		3	
Irrigation, Record Keeping		2	
Isolation Distances Met		5	
Livestock Management, Runoff Management		1	
Manure Application, Rate Determination		1	
Manure Storage, Field Stacked Duration		1	
Manure Storage, Temporary Duration		3	
Manure Storage, Temporary Location		2	
Manure, Application Rates Do Not Exceed Crop P Needs	1		
Manure, Nutrient Content Determination		2	
Nutrient Management Records, Multiple		2	
Pasture Soil Tested		3	
Pesticide Spill Kit Availability		2	
Pesticides, Application Recordkeeping		1	
Pesticides, Emergency Plan and Contacts		1	
Precipitation Leading to Contaminated Run-Off		1	
Secondary Containment, Fertilizer		1	
Secondary Containment, Fuel		4	
Secondary Containment, Pesticides		1	
Septic, Pumping		1	
Soil and/or Tissue Testing, Quadrennial	10		
Soil Testing, Representative Sampling		22	
Soil Testing, Triennial		31	
Soil, Nutrient Records	93.3		
Storage, Dedicated		1	
Storage, Signage		4	
Storage, Spill Kit		4	
Veterinary Product and Waste Disposal		2	
Waste, Recycling and Disposal		5	
Well Decommissioned		1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Well Tests, Every Three Years			10	
Well Tests, Health Standards			6	
<b>Alger</b>		<b>95</b>	<b>85</b>	
No Adverse Impact To Endangered/Threatened Species			1	
Forest Product Harvest And Other Activity Records			2	
Dead Animals Handled According to BODA			2	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Manure Spill, Revised			1	
Environmentally Sensitive Areas Identified		49		
Fertilizer Records Maintained			1	
Fertilizer, Determination of Rates			1	
Forest Roads Established And Maintained To Avoid Erosion			1	
Forestland Enrolled In Sustainable Forest Certification Program			3	
Harvest Plan Map Used For Harvest			1	
Irrigation Records Maintained			1	
Irrigation, Amount Determined Accurately			1	
Irrigation, Evaluation for Uniformity			1	
Irrigation, Rain Gauges in Fields			2	
Irrigation, Record Keeping			3	
Isolation Distances Met			2	
Land Management Plan, New			1	
Landowner Enrolled in Programs Appropriate To Objectives			2	
Landowner Uses Natural Resource Professionals For Services			1	
Landowner Uses Professionals To Comply With All Laws			1	
Livestock Management, Recordkeeping			3	
LMP Allows for Active and Adaptive Management			1	
LMP Includes Landowner Objectives			1	
LMP Prepared By Professional Natural Resource Manager			1	
Manure Storage, Isolation Distances Met			1	
Manure, Management Records			1	
Nutrient Management Plans, Annual By Field		5.5		
Owner Monitors Harvests to Ensure Conformance With LMP			2	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			1	
Pesticides Used And Stored According To EPA, SSWQPs			2	
Timber Management And Habitat Conflicts Addressed			1	
Runoff/Sedimentation Controlled			1	
Secondary Containment, Fertilizer			2	
Soil Erosion Controlled		35		
Soil Testing, Triennial			10	
Soil, Nutrient Records		5.5		
Special Sites Protected			1	
Timber Sale Contract Prepared By Professional Forester			1	
Waste, Floor Drains			3	
Well Tests, Every Three Years			10	



MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Well Tests, Health Standards			10	
<b>Allegan</b>		<b>8,065.7</b>	<b>659</b>	
No Adverse Impact To Endangered/Threatened Species			1	
Other Habitats Enrolled In Long-Term Conservation Programs			1	
Anti-Backflow Device Installed			4	
Backflow Prevention on Livestock Watering Systems			2	
Rare And Sensitive Species And Habitats Protected			1	
Conservation Practices Routinely Evaluated			2	
Containers, Properly Rinsed			3	
Cover Crop Use		343.6		
Dead Animals Handled According to BODA			10	
Dead Animals, Composting Process Follows BODA			3	
Dead Animals, Composting Meets BODA Requirements			4	
Drift Management Plan, New			17	
Drift Management Plan, Revised			6	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			8	
Emergency Plan, Manure Spill, Revised			2	
Emergency Plan, Pesticide New			11	
Emergency Plan, Pesticide Revised			6	
Emergency Plan, Spill Control and Counter-measure			1	
Environmentally Sensitive Areas Identified		4,060.1		
Equipment, Parking and Storage			9	
Erosion Controlled, Site		3		
Excess or Unwanted Product, Disposed of Properly			1	
Excess Product, Label Rates			2	
Farm Emergency Plan Developed and Followed, New			3	
Fertilizer, Application Equipment Calibration			5	
Fertilizer, Determination of Rates			2	
Fertilizer, Rate Determination		183.5		
FMP Addresses All Habitat Types			1	
FMP Includes Landowner Objectives			1	
Forestry Management Plan, New			1	
Impermeable Surface, Fuel			11	
Invasive Species Identified And Managed			2	
Irrigation Fuel Tank Meets Setback Requirements			2	
Irrigation, Amount Determined Accurately			1	
Irrigation, Evaluation for Uniformity			5	
Irrigation, Rain Gauges in Fields			5	
Irrigation, Record Keeping			4	
Irrigation, Scheduling			3	
Irrigation, Sock Wells Isolated			1	
Irrigation, System Evaluation			1	
Isolation Distances Met			19	
Landowner Complies With Laws And Ordinances			6	
Leaching/Runoff Toxic Potential Consideration			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Livestock Management, Anti-Backflow device installed			1	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			8	
Livestock Management, Runoff Management			1	
Livestock Management, Siting			5	
Livestock Yard, Drainage Diversion			2	
Livestock Yard, Runoff Management			2	
Required Regulatory Reporting and Recordkeeping Compliance			1	
Manure Application, Odor-Reduction Practices Used			1	
Manure Applications, Weather Forecasts Monitored			1	
Manure Storage, Farmstead Stacked, Odor and Pest Control			1	
Manure Storage, Temporary Duration			7	
Manure Storage, Temporary Location			5	
Manure Storage, Temporary Stacked, Odor and Pest Control			1	
Manure, Isolation Distances Met			1	
Manure, Management Records			3	
Mix-Load, Filling Monitored			1	
No Cross-Connections To Water, Isolation Distances Met			1	
Nutrient Management Plans, Annual		78.5		
Nutrient Management Plans, Annual By Field		2,573.3		
Nutrient Management Records, Multiple			2	
Nutrients, All Sources Considered			6	
Odor Management Plan			13	
Other Environmental Risks Resolved			2	
P Fertilizer, Rate Determination			1	
Pasture Management For Vegetation and Runoff			1	
Pasture Management, Manure Near Water Tanks/Feeders			1	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			5	
Pest Management, Current on Practices			2	
Pest Management, Reliable Providers			1	
Pest Management, Weather Conditions Monitored			1	
Pesticide Application, Recordkeeping			1	
Pesticide Applications, Soil Characteristics Considered			1	
Pesticide Drift Management Plan, New			4	
Pesticide Drift Management Plan, Revised			1	
Pesticide Handling, Field Mixing and Loading			2	
Pesticide Mixture, Disposal of Excess			1	
Pesticide Spill Kit Availability			20	
Pesticides Stored Properly			1	
Pesticides, Air Blast Management			1	
Pesticides, Application Recordkeeping			3	
Pesticides, Container Handling			4	
Pesticides, Drift Management Plan, New			12	
Pesticides, Drift Management Plan, Revised			2	
Pesticides, Emergency Plan and Contacts			12	
Pesticides, Equipment Calibration			7	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Pesticides, Excess Spray Mixture Use			1	
Pesticides, Mixing and Loading In Field			11	
Pesticides, Resistance Prevention			1	
Pesticides, Rinsate Disposal			1	
Timber Management And Habitat Conflicts Addressed			1	
Precipitation Leading to Contaminated Run-Off			1	
RTF Site Selection and Odor-Control GAAMPS Met			2	
Runoff/Sedimentation Controlled			1	
RUP Compliance			3	
Secondary Containment, Fuel			6	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			2	
Site Monitored Annually For Changes			2	
Soil and/or Tissue Testing, Quadrennial		98.5		
Soil Testing, Representative Sampling		80	4	
Soil Testing, Triennial			17	
Soil, Characteristics Considered			2	
Soil, Nutrient Records		578.7		
Soil, pH Maintenance		66.5		
Special Sites Protected			1	
Sprayer, Cleaning Water Collected			1	
Storage, Application Equipment			1	
Storage, Appropriate Tanks			12	
Storage, Buildings Setback			1	
Storage, Decommissioned			4	
Storage, Dedicated			4	
Storage, Isolated From Other Products			2	
Storage, Labeled Containers			17	
Storage, Monitored for Leaks			2	
Storage, Security			4	
Storage, Shelving			3	
Storage, Signage			12	
Storage, Spill Kit			16	
Veterinary Product and Waste Disposal			6	
Visual Sensitivity Of The Site Has Been Assessed			1	
Waste, Floor Drains			7	
Waste, Recycling and Disposal			1	
Water, Protected From Pesticide Contamination			3	
Weather Stations/Models Used, On-Farm			4	
Well Construction			28	
Well Decommissioned			3	
Well Inspected			60	
Well Repaired to Standards			12	
Well Tests, Every Three Years			42	
Well Tests, Health Standards			32	
Worker Notification			1	
Worker Protection, Central Notification			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
<b>Alpena</b>		<b>509.6</b>	<b>335</b>	
Adequate Land Base for Nutrients			2	
Anti-Backflow Device Installed			8	
Backflow Prevention on Livestock Watering Systems			3	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			15	
Drift Management Plan, New			5	
Emergency Plan, Employee Training			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			6	
Emergency Plan, Pesticide New			5	
Environmentally Sensitive Areas Identified		184		
Fill Opening Separate From Vent Opening			1	
Impermeable Surface, Fuel			3	
Irrigation, Rain Gauges in Fields			2	
Irrigation, Record Keeping			1	
Isolation Distances Met			5	
Land Management Plan, New			1	
Livestock Management, Anti-Backflow device installed			5	
Livestock Management, NMP			5	
Livestock Management, Recordkeeping			10	
Livestock Management, Siting			9	
Livestock Yard, Floor			2	
Livestock Yard, Manure Scrape and Haul			5	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Duration			4	
Manure Storage, Temporary Location			5	
Manure, Isolation Distances Met			1	
Manure, Management Records			4	
Manure, Odor Management			2	
Odor Management Plan			4	
P Fertilizer, Rate Determination			1	
Pasture Management, Manure Near Water Tanks/Feeders			1	
Pasture Soil Tested			5	
Pasture, Managing Livestock in Winter for Runoff			1	
Pastures Have Current Soil Tests			5	
Pesticide Spill Kit Availability			1	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			2	
Pesticides, Emergency Plan and Contacts			1	
Portion of Animal Feed Produced On Farm			1	
RTF Site Selection and Odor-Control GAAMPS Met			2	
Secondary Containment, Fuel			6	
Septic, System Maintenance Records			3	
Soil Testing, Representative Sampling			17	
Soil Testing, Triennial			35	
Soil, Nutrient Records		325.6		

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Storage, Decommissioned			3	
Storage, Dedicated			1	
Storage, Elevation			1	
Storage, Monitored for Leaks			1	
Storage, Portable Fueling			1	
Storage, Security			16	
Storage, Signage			7	
Storage, Spill Kit			1	
Storage, Spill Protection			3	
Sustainable Soil And Water Quality Practices Followed			2	
Veterinary Product and Waste Disposal			26	
Waste, Ash Disposal			1	
Waste, Floor Drains			2	
Waste, Isolation Distances Met			2	
Waste, Recycling and Disposal			34	
Well Tests, Every Three Years			16	
Well Tests, Health Standards			19	
<b>Antrim</b>		<b>6,190</b>	<b>177</b>	
Dead Animals Handled According to BODA			2	
Drift Management Plan, New			6	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			6	
Emergency Plan, Manure Spill, Revised			4	
Emergency Plan, Pesticide New			6	
Emergency Plan, Pesticide Revised			4	
Environmentally Sensitive Areas Identified		5,920		
Farm Emergency Plan Developed and Followed, New			2	
Fertilizer, Determination of Rates			1	
FMP Includes Landowner Objectives			1	
Forestry Management Plan, New			1	
Impermeable Surface, Fuel			4	
Irrigation, Amount Determined Accurately			1	
Irrigation, Rain Gauges in Fields			9	
Irrigation, Record Keeping			4	
Isolation Distances Met			4	
Large Quantity Water Withdrawal Registered			1	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			1	
Livestock Yard, Drainage Diversion			2	
Livestock Yard, Floor			1	
Required Regulatory Reporting and Recordkeeping Compliance			13	
Manure Application, Rate Determination			3	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Location			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			2	

<b>MAEAP Technical Assistance Summary: FY 2017 Through FY 2019</b>	<b>Units</b>		
<b>Practices Implemented By County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Nutrient Management Plans, Annual By Field	80		
Nutrient Management Records, Multiple		1	
Odor Management Plan		6	
Pasture Soil Tested		1	
Pastures Have Current Soil Tests		6	
Pesticide Drift Management Plan, New		3	
Pesticide Drift Management Plan, Revised		1	
Pesticide Spill Kit Availability		5	
Pesticides, Application Recordkeeping		1	
Pesticides, Container Handling		1	
Pesticides, Drift Management Plan, New		1	
Secondary Containment, Fertilizer		1	
Secondary Containment, Leaks and Precipitation		1	
Secondary Containment, Mix-Load		1	
Secondary Containment, Operational Pad		1	
Soil and/or Tissue Testing, Quadrennial	120		
Soil Testing, Representative Sampling		1	
Soil Testing, Triennial		12	
Soil, Nutrient Records	70		
Storage, Appropriate Tanks		2	
Storage, Portable Fueling		1	
Storage, Security		1	
Storage, Signage		4	
Storage, Spill Kit		8	
Storage, Spill Protection		2	
Waste, Floor Drains		7	
Waste, Isolation Distances Met		1	
Waste, Recycling and Disposal		5	
Water Use Reported		6	
Well Tests, Every Three Years		7	
Well Tests, Health Standards		6	
<b>Arenac</b>	<b>2,800</b>	<b>7</b>	
Environmentally Sensitive Areas Identified	1,300		
Manure, Nutrient Content Determination		2	
Nutrients, All Sources Considered		1	
Odor Management Plan		1	
Pesticides, Application Recordkeeping		1	
Pesticides, Drift Management Plan, New		1	
Pesticides, Emergency Plan and Contacts		1	
Soil Erosion Controlled	750		
Soil, Nutrient Records	750		
<b>Barry</b>	<b>1,980</b>	<b>30</b>	
Adequate Land Base for Nutrients		1	
Bogs And Fens Identified And RMZs Established		1	
Drift Management Plan, New		2	
Environmentally Sensitive Areas Identified	1,980		
Fertilizer, Determination of Rates		2	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Harvest Plan Map Used For Harvest			1	
Manure Application, Rate Determination			3	
Manure, Nutrient Content Determination			3	
Odor Management Plan			1	
Pastures Have Current Soil Tests			7	
Pesticides, Drift Management Plan, New			2	
Soil Testing, Triennial			2	
Well Tests, Every Three Years			3	
Well Tests, Health Standards			2	
<b>Bay</b>		<b>5,987</b>	<b>21</b>	
Emergency Plan, Manure Spill, New			3	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		1,686		
Irrigation, Evaluation for Uniformity			1	
Irrigation, Record Keeping			1	
Isolation Distances Met			1	
Livestock Management, Recordkeeping			1	
Livestock Yard, Surface Water Setback			1	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Duration			1	
Odor Management Plan			1	
Other Environmental Risks Resolved			1	
Pastures Have Current Soil Tests			1	
Pesticide Spill Kit Availability			1	
Pesticides, Application Recordkeeping			1	
Soil Erosion Controlled		3,001		
Soil Testing, Triennial		1,300	1	
Storage, Spill Kit			1	
Veterinary Product and Waste Disposal			1	
Water Use Reported			2	
<b>Benzie</b>		<b>2</b>	<b>76</b>	
Dead Animals, Composting Meets BODA Requirements			1	
Drift Management Plan, New			4	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Pesticide New			5	
Emergency Plan, Pesticide Revised			2	
Environmentally Sensitive Areas Identified		1		
Impermeable Surface, Fuel			3	
Irrigation, Rain Gauges in Fields			2	
Irrigation, Record Keeping			2	
Isolation Distances Met			6	
Livestock Yard, Runoff Management			1	
Livestock Yard, Surface Water Setback			1	
Required Regulatory Reporting and Recordkeeping Compliance			1	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Location			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Nutrient Content Determination			1	
Odor Management Plan			2	
Pasture Management For Vegetation and Runoff			1	
Pasture, Protection of Stream Banks and Surface Water			1	
Pesticide Drift Management Plan, New			1	
Pesticide Handling, Field Mixing and Loading			1	
Pesticide Rinsate, Proper Handling			2	
Pesticide Spill Kit Availability			2	
Precipitation Leading to Contaminated Run-Off			1	
Rinsate, Label Rates			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			2	
Soil, Nutrient Records		1		
Storage, Appropriate Tanks			2	
Storage, Security			3	
Storage, Signage			5	
Storage, Spill Kit			6	
Waste, Floor Drains			1	
Waste, Recycling and Disposal			1	
Water Use Reported			1	
Water, Protected From Pesticide Contamination			1	
Well Decommissioned			1	
Well Setback, Manure Sources			1	
Well Tests, Every Three Years			4	
Well Tests, Health Standards			1	
<b>Berrien</b>		<b>1,339</b>	<b>223</b>	
Anti-Backflow Device Installed			6	
Backflow Prevention on Livestock Watering Systems			9	
Dead Animals Handled According to BODA			1	
Drift Management Plan, New			5	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Fertilizer Revised			3	
Emergency Plan, Manure Spill, New			7	
Emergency Plan, Pesticide New			8	
Emergency Plan, Pesticide Revised			2	
Environmentally Sensitive Areas Identified		765		
Fertilizer, Determination of Rates			14	
Fertilizer, Rate Determination		30		
Impermeable Surface, Fuel			4	
Irrigation, Backflow Prevention			1	
Isolation Distances Met			7	
Landowner Complies With Laws And Ordinances			2	
Livestock Yard, Surface Water Setback			1	
Manure Application, Odor-Reduction Practices Used			1	
Manure Application, Rates Do Not Exceed Crop P Needs			2	



MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Manure Storage, Field Stacked Duration			1	
Manure Storage, Temporary Duration			5	
Manure Storage, Temporary Location			1	
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Manure, Management Records			2	
Manure, Nutrient Content Determination			3	
No Odor Complaints/Odor Complaints Resolved			1	
Nutrient Management Plans, Annual By Field		5		
Nutrient Management Records, Multiple			5	
Nutrients, All Sources Considered			1	
Odor Management Plan			4	
Pasture Management, Manure Near Water Tanks/Feeders			7	
Pasture Soil Tested			6	
Pastures Have Current Soil Tests			10	
Pesticide Application, Recordkeeping			3	
Pesticide Drift Management Plan, New			1	
Pesticide Drift Management Plan, Revised			1	
Pesticide Spill Kit Availability			1	
Pesticides, Application Recordkeeping			3	
Pesticides, Drift Management Plan, New			4	
Pesticides, Drift Management Plan, Revised			1	
Pesticides, Emergency Plan and Contacts			3	
Pesticides, Label Compliance			4	
Secondary Containment, Fuel			1	
Secondary Containment, Pesticides			2	
Soil and/or Tissue Testing, Quadrennial		158		
Soil Testing, Representative Sampling			2	
Soil Testing, Triennial			25	
Soil, Nutrient Records		381		
Storage, Appropriate Tanks			1	
Storage, Security			1	
Storage, Shelving			1	
Storage, Signage			3	
Storage, Spill Kit			12	
Veterinary Product and Waste Disposal			3	
Waste, Floor Drains			3	
Waste, Isolation Distances Met			1	
Waste, Recycling and Disposal			1	
Water, Protected From Pesticide Contamination			1	
Well Decommissioned			2	
Well Inspected			1	
Well Tests, Every Three Years			19	
<b>Branch</b>		<b>3,677</b>	<b>114</b>	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			1	
Dead Animals, Composting Meets BODA Requirements			1	
Dead Animals: Composting Process Properly Managed			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Drift Management Plan, New			2	
Drift Management Plan, Revised			4	
Emergency Plan, Fertilizer New			4	
Emergency Plan, Fertilizer Revised			3	
Emergency Plan, Manure Spill, New			6	
Emergency Plan, Manure Spill, Revised			2	
Emergency Plan, Pesticide New			4	
Emergency Plan, Pesticide Revised			3	
Environmentally Sensitive Areas Identified		2,307		
Erosion Minimized On Roads And Parking Lots			1	
Impermeable Surface, Fuel			1	
Isolation Distances Met			1	
Livestock Management, Runoff Management			1	
Manure Application, Rate Determination			1	
Manure Storage, Designed Use			1	
Manure Storage, Isolation Distances Met			2	
Manure Storage, Liquid Storage Design and Installation			1	
Manure Storage, Liquid Storage Freeboard Maintained			2	
Manure Storage, Temporary Duration			2	
Manure, Management Records			1	
Odor Management Plan			7	
Pesticide Spill Kit Availability			3	
Pesticides, Application Recordkeeping			3	
Pesticides, Container Handling			2	
Pesticides, Drift Management Plan, New			3	
Pesticides, Drift Management Plan, Revised			6	
Pesticides, Emergency Plan and Contacts			6	
Pesticides, Rinsate Disposal			1	
Soil Erosion Controlled		1,050		
Soil, Nutrient Records		320		
Storage, Signage			3	
Storage, Spill Kit			3	
Veterinary Product and Waste Disposal			1	
Waste, Floor Drains			2	
Waste, Recycling and Disposal			2	
Water, Protected From Pesticide Contamination			8	
Well Decommissioned			5	
Well Tests, Every Three Years			13	
<b>Calhoun</b>		<b>11,734</b>	<b>126</b>	
Anti-Backflow Device Installed			2	
Cover Crop Use		300		
Drift Management Plan, New			5	
Emergency Plan, Fertilizer New			3	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			3	
Emergency Plan, Manure Spill, Revised			2	
Emergency Plan, New, Silage			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Emergency Plan, Pesticide New			5	
Emergency Plan, Pesticide Revised			2	
Environmentally Sensitive Areas Identified		4,460		
Equipment, Parking and Storage			1	
Fertilizer, Determination of Rates			1	
Herbicide Setback Maintenance			1	
Impermeable Surface, Fuel			2	
Irrigation, Evaluation for Uniformity			1	
Irrigation, Record Keeping			2	
Isolation Distances Met			3	
Livestock Management, Recordkeeping			2	
Manure Application, Rate Determination			1	
Manure, Liquid Loss Through Tile Lines			1	
Manure, Management Records			3	
Manure, Nutrient Content Determination			1	
Nutrients, All Sources Considered			1	
Odor Management Plan			4	
Pesticide Spill Kit Availability			4	
Pesticides, Application Recordkeeping			4	
Pesticides, Container Handling			2	
Pesticides, Drift Management Plan, New			9	
Pesticides, Drift Management Plan, Revised			1	
Pesticides, Emergency Plan and Contacts			4	
Pesticides, Equipment Calibration			2	
Pesticides, Mixing and Loading In Field			1	
Pesticides, Toxicity Considered for Beneficial Insects			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			1	
Soil Erosion Controlled		2,150		
Soil Testing, Triennial			14	
Soil, Nutrient Records		4,824		
Storage, Signage			4	
Storage, Spill Kit			2	
Surface Drains Present Around Farmstead			1	
Veterinary Product and Waste Disposal			1	
Waste, Floor Drains			2	
Water Use Reported			1	
Water, Protected From Pesticide Contamination			1	
Well Inspected			2	
Well Repaired to Standards			2	
Well Tests, Every Three Years			11	
Well Tests, Health Standards			7	
<b>Cass</b>		<b>18,228.1</b>	<b>833</b>	<b>3,001,202</b>
Adequate Land Base for Nutrients			6	
Anti-Backflow Device Installed			11	
Backflow Prevention on Livestock Watering Systems			4	
Rare And Sensitive Species And Habitats Protected			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Chemigation, Anti-backflow Device			3	
Conservation Practices Routinely Evaluated			5	
Corn Rotated Annually			1	
Cover Crop Use		350		
Crop Yields, Realistic Goals			3	
Dead Animals Handled According to BODA			14	
Dead Animals, Composting Isolation Distance			3	
Dead Animals, Composting Process Follows BODA			3	
Dead Animals, Composting Meets BODA Requirements			2	
Dead Animals, Composting Site Capacity Is Adequate			1	
Dead Animals, Proper Composting Site Selection			4	
Drift Management Plan, New			3	
Emergency Plan, Employee Training			1	
Emergency Plan, Fertilizer New			3	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			14	
Emergency Plan, Manure Spill, Revised			3	
Emergency Plan, Pesticide New			2	
Environmentally Sensitive Areas Identified		6,481		
Erosion Controlled, Site		55		
Excess Product, Label Rates			1	
Farm Emergency Plan Developed and Followed, New			1	
Fertilizer Records Maintained			3	
Fertilizer, Application Equipment Calibration			5	
Fertilizer, Determination of Rates			11	
Fertilizer, Rate Determination		605		
Food Safety Plan Written and Implemented			1	
Forestry Management Plan , Revised			2	
Hydrant MDEQ Approved			1	
Impermeable Surface, Fuel			13	
Invasive Species Identified And Managed			2	
Irrigation Discharge Managed			1	
Irrigation Records Maintained			2	
Irrigation, Drift and Off-Target Prevention			1	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			9	
Isolation Distances Met			22	
Landowner Complies With Laws And Ordinances			6	
Landowner Enrolled in Programs Appropriate To Objectives			1	
Livestock Management, Anti-Backflow device installed			3	
Livestock Management, NMP			6	
Livestock Management, Recordkeeping			11	
Livestock Management, Siting			1	
Livestock Yard, Drainage Diversion			1	
Livestock Yard, Manure Scrape and Haul			4	
Livestock Yard, Runoff Management			3	
Livestock Yard, Surface Water Setback			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Management Activities Conform to Applicable Forest Land BMPs			1	
Required Regulatory Reporting and Recordkeeping Compliance			1	
Manure Application, Odor-Reduction Practices Used			1	
Manure Application, Ponding, Erosion, and Runoff Avoided			2	
Manure Application, Rate Determination			1	
Manure Storage, Capacity				3,000,000
Manure Storage, Farmstead Stacked, Odor and Pest Control			5	
Manure Storage, Isolation Distances Met			3	
Manure Storage, Liquid Storage Design and Installation			5	
Manure Storage, Liquid Storage, Nearby Area Maintained			1	
Manure Storage, Temporary Duration			3	
Manure Storage, Temporary Location			9	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Application Rates Do Not Exceed Crop N Needs		800		
Manure, Application Rates Do Not Exceed Crop P Needs		200		
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Manure, Irrigation System Backflow Prevention			8	
Manure, Management Records			7	
Manure, Nutrient Content Determination			7	
Manure, Odor Management			1	
N Fertilizer, Split/Multiple Applications		520		
No N Applications For Soybeans or Alfalfa			1	
Nutrient Management Plans, Annual		300		
Nutrient Management Plans, Annual By Field		2,150		
Nutrient Management Records, Multiple			2	
Nutrients, All Sources Considered			4	
Odor Management Plan			13	
Other Environmental Risks Resolved			2	
P Fertilizer, Rate Determination			2	
Pasture Management For Vegetation and Runoff			2	
Pasture Management, Manure Near Water Tanks/Feeders			15	
Pasture Management, Protecting Surface Water			1	
Pasture, Protection of Stream Banks and Surface Water			3	
Pasture Soil Tested			50	
Pastures Have Current Soil Tests			17	
Pest Management, Practices Current			1	
Pest Management, Reviews Previous Years Results			2	
Pesticide Drift Management Plan, New			1	
Pesticide Inventory Control			4	
Pesticide Spill Kit Availability			6	
Pesticides, Drift Management Plan, New			2	
Pesticides, Drift Management Plan, Revised			1	
Pesticides, Emergency Plan and Contacts			1	
Pesticides, Equipment Calibration			1	
Pesticides, Label Compliance			3	
Portion of Animal Feed Produced On Farm			5	
PPE Training And Maintenance			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Property Boundaries Known And Marked			1	
Roof Runoff System In Place			1	
RTF Site Selection and Odor-Control GAAMPS Met			2	
Runoff/Sedimentation Controlled			2	
RUP Compliance			3	
Secondary Containment, Fertilizer			4	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			4	
Septic, Isolation Distances Met			1	
Septic, Pumping			1	
Soil and/or Tissue Testing, Quadrennial		305		
Soil Erosion Controlled		4,431		
Soil Quality Indicators Evaluated			12	
Soil Testing, Representative Sampling		300	184	
Soil Testing, Triennial		190	58	
Soil, Nutrient Records		1,541		
Soil, pH Maintenance		0.1		
Special Sites Protected			1	
Storage, Appropriate Tanks			8	
Storage, Dedicated			1	
Storage, Fertilizer Liquid				1,200
Storage, Monitored for Leaks			2	
Storage, Security			1	
Storage, Shelving			2	
Storage, Signage			6	
Storage, Spill Kit			4	
Storage, Spill Protection			2	
Storage, Valves and Hoses			5	
Surface Drains Present Around Farmstead			3	
Sustainable Soil And Water Quality Practices Followed			1	
Veterinary Product and Waste Disposal			10	
Waste, Floor Drains			5	
Waste, Recycling and Disposal			9	
Water Management, Wastewater				2
Water Source, Appropriate			1	
Water Use Reported			8	
Well Decommissioned			10	
Well Inspected			13	
Well Repaired to Standards			13	
Well Setback, Manure Sources			2	
Well Tests, Every Three Years			22	
Well Tests, Health Standards			31	
Worker Protection Standards Met			1	
<b>Charlevoix</b>		<b>165</b>	<b>85</b>	
Anti-Backflow Device Installed			4	
Containers, Properly Rinsed			2	
Drift Management Plan, New			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Emergency Plan, Fertilizer New			2	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Manure Spill, Revised			2	
Emergency Plan, Pesticide New			3	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		130		
Excess Product, Label Rates			1	
Impermeable Surface, Fuel			1	
Irrigation, Record Keeping			1	
Isolation Distances Met			6	
Livestock Management, Recordkeeping			2	
Manure Storage, Temporary Location			2	
Manure, Management Records			2	
Nutrient Management Records, Multiple			1	
Odor Management Plan			1	
Pasture Soil Tested			3	
Pastures Have Current Soil Tests			2	
Pesticide Drift Management Plan, New			1	
Pesticide Handling, Field Mixing and Loading			1	
Pesticide Spill Kit Availability			3	
Pesticides, Application Recordkeeping			1	
Pesticides, Container Handling			3	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			1	
Pesticides, Excess Spray Mixture Use			1	
Pesticides, Label Compliance			1	
Pesticides, Mixing and Loading In Field			2	
Pesticides, Rinsate Disposal			1	
Rinsate, Label Rates			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			1	
Soil and/or Tissue Testing, Quadrennial		4		
Soil Testing, Triennial			6	
Soil, Nutrient Records		31		
Storage, Security			1	
Storage, Signage			1	
Storage, Spill Kit			2	
Veterinary Product and Waste Disposal			1	
Waste, Isolation Distances Met			1	
Water, Protected From Pesticide Contamination			1	
Well Tests, Every Three Years			14	
<b>Cheboygan</b>		<b>160</b>	<b>67</b>	
Anti-Backflow Device Installed			2	
Dead Animals Handled According to BODA			2	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Manure Spill, Revised			1	
Fertilizer, Determination of Rates			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Livestock Management, Anti-Backflow device installed			2	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			2	
Manure Application, Rate Determination			2	
Manure Applications, Weather Forecasts Monitored			1	
Manure Storage, Temporary Duration			2	
Manure Storage, Temporary Location			2	
Manure, Isolation Distances Met			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			2	
Milking Center, Parlor Cleanup Practices			1	
Milking Center, Septic System Management			1	
Milking Center, Septic Treatment			1	
Milking Center, Wastewater Collection and Storage			1	
Nutrient Management Plans, Annual By Field		80		
Nutrients, All Sources Considered			1	
Pasture Management For Vegetation and Runoff			2	
Pasture Management, Manure Near Water Tanks/Feeders			2	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			1	
Rejected Milk Collection and Storage			1	
Septic, Designed Use			2	
Soil Testing, Representative Sampling			2	
Soil Testing, Triennial			4	
Soil, Nutrient Records		80		
Storage, Appropriate Tanks			1	
Storage, Monitored for Leaks			1	
Storage, Valves and Hoses			1	
Veterinary Product and Waste Disposal			2	
Well Tests, Every Three Years			16	
Well Tests, Health Standards			2	
<b>Chippewa</b>		<b>7,979.6</b>	<b>526</b>	
Adequate Land Base for Nutrients			2	
Anti-Backflow Device Installed			5	
Containers, Properly Rinsed			5	
Crop Yields, Realistic Goals			4	
Dead Animals Handled According to BODA			18	
Dead Animals, Composting Process Follows BODA			1	
Dead Animals, Composting Meets BODA Requirements			6	
Dead Animals: Composting Process Properly Managed			1	
Drift Management Plan, New			4	
Emergency Plan, Fertilizer New			11	
Emergency Plan, Fertilizer Revised			2	
Emergency Plan, Manure Spill, New			23	
Emergency Plan, Manure Spill, Revised			8	
Emergency Plan, New, Silage			1	
Emergency Plan, Pesticide New			8	



MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Emergency Plan, Pesticide Revised			2	
Environmentally Sensitive Areas Identified		4,659.1		
Erosion Controlled, Site		6		
Excess Product, Label Rates			1	
Farm Emergency Plan Developed and Followed, New			1	
Fertilizer, Determination of Rates			3	
Fertilizer, Rate Determination		18		
Forest Roads Established And Maintained To Avoid Erosion			4	
Impermeable Surface, Fuel			2	
Isolation Distances Met			7	
Livestock Management, Anti-Backflow device installed			3	
Livestock Management, NMP			5	
Livestock Management, Recordkeeping			24	
Livestock Management, Runoff Management			1	
Livestock Management, Siting			1	
Livestock Yard, Drainage Diversion			2	
Manure Application, Procedure		6		
Manure Storage, Bedded Design and Construction			1	
Manure Storage, Design and Construction			1	
Manure Storage, Temporary Location			3	
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Manure, Management Records			12	
Manure, Nutrient Content Determination			8	
Manure, Odor Management			3	
Mix-Load, Filling Monitored			1	
Nutrient Management Plans, Annual		17		
Nutrient Management Plans, Annual By Field		20		
Nutrient Management Records, Multiple			2	
Nutrients, All Sources Considered			3	
Odor Management Plan			22	
Other Environmental Risks Resolved			2	
P Fertilizer, Rate Determination			2	
Pasture Management, Manure Near Water Tanks/Feeders			3	
Pasture, Protection of Stream Banks and Surface Water			2	
Pasture Soil Tested		220	10	
Pastures Have Current Soil Tests		560	8	
Pesticide Application, Recordkeeping			1	
Pesticide Drift Management Plan, New			1	
Pesticide Spill Kit Availability			4	
Pesticides, Application Recordkeeping			4	
Pesticides, Container Handling			15	
Pesticides, Drift Management Plan, New			3	
Pesticides, Emergency Plan and Contacts			2	
Pesticides, Equipment Calibration			1	
Pesticides, Excess Spray Mixture Use			1	
Pesticides, Label Compliance			1	
Pesticides, Mixing and Loading In Field			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Pesticides, Rinsate Disposal			2	
Precipitation Leading to Contaminated Run-Off			1	
Rinsate, Label Rates			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			1	
Septic, Pumping			5	
Soil and/or Tissue Testing, Quadrennial		17		
Soil Testing, Representative Sampling			17	
Soil Testing, Triennial		760	29	
Soil, Nutrient Records		1,696.5		
Storage, Appropriate Tanks			2	
Storage, Dedicated			1	
Storage, Designed Use			1	
Storage, Monitored for Leaks			1	
Storage, Portable Fueling			2	
Storage, Security			1	
Storage, Signage			7	
Storage, Spill Kit			4	
Veterinary Product and Waste Disposal			18	
Waste, Ash Disposal			4	
Waste, Farm Dump			3	
Waste, Floor Drains			10	
Waste, Isolation Distances Met			10	
Waste, Recycling and Disposal			78	
Well Decommissioned			2	
Well Repaired to Standards			5	
Well Tests, Every Three Years			24	
Well Tests, Health Standards			23	
<b>Clare</b>			<b>9</b>	
Emergency Plan, Manure Spill, Revised			1	
Land Management Plan, New			1	
LMP Allows for Active and Adaptive Management			1	
LMP Prepared By Professional Natural Resource Manager			1	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			1	
Soil Testing, Triennial			1	
Well Tests, Every Three Years			1	
Well Tests, Health Standards			1	
<b>Clinton</b>		<b>36,610.5</b>	<b>258</b>	<b>2,446,267</b>
Adequate Land Base for Nutrients			4	
No Adverse Impact To Endangered/Threatened Species			1	
All Habitat Types Identified and Mapped In LMP			1	
Anti-Backflow Device Installed			1	
Rare And Sensitive Species And Habitats Protected			1	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			10	
Drift Management Plan, New			5	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Drift Management Plan, Revised			3	
Emergency Plan, Fertilizer New			4	
Emergency Plan, Fertilizer Revised			6	
Emergency Plan, Manure Spill, New			9	
Emergency Plan, Manure Spill, Revised			3	
Emergency Plan, New, Silage			5	
Emergency Plan, New, Tire Fire			1	
Emergency Plan, Pesticide New			5	
Emergency Plan, Pesticide Revised			7	
Emergency Plan, Revised, Silage			2	
Emergency Plan, Revised, Tire Fire			1	
Environmentally Sensitive Areas Identified		25,251.6		
Erosion Controlled, Site		0.5		
Fertilizer, Application Equipment Calibration			2	
Fertilizer, Determination of Rates			1	
Impermeable Surface, Fuel			4	
Invasive Species Identified And Managed			1	
Irrigation Records Maintained			1	
Irrigation, Amount Determined Accurately			1	
Irrigation, Evaluation for Uniformity			1	
Irrigation, Record Keeping			2	
Isolation Distances Met			7	
Land Management Plan, New			1	
Large Quantity Water Withdrawal Registered			1	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			1	
Livestock Management, Runoff Management			1	
Livestock Management, Siting			3	
Livestock Yard, Runoff Management			3	
Livestock Yard, Surface Water Setback			1	
LMP Allows for Active and Adaptive Management			1	
LMP Identifies All Resource Concerns			1	
LMP Includes Details of Desired Future Conditions			2	
LMP Includes Landowner Objectives			1	
LMP Prepared By Professional Natural Resource Manager			1	
Manure Application, Compatible With Soils			4	
Required Regulatory Reporting and Recordkeeping Compliance			4	
Manure Application, MARI Completed		1,655	2	
Manure Application, Odor-Reduction Practices Used			1	
Manure Application, Ponding, Erosion, and Runoff Avoided			1	
Manure Application, Rate Determination			5	
Manure Application, Rates Do Not Exceed Crop N Needs			1	
Manure Application, Rates Do Not Exceed Crop P Needs			2	
Manure Application, Runoff Prevention		360		
Manure Applications, Weather Forecasts Monitored			1	
Manure Storage, Capacity				2,446,147
Manure Storage, Designed Use			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Manure Storage, Farmstead Stacked, Odor and Pest Control			1	
Manure Storage, Isolation Distances Met			1	
Manure Storage, Liquid Storage Design and Installation			1	
Manure Storage, Liquid Storage Freeboard Maintained			3	
Manure Storage, Temporary Location			1	
Manure, Application Rates Do Not Exceed Crop P Needs		620.5		
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Manure, Management Records			4	
Manure, Odor Management			1	
Manure, Winter Application Procedure		1,896		
Nutrient Management Plans, Annual By Field		398.6		
Nutrients, All Sources Considered			1	
Odor Management Plan			11	
P Fertilizer, Rate Determination		38.6	3	
Pasture Management For Vegetation and Runoff			1	
Pasture Soil Tested			6	
Pastures Have Current Soil Tests			1	
Pesticide Drift Management Plan, New			1	
Pesticide Spill Kit Availability			7	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			6	
Pesticides, Drift Management Plan, Revised			6	
Pesticides, Emergency Plan and Contacts			5	
Pesticides, Equipment Calibration			6	
Precipitation Leading to Contaminated Run-Off			2	
RTF Site Selection and Odor-Control GAAMPS Met			3	
Secondary Containment, Fuel			3	
Secondary Containment, Mix-Load			2	
Silage, Leachate Collection/Treatment				20
Soil Erosion Controlled		6,379.6		
Soil Testing, Triennial		10		
Special Sites Protected			1	
Storage, Appropriate Tanks			2	
Storage, Decommissioned			2	
Storage, Security			3	
Storage, Signage			5	
Storage, Spill Kit			6	
Storage, Spill Protection			6	
Veterinary Product and Waste Disposal			4	
Waste, Floor Drains			2	
Waste, Isolation Distances Met			2	
Waste, Recycling and Disposal			2	
Water Management, Wastewater				100
Water Use Reported			1	
Well Decommissioned			1	
Well Repaired to Standards			2	
Well Tests, Every Three Years			10	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Well Tests, Health Standards			1	
<b>Crawford</b>			<b>7</b>	
Manure, Nutrient Content Determination			1	
Nutrients, All Sources Considered			1	
Pastures Have Current Soil Tests			1	
Soil Testing, Triennial			2	
Well Tests, Every Three Years			2	
<b>Delta</b>		<b>3,674</b>	<b>240</b>	
No Adverse Impact To Endangered/Threatened Species			11	
All Habitat Types Identified and Mapped In LMP			10	
Dead Animals Handled According to BODA			10	
Drift Management Plan, New			1	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			3	
Emergency Plan, Fertilizer Revised			5	
Emergency Plan, Manure Spill, New			7	
Emergency Plan, Manure Spill, Revised			10	
Emergency Plan, Pesticide New			3	
Emergency Plan, Pesticide Revised			5	
Environmentally Sensitive Areas Identified		578		
Fertilizer, Determination of Rates			1	
Forestation Achieves Adequate Stocking Levels			1	
Forestland Enrolled In Sustainable Forest Certification Program			1	
Land Management Plan, New			9	
Land Units Evaluated For Stocking Levels of Desired Species			1	
Landowner Enrolled in Programs Appropriate To Objectives			2	
Minimal Impact To Cultural Sites			3	
Landowner Uses Natural Resource Professionals For Services			2	
Landowner Uses Professionals To Comply With All Laws			2	
Livestock Management, Recordkeeping			11	
LMP Allows for Active and Adaptive Management			12	
LMP Identifies All Resource Concerns			1	
LMP Includes Landowner Objectives			11	
LMP Prepared By Professional Natural Resource Manager			10	
Manure Application, Rate Determination			4	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Management Records			5	
Manure, Nutrient Content Determination			2	
Nutrient Management Plans, Annual By Field		1,130		
Odor Management Plan			1	
Other Environmental Risks Resolved			1	
Owner Monitors Harvests to Ensure Conformance With LMP			1	
Pasture Soil Tested			5	
Pastures Have Current Soil Tests			5	
Pesticide Spill Kit Availability			1	
Pesticides Used And Stored According To EPA, SSWQPs			1	
Pesticides, Application Recordkeeping			4	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Pesticides, Drift Management Plan, New			1	
Pesticides, Drift Management Plan, Revised			1	
Timber Management And Habitat Conflicts Addressed			10	
Site Monitored Annually For Changes			1	
Soil Testing, Triennial			10	
Soil, Nutrient Records		1,966		
Special Sites Protected			5	
Storage, Dedicated			1	
Storage, Signage			1	
Storage, Spill Kit			1	
Timber Sale Contract Prepared By Professional Forester			3	
Veterinary Product and Waste Disposal			5	
Visual Sensitivity Of The Site Has Been Assessed			1	
Waste, Floor Drains			1	
Well Tests, Every Three Years			18	
Well Tests, Health Standards			17	
<b>Dickinson</b>		<b>50</b>	<b>5</b>	
Environmentally Sensitive Areas Identified		50		
Well Tests, Every Three Years			2	
Well Tests, Health Standards			3	
<b>Eaton</b>		<b>2,436</b>	<b>107</b>	
Adequate Land Base for Nutrients			1	
Forest Product Harvest And Other Activity Records			1	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			2	
Drift Management Plan, New			2	
Emergency Plan, Manure Spill, New			5	
Emergency Plan, Pesticide New			2	
Environmentally Sensitive Areas Identified		2,087		
Farm Emergency Plan Developed and Followed, New			1	
Fertilizer Records Maintained			1	
Impermeable Surface, Fuel			5	
Invasive Species Identified And Managed			1	
Irrigation, Record Keeping			1	
Isolation Distances Met			2	
Livestock Management, Recordkeeping			3	
Livestock Yard, Manure Scrape and Haul			1	
Livestock Yard, Runoff Management			1	
Manure Application, MARI Completed			1	
Manure Application, Rate Determination			2	
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Location			4	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			5	
Nutrient Management Plans, Annual		1		
Nutrient Management Records, Multiple			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Odor Management Plan			5	
Pasture Management For Vegetation and Runoff			1	
Pasture, Protection of Stream Banks and Surface Water			1	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			5	
Pesticide Application, Recordkeeping			1	
Pesticide Drift Management Plan, New			1	
Pesticide Handling, Field Mixing and Loading			1	
Pesticides, Drift Management Plan, New			2	
Pesticides, Emergency Plan and Contacts			1	
Timber Management And Habitat Conflicts Addressed			1	
Secondary Containment, Mix-Load			2	
Soil Erosion Controlled		308		
Soil Testing, Triennial			8	
Soil, Nutrient Records		40		
Storage, Appropriate Tanks			1	
Storage, Signage			2	
Storage, Spill Kit			2	
Timber Harvesting Conducted According To FMP			1	
Veterinary Product and Waste Disposal			1	
Waste, Floor Drains			1	
Waste, Isolation Distances Met			1	
Waste, Recycling and Disposal			2	
Well Tests, Every Three Years			13	
Well Tests, Health Standards			7	
<b>Emmet</b>		<b>155</b>	<b>68</b>	
Anti-Backflow Device Installed			7	
Containers, Properly Rinsed			3	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		40		
Excess Product, Label Rates			4	
Farm Emergency Plan Developed and Followed, New			2	
Isolation Distances Met			5	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			1	
Manure Storage, Temporary Duration			2	
Manure Storage, Temporary Location			2	
Mix-Load, Filling Monitored			1	
Mix-Load, Measuring Devices			1	
Nutrient Management Records, Multiple			1	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			1	
Pesticide Application, Recordkeeping			1	
Pesticide Drift Management Plan, New			1	
Pesticide Mixture, Disposal of Excess			3	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Pesticide Rinsate, Proper Handling			1	
Pesticides, Container Handling			5	
Pesticides, Excess Spray Mixture Use			2	
Pesticides, Rinsate Disposal			1	
Rinsate, Label Rates			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			1	
Soil and/or Tissue Testing, Quadrennial		15		
Soil Erosion Controlled		100		
Soil Testing, Triennial			3	
Storage, Isolated From Other Products			2	
Storage, Regular Inspection			1	
Storage, Security			1	
Veterinary Product and Waste Disposal			2	
Water, Protected From Pesticide Contamination			1	
Well Tests, Every Three Years			5	
Well Tests, Health Standards			1	
<b>Genesee</b>		<b>3,150.8</b>	<b>115</b>	
Crop Yields, Realistic Goals			4	
Dead Animals Handled According to BODA			1	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Manure Spill, Revised			3	
Emergency Plan, Pesticide New			2	
Emergency Plan, Pesticide Revised			1	
Emergency Plan, Revised, Silage			2	
Environmentally Sensitive Areas Identified		3,028.4		
Impermeable Surface, Fuel			2	
Irrigation, Amount Determined Accurately			2	
Irrigation, Record Keeping			3	
Landowner Complies With Laws And Ordinances			3	
Livestock Management, Anti-Backflow device installed			4	
Livestock Management, Recordkeeping			2	
Manure Application, MARI Completed			1	
Manure Application, Rate Determination			5	
Manure Application, Rates Do Not Exceed Crop P Needs			1	
Manure, Application Rates Do Not Exceed Crop N Needs		0.2		
Manure, Application Rates Do Not Exceed Crop P Needs		1.1		
Manure, Management Records			2	
Manure, Nutrient Content Determination			2	
Manure, Winter Application Procedure		118		
Odor Management Plan			5	
P Fertilizer, Rate Determination			5	
Pasture Soil Tested			2	
Pastures Have Current Soil Tests			10	
Pesticide Drift Management Plan, New			1	



MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Pesticide Spill Kit Availability			3	
Pesticides, Application Recordkeeping			3	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			2	
Soil Erosion Controlled		3		
Soil Testing, Triennial			14	
Soil, Nutrient Records		0.2	1	
Storage, Monitored for Leaks			1	
Storage, Security			3	
Storage, Signage			2	
Storage, Spill Kit			2	
Well Tests, Every Three Years			13	
Well Tests, Health Standards			4	
<b>Gladwin</b>		<b>888</b>	<b>43</b>	
Adequate Land Base for Nutrients			2	
Conservation Practices Routinely Evaluated			1	
Dead Animals Handled According to BODA			3	
Emergency Plan, Manure Spill, New			3	
Environmentally Sensitive Areas Identified		288		
Impermeable Surface, Fuel			1	
Livestock Management, NMP			3	
Livestock Management, Recordkeeping			2	
Livestock Yard, Manure Scrape and Haul			2	
Livestock Yard, Runoff Management			2	
Manure Application, MARI Completed			2	
Manure Application, Rate Determination			1	
Manure Application, Runoff Prevention		200		
Manure Storage, Bedded Design and Construction			1	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Location			1	
Manure Storage, Temporary Stacked, Odor and Pest Control			1	
Manure, Management Records			1	
Manure, Winter Application Procedure		200		
Nutrient Management Plans, Annual By Field		200		
Odor Management Plan			2	
Other Environmental Risks Resolved			1	
Pasture Management For Vegetation and Runoff			1	
Pasture Management, Manure Near Water Tanks/Feeders			2	
Pasture Management, Protecting Surface Water			1	
Pasture Soil Tested			1	
Pesticide Spill Kit Availability			1	
Soil Testing, Triennial			3	
Veterinary Product and Waste Disposal			1	
Well Tests, Every Three Years			2	
<b>Gogebic</b>		<b>300</b>	<b>3</b>	
Environmentally Sensitive Areas Identified		300		

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Pasture Soil Tested			3	
<b>Grand Traverse</b>		<b>1,707.5</b>	<b>245</b>	
Anti-Backflow Device Installed			4	
Drift Management Plan, New			8	
Drift Management Plan, Revised			4	
Emergency Plan, Fertilizer New			5	
Emergency Plan, Fertilizer Revised			3	
Emergency Plan, Pesticide New			16	
Emergency Plan, Pesticide Revised			5	
Environmentally Sensitive Areas Identified		1,553.4		
Equipment, Parking and Storage			1	
Equipment, Properly Cleaned and Rinsed			1	
Erosion Controlled, Site		1		
Fertilizer, Rate Determination		6.3		
Impermeable Surface, Fuel			5	
Irrigation Records Maintained			1	
Irrigation, Amount Determined Accurately			4	
Irrigation, Rain Gauges in Fields			7	
Irrigation, Record Keeping			9	
Irrigation, System Evaluation			1	
Isolation Distances Met			10	
Livestock Management, NMP			1	
Livestock Yard, Drainage Diversion			1	
Livestock Yard, Floor			1	
Livestock Yard, Manure Scrape and Haul			1	
Required Regulatory Reporting and Recordkeeping Compliance			18	
Manure Application, Rate Determination			1	
Manure Storage, Design and Construction			1	
Manure Storage, Field Stacked Duration			1	
Manure, Management Records			6	
Nutrient Management Records, Multiple			6	
Odor Management Plan			1	
P Fertilizer, Rate Determination			1	
Pasture Soil Tested			1	
Pesticide Drift Management Plan, New			7	
Pesticide Drift Management Plan, Revised			2	
Pesticide Handling, Field Mixing and Loading			4	
Pesticide Mixture, Disposal of Excess			1	
Pesticide Rinsate, Proper Handling			2	
Pesticide Spill Kit Availability			15	
Pesticides, Application Recordkeeping			2	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			2	
Pesticides, Equipment Calibration			2	
Pesticides, Mixing and Loading In Field			1	
Rinsate, Label Rates			1	
RUP Compliance			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Safety Data Sheets Available On-Site			1	
Secondary Containment, Fertilizer			2	
Secondary Containment, Mix-Load			11	
Secondary Containment, Operational Pad			1	
Secondary Containment, Pesticides			4	
Soil and/or Tissue Testing, Quadrennial		136		
Soil Testing, Triennial			1	
Soil, Nutrient Records		10.8		
Storage, Application Equipment			1	
Storage, Appropriate Tanks			1	
Storage, Isolated From Other Products			1	
Storage, Security			4	
Storage, Signage			9	
Storage, Spill Kit			15	
Storage, Valves and Hoses			1	
Waste, Floor Drains			1	
Waste, Isolation Distances Met			1	
Waste, Recycling and Disposal			3	
Well Decommissioned			1	
Well Repaired to Standards			2	
Well Tests, Every Three Years			13	
Well Tests, Health Standards			7	
<b>Gratiot</b>		<b>24,056.6</b>	<b>132</b>	
Adequate Land Base for Nutrients			1	
Other Habitats Enrolled In Long-Term Conservation Programs			1	
Anti-Backflow Device Installed			1	
Backflow Prevention on Livestock Watering Systems			2	
Crop Yields, Realistic Goals			1	
Drift Management Plan, New			2	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Fertilizer Revised			2	
Emergency Plan, Manure Spill, New			4	
Emergency Plan, Pesticide New			8	
Emergency Plan, Pesticide Revised			2	
Emergency Plan, Spill Control and Counter-measure			1	
Environmentally Sensitive Areas Identified		9,587.5		
Excess Product, Label Rates			1	
Fertilizer, Determination of Rates			1	
Fertilizer, Rate Determination		30		
Impermeable Surface, Fuel			4	
Isolation Distances Met			2	
Livestock Management, Anti-Backflow device installed			2	
Livestock Management, NMP			2	
Livestock Management, Recordkeeping			5	
Livestock Management, Runoff Management			3	
Manure Application, Rate Determination			2	

<b>MAEAP Technical Assistance Summary: FY 2017 Through FY 2019</b>	<b>Units</b>		
<b>Practices Implemented By County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Manure, Application Rates Do Not Exceed Crop N Needs	5		
Manure, Management Records		2	
Manure, Nutrient Content Determination		3	
Nutrient Management Plans, Annual By Field	60		
Nutrient Management Records, Multiple		1	
Nutrients, All Sources Considered		1	
Odor Management Plan		3	
Pasture Soil Tested		1	
Pastures Have Current Soil Tests		3	
Pesticide Spill Kit Availability		2	
Pesticides, Drift Management Plan, New		5	
Property Boundaries Known And Marked		1	
Rinsate, Label Rates		1	
Secondary Containment, Fuel		1	
Secondary Containment, Mix-Load		2	
Secondary Containment, Pesticides		1	
Soil and/or Tissue Testing, Quadrennial	30		
Soil Erosion Controlled	14,197.5		
Soil Testing, Representative Sampling		3	
Soil Testing, Triennial		6	
Soil, Nutrient Records	65		
Soil, pH Maintenance	79		
Sprayer, Cleaning Water Collected		1	
Storage, Appropriate Tanks		1	
Storage, Elevation		1	
Storage, Security		1	
Storage, Signage		4	
Storage, Spill Kit		4	
Storage, Spill Protection		2	
Waste, Floor Drains		4	
Waste, Isolation Distances Met		1	
Well Tests, Every Three Years		14	
Well Tests, Health Standards		14	
Wetlands, Water Bodies Protected From Pollution	2.5		
<b>Hillsdale</b>	<b>29,805.9</b>	<b>149</b>	<b>5,000</b>
Adequate Land Base for Nutrients		4	
Dead Animals Handled According to BODA		2	
Dead Animals, Proper Composting Site Selection		1	
Drift Management Plan, New		3	
Drift Management Plan, Revised		1	
Emergency Plan, Manure Spill, New		4	
Emergency Plan, Pesticide New		1	
Environmentally Sensitive Areas Identified	20,170.4		
Impermeable Surface, Fuel		2	
Irrigation, Anti-backflow Devices Installed		1	
Irrigation, Rain Gauges in Fields		4	
Irrigation, Record Keeping		7	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Livestock Management, NMP			1	
Livestock Management, Runoff Management			1	
Livestock Management, Siting			1	
Manure Application, Rate Determination			1	
Manure Storage, Designed Use			1	
Manure Storage, Isolation Distances Met			1	
Manure Storage, Liquid Storage Freeboard Maintained			2	
Manure, Nutrient Content Determination			9	
Odor Management Plan			6	
Pasture Management, Protecting Surface Water			1	
Pasture Soil Tested			64	
Pastures Have Current Soil Tests			1	
Pesticide Drift Management Plan, Revised			1	
Pesticide Spill Kit Availability			3	
Pesticides, Drift Management Plan, New			2	
Pesticides, Drift Management Plan, Revised			1	
RTF Site Selection and Odor-Control GAAMPS Met			3	
Soil Erosion Controlled		5,678.5		
Soil Testing, Representative Sampling		482		
Soil Testing, Triennial		3,475	1	
Storage, Elevation			1	
Storage, Fertilizer Liquid				5,000
Storage, Signage			2	
Storage, Spill Kit			4	
Well Repaired to Standards			1	
Well Tests, Every Three Years			10	
Well Tests, Health Standards			1	
<b>Houghton</b>		<b>3.7</b>	<b>24</b>	
Cover Crop Use		0.4		
Environmentally Sensitive Areas Identified		1.8		
IPM Consultant, University, Other Reliable Source			4	
IPM Scouting Weekly			3	
Irrigation, Record Keeping			3	
Irrigation, Scheduling			4	
Nutrients, All Sources Considered			4	
Pesticides, Application Recordkeeping			2	
Soil Erosion Controlled		0.8		
Soil Testing, Triennial			4	
Soil, Nutrient Records		0.8		
<b>Huron</b>		<b>17,090.5</b>	<b>234</b>	
Adequate Land Base for Nutrients			1	
Anti-Backflow Device Installed			103	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			1	
Dead Animals: Composting Process Properly Managed			2	
Drift Management Plan, New			6	
Emergency Plan, Fertilizer New			4	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Emergency Plan, Manure Spill, New			2	
Emergency Plan, New, Silage			2	
Emergency Plan, New, Tire Fire			1	
Emergency Plan, Pesticide New			6	
Emergency Plan, Revised, Tire Fire			1	
Environmentally Sensitive Areas Identified		1,200		
Equipment, Parking and Storage			6	
Fertilizer, Determination of Rates			4	
Hydrant MDEQ Approved			1	
Impermeable Surface, Fuel			1	
Irrigation, Record Keeping			1	
Isolation Distances Met			1	
Livestock Management, Recordkeeping			2	
Livestock Management, Runoff Management			1	
Manure Application, MARI Completed			3	
Manure Application, Rate Determination			1	
Manure Application, Runoff Prevention		160		
Manure Storage, Liquid Storage Freeboard Maintained			1	
Manure, Liquid Loss Through Tile Lines		160		
Manure, Management Records			4	
Manure, Winter Application Procedure		705		
Nutrient Management Plans, Annual By Field		160		
Odor Management Plan			2	
Pesticide Spill Kit Availability			7	
Pesticides, Application Recordkeeping			5	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			13	
Pesticides, Rinsate Disposal			1	
Precipitation Leading to Contaminated Run-Off			4	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Soil Erosion Controlled		13,507.5		
Soil Testing, Triennial		72	1	
Soil, Nutrient Records		1,126		
Storage, Appropriate Tanks			1	
Storage, Signage			7	
Storage, Spill Kit			5	
Veterinary Product and Waste Disposal			1	
Waste, Floor Drains			3	
Waste, Isolation Distances Met			1	
Water, Protected From Pesticide Contamination			1	
Well Tests, Every Three Years			12	
Well Tests, Health Standards			12	
<b>Ingham</b>		<b>5,871.3</b>	<b>174</b>	<b>384,000</b>
Adequate Land Base for Nutrients			2	
Anti-Backflow Device Installed			1	
Backflow Prevention on Livestock Watering Systems			1	
Containers, Properly Rinsed			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Dead Animals Handled According to BODA			2	
Drift Management Plan, New			5	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			3	
Emergency Plan, Pesticide Revised			2	
Environmentally Sensitive Areas Identified		4,744		
Farm Emergency Plan Developed and Followed, New			1	
Fertilizer Records Maintained			2	
Fertilizer Stock Tank Leak Protection			1	
Fertilizer, Determination of Rates			2	
Impermeable Surface, Fuel			4	
Irrigation Records Maintained			1	
Livestock Management, Recordkeeping			2	
Livestock Management, Siting			1	
Livestock Yard, Runoff Management			1	
Manure Application, MARI Completed			1	
Manure Application, Rate Determination			2	
Manure Application, Rates Do Not Exceed Crop N Needs			1	
Manure Applications, Weather Forecasts Monitored			1	
Manure Storage, Capacity				384,000
Manure Storage, Clean Water Diverted			1	
Manure Storage, Isolation Distances Met			1	
Manure Storage, Liquid Storage Freeboard Maintained			1	
Manure Storage, Temporary Duration			2	
Manure Storage, Temporary Location			1	
Manure, Isolation Distances Met			1	
Manure, Management Records			4	
Manure, Nutrient Content Determination			9	
Nutrient Management Plans, Annual By Field		4		
Nutrient Management Records, Multiple			2	
Nutrients, All Sources Considered			1	
Odor Management Plan			8	
Pasture Soil Tested			8	
Pastures Have Current Soil Tests			10	
Pesticide Application, Recordkeeping			2	
Pesticide Drift Management Plan, New			1	
Pesticide Rinsate, Proper Handling			1	
Pesticide Spill Kit Availability			3	
Pesticides, Application Recordkeeping			3	
Pesticides, Drift Management Plan, New			3	
Pesticides, Drift Management Plan, Revised			1	
Pesticides, Emergency Plan and Contacts			2	
Pesticides, Excess Spray Mixture Use			1	
Pesticides, Rinsate Disposal			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Precipitation Leading to Contaminated Run-Off			1	
Secondary Containment, Mix-Load			1	
Secondary Containment, Pesticides			2	
Soil Erosion Controlled		1,123		
Soil Testing, Representative Sampling			1	
Soil Testing, Triennial			13	
Soil, Nutrient Records		0.3		
Special Sites Protected			1	
Storage, Labeled Containers			1	
Storage, Security			1	
Storage, Signage			9	
Storage, Spill Kit			7	
Surface Drains Present Around Farmstead			1	
Veterinary Product and Waste Disposal			4	
Visual Sensitivity Of The Site Has Been Assessed			1	
Waste, Recycling and Disposal			5	
Well Decommissioned			1	
Well Inspected			2	
Well Tests, Every Three Years			10	
Well Tests, Health Standards			3	
<b>Ionia</b>		<b>3,098</b>	<b>87</b>	
Adequate Land Base for Nutrients			2	
Containers, Properly Rinsed			2	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			2	
Environmentally Sensitive Areas Identified		2,302		
Excess Product, Label Rates			1	
Fertilizer, Determination of Rates			1	
Fill Opening Separate From Vent Opening			1	
Impermeable Surface, Fuel			5	
Irrigation, Record Keeping			2	
Isolation Distances Met			7	
Livestock Management, Recordkeeping			3	
Livestock Management, Runoff Management			1	
Livestock Yard, Drainage Diversion			1	
Livestock Yard, Runoff Management			1	
Required Regulatory Reporting and Recordkeeping Compliance			1	
Manure Application, MARI Completed			1	
Manure Application, Rate Determination			3	
Manure, Management Records			1	
Manure, Nutrient Content Determination			3	
Manure, Winter Application Procedure		1		
Nutrient Management Plans, Annual By Field		1		
Odor Management Plan			1	
P Fertilizer, Dilute Wastewater Managed Appropriately			1	



MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
P Fertilizer, Rate Determination			1	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			1	
Pesticide Spill Kit Availability			3	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			2	
Pesticides, Emergency Plan and Contacts			1	
Pesticides, Equipment Calibration			1	
Pesticides, Mixing and Loading In Field			1	
Pesticides, Rinsate Disposal			1	
Rinsate, Label Rates			1	
Secondary Containment, Fuel			1	
Secondary Containment, Pesticides			1	
Soil Erosion Controlled		793		
Soil Testing, Triennial			1	
Soil, Nutrient Records		1		
Storage, Appropriate Tanks			2	
Storage, Buildings Setback			1	
Storage, Security			3	
Storage, Signage			4	
Storage, Spill Kit			2	
Waste, Floor Drains			1	
Well Repaired to Standards			2	
Well Tests, Every Three Years			6	
Well Tests, Health Standards			6	
<b>Iosco</b>		<b>1,699</b>	<b>52</b>	
Adequate Land Base for Nutrients			1	
Anti-Backflow Device Installed			2	
Chemigation, Anti-backflow Device			1	
Drift Management Plan, New			3	
Emergency Plan, Pesticide New			3	
Environmentally Sensitive Areas Identified		77		
Farm Emergency Plan Developed and Followed, New			1	
Fertilizer Records Maintained			2	
Fertilizer, Determination of Rates			1	
Impermeable Surface, Fuel			1	
Irrigation Records Maintained			1	
Irrigation, Record Keeping			1	
Isolation Distances Met			2	
Large Quantity Water Withdrawal Registered			1	
Required Regulatory Reporting and Recordkeeping Compliance			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			1	
Odor Management Plan			2	
Pesticide Drift Management Plan, New			1	
Pesticide Spill Kit Availability			1	
Pesticides, Application Recordkeeping			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			3	
Secondary Containment, Pesticides			1	
Soil and/or Tissue Testing, Quadrennial		1		
Soil Erosion Controlled		1,621		
Soil Testing, Representative Sampling			1	
Soil Testing, Triennial			6	
Storage, Signage			4	
Storage, Spill Kit			2	
Waste, Recycling and Disposal			1	
Well Tests, Every Three Years			4	
Well Tests, Health Standards			1	
<b>Isabella</b>		<b>850</b>	<b>11</b>	
Dead Animals Handled According to BODA			1	
Emergency Plan, Manure Spill, Revised			1	
Environmentally Sensitive Areas Identified		80		
Impermeable Surface, Fuel			1	
Irrigation, Record Keeping			1	
Manure Application, Rate Determination			1	
Portion of Animal Feed Produced On Farm			1	
Septic, Pumping			1	
Soil Testing, Triennial			1	
Soil, Nutrient Records		770		
Veterinary Product and Waste Disposal			2	
Well Tests, Every Three Years			1	
<b>Jackson</b>		<b>7,438</b>	<b>149</b>	
Anti-Backflow Device Installed			5	
Dead Animals, Composting Meets BODA Requirements			1	
Drift Management Plan, New			3	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Pesticide New			1	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		3,309		
Fertilizer, Determination of Rates			1	
Irrigation, Amount Determined Accurately			5	
Irrigation, Evaluation for Uniformity			11	
Irrigation, Rain Gauges in Fields			10	
Irrigation, Record Keeping			1	
Isolation Distances Met			1	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			3	
Manure Application, Rate Determination			4	
Manure Application, Rates Do Not Exceed Crop P Needs			1	
Manure, Application Rates Do Not Exceed Crop N Needs		820		
Manure, Application Rates Do Not Exceed Crop P Needs		11		
Manure, Management Records			5	
Manure, Nutrient Content Determination			3	

<b>MAEAP Technical Assistance Summary: FY 2017 Through FY 2019</b>	<b>Units</b>		
<b>Practices Implemented By County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Manure, Winter Application Procedure	45		
Nutrient Management Plans, Annual By Field	119		
Odor Management Plan		8	
P Fertilizer, Rate Determination		1	
Pasture Soil Tested		20	
Pastures Have Current Soil Tests		5	
Pesticide Drift Management Plan, New		1	
Pesticide Spill Kit Availability		4	
Pesticides, Application Recordkeeping		2	
Pesticides, Container Handling		1	
Pesticides, Drift Management Plan, New		2	
Pesticides, Mixing and Loading In Field		1	
RTF Site Selection and Odor-Control GAAMPS Met		1	
Secondary Containment, Mix-Load		1	
Soil Erosion Controlled	3,000		
Soil Testing, Representative Sampling		1	
Soil Testing, Triennial		32	
Soil, Nutrient Records	134		
Storage, Spill Kit		1	
Water Use Reported		1	
Well Tests, Every Three Years		5	
Well Tests, Health Standards		3	
<b>Kalamazoo</b>	<b>4,263.5</b>	<b>606</b>	<b>100</b>
Adequate Land Base for Nutrients		7	
Anti-Backflow Device Installed		7	
Chemigation, Anti-backflow Device		1	
Chemigation, Pesticide/Fertilizer Setback		1	
Cover Crop Use	400		
Crop Yields, Realistic Goals		1	
Dead Animals Handled According to BODA		14	
Dead Animals, Composting Isolation Distance		1	
Dead Animals, Composting Process Follows BODA		2	
Dead Animals, Composting Meets BODA Requirements		2	
Dead Animals: Composting Process Properly Managed		1	
Drift Management Plan, New		20	
Drift Management Plan, Revised		10	
Emergency Plan, Fertilizer New		10	
Emergency Plan, Fertilizer Revised		10	
Emergency Plan, Manure Spill, New		10	
Emergency Plan, Manure Spill, Revised		2	
Emergency Plan, New, Silage		2	
Emergency Plan, Pesticide New		11	
Emergency Plan, Pesticide Revised		12	
Environmentally Sensitive Areas Identified	824		
Equipment, Parking and Storage		1	
Erosion Controlled, Site	2		
Fertilizer Records Maintained		2	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Fertilizer Stock Tank Leak Protection			5	
Fertilizer, Determination of Rates			3	
Impermeable Surface, Fuel			8	
Irrigation Fuel Tank Meets Setback Requirements			2	
Irrigation Records Maintained			9	
Irrigation, Amount Determined Accurately			3	
Irrigation, Evaluation for Uniformity			1	
Irrigation, Rain Gauges in Fields			5	
Irrigation, Record Keeping			4	
Irrigation, Scheduling			1	
Isolation Distances Met			34	
Livestock Management, Anti-Backflow device installed			1	
Livestock Management, NMP			6	
Livestock Management, Recordkeeping			12	
Livestock Management, Runoff Management			1	
Livestock Management, Siting			2	
Livestock Yard, Drainage Diversion			3	
Livestock Yard, Manure Scrape and Haul			1	
Livestock Yard, Runoff Management			4	
Required Regulatory Reporting and Recordkeeping Compliance			3	
Manure Application, MARI Completed			2	
Manure Application, Odor-Reduction Practices Used			4	
Manure Application, Rate Determination			4	
Manure Application, Rates Do Not Exceed Crop N Needs			3	
Manure Application, Rates Do Not Exceed Crop P Needs			4	
Manure Application, Runoff Prevention		161		
Manure Applications, Weather Forecasts Monitored			2	
Manure Storage, Bedded Design and Construction			1	
Manure Storage, Design and Construction			1	
Manure Storage, Designed Use			1	
Manure Storage, Farmstead Stacked, Odor and Pest Control			2	
Manure Storage, Field Stacked Duration			3	
Manure Storage, Isolation Distances Met			1	
Manure Storage, Runoff Management			5	
Manure Storage, Temporary Duration			6	
Manure Storage, Temporary Location			5	
Manure Storage, Temporary Stacked, Odor and Pest Control			3	
Manure Storage, Temporary Stacked, Surface Water Setback			2	
Manure, Application Rates Do Not Exceed Crop N Needs		253		
Manure, Application Rates Do Not Exceed Crop P Needs		314		
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Manure, Isolation Distances Met			1	
Manure, Management Records			10	
Manure, Nutrient Content Determination			6	
Manure, Odor Management			2	
Manure, Winter Application Procedure		269.5		
N Fertilizer, Split/Multiple Applications		252		

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Nutrient Management Plans, Annual By Field		254		
Nutrient Management Records, Multiple			1	
Nutrients, All Sources Considered			5	
Odor Management Plan			22	
Other Environmental Risks Resolved			3	
P Fertilizer, Rate Determination			3	
Pasture Management For Vegetation and Runoff			1	
Pasture Management, Manure Near Water Tanks/Feeders			2	
Pasture Management, Protecting Surface Water			1	
Pasture Soil Tested			7	
Pastures Have Current Soil Tests			5	
Pesticide Application, Recordkeeping			1	
Pesticide Drift Management Plan, New			1	
Pesticide Inventory Control			3	
Pesticide Labels Are Followed			11	
Pesticide Spill Kit Availability			13	
Pesticides Used And Stored According To EPA, SSWQPs			1	
Pesticides, Application Recordkeeping			14	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			7	
Pesticides, Drift Management Plan, Revised			3	
Pesticides, Emergency Plan and Contacts			10	
Pesticides, Label Compliance			2	
Pesticides, Mixing and Loading In Field			3	
Precipitation Leading to Contaminated Run-Off			5	
Rinsate, Label Rates			1	
Safety Data Sheets Available On-Site			1	
Secondary Containment, Fertilizer			10	
Secondary Containment, Fuel			3	
Secondary Containment, Mix-Load			3	
Secondary Containment, Pesticides			8	
Silage, Leachate Collection/Treatment				100
Silage, Leachate Management			2	
Silage, Leachate Ponding			2	
Soil and/or Tissue Testing, Quadrennial		50		
Soil Erosion Controlled		15		
Soil Testing, Representative Sampling			2	
Soil Testing, Triennial			19	
Soil, Nutrient Records		1,464		
Soil, pH Maintenance		5		
Storage, Application Equipment			1	
Storage, Buildings Setback			6	
Storage, Decommissioned			1	
Storage, Dedicated			1	
Storage, Designed Use			2	
Storage, Elevation			1	
Storage, Security			3	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Storage, Signage			14	
Storage, Spill Kit			21	
Storage, Spill Protection			2	
Trout Streams, Natural, Wild, and Scenic Rivers RMZs Established			1	
Veterinary Product and Waste Disposal			6	
Waste, Ash Disposal			1	
Waste, Floor Drains			2	
Waste, Isolation Distances Met			3	
Waste, Recycling and Disposal			9	
Water Use Reported			1	
Water, Protected From Pesticide Contamination			4	
Well Construction			3	
Well Decommissioned			2	
Well Inspected			3	
Well Repaired to Standards			2	
Well Tests, Every Three Years			22	
Well Tests, Health Standards			14	
Worker Protection Standards Met			1	
<b>Kalkaska</b>		<b>1</b>	<b>24</b>	
Adequate Land Base for Nutrients			1	
Dead Animals Handled According to BODA			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			2	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			2	
Livestock Management, Siting			1	
Manure, Nutrient Content Determination			3	
Nutrient Management Plans, Annual By Field		1		
Odor Management Plan			2	
Storage, Signage			2	
Storage, Spill Kit			2	
Veterinary Product and Waste Disposal			4	
Well Tests, Every Three Years			2	
<b>Kent</b>		<b>1,135</b>	<b>118</b>	
Dead Animals Handled According to BODA			3	
Dead Animals, Composting Meets BODA Requirements			2	
Drift Management Plan, New			6	
Emergency Plan, Fertilizer New			5	
Emergency Plan, Manure Spill, New			4	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			6	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		1,083		
Farm Emergency Plan Developed and Followed, New			3	
Irrigation Records Maintained			2	
Irrigation, Evaluation for Uniformity			1	
Irrigation, Rain Gauges in Fields			5	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Irrigation, Record Keeping			3	
Irrigation, System Evaluation			1	
Isolation Distances Met			2	
Livestock Management, Anti-Backflow device installed			2	
Livestock Management, Recordkeeping			3	
Manure, Nutrient Content Determination			1	
Nutrient Management Records, Multiple			1	
Odor Management Plan			3	
Pastures Have Current Soil Tests			3	
Pesticide Application, Recordkeeping			2	
Pesticide Drift Management Plan, New			6	
Pesticide Spill Kit Availability			12	
Pesticides, Application Recordkeeping			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			2	
Pesticides, Equipment Calibration			1	
Secondary Containment, Fertilizer			1	
Secondary Containment, Pesticides			1	
Soil and/or Tissue Testing, Quadrennial		46		
Soil Erosion Controlled		1		
Soil, Nutrient Records		5		
Storage, Signage			9	
Storage, Spill Kit			11	
Well Repaired to Standards			1	
Well Tests, Every Three Years			10	
Well Tests, Health Standards			2	
<b>Lake</b>			<b>14</b>	
All Habitat Types Identified and Mapped In LMP			1	
Drift Management Plan, New			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Pesticide New			2	
Livestock Management, Recordkeeping			1	
Odor Management Plan			1	
Pastures Have Current Soil Tests			2	
Well Decommissioned			1	
Well Tests, Every Three Years			4	
<b>Lapeer</b>		<b>7,361</b>	<b>252</b>	<b>50,000</b>
Adequate Land Base for Nutrients			1	
Anti-Backflow Device Installed			2	
Crop Yields, Realistic Goals			4	
Drift Management Plan, New			10	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			13	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			6	
Emergency Plan, Pesticide Revised			2	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Environmentally Sensitive Areas Identified		476		
Erosion Controlled, Site		1		
Excess Product, Label Rates			2	
Fertilizer, Determination of Rates			4	
Impermeable Surface, Fuel			8	
Irrigation Fuel Tank Meets Setback Requirements			2	
Irrigation, Rain Gauges in Fields			3	
Irrigation, Record Keeping			1	
Isolation Distances Met			4	
Land Management Plan, New			2	
Livestock Management, NMP			2	
Livestock Management, Recordkeeping			4	
Livestock Yard, Drainage Diversion			4	
Manure Application, MARI Completed			1	
Manure Application, Rate Determination			6	
Manure Application, Rates Do Not Exceed Crop N Needs			2	
Manure Application, Rates Do Not Exceed Crop P Needs			2	
Manure Applications, Weather Forecasts Monitored			1	
Manure Storage, Capacity				50,000
Manure Storage, Clean Water Diverted			2	
Manure Storage, Liquid Storage Freeboard Maintained			2	
Manure Storage, Temporary Location			6	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Application Rates Do Not Exceed Crop N Needs		1		
Manure, Application Rates Do Not Exceed Crop P Needs		12		
Manure, Management Records			4	
Manure, Nutrient Content Determination			9	
Manure, Winter Application Procedure		201		
Nutrient Management Plans, Annual By Field		3,940.5		
Odor Management Plan			10	
P Fertilizer, Rate Determination			5	
Pasture Management, Protecting Surface Water			1	
Pasture, Protection of Stream Banks and Surface Water			1	
Pasture Soil Tested			5	
Pastures Have Current Soil Tests			8	
Pesticide Spill Kit Availability			5	
Pesticides, Application Recordkeeping			4	
Pesticides, Container Handling			2	
Pesticides, Drift Management Plan, New			11	
Pesticides, Emergency Plan and Contacts			4	
Pesticides, Rinsate Disposal			1	
Precipitation Leading to Contaminated Run-Off			2	
Rinsate, Label Rates			2	
Secondary Containment, Mix-Load			2	
Secondary Containment, Pesticides			1	
Soil Erosion Controlled		1,100		
Soil Testing, Triennial			19	



MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Soil, Nutrient Records		1,629.5		
Storage, Appropriate Tanks			1	
Storage, Buildings Setback			1	
Storage, Decommissioned			4	
Storage, FLCL Rules			1	
Storage, Monitored for Leaks			1	
Storage, Security			1	
Storage, Signage			5	
Storage, Spill Kit			7	
Veterinary Product and Waste Disposal			1	
Waste, Ash Disposal			1	
Waste, Recycling and Disposal			2	
Well Repaired to Standards			2	
Well Tests, Every Three Years			14	
Well Tests, Health Standards			15	
<b>Leelanau</b>		<b>99</b>	<b>149</b>	
Anti-Backflow Device Installed			1	
Drift Management Plan, New			7	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Pesticide New			10	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		53		
Farm Emergency Plan Developed and Followed, New			1	
Farm Emergency Plan Developed and Followed, Revised			1	
Fertilizer, Rate Determination		20		
Impermeable Surface, Fuel			4	
Irrigation, Rain Gauges in Fields			5	
Irrigation, Record Keeping			4	
Irrigation, Scheduling			1	
Isolation Distances Met			10	
Large Quantity Water Withdrawal Registered			1	
Livestock Management, Recordkeeping			2	
Livestock Management, Siting			1	
Required Regulatory Reporting and Recordkeeping Compliance			6	
Manure, Application Rates Do Not Exceed Crop P Needs		1		
Manure, Management Records			3	
Nutrient Management Plans, Annual By Field		1		
Nutrient Management Records, Multiple			22	
Other Environmental Risks Resolved			1	
Pastures Have Current Soil Tests			1	
Pesticide Application, Recordkeeping			1	
Pesticide Containers Are Recyclable or Returnable			1	
Pesticide Drift Management Plan, New			2	
Pesticide Handling, Field Mixing and Loading			1	
Pesticide Spill Kit Availability			5	
Secondary Containment, Fuel			1	
Secondary Containment, Mix-Load			4	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Secondary Containment, Pesticides			4	
Soil and/or Tissue Testing, Quadrennial		22		
Soil Testing, Triennial			1	
Soil, Nutrient Records		2		
Storage, Decommissioned			1	
Storage, Security			3	
Storage, Shelving			1	
Storage, Signage			12	
Storage, Spill Kit			13	
Veterinary Product and Waste Disposal			1	
Waste, Floor Drains			2	
Waste, Isolation Distances Met			3	
Waste, Recycling and Disposal			3	
Well Decommissioned			2	
Well Tests, Every Three Years			3	
Well Tests, Health Standards			2	
<b>Lenawee</b>		<b>65,288.0</b>	<b>1,024</b>	<b>20,000</b>
Adequate Land Base for Nutrients			2	
No Adverse Impact To Endangered/Threatened Species			10	
All Habitat Types Identified and Mapped In LMP			16	
Other Habitats Enrolled In Long-Term Conservation Programs			1	
Altered Wetlands Assessed For Restoration			3	
Anti-Backflow Device Installed			9	
Aquatic Resource Options Identified Within Plan			1	
Backflow Prevention on Livestock Watering Systems			1	
Beneficial Insect Management			1	
Rare And Sensitive Species And Habitats Protected			8	
Bogs And Fens Identified And RMZs Established			4	
Certified Seed and Plant Material Used			1	
Conservation Practices Routinely Evaluated			5	
Containers, Properly Rinsed			1	
Corn Rotated Annually		44	3	
Cover Crop Use		174		
Crop Rotations, Three Years or Longer		2,500		
Crop Yields, Realistic Goals		1,326	8	
Dead Animals Handled According to BODA			4	
Decontamination, Supplies Available			1	
Delivery, Just In Time			5	
Ditches and Tile Drains Maintained			1	
Drift Management Plan, New			7	
Drift Management Plan, Revised			1	
Emergency Plan, Employee Training			1	
Emergency Plan, Fertilizer New			4	
Emergency Plan, Fertilizer Revised			3	
Emergency Plan, Manure Spill, New			5	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			3	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Emergency Plan, Pesticide Revised			2	
Emergency Plan, Spill Control and Counter-measure			3	
Environmentally Sensitive Areas Identified		14,340.7		
Equipment, Parking and Storage			5	
Equipment, Properly Cleaned and Rinsed			16	
Erosion Controlled, Site		2,175		
Excess Product, Label Rates			6	
Fertilizer Records Maintained			2	
Fertilizer Solutions Properly Managed			1	
Fertilizer Stock Tank Leak Protection			1	
Fertilizer, Determination of Rates			8	
Fertilizer, Rate Determination		6.8		
Fertilizers, Controlled Release/Split Applications			1	
Fill Opening Separate From Vent Opening			8	
FMP Addresses All Habitat Types			1	
FMP Includes Landowner Objectives			1	
Forest Roads Established And Maintained To Avoid Erosion			4	
Forestry Management Plan, New			2	
Handling, Closed System			5	
Herbicide Setback Maintenance		44	2	
Impermeable Surface, Fuel			13	
Invasive Species Identified And Managed			6	
IPM Consultant, University, Other Reliable Source			3	
IPM Scouting Weekly		400		
IPM Used To Control Pests			3	
Irrigation Discharge Managed			2	
Irrigation Records Maintained			1	
Irrigation Type			1	
Irrigation Water Alkalinity Monitoring			1	
Irrigation Water pH Managed For Nutrients			1	
Irrigation, Amount Determined Accurately			1	
Irrigation, Evaluation for Uniformity			1	
Irrigation, Excessive Applications Avoided			2	
Irrigation, Rain Gauges in Fields			5	
Irrigation, Record Keeping			4	
Irrigation, Runoff and Ponding Minimized			2	
Irrigation, Scheduling			2	
Isolation Distances Met			63	
Land Management Plan, New			15	
Land Units Evaluated For Stocking Levels of Desired Species			1	
Landowner Complies With Laws And Ordinances			11	
Landowner Enrolled in Programs Appropriate To Objectives			2	
Minimal Impact To Cultural Sites			2	
Leaching/Runoff Toxic Potential Consideration			1	
Livestock Management, Anti-Backflow device installed			5	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			6	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Livestock Yard, Drainage Diversion			3	
Livestock Yard, Floor			4	
Livestock Yard, Manure Scrape and Haul			3	
Livestock Yard, Runoff Management			5	
Livestock Yard, Surface Water Setback			2	
LMP Allows for Active and Adaptive Management			10	
LMP Identifies All Resource Concerns			4	
LMP Includes Details of Desired Future Conditions			3	
LMP Includes Landowner Objectives			6	
LMP Prepared By Professional Natural Resource Manager			4	
Management Activities Conform to Applicable Forest Land BMPs			7	
Management Activities Conform To GAFMPs			6	
Manure Application, Compatible With Soils			1	
Required Regulatory Reporting and Recordkeeping Compliance			2	
Manure Application, Ponding, Erosion, and Runoff Avoided			2	
Manure Application, Procedure		100		
Manure Application, Rate Determination		870	1	
Manure Application, Rates Do Not Exceed Crop N Needs		290		
Manure Application, Rates Do Not Exceed Crop P Needs		580		
Manure Application, Runoff Prevention		100		
Manure Applications, Weather Forecasts Monitored		290		
Manure Storage, Clean Water Diverted			3	
Manure Storage, Design and Construction			2	
Manure Storage, Designed Use			1	
Manure Storage, Field Stacked Duration			1	
Manure Storage, Isolation Distances Met			4	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Duration			3	
Manure Storage, Temporary Location			3	
Manure Storage, Temporary Stacked, Odor and Pest Control			1	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Application Rates Do Not Exceed Crop N Needs		100		
Manure, Application Rates Do Not Exceed Crop P Needs		100		
Manure, Isolation Distances Met			3	
Manure, Management Records			6	
Manure, Nutrient Content Determination		290	4	
Manure, Odor Management			1	
Manure, Winter Application Procedure		1,953		
Mix-Load, Filling Monitored			2	
Mix-Load, Measuring Devices			1	
N Applications Do Not Exceed 25 lbs In Fall		44		
N Fertilizer, Split/Multiple Applications		120		
No N Applications For Soybeans or Alfalfa		44		
No N Applications in Fall		44	3	
Nutrient Management Plans, Annual		0.1		
Nutrient Management Plans, Annual By Field		2,702		
Nutrient Management Records, Multiple			2	

<b>MAEAP Technical Assistance Summary: FY 2017 Through FY 2019</b>	<b>Units</b>		
<b>Practices Implemented By County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Nutrients, All Sources Considered	1,200	7	
Odor Management Plan		28	
Other Environmental Risks Resolved		39	
Overhead Fertigation Is Avoided		1	
Owner Monitors Harvests to Ensure Conformance With LMP		4	
P Fertilizer, Application to Frozen or Snow Covered Fields	120		
P Fertilizer, Placement	1,820		
P Fertilizer, Rate Determination		3	
Pasture Management, Manure Near Water Tanks/Feeders		4	
Pasture Management, Minimal Imported Feed		5	
Pasture Management, Protecting Surface Water		1	
Pasture Soil Tested		6	
Pastures Have Current Soil Tests		1	
Pest Management, Reviews Previous Years Results		1	
Pest Resistant and Tolerant Varieties Planted		1	
Pesticide Application, Recordkeeping		1	
Pesticide Applications, Soil Characteristics Considered		1	
Pesticide Drift Management Plan, New		3	
Pesticide Spill Kit Availability		11	
Pesticides Used And Stored According To EPA, SSWQPs		4	
Pesticides, Application Recordkeeping		1	
Pesticides, Container Handling		2	
Pesticides, Drift Management Plan, New		9	
Pesticides, Emergency Plan and Contacts		1	
Pesticides, Equipment Calibration		2	
Pesticides, Excess Spray Mixture Use		1	
Pesticides, Label Compliance		2	
Pesticides, Mixing and Loading In Field		1	
Pesticides, Resistance Prevention		2	
Pesticides, Rinsate Disposal		1	
Pesticides, Toxicity Considered for Beneficial Insects		1	
pH and EC Meters Used		1	
Planting Dates Adjusted to Avoid Pest Damage		1	
Poly Fertilizer Tanks Used Appropriately		2	
Portion of Animal Feed Produced On Farm		1	
Timber Management And Habitat Conflicts Addressed		2	
Precipitation Leading to Contaminated Run-Off		4	
Prescribed Burnings Follow Approved FMP And Conform To SSWQPs		2	
Property Boundaries Known And Marked		1	
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats		1	
Non-Forested/Non-Wetland Habitats Being Restored		1	
Rinsate, Label Rates		1	
Roof Runoff System In Place		1	
RTF Site Selection and Odor-Control GAAMPS Met		1	
Runoff/Sedimentation Controlled		5	
RUP Compliance		1	
Secondary Containment, Fertilizer		6	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Secondary Containment, Fuel			9	
Secondary Containment, Leaks and Precipitation			6	
Secondary Containment, Mix-Load			8	
Secondary Containment, Operational Pad				10,000
Secondary Containment, Pesticides			5	
Site Monitored Annually For Changes			3	
Slow-Release Fertilizer Usage			1	
Soil and/or Tissue Testing, Quadrennial		6.6		
Soil Erosion Controlled		22,040.7		
Soil Quality Indicators Evaluated			1	
Soil Testing, Representative Sampling		1,496	11	
Soil Testing, Triennial		2,002	31	
Soil, Characteristics Considered		400	1	
Soil, Nutrient Records		5,759		
Soil, pH Maintenance		1,804		
Special Sites Protected			7	
Sprayer, Cleaning Water Collected			1	
Storage, Application Equipment			3	
Storage, Appropriate Tanks			23	
Storage, Buildings Setback			8	
Storage, Capacity			3	
Storage, Decommissioned			1	
Storage, Dedicated			2	
Storage, Designed Use			1	
Storage, Elevation			9	
Storage, Fertilizer Liquid				10,000
Storage, Isolated From Other Products			14	
Storage, Labeled Containers			6	
Storage, Monitored for Leaks			16	
Storage, Portable Fueling			6	
Storage, Regular Inspection			5	
Storage, Security			37	
Storage, Shelving			2	
Storage, Signage			20	
Storage, Spill Kit			11	
Storage, Spill Protection			8	
Storage, Valves and Hoses			22	
Sustainable Soil And Water Quality Practices Followed			12	
Timber Sale Contract Prepared By Professional Forester			1	
Vegetative Buffer Strips		2		
Veterinary Product and Waste Disposal			5	
Waste, Ash Disposal			1	
Waste, Farm Dump			4	
Waste, Floor Drains			3	
Waste, Isolation Distances Met			2	
Waste, Recycling and Disposal			25	
Water Bodies Identified And Riparian Management Zones Established			8	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Water, Protected From Pesticide Contamination			1	
Weather Stations/Models Used, On-Farm			1	
Well Construction			2	
Well Decommissioned			3	
Well Inspected			3	
Well Repaired to Standards			10	
Well Setback, Manure Sources			1	
Well Tests, Every Three Years			21	
Well Tests, Health Standards			17	
Worker Notification			1	
Worker Protection Standards Met			2	
Worker Protection, Central Notification			2	
Worker Protection, Proper Training			5	
<b>Livingston</b>		<b>6,101</b>	<b>38</b>	
Adequate Land Base for Nutrients			1	
Containers, Properly Rinsed			1	
Drift Management Plan, New			3	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		2,036		
Impermeable Surface, Fuel			1	
Manure Application, Rate Determination			2	
Manure Application, Rates Do Not Exceed Crop P Needs			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			1	
Manure, Winter Application Procedure		200		
Nutrient Management Plans, Annual By Field		930		
Nutrients, All Sources Considered			1	
Odor Management Plan			1	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			2	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			3	
Pesticides, Drift Management Plan, Revised			1	
Pesticides, Excess Spray Mixture Use			1	
Rinsate, Label Rates			1	
Soil Erosion Controlled		2,005		
Soil Testing, Triennial			2	
Soil, Nutrient Records		930		
Storage, Security			2	
Veterinary Product and Waste Disposal			5	
Well Tests, Every Three Years			2	
<b>Luce</b>		<b>720</b>	<b>39</b>	
Drift Management Plan, New			2	
Emergency Plan, Fertilizer New			2	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Emergency Plan, Pesticide New			3	
Environmentally Sensitive Areas Identified		718		
Fertilizer, Determination of Rates			1	
Food Safety Program Written and Implemented			2	
Irrigation, Amount Determined Accurately			1	
Irrigation, Evaluation for Uniformity			1	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			1	
Irrigation, Scheduling			1	
Isolation Distances Met			1	
Manure, Applications Managed for Food Safety			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			1	
Odor Management Plan			1	
Pesticide Spill Kit Availability			2	
Pesticides, Application Recordkeeping			2	
Pesticides, Drift Management Plan, New			1	
PPE Training And Maintenance			1	
Soil Testing, Triennial			2	
Soil, Nutrient Records		2		
Storage, Security			1	
Storage, Signage			3	
Storage, Spill Kit			1	
Well Tests, Every Three Years			2	
Well Tests, Health Standards			2	
Worker Protection Standards Met			1	
Worker Protection, Proper Training			1	
<b>Mackinac</b>		<b>1,554</b>	<b>104</b>	
Dead Animals Handled According to BODA			7	
Dead Animals, Composting Meets BODA Requirements			1	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			8	
Emergency Plan, Pesticide New			3	
Environmentally Sensitive Areas Identified		1,224		
Fertilizer, Determination of Rates			2	
Impermeable Surface, Fuel			1	
Invasive Species Identified And Managed			1	
Land Management Plan, New			2	
Landowner Complies With Laws And Ordinances			1	
Minimal Impact To Cultural Sites			1	
Livestock Management, NMP			3	
Livestock Management, Recordkeeping			4	
Livestock Management, Runoff Management			1	
Livestock Yard, Drainage Diversion			1	
Manure Storage, Temporary Duration			1	
Manure, Management Records			4	



MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Manure, Nutrient Content Determination			1	
Odor Management Plan			6	
P Fertilizer, Rate Determination			1	
Pasture Management For Vegetation and Runoff			2	
Pasture Soil Tested			3	
Pastures Have Current Soil Tests			1	
Pesticides Used And Stored According To EPA, SSWQPs			1	
Pesticides, Application Recordkeeping			3	
Pesticides, Drift Management Plan, New			1	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Soil Testing, Triennial		80	6	
Soil, Nutrient Records		250		
Storage, Appropriate Tanks			1	
Storage, Portable Fueling			3	
Storage, Spill Kit			2	
Sustainable Soil And Water Quality Practices Followed			1	
Timber Sale Contract Prepared By Professional Forester			1	
Veterinary Product and Waste Disposal			6	
Waste, Farm Dump			1	
Waste, Floor Drains			1	
Well Decommissioned			2	
Well Repaired to Standards			1	
Well Tests, Every Three Years			9	
Well Tests, Health Standards			7	
<b>Macomb</b>		<b>305</b>	<b>50</b>	
Drift Management Plan, New			4	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Pesticide New			2	
Environmentally Sensitive Areas Identified		52		
Impermeable Surface, Fuel			1	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			1	
Livestock Management, Recordkeeping			1	
Livestock Yard, Drainage Diversion			1	
Manure Application, Procedure		1		
Manure Application, Rate Determination			4	
Manure Application, Runoff Prevention		10		
Manure Storage, Temporary Location			2	
Manure, Application Rates Do Not Exceed Crop N Needs		65		
Manure, Application Rates Do Not Exceed Crop P Needs		65		
Manure, Management Records			3	
Manure, Nutrient Content Determination			2	
Nutrient Management Plans, Annual		100		
Nutrient Management Plans, Annual By Field		11		
Odor Management Plan			1	
P Fertilizer, Rate Determination			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Pasture Soil Tested			1	
Pesticide Spill Kit Availability			1	
Pesticides, Container Handling			2	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			3	
Pesticides, Mixing and Loading In Field			1	
Precipitation Leading to Contaminated Run-Off			1	
Soil Testing, Representative Sampling			1	
Soil Testing, Triennial			3	
Soil, Nutrient Records		1		
Well Decommissioned			1	
Well Tests, Every Three Years			6	
Well Tests, Health Standards			3	
<b>Manistee</b>		<b>760</b>	<b>35</b>	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Pesticide Revised			2	
Erosion Controlled, Site		0		
Forestry Management Plan, New			2	
Impermeable Surface, Fuel			1	
Isolation Distances Met			6	
Livestock Yard, Floor			1	
Livestock Yard, Runoff Management			1	
Management Activities Conform to Applicable Forest Land BMPs			1	
Manure Storage, Design and Construction			1	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Stacked, Odor and Pest Control			1	
Mix-Load, Filling Monitored			1	
Nutrient Management Plans, Annual By Field		760		
Pasture, Protection of Stream Banks and Surface Water			1	
Secondary Containment, Fuel			2	
Secondary Containment, Pesticides			1	
Soil Testing, Representative Sampling			3	
Storage, Appropriate Tanks			1	
Storage, Security			2	
Storage, Signage			3	
Waste, Floor Drains			2	
Well Tests, Health Standards			1	
<b>Marquette</b>		<b>180.1</b>	<b>59</b>	
No Adverse Impact To Endangered/Threatened Species			1	
Forest Product Harvest And Other Activity Records			3	
Cover Crop Use		0.1		
Dead Animals Handled According to BODA			2	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		120		
Forestland Enrolled In Sustainable Forest Certification Program			4	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Impermeable Surface, Fuel			1	
Invasive Species Identified And Managed			1	
IPM Consultant, University, Other Reliable Source			1	
IPM Scouting Weekly			1	
Irrigation, Evaluation for Uniformity			8	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			2	
Land Management Plan, New			1	
Landowner Enrolled in Programs Appropriate To Objectives			3	
Landowner Uses Natural Resource Professionals For Services			2	
Landowner Uses Professionals To Comply With All Laws			3	
Livestock Management, Recordkeeping			2	
LMP Allows for Active and Adaptive Management			1	
Nutrients, All Sources Considered			1	
Owner Monitors Harvests to Ensure Conformance With LMP			2	
Pasture Soil Tested			2	
Pesticides Used And Stored According To EPA, SSWQPs			4	
Pesticides, Application Recordkeeping			2	
Timber Management And Habitat Conflicts Addressed			1	
Soil Testing, Triennial			1	
Soil, Nutrient Records		60.1		
Storage, Monitored for Leaks			1	
Timber Sale Contract Prepared By Professional Forester			2	
Veterinary Product and Waste Disposal			2	
<b>Mason</b>		<b>13,995</b>	<b>184</b>	
Adequate Land Base for Nutrients			1	
Anti-Backflow Device Installed			4	
Conservation Practices Routinely Evaluated			1	
Cover Crop Use		360		
Drift Management Plan, New			1	
Drift Management Plan, Revised			2	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Pesticide New			4	
Emergency Plan, Pesticide Revised			4	
Environmentally Sensitive Areas Identified		5,542		
Equipment, Parking and Storage			1	
Erosion Controlled, Site		443		
Fertilizer, Rate Determination		85		
Fill Opening Separate From Vent Opening			4	
Forestland Enrolled In Sustainable Forest Certification Program			1	
Forestry Management Plan , Revised			1	
Impermeable Surface, Fuel			4	
IPM Consultant, University, Other Reliable Source			1	
Irrigation Fuel Tank Meets Setback Requirements			1	
Irrigation, Evaluation for Uniformity			2	
Irrigation, Rain Gauges in Fields			6	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County	Acres	Each	Gallon	
Irrigation, Record Keeping		1		
Isolation Distances Met		13		
Large Quantity Water Withdrawal Registered		7		
Livestock Management, Recordkeeping		1		
Management Activities Conform to Applicable Forest Land BMPs		1		
Required Regulatory Reporting and Recordkeeping Compliance		1		
Manure Application, Rate Determination		1		
Manure, Application Rates Do Not Exceed Crop N Needs	1,250			
Manure, Management Records		1		
Manure, Nutrient Content Determination		5		
N Fertilizer, Split/Multiple Applications	1,250			
No N Applications in Fall		1		
Nutrient Management Plans, Annual By Field	4,866			
Nutrient Management Records, Multiple		1		
Nutrients, All Sources Considered		2		
Odor Management Plan		1		
Pest Management, Weather Conditions Monitored		2		
Pesticide Drift Management Plan, Revised		1		
Pesticide Spill Kit Availability		2		
Pesticides, Application Recordkeeping		3		
Pesticides, Drift Management Plan, New		2		
Pesticides, Drift Management Plan, Revised		2		
Pesticides, Emergency Plan and Contacts		3		
Pesticides, Equipment Calibration		7		
Pesticides, Excess Spray Mixture Use		1		
Pesticides, Label Compliance		4		
Pesticides, Mixing and Loading In Field		1		
Pests, Fields Scouted Weekly		1		
Secondary Containment, Fuel		7		
Secondary Containment, Mix-Load		1		
Secondary Containment, Pesticides		5		
Soil Testing, Representative Sampling		2		
Soil Testing, Triennial		5		
Soil, Nutrient Records	199			
Storage, Appropriate Tanks		6		
Storage, Buildings Setback		3		
Storage, Monitored for Leaks		2		
Storage, Regular Inspection		2		
Storage, Security		8		
Storage, Signage		11		
Storage, Spill Kit		2		
Storage, Valves and Hoses		2		
Waste, Floor Drains		1		
Waste, Recycling and Disposal		1		
Water Use Reported		7		
Water, Protected From Pesticide Contamination		1		
Well Decommissioned		1		

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Well Inspected			1	
Well Tests, Every Three Years			5	
Well Tests, Health Standards			3	
Worker Notification			1	
Worker Protection Standards Met			2	
<b>Mecosta</b>			<b>32</b>	
102 Comprehensive Nutrient Management Plan - Written			1	
Dead Animals, Composting Meets BODA Requirements			1	
Emergency Plan, Manure Spill, Revised			1	
Impermeable Surface, Fuel			1	
Isolation Distances Met			1	
Land Management Plan, New			6	
Livestock Management, Siting			1	
Manure Storage, Field Stacked Duration			1	
Manure, Management Records			1	
Odor Management Plan			1	
Pesticides, Emergency Plan and Contacts			1	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Soil Testing, Representative Sampling			1	
Soil Testing, Triennial			2	
Storage, Spill Kit			1	
Waste, Floor Drains			1	
Well Tests, Every Three Years			5	
Well Tests, Health Standards			5	
<b>Menominee</b>		<b>16,703</b>	<b>103</b>	<b>145,705</b>
Anti-Backflow Device Installed			2	
Dead Animals Handled According to BODA			3	
Drift Management Plan, New			2	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Manure Spill, Revised			3	
Emergency Plan, New, Silage			1	
Emergency Plan, Pesticide New			2	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		7,585		
Forestry Management Plan , Revised			1	
Impermeable Surface			1	
IPM Scouting Weekly			3	
Irrigation, Amount Determined Accurately			1	
Irrigation, Backflow Prevention			1	
Irrigation, Record Keeping			1	
Livestock Management, Recordkeeping			3	
Manure Application, Odor-Reduction Practices Used			2	
Manure Application, Rate Determination			3	
Manure Applications, Weather Forecasts Monitored			3	
Manure Storage, Liquid Storage Maintained Properly				145,705

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Manure, Management Records			2	
Manure, Nutrient Content Determination			2	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			1	
Pest Management, Practices Current			1	
Pesticide Mixture, Disposal of Excess			1	
Pesticide Spill Kit Availability			5	
Pesticides, Application Recordkeeping			3	
Pesticides, Drift Management Plan, New			2	
Pesticides, Drift Management Plan, Revised			2	
Pesticides, Emergency Plan and Contacts			2	
Pesticides, Excess Spray Mixture Use			2	
Runoff/Sedimentation Controlled			1	
Soil Erosion Controlled		7,543		
Soil Testing, Triennial			4	
Soil, Nutrient Records		1,575		
Storage, Appropriate Tanks			2	
Storage, Regular Inspection			3	
Storage, Spill Kit			4	
Weather Stations/Models Used, On-Farm			3	
Well Inspected			1	
Well Tests, Every Three Years			4	
Well Tests, Health Standards			5	
Worker Notification			14	
<b>Midland</b>		<b>1,088</b>	<b>54</b>	
590 Nutrient Management			1	
595 Integrated Pest Management (IPM)		562		
Adequate Land Base for Nutrients			1	
Dead Animals Handled According to BODA			1	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		525		
Erosion Controlled, Site		1		
Fertilizer, Determination of Rates			1	
Impermeable Surface, Fuel			1	
Livestock Yard, Runoff Management			2	
Manure Application, Rate Determination			2	
Manure Storage, Farmstead Stacked, Odor and Pest Control			1	
Manure Storage, Liquid Storage, Nearby Area Maintained			1	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Duration			2	
Manure Storage, Temporary Location			1	
Manure Storage, Temporary Stacked, Surface Water Setback			2	
Odor Management Plan			1	
Pasture Management For Vegetation and Runoff			1	
Pasture, Protection of Stream Banks and Surface Water			1	
Pasture, Managing Livestock in Winter for Runoff			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Pastures Have Current Soil Tests			25	
Pesticide Spill Kit Availability			2	
Storage, Signage			2	
Waste, Recycling and Disposal			1	
<b>Missaukee</b>		<b>7,053</b>	<b>209</b>	
Cover Crop Use		815		
Dead Animals Handled According to BODA			1	
Dead Animals, Proper Composting Site Selection			1	
Drift Management Plan, New			5	
Drift Management Plan, Revised			4	
Emergency Plan, Fertilizer New			4	
Emergency Plan, Fertilizer Revised			4	
Emergency Plan, Manure Spill, New			9	
Emergency Plan, Manure Spill, Revised			5	
Emergency Plan, New, Silage			7	
Emergency Plan, New, Tire Fire			4	
Emergency Plan, Pesticide New			5	
Emergency Plan, Pesticide Revised			4	
Emergency Plan, Revised, Silage			4	
Emergency Plan, Revised, Tire Fire			5	
Environmentally Sensitive Areas Identified		1,947		
Fumigation Management Plan, Revised			1	
Impermeable Surface, Fuel			2	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			2	
Isolation Distances Met			8	
Livestock Management, NMP			3	
Livestock Management, Recordkeeping			3	
Livestock Management, Siting			4	
Livestock Yard, Drainage Diversion			2	
Livestock Yard, Surface Water Setback			1	
Manure Application, MARI Completed			1	
Manure Storage, Design and Construction			2	
Manure Storage, Runoff Management			2	
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Location			2	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Management Records			4	
Manure, Nutrient Content Determination			9	
Manure, Winter Application Procedure		660		
Milking Center, Wastewater Collection and Storage			1	
Nutrient Management Plans, Annual By Field		847		
Nutrients, All Sources Considered			2	
Odor Management Plan			10	
Pasture Soil Tested			2	
Pastures Have Current Soil Tests			1	
Pesticide Spill Kit Availability			8	

<b>MAEAP Technical Assistance Summary: FY 2017 Through FY 2019</b>	<b>Units</b>		
<b>Practices Implemented By County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Pesticides, Drift Management Plan, New		3	
Pesticides, Drift Management Plan, Revised		5	
Pesticides, Emergency Plan and Contacts		8	
Precipitation Leading to Contaminated Run-Off		2	
RTF Site Selection and Odor-Control GAAMPS Met		2	
Runoff/Sedimentation Controlled	847		
Secondary Containment, Pesticides		1	
Silage, Clean Water Diversion		1	
Soil Erosion Controlled	1,932		
Soil Testing, Triennial		11	
Soil, Nutrient Records	5		
Storage, Appropriate Tanks		2	
Storage, Signage		2	
Storage, Spill Kit		6	
Veterinary Product and Waste Disposal		6	
Well Setback, Manure Sources		1	
Well Tests, Every Three Years		16	
Well Tests, Health Standards		8	
<b>Monroe</b>	<b>24,153.0</b>	<b>461</b>	
Adequate Land Base for Nutrients		13	
No Adverse Impact To Endangered/Threatened Species		1	
All Habitat Types Identified and Mapped In LMP		1	
Anti-Backflow Device Installed		1	
Chemigation, Anti-backflow Device		1	
Containers, Properly Rinsed		2	
Cover Crop Use	63.5		
Crop Yields, Realistic Goals		6	
Dead Animals Handled According to BODA		4	
Drift Management Plan, New		4	
Emergency Plan, Fertilizer New		3	
Emergency Plan, Fertilizer Revised		1	
Emergency Plan, Manure Spill, New		5	
Emergency Plan, Manure Spill, Revised		3	
Emergency Plan, Pesticide New		8	
Emergency Plan, Pesticide Revised		3	
Environmentally Sensitive Areas Identified	15,648.0		
Equipment, Properly Cleaned and Rinsed		2	
Erosion Controlled, Site	1,394.5		
Fertilizer, Determination of Rates		2	
Impermeable Surface, Fuel		15	
Invasive Species Identified And Managed		9	
Isolation Distances Met		32	
Land Management Plan, New		1	
Landowner Complies With Laws And Ordinances		6	
Livestock Management, Anti-Backflow device installed		1	
Livestock Management, Recordkeeping		3	
Livestock Management, Siting		2	



MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Livestock Yard, Drainage Diversion			1	
Livestock Yard, Manure Scrape and Haul			2	
Livestock Yard, Surface Water Setback			3	
LMP Allows for Active and Adaptive Management			1	
LMP Includes Landowner Objectives			1	
Manure Application, MARI Completed			1	
Manure Application, Ponding, Erosion, and Runoff Avoided			5	
Manure Application, Rate Determination			2	
Manure Storage, Clean Water Diverted			10	
Manure Storage, Farmstead Stacked, Odor and Pest Control			1	
Manure Storage, Isolation Distances Met			10	
Manure Storage, Runoff Management			2	
Manure Storage, Temporary Duration			4	
Manure Storage, Temporary Location			9	
Manure Storage, Temporary Stacked, Odor and Pest Control			2	
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Manure, Isolation Distances Met			1	
Manure, Management Records			6	
Manure, Odor Management			1	
Nutrient Management Plans, Annual By Field		765		
Nutrients, All Sources Considered			3	
Odor Management Plan			5	
Other Environmental Risks Resolved			71	
Pasture Management For Vegetation and Runoff			2	
Pasture Management, Protecting Surface Water			1	
Pasture Soil Tested			3	
Pastures Have Current Soil Tests			5	
Pesticide Spill Kit Availability			5	
Pesticides, Application Recordkeeping			2	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			4	
Pesticides, Emergency Plan and Contacts			1	
Pesticides, Mixing and Loading In Field			1	
Precipitation Leading to Contaminated Run-Off			1	
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats			3	
Non-Forested/Non-Wetland Habitats Being Restored			1	
RTF Site Selection and Odor-Control GAAMPS Met			2	
Runoff/Sedimentation Controlled		125	1	
RUP Compliance			1	
Secondary Containment, Mix-Load			2	
Secondary Containment, Operational Pad			2	
Secondary Containment, Pesticides			2	
Septic, Pumping			3	
Soil and/or Tissue Testing, Quadrennial		22		
Soil Erosion Controlled		3,561.0		
Soil Testing, Representative Sampling		13	12	
Soil Testing, Triennial		1,663	40	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Soil, Nutrient Records		898		
Storage, Appropriate Tanks			19	
Storage, Buildings Setback			2	
Storage, Elevation			1	
Storage, Isolated From Other Products			2	
Storage, Monitored for Leaks			5	
Storage, Security			4	
Storage, Signage			4	
Storage, Spill Kit			16	
Sustainable Soil And Water Quality Practices Followed			8	
Veterinary Product and Waste Disposal			1	
Waste, Floor Drains			2	
Waste, Recycling and Disposal			1	
Water Bodies Identified And Riparian Management Zones Established			1	
Well Decommissioned			2	
Well Repaired to Standards			7	
Well Tests, Every Three Years			15	
Well Tests, Health Standards			4	
Wetlands, Water Bodies Protected From Pollution			1	
<b>Montcalm</b>		<b>0.5</b>	<b>34</b>	
Drift Management Plan, New			2	
Farm Emergency Plan Developed and Followed, New			1	
Forest Roads Established And Maintained To Avoid Erosion			1	
Forestry Management Plan, New			4	
Impermeable Surface, Fuel			2	
Large Quantity Water Withdrawal Registered			1	
Manure, Management Records			1	
Other Environmental Risks Resolved			1	
P Fertilizer, Rate Determination			1	
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats			1	
Secondary Containment, Fuel			3	
Secondary Containment, Mix-Load			1	
Soil Testing, Triennial			1	
Soil, Nutrient Records		0.5		
Storage, Decommissioned			1	
Storage, Signage			5	
Storage, Spill Kit			1	
Storage, Spill Protection			3	
Waste, Floor Drains			1	
Water Use Reported			1	
Well Tests, Every Three Years			2	
<b>Montmorency</b>		<b>0.5</b>	<b>47</b>	
No Adverse Impact To Endangered/Threatened Species			1	
Dead Animals Handled According to BODA			1	
Forestation Achieves Adequate Stocking Levels			1	
Impermeable Surface, Fuel			1	
IPM Used To Control Pests			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Livestock Yard, Runoff Management			2	
Manure Application, MARI Completed			1	
Manure Storage, Temporary Location			1	
Secondary Containment, Mix-Load			1	
Soil Testing, Representative Sampling			4	
Soil Testing, Triennial			6	
Soil, Nutrient Records		0.5		
Storage, Signage			1	
Storage, Spill Kit			1	
Veterinary Product and Waste Disposal			4	
Waste, Ash Disposal			1	
Waste, Recycling and Disposal			13	
Well Tests, Every Three Years			3	
Well Tests, Health Standards			4	
<b>Muskegon</b>		<b>1,622</b>	<b>150</b>	
Adequate Land Base for Nutrients			1	
Anti-Backflow Device Installed			3	
Containers, Properly Rinsed			2	
Crop Yields, Realistic Goals			4	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			3	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			4	
Environmentally Sensitive Areas Identified		763		
Excess Product and Rinsate, Label Rates			1	
Farm Emergency Plan Developed and Followed, New			1	
Fertilizer, Application Equipment Calibration			3	
Fertilizer, Determination of Rates			5	
Impermeable Surface, Fuel			1	
Irrigation, Amount Determined Accurately			3	
Irrigation, Evaluation for Uniformity			2	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			5	
Irrigation, Scheduling			1	
Irrigation, System Evaluation			2	
Isolation Distances Met			14	
Livestock Management, Siting			1	
Livestock Yard, Surface Water Setback			1	
Required Regulatory Reporting and Recordkeeping Compliance			9	
Manure Application, Procedure		19		
Manure Application, Rate Determination			2	
Manure Application, Runoff Prevention		1		
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Location			1	
Manure Storage, Temporary Stacked, Surface Water Setback			1	

<b>MAEAP Technical Assistance Summary: FY 2017 Through FY 2019</b>	<b>Units</b>		
<b>Practices Implemented By County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Manure, Application Rates Do Not Exceed Crop N Needs	19		
Manure, Application Rates Do Not Exceed Crop P Needs	19		
Manure, Management Records		2	
Manure, Nutrient Content Determination		2	
N Fertilizer, Split/Multiple Applications	1		
Nutrient Management Plans, Annual By Field	29		
Nutrients, All Sources Considered		4	
P Fertilizer, Placement	1		
P Fertilizer, Rate Determination		8	
Pasture Soil Tested		1	
Pesticide Drift Management Plan, New		2	
Pesticide Drift Management Plan, Revised		1	
Pesticide Handling, Field Mixing and Loading		3	
Pesticide Mixture, Disposal of Excess		1	
Pesticide Rinsate, Proper Handling		2	
Pesticide Spill Kit Availability		2	
Pesticides, Drift Management Plan, New		1	
Pesticides, Emergency Plan and Contacts		2	
Pesticides, Excess Spray Mixture Use		1	
Pesticides, Mixing and Loading In Field		1	
Pesticides, Rinsate Disposal		6	
Secondary Containment, Mix-Load		3	
Secondary Containment, Pesticides		1	
Soil and/or Tissue Testing, Quadrennial	2		
Soil Erosion Controlled	712		
Soil Testing, Representative Sampling		3	
Soil Testing, Triennial		4	
Soil, Nutrient Records	37		
Soil, pH Maintenance	19		
Sprayer, Cleaning Water Collected		1	
Storage, Application Equipment		1	
Storage, Appropriate Tanks		1	
Storage, Monitored for Leaks		1	
Storage, Signage		3	
Storage, Spill Kit		2	
Waste, Floor Drains		5	
Waste, Recycling and Disposal		3	
Well Inspected		1	
Well Repaired to Standards		2	
Well Tests, Every Three Years		2	
Well Tests, Health Standards		1	
Worker Protection, Proper Training		1	
<b>Newaygo</b>	<b>2,465.5</b>	<b>369</b>	
Adequate Land Base for Nutrients		1	
No Adverse Impact To Endangered/Threatened Species		1	
Anti-Backflow Device Installed		22	
Rare And Sensitive Species And Habitats Protected		1	

<b>MAEAP Technical Assistance Summary: FY 2017 Through FY 2019</b>	<b>Units</b>		
<b>Practices Implemented By County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Containers, Properly Rinsed		7	
Cover Crop Use	1		
Crop Yields, Realistic Goals		5	
Dead Animals Handled According to BODA		3	
Drift Management Plan, New		7	
Emergency Plan, Fertilizer New		6	
Emergency Plan, Manure Spill, New		5	
Emergency Plan, Manure Spill, Revised		1	
Emergency Plan, Pesticide New		6	
Environmentally Sensitive Areas Identified	313		
Equipment, Parking and Storage		6	
Excess Product, Label Rates		1	
Fertilizer, Application Equipment Calibration		1	
Fertilizer, Determination of Rates		8	
Hydrant MDEQ Approved		1	
Impermeable Surface		1	
Impermeable Surface, Fuel		8	
Invasive Species Identified And Managed		1	
Irrigation, Amount Determined Accurately		2	
Irrigation, Evaluation for Uniformity		3	
Irrigation, Rain Gauges in Fields		1	
Irrigation, Record Keeping		2	
Irrigation, Scheduling		1	
Isolation Distances Met		40	
Large Quantity Water Withdrawal Registered		3	
Livestock Management, Anti-Backflow device installed		2	
Livestock Management, NMP		2	
Livestock Management, Recordkeeping		4	
Livestock Management, Runoff Management		1	
Livestock Management, Siting		1	
Livestock Yard, Drainage Diversion		1	
Livestock Yard, Floor		1	
Required Regulatory Reporting and Recordkeeping Compliance		6	
Manure Application, Odor-Reduction Practices Used		1	
Manure Application, Procedure	6		
Manure Application, Rate Determination		6	
Manure Application, Rates Do Not Exceed Crop N Needs		1	
Manure Application, Rates Do Not Exceed Crop P Needs		2	
Manure Application, Runoff Prevention	715		
Manure Storage, Temporary Duration		2	
Manure Storage, Temporary Location		4	
Manure Storage, Temporary Stacked, Surface Water Setback		1	
Manure, Application Rates Do Not Exceed Crop N Needs	16		
Manure, Application Rates Do Not Exceed Crop P Needs	16		
Manure, Management Records		5	
Manure, Nutrient Content Determination		8	
N Fertilizer, Split/Multiple Applications	1		

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Nutrient Management Plans, Annual By Field		550		
Nutrients, All Sources Considered			7	
Odor Management Plan			5	
P Fertilizer, Rate Determination			8	
Pasture Management For Vegetation and Runoff			1	
Pasture Management, Manure Near Water Tanks/Feeders			1	
Pasture Soil Tested			2	
Pastures Have Current Soil Tests			3	
Pesticide Drift Management Plan, New			8	
Pesticide Handling, Field Mixing and Loading			5	
Pesticide Spill Kit Availability			8	
Pesticides, Application Recordkeeping			2	
Pesticides, Container Handling			7	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			3	
Pesticides, Rinsate Disposal			6	
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats			1	
Rinsate, Label Rates			6	
Secondary Containment, Fertilizer			5	
Secondary Containment, Fuel			1	
Secondary Containment, Mix-Load			7	
Secondary Containment, Pesticides			8	
Silage, Leachate Management			1	
Soil Erosion Controlled		45		
Soil Quality Indicators Evaluated			1	
Soil Testing, Representative Sampling			5	
Soil Testing, Triennial			11	
Soil, Nutrient Records		795.5		
Soil, pH Maintenance		7		
Storage, Application Equipment			1	
Storage, Corrosion Protection			1	
Storage, Decommissioned			1	
Storage, Elevation			3	
Storage, Monitored for Leaks			2	
Storage, Security			9	
Storage, Signage			4	
Storage, Spill Kit			7	
Veterinary Product and Waste Disposal			2	
Waste, Floor Drains			4	
Waste, Isolation Distances Met			3	
Waste, Recycling and Disposal			2	
Water Use Reported			1	
Well Decommissioned			4	
Well Repaired to Standards			3	
Well Tests, Every Three Years			8	
Well Tests, Health Standards			8	
Wetlands Enrolled In Long-Term Or Permanent Conservation Programs			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
<b>Oakland</b>		<b>301</b>	<b>30</b>	
Drift Management Plan, New			1	
Emergency Plan, Manure Spill, New			1	
Environmentally Sensitive Areas Identified		78		
Fertilizer, Determination of Rates			1	
Fertilizer, Rate Determination		40		
Impermeable Surface, Fuel			1	
Irrigation, Amount Determined Accurately			2	
Irrigation, Record Keeping			1	
Land Management Plan, New			1	
Landowner Complies With Laws And Ordinances			2	
Livestock Management, Recordkeeping			1	
Manure Application, Rate Determination			1	
Manure Application, Rates Do Not Exceed Crop N Needs			1	
Manure Application, Rates Do Not Exceed Crop P Needs			1	
Manure Applications, Weather Forecasts Monitored			1	
Manure Storage, Design and Construction			1	
Manure Storage, Farmstead Stacked, Odor and Pest Control			1	
Manure Storage, Temporary Location			2	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Application Rates Do Not Exceed Crop P Needs		1		
Manure, Nutrient Content Determination			1	
Manure, Winter Application Procedure		60		
Nutrient Management Plans, Annual By Field		62		
Odor Management Plan			1	
Pesticides, Container Handling			1	
Pesticides, Equipment Calibration			1	
Pesticides, Resistance Prevention			1	
Precipitation Leading to Contaminated Run-Off			1	
Soil Testing, Triennial			1	
Soil, Nutrient Records		60		
Storage, Signage			1	
Waste, Floor Drains			1	
Well Tests, Every Three Years			1	
<b>Oceana</b>		<b>8,232.3</b>	<b>458</b>	<b>2,000</b>
Adequate Land Base for Nutrients			1	
No Adverse Impact To Endangered/Threatened Species			1	
All Habitat Types Identified and Mapped In LMP			1	
Anti-Backflow Device Installed			5	
Containers, Properly Rinsed			2	
Cover Crop Use		115		
Dead Animals Handled According to BODA			3	
Dead Animals, Composting Meets BODA Requirements			2	
Drift Management Plan, New			8	
Drift Management Plan, Revised			8	
Emergency Plan, Manure Spill, New			4	
Emergency Plan, Manure Spill, Revised			3	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Emergency Plan, Pesticide New			14	
Emergency Plan, Pesticide Revised			24	
Emergency Plan, Spill Control and Counter-measure			1	
Environmentally Sensitive Areas Identified		4,795		
Equipment, Parking and Storage			2	
Erosion Controlled, Site		1		
Excess Product, Label Rates			2	
Farm Emergency Plan Developed and Followed, New			1	
Farm Emergency Plan Developed and Followed, Revised			4	
Fertilizer, Determination of Rates			9	
Food Safety Plan Written and Implemented			1	
Forestation Achieves Adequate Stocking Levels			1	
Forestry Management Plan, New			1	
Impermeable Surface, Fuel			11	
IPM Consultant, University, Other Reliable Source			2	
IPM Scouting Weekly			1	
Irrigation, Amount Determined Accurately			1	
Irrigation, Backflow Prevention			3	
Irrigation, Chemigation Storage Setback			2	
Irrigation, Evaluation for Uniformity			3	
Irrigation, Excess Avoided			1	
Irrigation, Rain Gauges in Fields			4	
Irrigation, Record Keeping			3	
Irrigation, System Evaluation			2	
Isolation Distances Met			25	
Land Management Plan, New			1	
Landowner Enrolled in Programs Appropriate To Objectives			2	
Minimal Impact To Cultural Sites			1	
Leaching/Runoff Toxic Potential Consideration			1	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			1	
Livestock Yard, Runoff Management			1	
LMP Allows for Active and Adaptive Management			1	
LMP Includes Landowner Objectives			1	
LMP Prepared By Professional Natural Resource Manager			1	
Required Regulatory Reporting and Recordkeeping Compliance			19	
Manure Application, Odor-Reduction Practices Used			1	
Manure Application, Rate Determination			5	
Manure Application, Rates Do Not Exceed Crop N Needs			1	
Manure Application, Rates Do Not Exceed Crop P Needs			2	
Manure Applications, Weather Forecasts Monitored			2	
Manure Storage, Temporary Location			1	
Manure, Application Rates Do Not Exceed Crop N Needs		200		
Manure, Application Rates Do Not Exceed Crop P Needs		200		
Manure, Applications Managed for Food Safety			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			3	



MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Milking Center, Parlor Cleanup Practices			1	
Mix-Load, Measuring Devices			1	
Nutrient Management Plans, Annual By Field		49		
Nutrients, All Sources Considered			1	
Odor Management Plan			5	
Other Environmental Risks Resolved			1	
P Fertilizer, Rate Determination			2	
Pasture Soil Tested			1	
Pesticide Application, Recordkeeping			2	
Pesticide Drift Management Plan, New			3	
Pesticide Drift Management Plan, Revised			8	
Pesticide Handling, Field Mixing and Loading			2	
Pesticide Mixture, Disposal of Excess			1	
Pesticide Spill Kit Availability			5	
Pesticides Used And Stored According To EPA, SSWQPs			1	
Pesticides, Application Recordkeeping			2	
Pesticides, Container Handling			5	
Pesticides, Drift Management Plan, New			5	
Pesticides, Drift Management Plan, Revised			4	
Pesticides, Emergency Plan and Contacts			5	
Pesticides, Equipment Calibration			2	
Pesticides, Mixing and Loading In Field			2	
Pesticides, Rinsate Disposal			3	
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats			1	
Non-Forested/Non-Wetland Habitats Being Restored		3.3		
Rinsate, Label Rates			1	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Runoff/Sedimentation Controlled			4	
RUP Compliance			3	
Secondary Containment, Fuel			4	
Secondary Containment, Leaks and Precipitation			1	
Secondary Containment, Mix-Load			8	
Secondary Containment, Pesticides			7	
Septic, Designed Use			1	
Soil and/or Tissue Testing, Quadrennial		320		
Soil Erosion Controlled		1,331		
Soil Testing, Triennial			7	
Soil, Nutrient Records		118		
Soil, pH Maintenance		1,100		
Special Sites Protected			1	
Sprayer, Cleaning Water Collected			3	
Storage, Application Equipment			3	
Storage, Appropriate Tanks			6	
Storage, Buildings Setback			5	
Storage, Dedicated			4	
Storage, Elevation			2	
Storage, Labeled Containers			3	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Storage, Security			8	
Storage, Shelving			1	
Storage, Signage			24	
Storage, Spill Kit			25	
Timber Harvesting Conducted According To FMP			2	
Veterinary Product and Waste Disposal			2	
Waste, Floor Drains			11	
Waste, Isolation Distances Met			4	
Waste, Recycling and Disposal			1	
Water Management, Wastewater				2,000
Water Use Reported			7	
Weather Stations/Models Used, On-Farm			1	
Well Construction			1	
Well Decommissioned			3	
Well Repaired to Standards			2	
Well Tests, Every Three Years			29	
Well Tests, Health Standards			5	
Worker Protection Standards Met			1	
Worker Protection, Central Notification			1	
<b>Ogemaw</b>		<b>1,524</b>	<b>50</b>	
Drift Management Plan, New			1	
Emergency Plan, Pesticide New			2	
Environmentally Sensitive Areas Identified		850		
Erosion Controlled, Site		1		
Fill Opening Separate From Vent Opening			3	
Impermeable Surface, Fuel			6	
Isolation Distances Met			5	
Livestock Management, Siting			2	
Livestock Yard, Runoff Management			2	
Livestock Yard, Surface Water Setback			1	
Manure Storage, Liquid Storage Freeboard Maintained			2	
Manure Storage, Temporary Duration			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			1	
Secondary Containment, Fuel			3	
Silage, Leachate Collection/Treatment			2	
Soil Erosion Controlled		673		
Storage, Appropriate Tanks			3	
Storage, Elevation			3	
Storage, Security			3	
Storage, Signage			3	
Storage, Valves and Hoses			3	
Well Repaired to Standards			1	
Well Tests, Every Three Years			2	
<b>Osceola</b>		<b>37</b>	<b>86</b>	
All Habitat Types Identified and Mapped In LMP			1	
Anti-Backflow Device Installed			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Drift Management Plan, New			3	
Emergency Plan, Manure Spill, New			15	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			1	
Erosion Controlled, Site		2		
Farm Emergency Plan Developed and Followed, New			3	
Forestry Management Plan, New			1	
Impermeable Surface, Fuel			10	
Irrigation, Record Keeping			1	
Land Management Plan, New			1	
Livestock Yard, Surface Water Setback			1	
LMP Allows for Active and Adaptive Management			1	
LMP Prepared By Professional Natural Resource Manager			1	
Manure Storage, Temporary Location			1	
Odor Management Plan			8	
Pasture, Protection of Stream Banks and Surface Water			3	
Pastures Have Current Soil Tests			1	
Pesticide Spill Kit Availability			1	
Pesticides, Emergency Plan and Contacts			1	
Soil Erosion Controlled		25		
Soil Testing, Triennial		10	1	
Soil, Nutrient Records			1	
Storage, Dedicated			3	
Storage, Elevation			3	
Storage, Security			3	
Storage, Spill Kit			3	
Well Decommissioned			2	
Well Tests, Every Three Years			11	
Well Tests, Health Standards			3	
<b>Oscoda</b>		<b>592</b>	<b>68</b>	
Adequate Land Base for Nutrients			2	
Anti-Backflow Device Installed			1	
Crop Yields, Realistic Goals			1	
Dead Animals Handled According to BODA			2	
Drift Management Plan, New			1	
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			4	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		296		
Fertilizer, Determination of Rates			1	
Forestry Management Plan, New			1	
Invasive Species Identified And Managed			1	
Large Quantity Water Withdrawal Registered			1	
Livestock Management, Recordkeeping			6	
Assess Visual Impacts Of Forest Management with Relevant GAFMPs			1	
Required Regulatory Reporting and Recordkeeping Compliance			1	
Manure Application, MARI Completed			1	

<b>MAEAP Technical Assistance Summary: FY 2017 Through FY 2019</b>	<b>Units</b>		
<b>Practices Implemented By County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Manure Application, Rates Do Not Exceed Crop N Needs		1	
Manure, Nutrient Content Determination		2	
Manure, Winter Application Procedure	148		
Nutrients, All Sources Considered		2	
Odor Management Plan		4	
Pasture Management For Vegetation and Runoff		1	
Pasture Soil Tested		4	
Pastures Have Current Soil Tests		4	
Pesticide Application, Recordkeeping		1	
Pesticide Drift Management Plan, New		1	
Pesticide Spill Kit Availability		1	
Pesticides, Application Recordkeeping		1	
Pesticides, Drift Management Plan, New		1	
Pesticides, Emergency Plan and Contacts		1	
Soil Erosion Controlled		1	
Soil Testing, Representative Sampling		3	
Soil Testing, Triennial		3	
Soil, Nutrient Records	148		
Storage, Signage		1	
Storage, Spill Kit		1	
Veterinary Product and Waste Disposal		2	
Well Tests, Every Three Years		4	
Well Tests, Health Standards		3	
<b>Otsego</b>	<b>94</b>	<b>60</b>	
Anti-Backflow Device Installed		5	
Containers, Properly Rinsed		10	
Dead Animals Handled According to BODA		2	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Manure Spill, New		4	
Emergency Plan, Pesticide New		1	
Environmentally Sensitive Areas Identified	60		
Impermeable Surface, Fuel		1	
Isolation Distances Met		1	
Livestock Management, Recordkeeping		3	
Manure Application, Odor-Reduction Practices Used		1	
Manure Application, Runoff Prevention	1		
Manure Runoff Prevention	1		
Manure Storage, Farmstead Stacked, Odor and Pest Control		1	
Manure Storage, Field Stacked Duration		1	
Manure Storage, Odor and Pest Control		1	
Manure Storage, Temporary Duration		3	
Manure Storage, Temporary Location		2	
Manure Storage, Temporary Stacked, Odor and Pest Control		2	
Manure Storage, Temporary Stacked, Surface Water Setback		2	
Manure, Application Procedure	1		
Manure, Application to Avoid Ponding, Erosion, and Runoff		2	
Manure, Field Stockpile Duration		1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Manure, Isolation Distances Met			1	
Manure, Management Records			3	
Manure, Odor Management			1	
Manure, Temporary Stacking Setback			1	
Nutrient Management Records, Multiple			1	
Odor Management Plan			1	
Pesticides, Container Handling			1	
Soil, Nutrient Records		31		
Veterinary Product and Waste Disposal			3	
Well Setback, Manure Sources			1	
Well Tests, Every Three Years			3	
<b>Ottawa</b>		<b>2,919.6</b>	<b>243</b>	<b>15,000</b>
Adequate Land Base for Nutrients			1	
Anti-Backflow Device Installed			7	
Chemigation, Anti-backflow Device			2	
Crop Yields, Realistic Goals			1	
Dead Animals Handled According to BODA			8	
Dead Animals, Composting Meets BODA Requirements			1	
Drift Management Plan, New			9	
Emergency Plan, Employee Training			1	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Manure Spill, New			4	
Emergency Plan, Manure Spill, Revised			2	
Emergency Plan, Pesticide New			7	
Emergency Plan, Pesticide Revised			1	
Environmentally Sensitive Areas Identified		1,391.6		
Equipment, Parking and Storage			1	
Erosion Controlled, Site		7		
Farm Emergency Plan Developed and Followed, New			1	
Fertilizer, Application Equipment Calibration			1	
Fertilizer, Determination of Rates			1	
Fertilizer, Rate Determination		900		
Herbicide Setback Maintenance			2	
Impermeable Surface, Fuel			3	
Irrigation Records Maintained			1	
Irrigation, Amount Determined Accurately			2	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			3	
Irrigation, Sock Wells Isolated			5	
Irrigation, System Evaluation			1	
Isolation Distances Met			15	
Livestock Management, Anti-Backflow device installed			5	
Livestock Management, Recordkeeping			3	
Livestock Yard, Runoff Management			1	
Manure Application, Rate Determination			2	
Manure Application, Rates Do Not Exceed Crop P Needs			1	
Manure Application, Runoff Prevention		2		

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Manure Storage, Design and Construction			1	
Manure Storage, Isolation Distances Met			3	
Manure Storage, Liquid Storage Maintained Properly				15,000
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Location			4	
Manure, Application Rates Do Not Exceed Crop P Needs		111		
Manure, Isolation Distances Met			1	
Manure, Management Records			1	
Manure, Nutrient Content Determination			1	
Manure, Winter Application Procedure		13		
Mix-Load, Filling Monitored			1	
No Cross-Connections To Water, Isolation Distances Met			12	
Nutrient Management Plans, Annual By Field		16		
Nutrients, All Sources Considered			3	
Odor Management Plan			7	
P Fertilizer, Application to Frozen or Snow Covered Fields		106		
Pesticide Application Equipment Calibrated Annually			2	
Pesticide Drift Management Plan, New			1	
Pesticide Handling, Field Mixing and Loading			1	
Pesticide Mixture, Disposal of Excess			1	
Pesticide Rinsate, Proper Handling			1	
Pesticide Spill Kit Availability			1	
Pesticides, Application Recordkeeping			1	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			1	
Pesticides, Emergency Plan and Contacts			3	
Pesticides, Equipment Calibration			2	
Pesticides, Excess Spray Mixture Use			1	
Pesticides, Label Compliance			1	
Pesticides, Mixing and Loading In Field			1	
Pesticides, Rinsate Disposal			2	
Rinsate, Label Rates			1	
Secondary Containment, Mix-Load			2	
Secondary Containment, Pesticides			2	
Septic, Designed Use			1	
Soil and/or Tissue Testing, Quadrennial		106		
Soil Erosion Controlled		260		
Soil Testing, Representative Sampling			1	
Soil Testing, Triennial			5	
Soil, Nutrient Records		7		
Storage, Appropriate Tanks			2	
Storage, Dedicated			4	
Storage, Portable Fueling			2	
Storage, Signage			8	
Storage, Spill Kit			10	
Storage, Valves and Hoses			2	
Veterinary Product and Waste Disposal			4	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Waste, Floor Drains			3	
Waste, Recycling and Disposal			1	
Well Construction			7	
Well Decommissioned			2	
Well Inspected			3	
Well Repaired to Standards			9	
Well Tests, Every Three Years			17	
Well Tests, Health Standards			7	
<b>Presque Isle</b>		<b>1</b>	<b>88</b>	
No Adverse Impact To Endangered/Threatened Species			1	
Anti-Backflow Device Installed			3	
Backflow Prevention on Livestock Watering Systems			4	
Conservation Practices Routinely Evaluated			1	
Dead Animals Handled According to BODA			4	
Drift Management Plan, New			2	
Emergency Plan, Manure Spill, New			3	
Emergency Plan, Pesticide New			3	
Forestry Management Plan, New			1	
Hydrant MDEQ Approved			1	
Isolation Distances Met			2	
Livestock Management, Anti-Backflow device installed			1	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			2	
Livestock Management, Siting			3	
Manure, Management Records			1	
Odor Management Plan			1	
P Fertilizer, Rate Determination			1	
Pasture Management, Manure Near Water Tanks/Feeders			1	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			2	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Secondary Containment, Pesticides			1	
Soil Testing, Representative Sampling			6	
Soil Testing, Triennial			12	
Soil, Nutrient Records		1		
Storage, Security			1	
Storage, Signage			2	
Storage, Spill Kit			1	
Veterinary Product and Waste Disposal			7	
Waste, Floor Drains			1	
Waste, Recycling and Disposal			7	
Well Tests, Every Three Years			5	
Well Tests, Health Standards			5	
<b>Roscommon</b>		<b>980</b>	<b>33</b>	
Adequate Land Base for Nutrients			2	
Anti-Backflow Device Installed			1	
Dead Animals Handled According to BODA			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Emergency Plan, Fertilizer New			1	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Manure Spill, Revised			1	
Environmentally Sensitive Areas Identified		412		
Erosion Controlled, Site		184		
Impermeable Surface, Fuel			1	
Livestock Management, Anti-Backflow device installed			1	
Livestock Management, NMP			1	
Manure Application, Runoff Prevention		92		
Manure, Management Records			1	
Manure, Nutrient Content Determination			2	
Odor Management Plan			5	
Pastures Have Current Soil Tests			2	
Pesticides, Emergency Plan and Contacts			2	
Soil Erosion Controlled		292		
Soil Testing, Representative Sampling			2	
Soil Testing, Triennial			2	
Veterinary Product and Waste Disposal			2	
Well Tests, Every Three Years			2	
Well Tests, Health Standards			2	
<b>Saginaw</b>		<b>35,732</b>	<b>93</b>	
Adequate Land Base for Nutrients			1	
Anti-Backflow Device Installed			2	
Cover Crop Use		200		
Drift Management Plan, New			3	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Pesticide New			4	
Emergency Plan, Pesticide Revised			1	
Emergency Plan, Spill Control and Counter-measure			1	
Environmentally Sensitive Areas Identified		15,732		
Fertilizer Records Maintained			1	
Fertilizer, Rate Determination		7.5		
Impermeable Surface, Fuel			5	
Irrigation Records Maintained			2	
Isolation Distances Met			6	
Required Regulatory Reporting and Recordkeeping Compliance			1	
Manure Storage, Isolation Distances Met			1	
Manure, Management Records			2	
Manure, N Application Rates		7.5		
Manure, Nutrient Content Determination			2	
Manure, Temporary Stacking Setback			1	
Manure, Winter Application Procedure		25		
Nutrient Management Plans, Annual		7.5		
Nutrient Management Plans, Annual By Field		916		
Nutrient Management Records, Multiple			1	
Nutrients, All Sources Considered			2	



MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Odor Management Plan			1	
Other Environmental Risks Resolved		1,000	1	
Pesticide Drift Management Plan, New			1	
Pesticide Handling, Field Mixing and Loading			1	
Pesticide Spill Kit Availability			3	
Pesticides, Drift Management Plan, New			6	
Pesticides, Emergency Plan and Contacts			1	
Pesticides, Rinsate Disposal			1	
RTF Site Selection and Odor-Control GAAMPS Met			1	
Secondary Containment, Fuel			3	
Secondary Containment, Mix-Load			2	
Secondary Containment, Operational Pad			1	
Secondary Containment, Pesticides			1	
Soil and/or Tissue Testing, Quadrennial		7.5		
Soil Erosion Controlled		17,329		
Soil Testing, Triennial		500	2	
Storage, Elevation			1	
Storage, Portable Fueling			1	
Storage, Security			2	
Storage, Signage			2	
Storage, Spill Kit			3	
Waste, Floor Drains			1	
Well Decommissioned			3	
Well Tests, Every Three Years			14	
Well Tests, Health Standards			2	
<b>Saint Clair</b>		<b>4,526.5</b>	<b>96</b>	
Adequate Land Base for Nutrients			1	
Dead Animals Handled According to BODA			3	
Dead Animals, Composting Meets BODA Requirements			2	
Drift Management Plan, New			3	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Pesticide New			3	
Environmentally Sensitive Areas Identified		2,148		
Erosion Controlled, Site		3		
Impermeable Surface, Fuel			1	
Irrigation, Record Keeping			1	
Isolation Distances Met			1	
Landowner Complies With Laws And Ordinances			1	
Livestock Management, Siting			1	
Manure Application, MARI Completed			1	
Manure Storage, Temporary Location			1	
Manure, Management Records			1	
Manure, Winter Application Procedure		380		
Nutrient Management Plans, Annual By Field		548		
Pastures Have Current Soil Tests			2	
Pesticide Application, Recordkeeping			2	
Pesticide Drift Management Plan, New			2	

<b>MAEAP Technical Assistance Summary: FY 2017 Through FY 2019</b>	<b>Units</b>		
<b>Practices Implemented By County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Pesticide Spill Kit Availability		5	
Pesticides, Application Recordkeeping		4	
Pesticides, Drift Management Plan, New		5	
Pesticides, Drift Management Plan, Revised		1	
Pesticides, Emergency Plan and Contacts		5	
Pesticides, Excess Spray Mixture Use		1	
Pesticides, Label Compliance		1	
RTF Site Selection and Odor-Control GAAMPS Met		1	
Secondary Containment, Mix-Load		1	
Secondary Containment, Pesticides		1	
Soil and/or Tissue Testing, Quadrennial	3.5		
Soil Erosion Controlled	911		
Soil Testing, Triennial		15	
Soil, Nutrient Records	533		
Storage, Signage		4	
Storage, Spill Kit		2	
Waste, Floor Drains		3	
Water, Protected From Pesticide Contamination		2	
Well Tests, Every Three Years		10	
Well Tests, Health Standards		8	
<b>Saint Joseph</b>	<b>121</b>	<b>68</b>	<b>2</b>
Drift Management Plan, New		4	
Drift Management Plan, Revised		2	
Emergency Plan, Fertilizer New		4	
Emergency Plan, Fertilizer Revised		2	
Emergency Plan, Manure Spill, New		7	
Emergency Plan, Pesticide New		3	
Emergency Plan, Pesticide Revised		2	
Environmentally Sensitive Areas Identified	55		
Impermeable Surface, Fuel		3	
Isolation Distances Met		4	
Required Regulatory Reporting and Recordkeeping Compliance		1	
Manure Application, Rate Determination		1	
Manure, Management Records		1	
Odor Management Plan		3	
Pesticide Spill Kit Availability		2	
Pesticides, Application Recordkeeping		1	
Pesticides, Drift Management Plan, New		3	
Pesticides, Drift Management Plan, Revised		3	
Pesticides, Emergency Plan and Contacts		6	
Pesticides, Mixing and Loading In Field		1	
Secondary Containment, Mix-Load		1	
Soil Testing, Representative Sampling		1	
Soil Testing, Triennial		1	
Soil, Nutrient Records	66		
Storage, Application Equipment		1	
Storage, Buildings Setback		1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Storage, Fertilizer Liquid				2
Storage, Spill Kit			1	
Waste, Floor Drains			3	
Waste, Recycling and Disposal			1	
Water, Protected From Pesticide Contamination			1	
Well Decommissioned			1	
Well Tests, Every Three Years			3	
<b>Sanilac</b>		<b>58,613</b>	<b>242</b>	
Adequate Land Base for Nutrients			1	
Cover Crop Use		1,500		
Drift Management Plan, New			2	
Drift Management Plan, Revised			4	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, Pesticide New			3	
Emergency Plan, Pesticide Revised			1	
Emergency Plan, Spill Control and Counter-measure			1	
Environmentally Sensitive Areas Identified		18,911		
Fertilizer, Determination of Rates			5	
Fill Opening Separate From Vent Opening			7	
Herbicide Setback Maintenance			3	
Impermeable Surface, Fuel			2	
Isolation Distances Met			3	
Livestock Management, Recordkeeping			2	
Manure Application, MARI Completed			2	
Manure Application, Procedure		1,200		
Manure Storage, Liquid Storage, Nearby Area Maintained			1	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Application to Avoid Ponding, Erosion, and Runoff			1	
Manure, Liquid Loss Through Tile Lines			5	
Manure, Management Records			16	
Manure, Nutrient Content Determination			9	
Manure, Winter Application Procedure		791		
Nutrient Management Plans, Annual By Field		5,109		
Odor Management Plan			1	
P Fertilizer, Rate Determination			1	
Pesticide Application, Recordkeeping			1	
Pesticide Spill Kit Availability			14	
Pesticides, Application Recordkeeping			18	
Pesticides, Drift Management Plan, New			18	
Pesticides, Drift Management Plan, Revised			10	
Pesticides, Emergency Plan and Contacts			2	
Pesticides, Label Compliance			17	
Pesticides, Mixing and Loading In Field			2	
Pesticides, Resistance Prevention			1	
Runoff/Sedimentation Controlled			1	
Secondary Containment, Fertilizer			1	

<b>MAEAP Technical Assistance Summary: FY 2017 Through FY 2019</b>	<b>Units</b>		
<b>Practices Implemented By County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Secondary Containment, Fuel		1	
Secondary Containment, Mix-Load		2	
Secondary Containment, Pesticides		1	
Silage, Bunker Silo Covered		1	
Soil and/or Tissue Testing, Quadrennial	20		
Soil Erosion Controlled	19,781		
Soil Testing, Representative Sampling		4	
Soil Testing, Triennial	178	4	
Soil, Nutrient Records	11,123		
Storage, Appropriate Tanks		1	
Storage, Decommissioned		1	
Storage, Dedicated		1	
Storage, Signage		21	
Storage, Spill Kit		1	
Waste, Floor Drains		4	
Water, Protected From Pesticide Contamination		21	
Well Tests, Every Three Years		18	
Well Tests, Health Standards		2	
<b>Schoolcraft</b>	<b>256.1</b>	<b>64</b>	
No Adverse Impact To Endangered/Threatened Species		3	
All Habitat Types Identified and Mapped In LMP		3	
Dead Animals Handled According to BODA		4	
Drift Management Plan, New		1	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Manure Spill, New		3	
Environmentally Sensitive Areas Identified	216		
Irrigation, Amount Determined Accurately		1	
Irrigation, Evaluation for Uniformity		1	
Irrigation, Rain Gauges in Fields		1	
Land Management Plan, New		3	
Landowner Uses Professionals To Comply With All Laws		3	
Livestock Management, Anti-Backflow device installed		1	
Livestock Management, Recordkeeping		3	
LMP Allows for Active and Adaptive Management		2	
LMP Identifies All Resource Concerns		1	
LMP Includes Landowner Objectives		3	
LMP Prepared By Professional Natural Resource Manager		2	
Manure Application, Procedure	40		
Manure, Management Records		2	
Manure, Nutrient Content Determination		5	
Odor Management Plan		2	
Pasture Soil Tested		1	
Pastures Have Current Soil Tests		1	
Pesticide Spill Kit Availability		1	
Pesticides, Application Recordkeeping		1	
Pesticides, Drift Management Plan, New		1	
Pesticides, Emergency Plan and Contacts		1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Timber Management And Habitat Conflicts Addressed			3	
Secondary Containment, Pesticides			1	
Soil, Nutrient Records		0.1		
Storage, Spill Kit			1	
Veterinary Product and Waste Disposal			2	
Waste, Floor Drains			1	
Waste, Isolation Distances Met			1	
Well Tests, Every Three Years			2	
Well Tests, Health Standards			2	
<b>Shiawassee</b>		<b>68,244.5</b>	<b>366</b>	<b>15,200</b>
Adequate Land Base for Nutrients			2	
Containers, Properly Rinsed			6	
Cover Crop Use		1,690		
Dead Animals Handled According to BODA			5	
Dead Animals, Composting Meets BODA Requirements			1	
Drift Management Plan, New			8	
Drift Management Plan, Revised			4	
Emergency Plan, Fertilizer New			11	
Emergency Plan, Fertilizer Revised			16	
Emergency Plan, Manure Spill, New			9	
Emergency Plan, Manure Spill, Revised			2	
Emergency Plan, New, Silage			2	
Emergency Plan, Pesticide New			10	
Emergency Plan, Pesticide Revised			17	
Emergency Plan, Revised, Silage			1	
Emergency Plan, Revised, Tire Fire			1	
Emergency Plan, Spill Control and Counter-measure			2	
Environmentally Sensitive Areas Identified		34,941.7		
Equipment, Properly Cleaned and Rinsed			1	
Erosion Controlled, Site		1		
Fertilizer, Determination of Rates			3	
Fill Opening Separate From Vent Opening			1	
Herbicide Setback Maintenance			1	
Impermeable Surface			1	
Impermeable Surface, Fuel			14	
Irrigation, Amount Determined Accurately			2	
Irrigation, Record Keeping			2	
Isolation Distances Met			4	
Livestock Management, Anti-Backflow device installed			3	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			9	
Livestock Management, Runoff Management			2	
Livestock Yard, Drainage Diversion			3	
Livestock Yard, Runoff Management			1	
Required Regulatory Reporting and Recordkeeping Compliance			2	
Manure Application, MARI Completed			1	
Manure Application, Rate Determination			7	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Manure Application, Rates Do Not Exceed Crop N Needs			1	
Manure Application, Rates Do Not Exceed Crop P Needs			1	
Manure Storage, Capacity				15,000
Manure Storage, Designed Use			1	
Manure Storage, Liquid Storage Design and Installation			1	
Manure Storage, Liquid Storage Freeboard Maintained			1	
Manure Storage, Runoff Management			1	
Manure Storage, Temporary Duration			6	
Manure Storage, Temporary Location			3	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Application Rates Do Not Exceed Crop N Needs		1,210		
Manure, Application Rates Do Not Exceed Crop P Needs		1,200		
Manure, Management Records			3	
Manure, Nutrient Content Determination			11	
Manure, Winter Application Procedure		540		
Nutrient Management Plans, Annual By Field		700		
Nutrients, All Sources Considered			3	
Odor Management Plan			6	
P Fertilizer, Rate Determination			1	
Pasture Soil Tested			1	
Pastures Have Current Soil Tests			4	
Pesticide Spill Kit Availability			5	
Pesticides, Application Recordkeeping			11	
Pesticides, Container Handling			9	
Pesticides, Drift Management Plan, New			14	
Pesticides, Drift Management Plan, Revised			2	
Pesticides, Equipment Calibration			1	
Pesticides, Mixing and Loading In Field			1	
Pesticides, Rinsate Disposal			3	
Precipitation Leading to Contaminated Run-Off			2	
Secondary Containment, Fuel			5	
Secondary Containment, Mix-Load			3	
Secondary Containment, Operational Pad			1	
Secondary Containment, Pesticides			5	
Silage, Bunker Storage Floor			1	
Silage, Clean Water Diversion			3	
Silage, Leachate Collection/Treatment				200
Silage, Leachate Ponding			3	
Silage, Pad and Area Kept Clean			1	
Soil Erosion Controlled		22,553.2		
Soil Testing, Triennial			6	
Soil, Nutrient Records		5,408.6		
Storage, Appropriate Tanks			2	
Storage, Dedicated			3	
Storage, Designed Use			2	
Storage, Isolated From Other Products			1	
Storage, Labeled Containers			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Storage, Monitored for Leaks			1	
Storage, Security			7	
Storage, Signage			14	
Storage, Spill Kit			8	
Storage, Spill Protection			1	
Veterinary Product and Waste Disposal			6	
Waste, Floor Drains			3	
Waste, Isolation Distances Met			3	
Well Decommissioned			6	
Well Tests, Every Three Years			32	
<b>St. Clair</b>		<b>9,600</b>	<b>23</b>	
Adequate Land Base for Nutrients			1	
Drift Management Plan, Revised			1	
Environmentally Sensitive Areas Identified		2,960		
Manure Application, MARI Completed			1	
Manure Application, Runoff Prevention		1,100		
Manure, Management Records			2	
Manure, Winter Application Procedure		2,580		
Soil Erosion Controlled		2,960		
Soil Testing, Triennial			12	
Storage, Signage			1	
Water, Protected From Pesticide Contamination			2	
Well Tests, Every Three Years			1	
Well Tests, Health Standards			2	
<b>St. Joseph</b>		<b>2</b>	<b>43</b>	<b>689,850</b>
Containers, Properly Rinsed			1	
Decontamination, Supplies Available			1	
Drift Management Plan, New			3	
Emergency Plan, Fertilizer New			2	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			1	
Emergency Plan, Pesticide New			2	
Emergency Plan, Pesticide Revised			1	
Impermeable Surface, Fuel			1	
Isolation Distances Met			4	
Livestock Management, Recordkeeping			1	
Manure, Discharge from Tiles Prevented				689,850
Manure, Liquid Loss Through Tile Lines			1	
Manure, Management Records			1	
Pesticides, Application Recordkeeping			1	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			2	
Pesticides, Emergency Plan and Contacts			3	
Pesticides, Mixing and Loading In Field			1	
Pesticides, Rinsate Disposal			1	
Rinsate, Label Rates			1	
Secondary Containment, Fertilizer			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Secondary Containment, Mix-Load			2	
Secondary Containment, Pesticides			1	
Soil, Nutrient Records		2		
Storage, Signage			3	
Water, Protected From Pesticide Contamination			1	
Well Tests, Every Three Years			4	
Well Tests, Health Standards			1	
<b>Tuscola</b>		<b>14,761</b>	<b>205</b>	
Adequate Land Base for Nutrients			10	
No Adverse Impact To Endangered/Threatened Species			5	
Anti-Backflow Device Installed			1	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			1	
Drift Management Plan, New			2	
Emergency Plan, Manure Spill, New			2	
Emergency Plan, Pesticide New			3	
Emergency Plan, Pesticide Revised			4	
Emergency Plan, Spill Control and Counter-measure			1	
Environmentally Sensitive Areas Identified		6,535		
Herbicide Setback Maintenance			1	
Impermeable Surface, Fuel			14	
Invasive Species Identified And Managed			1	
Isolation Distances Met			2	
Leaching/Runoff Toxic Potential Consideration			4	
Livestock Management, Recordkeeping			1	
Livestock Yard, Manure Scrape and Haul			1	
Manure Application, Rates Do Not Exceed Crop P Needs			1	
Manure Storage, Temporary Duration			1	
Manure Storage, Temporary Location			3	
Manure Storage, Temporary Stacked, Surface Water Setback			1	
Manure, Isolation Distances Met			1	
Manure, Management Records			4	
Manure, Nutrient Content Determination			2	
Nutrient Management Plans, Annual By Field		919		
Nutrients, All Sources Considered			1	
Odor Management Plan			6	
P Fertilizer, Application to Frozen or Snow Covered Fields		195		
Pastures Have Current Soil Tests			2	
Pesticide Spill Kit Availability			4	
Pesticides, Application Recordkeeping			4	
Pesticides, Container Handling			1	
Pesticides, Drift Management Plan, New			14	
Pesticides, Emergency Plan and Contacts			2	
Pesticides, Label Compliance			2	
Pesticides, Mixing and Loading In Field			2	
Portion of Animal Feed Produced On Farm			2	
Soil Erosion Controlled		6,492		



MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Soil Testing, Representative Sampling			2	
Soil Testing, Triennial			8	
Soil, Nutrient Records		487		
Soil, pH Maintenance		133		
Special Sites Protected			1	
Storage, Appropriate Tanks			15	
Storage, Signage			7	
Storage, Spill Kit			2	
Veterinary Product and Waste Disposal			1	
Waste, Floor Drains			3	
Water, Protected From Pesticide Contamination			3	
Well Decommissioned			7	
Well Tests, Every Three Years			30	
Well Tests, Health Standards			19	
<b>Van Buren</b>		<b>2,001.5</b>	<b>293</b>	
Anti-Backflow Device Installed			2	
Biosolids, Nutrient Application Rates			1	
Biosolids, Nutrient Content Determination			1	
Chemigation, Anti-backflow Device			1	
Containers, Properly Rinsed			1	
Dead Animals Handled According to BODA			1	
Dead Animals, Composting Isolation Distance			1	
Drift Management Plan, New			20	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			3	
Emergency Plan, Fertilizer Revised			3	
Emergency Plan, Manure Spill, New			3	
Emergency Plan, Manure Spill, Revised			4	
Emergency Plan, New, Silage			2	
Emergency Plan, Pesticide New			12	
Emergency Plan, Pesticide Revised			4	
Emergency Plan, Revised, Tire Fire			1	
Environmentally Sensitive Areas Identified		984.5		
Farm Emergency Plan Developed and Followed, New			2	
Farm Emergency Plan Developed and Followed, Revised			2	
Fill Opening Separate From Vent Opening			4	
Impermeable Surface, Fuel			7	
Irrigation, Amount Determined Accurately			1	
Irrigation, Evaluation for Uniformity			4	
Irrigation, Fuel Tank Isolation			2	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			4	
Irrigation, Sock Wells Isolated			3	
Irrigation, System Evaluation			1	
Isolation Distances Met			14	
Livestock Management, NMP			1	
Manure Storage, Temporary Location			1	

<b>MAEAP Technical Assistance Summary: FY 2017 Through FY 2019</b>	<b>Units</b>		
<b>Practices Implemented By County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Manure, Management Records		1	
No Cross-Connections To Water, Isolation Distances Met		3	
Nutrient Management Records, Multiple		9	
Nutrients, All Sources Considered	200		
Odor Management Plan		5	
Pastures Have Current Soil Tests		1	
Pesticide Application, Recordkeeping		9	
Pesticide Drift Management Plan, New		8	
Pesticide Drift Management Plan, Revised		1	
Pesticide Handling, Field Mixing and Loading		1	
Pesticide Spill Kit Availability		3	
Pesticides, Application Recordkeeping		2	
Pesticides, Drift Management Plan, New		7	
Pesticides, Emergency Plan and Contacts		2	
Secondary Containment, Fuel		6	
Secondary Containment, Mix-Load		3	
Secondary Containment, Pesticides		3	
Soil and/or Tissue Testing, Quadrennial	382		
Soil Testing, Representative Sampling		20	
Soil Testing, Triennial		24	
Soil, Nutrient Records	85		
Soil, pH Maintenance	350		
Storage, Appropriate Tanks		5	
Storage, Buildings Setback		3	
Storage, Capacity		2	
Storage, Elevation		4	
Storage, Portable Fueling		1	
Storage, Security		6	
Storage, Signage		15	
Storage, Spill Kit		11	
Storage, Spill Protection		3	
Well Construction		4	
Well Decommissioned		6	
Well Inspected		4	
Well Tests, Every Three Years		12	
Well Tests, Health Standards		1	
<b>Washtenaw</b>	<b>24,551.0</b>	<b>525</b>	<b>45,001</b>
Adequate Land Base for Nutrients		2	
No Adverse Impact To Endangered/Threatened Species		6	
All Habitat Types Identified and Mapped In LMP	10.1	7	
Altered Wetlands Assessed For Restoration		6	
Anti-Backflow Device Installed		8	
Rare And Sensitive Species And Habitats Protected		6	
Bogs And Fens Identified And RMZs Established		4	
Chemigation Interlock and Safety Systems		1	
Cover Crop Use	60		
Crop Yields, Realistic Goals		1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Dead Animals Handled According to BODA			7	
Delivery, Just In Time			1	
Drift Management Plan, New			5	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			7	
Emergency Plan, Manure Spill, New			10	
Emergency Plan, Manure Spill, Revised			2	
Emergency Plan, New, Silage			3	
Emergency Plan, Pesticide New			10	
Environmentally Sensitive Areas Identified		10,890.5		
Equipment, Parking and Storage			1	
Equipment, Properly Cleaned and Rinsed			3	
Erosion Controlled, Site		420		
Excess Product, Label Rates			4	
Fertilizer Records Maintained			1	
Fertilizer Stock Tank Leak Protection			1	
Fertilizer, Application Equipment Calibration			1	
Fertilizer, Determination of Rates			10	
Forestation Achieves Adequate Stocking Levels			2	
Forestry Management Plan, New			2	
Impermeable Surface, Fuel			3	
Invasive Species Identified And Managed		10.1	3	
IPM Used To Control Pests		10.1	2	
Irrigation Records Maintained			1	
Irrigation, Evaluation for Uniformity		150		
Irrigation, Excessive Applications Avoided			1	
Irrigation, Rain Gauges in Fields			2	
Irrigation, Record Keeping			3	
Isolation Distances Met			13	
Land Management Plan, New			5	
Large Quantity Water Withdrawal Registered			3	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			9	
Livestock Management, Siting			1	
Livestock Yard, Manure Scrape and Haul			1	
Livestock Yard, Runoff Management			1	
Livestock Yard, Surface Water Setback			5	
LMP Allows for Active and Adaptive Management			5	
LMP Identifies All Resource Concerns			5	
LMP Includes Details of Desired Future Conditions			4	
LMP Includes Landowner Objectives			5	
LMP Prepared By Professional Natural Resource Manager			5	
LQW Water Use Reported.			3	
Manure Application, MARI Completed		216	1	
Manure Application, Rate Determination			13	
Manure Application, Rates Do Not Exceed Crop N Needs			1	
Manure Application, Rates Do Not Exceed Crop P Needs			1	

<b>MAEAP Technical Assistance Summary: FY 2017 Through FY 2019</b>	<b>Units</b>		
<b>Practices Implemented By County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Manure Applications, Weather Forecasts Monitored		1	
Manure Storage, Capacity			1
Manure Storage, Field Stacked Duration		1	
Manure Storage, Temporary Duration		4	
Manure Storage, Temporary Location		3	
Manure, Application Rates Do Not Exceed Crop N Needs	208.5		
Manure, Application Rates Do Not Exceed Crop P Needs	33		
Manure, Management Records		6	
Manure, Nutrient Content Determination		11	
Manure, Winter Application Procedure	384		
Nutrient Management Plans, Annual By Field	1,061		
Nutrients, All Sources Considered		2	
Odor Management Plan		12	
Other Environmental Risks Resolved		1	
P Fertilizer, Dilute Wastewater Managed Appropriately		1	
P Fertilizer, Rate Determination		4	
Pasture Soil Tested		8	
Pastures Have Current Soil Tests		15	
Pesticide Spill Kit Availability		9	
Pesticides Used And Stored According To EPA, SSWQPs		2	
Pesticides, Application Recordkeeping		1	
Pesticides, Drift Management Plan, New		9	
Pesticides, Drift Management Plan, Revised		1	
Pesticides, Emergency Plan and Contacts		2	
Pesticides, Equipment Calibration		2	
Timber Management And Habitat Conflicts Addressed		2	
Prescribed Burnings Follow Approved FMP And Conform To SSWQPs		1	
Property Boundaries Known And Marked		1	
Restoration Potential Assessed For Non-Forested/Non-Wetland Habitats	10	2	
RTF Site Selection and Odor-Control GAAMPS Met		1	
Secondary Containment, Fuel		2	
Secondary Containment, Leaks and Precipitation			7,500
Secondary Containment, Mix-Load			7,500
Secondary Containment, Pesticides		3	
Septic, Designed Use		2	
Septic, Isolation Distances Met		1	
Septic, Pumping		1	
Site Monitored Annually For Changes		2	
Soil Erosion Controlled	9,113.7		
Soil Testing, Representative Sampling	200	27	
Soil Testing, Triennial	222	37	
Soil, Nutrient Records	1,352		
Soil, pH Maintenance	200		
Special Sites Protected		4	
Storage, Application Equipment		3	
Storage, Appropriate Tanks		1	
Storage, Decommissioned		4	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Storage, Designed Use			1	
Storage, Fertilizer Liquid				7,500
Storage, Isolated From Other Products				7,500
Storage, Poly Tanks			1	
Storage, Regular Inspection			6	7,500
Storage, Security			8	
Storage, Signage			7	
Storage, Spill Kit			20	
Storage, Valves and Hoses			1	7,500
Veterinary Product and Waste Disposal			1	
Waste, Floor Drains			3	
Waste, Isolation Distances Met			1	
Waste, Recycling and Disposal			15	
Water Bodies Identified And Riparian Management Zones Established			6	
Well Construction			2	
Well Inspected			1	
Well Repaired to Standards			3	
Well Setback, Manure Sources			4	
Well Tests, Every Three Years			26	
Well Tests, Health Standards			21	
<b>Wayne</b>		<b>546</b>	<b>80</b>	
Adequate Land Base for Nutrients			1	
No Adverse Impact To Endangered/Threatened Species			1	
Anti-Backflow Device Installed			1	
Rare And Sensitive Species And Habitats Protected			1	
Dead Animals Handled According to BODA			1	
Emergency Plan, Pesticide New			1	
Environmentally Sensitive Areas Identified		154		
Erosion Controlled, Site		235		
Fertilizer Records Maintained			1	
Fertilizer, Determination of Rates			3	
Impermeable Surface, Fuel			3	
Invasive Species Identified And Managed			1	
IPM Used To Control Pests			1	
Irrigation Discharge Managed			2	
Irrigation Records Maintained			3	
Irrigation, Rain Gauges in Fields			4	
Irrigation, Record Keeping			3	
Irrigation, Runoff and Ponding Minimized			1	
Isolation Distances Met			2	
Land Management Plan, New			1	
LMP Includes Details of Desired Future Conditions			1	
LMP Prepared By Professional Natural Resource Manager			1	
Manure Storage, Isolation Distances Met			1	
Manure Storage, Temporary Location			1	
Nutrient Management Plans, Annual By Field		6		
Nutrients, All Sources Considered			1	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
Other Environmental Risks Resolved			12	
P Fertilizer, Rate Determination			5	
Pesticides, Drift Management Plan, New			1	
Pesticides, Label Compliance			1	
Timber Management And Habitat Conflicts Addressed			1	
Secondary Containment, Fertilizer			1	
Secondary Containment, Pesticides			1	
Soil Erosion Controlled		8		
Soil Testing, Representative Sampling			2	
Soil Testing, Triennial		140	15	
Soil, Nutrient Records		3		
Storage, Security			1	
Storage, Signage			1	
Storage, Spill Kit			1	
Waste, Recycling and Disposal			1	
Water Bodies Identified And Riparian Management Zones Established			1	
<b>Wexford</b>		<b>2,172</b>	<b>122</b>	
Adequate Land Base for Nutrients			1	
Cover Crop Use		300		
Dead Animals Handled According to BODA			2	
Drift Management Plan, New			4	
Drift Management Plan, Revised			1	
Emergency Plan, Fertilizer New			3	
Emergency Plan, Fertilizer Revised			1	
Emergency Plan, Manure Spill, New			5	
Emergency Plan, Manure Spill, Revised			1	
Emergency Plan, New, Silage			3	
Emergency Plan, New, Tire Fire			2	
Emergency Plan, Pesticide New			4	
Emergency Plan, Pesticide Revised			2	
Emergency Plan, Revised, Tire Fire			2	
Environmentally Sensitive Areas Identified		1,231		
Habitat for Native Pollinators			1	
Impermeable Surface, Fuel			5	
Irrigation, Rain Gauges in Fields			1	
Irrigation, Record Keeping			1	
Isolation Distances Met			4	
Livestock Management, NMP			1	
Livestock Management, Recordkeeping			2	
Livestock Management, Siting			1	
Manure Application, MARI Completed			1	
Manure Storage, Liquid Storage Design and Installation			2	
Manure, Management Records			1	
Manure, Nutrient Content Determination			4	
Nutrient Management Plans, Annual By Field		21		
Odor Management Plan			3	
Pasture Soil Tested			4	

<b>MAEAP Technical Assistance Summary: FY 2017 Through FY 2019</b>	<b>Units</b>		
<b>Practices Implemented By County</b>	<b>Acres</b>	<b>Each</b>	<b>Gallon</b>
Pastures Have Current Soil Tests		1	
Pesticide Spill Kit Availability		4	
Pesticides, Drift Management Plan, New		1	
Pesticides, Drift Management Plan, Revised		1	
Pesticides, Emergency Plan and Contacts		2	
Secondary Containment, Fuel		5	
Secondary Containment, Leaks and Precipitation		1	
Secondary Containment, Mix-Load		1	
Secondary Containment, Pesticides		2	
Soil Erosion Controlled	600		
Soil Testing, Representative Sampling		1	
Soil Testing, Triennial		5	
Soil, Nutrient Records	20		
Storage, Appropriate Tanks		4	
Storage, Dedicated		2	
Storage, Isolated From Other Products		1	
Storage, Monitored for Leaks		1	
Storage, Signage		1	
Storage, Spill Kit		7	
Veterinary Product and Waste Disposal		5	
Well Inspected		1	
Well Tests, Every Three Years		7	
Well Tests, Health Standards		7	
<b>Grand Total</b>	<b>598,557</b>	<b>13,118</b>	<b>6,819,327</b>

<b>TOTAL NUMBER OF PRACTICES IMPLEMENTED, FY 2017 - FY 2019</b>	<b>12,664</b>
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## **TOTAL MAEAP ENVIRONMENTAL OUTCOMES**

Information collected from MAEAP verified farms used to calculate environmental outcomes:

	<b><u>Totals:</u></b>
Acres included in a nutrient plan or CNMP	<b>1,101,508</b>
Linear feet of buffer/filter strips	<b>1,943,882</b>
Acres of cover crops	<b>213,871</b>
Acres of conservation tillage	<b>535,297</b>
Acres of no-till, zone till, or grass cover	<b>355,591</b>
Number of gullies stabilized	<b>3,875</b>
Feet of livestock exclusion	<b>311,514</b>
Size of silage pad in acres	<b>139</b>
Acres of Pest Management Plans	<b>1,271,907</b>

This data was then compiled from MAEAP farms verified, and the following totals were calculated:

Sediment reduced: **1,629,547** tons

Phosphorus reduced: **2,704,718** pounds

Nitrogen reduced: **5,859,353** pounds

Biochemical Oxygen Demand (BOD) (5-day) from silage leachate: **8,188,086** pounds





# Total MAEAP Verifications

**Note: Fiscal Year = Oct. 1 - Sept. 30**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	FY2020	Totals	<i>FY 2020 Goal</i>
<b>Livestock</b>	9	7	35	55	74	17	19	15	24	20	68	73	84	98	79	90	87	66	51	971	
<b>Farmstead</b>		3	20	34	62	53	52	65	36	55	112	193	202	239	222	200	179	163	118	2008	
<b>Cropping</b>				18	40	47	52	63	56	81	158	268	256	286	255	223	186	223	148	2360	
<b>FWH</b>															81	129	59	81	75	425	
<b>Totals:</b>	9	10	55	107	176	117	123	143	116	156	338	534	542	623	637	642	511	533	392	5764	500
<b>Total Verifications</b>	9	19	74	181	357	474	597	740	856	1012	1350	1884	2426	3049	3686	4328	4839	5372	5764		
<b>Livestock Reverification</b>				2	7	23	9	11	28	35	28	56	36	62	29	17	62	71	64	540	
<b>Farmstead Reverification</b>				1	3	12	23	23	44	54	97	85	73	143	49	21	152	172	149	1101	
<b>Cropping Reverification</b>				0	2	3	13	19	37	47	67	89	90	167	63	21	173	222	170	1183	
<b>FWH Reverification</b>																			1	1	
<b>Totals:</b>				3	12	38	45	53	109	136	192	230	199	372	141	59	387	465	384	2825	550
<b>Total Reverifications</b>				3	15	53	98	151	260	396	588	818	1017	1389	1530	1589	1976	2441	2825		

Comment: FY 20 Goal  
500 New  
550 Reverifications  
Based on 42 MAEAP Techs

# All Verifications, Reverifications, Unique Sites Breakdown By County



## All Verifications, Reverifications and Unique Sites Breakdown By County

County	CAS	FAS	LAS	FWH	New Vers	CAS RV	FAS RV	LAS RV	FWH RV	Rever	Total New and RV	Unique Sites
Alcona	13	12	9	1	35	2	1	2	0	5	40	14
Alger	12	8	5	6	31	7	4	1	0	8	39	19
Allegan	121	82	49	7	259	36	21	37	0	94	353	170
Alpena	22	24	17	2	65	3	3	3	0	9	73	26
Antrim	17	22	5	3	47	23	30	6	0	59	106	24
Arenac	3	0	0	1	4	0	0	0	0	0	4	2
Baraga	1	1	1	0	3	0	0	0	0	0	3	1
Barry	15	20	18	7	60	9	11	12	0	32	102	35
Bay	19	16	1	0	36	14	14	0	0	28	64	27
Benzie	14	15	2	2	33	4	8	1	0	13	46	18
Berrien	88	59	15	1	163	30	18	1	0	49	212	106
Branch	25	28	19	0	72	14	11	9	0	32	106	41
Calhoun	28	24	11	1	64	3	8	13	0	24	88	39
Cass	56	59	38	9	162	8	21	9	0	38	200	94
Charlevoix	19	19	9	5	60	12	6	4	0	23	82	23
Cheboygan	10	11	5	1	27	6	11	2	0	19	46	14
Chippewa	32	30	20	4	86	7	8	5	0	20	106	33
Clare	10	13	10	2	35	7	15	7	0	29	64	19
Clinton	40	35	18	9	102	28	25	8	0	61	163	53
Crawford	3	4	4	1	12	0	0	0	0	0	12	5
Delta	12	12	11	90	125	9	9	5	0	23	148	75
Dickinson	3	4	3	0	10	1	1	1	0	3	13	4
Eaton	26	30	15	4	75	18	20	5	0	43	118	37
Emmet	20	18	4	0	42	8	8	2	0	18	60	19
Genesee	28	35	13	2	78	8	20	2	0	29	107	43
Gladwin	10	11	8	3	32	4	2	3	0	9	41	13
Gogebic	1	1	1	0	3	0	0	0	0	0	3	1
Grand Traverse	48	49	5	0	102	33	47	2	0	82	184	57
Gratiot	40	37	23	4	104	9	17	20	0	46	150	56

## All Verifications, Reverifications, Unique Sites Breakdown By County

**Total  
New  
and RV**

**Unique  
Sites**

County	CAS	FAS	LAS	FWH	New	CAS RV	FAS RV	LAS RV	FWH RV	Rever	Total New and RV	Unique Sites
Hillsdale	58	38	31	8	<b>235</b>	40	23	26	0	<b>89</b>	<b>222</b>	<b>89</b>
Houghton	0	0	0	0	<b>0</b>	0	0	0	0	<b>0</b>	<b>0</b>	<b>0</b>
Huron	88	43	46	8	<b>185</b>	97	36	38	0	<b>171</b>	<b>356</b>	<b>133</b>
Ingham	30	44	21	3	<b>98</b>	6	18	11	0	<b>35</b>	<b>133</b>	<b>57</b>
Ionia	26	25	29	1	<b>81</b>	9	11	21	0	<b>41</b>	<b>122</b>	<b>41</b>
Iosco	8	6	4	2	<b>20</b>	2	3	0	0	<b>5</b>	<b>25</b>	<b>10</b>
Iron	0	0	0	0	<b>0</b>	0	0	0	0	<b>0</b>	<b>0</b>	<b>0</b>
Isabella	31	23	18	1	<b>73</b>	23	17	4	0	<b>44</b>	<b>117</b>	<b>40</b>
Jackson	35	24	12	3	<b>74</b>	11	15	7	0	<b>33</b>	<b>105</b>	<b>37</b>
Kalamazoo	49	52	22	3	<b>126</b>	23	28	16	0	<b>67</b>	<b>193</b>	<b>76</b>
Kalkaska	8	13	4	0	<b>25</b>	6	8	1	0	<b>15</b>	<b>40</b>	<b>15</b>
Kent	41	41	9	2	<b>93</b>	16	15	8	0	<b>36</b>	<b>129</b>	<b>55</b>
Keweenaw	0	0	0	0	<b>0</b>	0	0	0	0	<b>0</b>	<b>0</b>	<b>0</b>
Lake	7	9	5	10	<b>31</b>	3	1	1	0	<b>5</b>	<b>36</b>	<b>14</b>
Lapeer	64	56	32	6	<b>158</b>	7	7	6	0	<b>20</b>	<b>178</b>	<b>73</b>
Leelanau	49	53	4	8	<b>114</b>	24	48	2	0	<b>73</b>	<b>187</b>	<b>65</b>
Lenawee	103	58	26	13	<b>202</b>	42	22	8	0	<b>71</b>	<b>273</b>	<b>138</b>
Livingston	7	6	0	3	<b>16</b>	2	6	1	0	<b>9</b>	<b>25</b>	<b>13</b>
Luce	4	4	0	1	<b>9</b>	0	0	0	0	<b>0</b>	<b>9</b>	<b>4</b>
Mackinac	1	1	1	4	<b>7</b>	0	0	0	0	<b>0</b>	<b>7</b>	<b>6</b>
Macomb	32	26	9	0	<b>67</b>	8	11	2	0	<b>21</b>	<b>88</b>	<b>43</b>
Manistee	11	9	3	7	<b>30</b>	2	1	0	0	<b>3</b>	<b>30</b>	<b>15</b>
Marquette	7	4	4	22	<b>37</b>	0	0	0	1	<b>1</b>	<b>35</b>	<b>16</b>
Mason	55	44	11	5	<b>115</b>	27	23	2	0	<b>52</b>	<b>166</b>	<b>65</b>
Mecosta	23	23	22	10	<b>78</b>	6	7	21	0	<b>34</b>	<b>112</b>	<b>42</b>
Menominee	9	7	6	16	<b>38</b>	6	6	5	0	<b>17</b>	<b>55</b>	<b>22</b>
Midland	13	8	7	0	<b>28</b>	8	2	2	0	<b>12</b>	<b>40</b>	<b>14</b>
Missaukee	37	33	26	0	<b>96</b>	26	20	18	0	<b>64</b>	<b>160</b>	<b>42</b>
Monroe	53	28	14	10	<b>99</b>	18	8	5	0	<b>31</b>	<b>130</b>	<b>82</b>
Montcalm	23	22	11	16	<b>72</b>	8	7	3	0	<b>18</b>	<b>90</b>	<b>43</b>
Montmorency	7	7	5	1	<b>20</b>	2	2	2	0	<b>6</b>	<b>26</b>	<b>7</b>
Muskegon	24	23	13	1	<b>61</b>	16	20	20	0	<b>56</b>	<b>117</b>	<b>33</b>
Newaygo	18	22	13	1	<b>54</b>	2	9	12	0	<b>23</b>	<b>68</b>	<b>24</b>
Oakland	11	7	3	0	<b>21</b>	4	4	0	0	<b>8</b>	<b>29</b>	<b>11</b>

# All Verifications, Reverifications, Unique Sites Breakdown By County

**Total  
New  
Unique**

County	CAS	FAS	LAS	FWH	New	CAS RV	FAS RV	LAS RV	FWH RV	Rever	and RV	Sites
Oceana	77	69	13	5	<b>163</b>	85	65	7	0	<b>157</b>	<b>320</b>	<b>96</b>
Ogemaw	8	4	4	5	<b>21</b>	1	2	1	0	<b>4</b>	<b>25</b>	<b>10</b>
Ontonagon	0	0	0	1	<b>1</b>	0	0	0	0	<b>0</b>	<b>1</b>	<b>1</b>
Osceola	40	43	26	17	<b>126</b>	26	39	18	0	<b>83</b>	<b>209</b>	<b>74</b>
Oscoda	4	4	4	2	<b>14</b>	0	0	0	0	<b>0</b>	<b>14</b>	<b>4</b>
Otsego	10	11	4	2	<b>27</b>	4	7	1	0	<b>12</b>	<b>39</b>	<b>12</b>
Ottawa	45	48	36	5	<b>134</b>	35	37	35	0	<b>107</b>	<b>241</b>	<b>76</b>
Presque Isle	6	6	3	4	<b>19</b>	0	1	0	0	<b>1</b>	<b>20</b>	<b>2</b>
Roscommon	8	6	8	0	<b>22</b>	5	2	3	0	<b>10</b>	<b>32</b>	<b>4</b>
Saginaw	50	40	11	4	<b>105</b>	20	17	2	0	<b>39</b>	<b>142</b>	<b>59</b>
Sanilac	80	46	21	7	<b>154</b>	47	18	10	0	<b>75</b>	<b>229</b>	<b>120</b>
Schoolcraft	2	2	2	29	<b>35</b>	0	0	0	0	<b>0</b>	<b>35</b>	<b>20</b>
Shiawassee	68	59	14	10	<b>151</b>	43	46	2	0	<b>91</b>	<b>242</b>	<b>91</b>
St. Clair	45	32	8	2	<b>87</b>	20	16	2	0	<b>38</b>	<b>125</b>	<b>56</b>
St. Joseph	25	26	13	2	<b>66</b>	9	12	11	0	<b>32</b>	<b>98</b>	<b>46</b>
Tuscola	88	60	18	20	<b>186</b>	52	42	13	0	<b>107</b>	<b>293</b>	<b>122</b>
Van Buren	82	66	11	2	<b>161</b>	39	37	4	0	<b>78</b>	<b>239</b>	<b>100</b>
Washtenaw	45	33	22	15	<b>97</b>	20	8	5	0	<b>33</b>	<b>148</b>	<b>58</b>
Wayne	22	14	3	4	<b>43</b>	2	2	0	0	<b>4</b>	<b>47</b>	<b>27</b>
Wexford	12	26	14	3	<b>55</b>	2	8	5	0	<b>15</b>	<b>70</b>	<b>22</b>

Unique Sites Total **3381**

**Michigan Department of Agriculture and Rural Development**  
**Michigan Agriculture Environmental Assurance Program**  
Forest, Wetlands, and Habitat Systems Subcommittee  
Summary of 2020 Proposed Amendments to Forest, Wetlands, and Habitat\*A\*Syst

Number	Reason for Change
Entire Document	Change the current “Records or Evidence for MAEAP Verification” column heading to “Reference Information”. The reference tables are a great addition to the FWH document, but there is confusion due to the existing heading.
Definition Section	Remove U.S. Fish and Wildlife Service & DEQ. Retain Land Management Plan.
Legal Citations	Add: #21: Public Health Code, Act 368 of 1978    Part 127: Water Supply and Sewer Systems Remove: #6 – not a necessary legal citation & not used anywhere in the tool.
Reference Fact Sheet	Remove this section. This information is covered in Table 2. Also removes web-links that often go bad.
Additional Resources	<p><b>Edit B:</b> Add to Description: Michigan Department of Environment, Great Lakes, and Energy (EGLE) Wetlands Map Viewer</p> <p><b>Add to EE:</b> Master Logger Certification</p> <p><b>Edit HH:</b> Remove this resource, no longer available. Falls under Fisheries Habitat Program.</p> <p><b>Edit II:</b> Michigan DNR Fisheries Habitat Grant Program</p> <p><b>Edit W:</b> Include: MDARD list of qualified foresters by County, USDA NRCS TSP, SAF CF, Association of Consulting Foresters, Certified FSP plan writer, Certified Wildlife Biologist, Michigan DNR Registered Forester, An individual recognized by MDARD to write LMP’s. Description: MDARD, USDA NRCS, Society of American Foresters, Association of Consulting Foresters, The Wildlife Society, Michigan DNR.</p> <p><b>Add MM:</b> Information for Planning and Consultation (IPaC). Description: U.S Fish &amp; Wildlife Service Provides a great resource to see if any listed species, critical habitat, migratory birds or other natural resources may be impacted by a project in a specified area.</p> <p><b>Add NN:</b> USDA NRCS Web Soil Survey. Description: USDA. User can create a soil map and generate soil reports here.</p> <p><b>Add OO:</b> Michigan State University Extension. Description: Michigan State University. MSUE features programming and resources for Agriculture, Business &amp; Community, Family, Food &amp; Health, Lawn &amp; Garden, Natural Resources and 4-H &amp; Youth.</p>
1.00	Misprint in Records column; change “compliant” to “complaint”. Add “at this property” to the end of the question. Add legal citations 12 & 20.
1.02	Change the risk question wording to: “Does the Land Management Plan (LMP) adequately address the landowner’s objectives and priorities relating to forests and wetlands, as well as wildlife and associated habitats?”
1.03	Re-worded risk question to more effectively communicate the question.
1.04	Removed the list of natural resource professionals and added the information to reference W.

1.06	Added text to the medium risk box to add additional information to the assessment.
1.07	Greatly altered the question and risk assessments. We really just want to know if SHPO has been checked. Added a reference.
1.07b	We are hoping to call out any specific areas of interest or special nature that the landowner might have that would not be included in any public documents like those of the State Historic Preservation Office.
1.08	Change wording to not use “compliant” and “prescribed”, which give the impression that this is a legal obligation. The BMPs are voluntary and outline methods that should help landowners to avoid actual non-compliance with the legal standards.
1.10b	Added question about unused wells.
1.15	Change wording to include, if fertilizer or other nutrients are applied.
1.15b	Added a question about soil type identification and mapping.
1.16	Re-worded question to add clarity.
1.18	Altered the question so it would incorporate what is outlined in the LMP to address unwanted pests, pathogens and vegetation.
1.19, 1.20 & 1.21	Re-order questions. New order: 1.20, 1.21 & 1.19. Remove ‘species’ from OLD 1.21; this question discusses habitat, not an individual species.
NEW 1.19	Add legal footnote 3 (Michigan Threatened and Endangered Species)
1.23	Remove question. Timber and habitat priorities are address in more detail elsewhere in the document. (1.02, 1.04, 1.17)
1.28	Low Risk Question needs to be boxed. I believe this was an error as it used to be boxed. Added a medium risk and boxed it.
2.10	Simplified the question to make it more direct. Added a few items to the additional resources.
4.01	Question was edited to move the emphasis of the question to better evaluate non-forested upland habitats.
4.02	Question was edited to bring our attention to any activities that may have required a permit within a critical dune area.

Forest, Wetlands, and Habitat Systems Subcommittee  
2020 Recommended Changes to Forest, Wetlands, and Habitat\* A\* Syst

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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
<b>AIR, WATER AND SOIL PROTECTION</b>					
1.00) Has there ever been a formal Right to Farm or Right to Forest complaint?	There has never been a Right to Farm or Right to Forest complaint or the complaint was not verified, or the concern was resolved.		There was a formal Right to Farm or Right to Forest complaint and the concern was not resolved.	Producer's verbal indication of compliant history.	

**PROPOSED CHANGE PROPOSED CHANGE & NOTES:**

**1.00)** Add, at this property. Grammar check in records column.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
<b>AIR, WATER AND SOIL PROTECTION</b>					
1.00) Has there ever been a formal Right to Farm or Right to Forest complaint <b>at this property?</b>	There has never been a Right to Farm or Right to Forest complaint or the complaint was not verified, or the concern was resolved.		There was a formal Right to Farm or Right to Forest complaint and the concern was not resolved. <b>12 &amp; 20</b>	Producer's verbal indication of <b>complaint</b> history.	

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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
<b>AIR, WATER AND SOIL PROTECTION</b>					
1.02) Does the Land Management Plan (LMP) adequately address the landowner's priorities relating to forests, wetlands, and/or fish, wildlife and their associated habitats?	Landowner objectives are in writing and outlined in the LMP.		Landowner has objectives, but not in writing	Landowner has not considered objectives.	

**PROPOSED CHANGE PROPOSED CHANGE & NOTES:**

**1.02)** Change the risk question wording to: "Does the Land Management Plan (LMP) adequately address the landowner's objectives and priorities relating to forests and wetlands, as well as wildlife and associated habitats?"

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
<b>AIR, WATER AND SOIL PROTECTION</b>					
1.02) Does the Land Management Plan (LMP) adequately address the landowner's objectives and priorities relating to forests and wetlands, as well as wildlife and associated habitats?"	Landowner objectives are in writing and outlined in the LMP.		Landowner has objectives, but not in writing	Landowner has not considered objectives.	



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2020 Recommended Changes to Forest, Wetlands, and Habitat\* A\* Syst

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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
<b>AIR, WATER AND SOIL PROTECTION</b>					
1.03) Is the Land Management Plan (LMP) active and adaptive (e.g., responding to natural events, change in objectives or in resource conditions) and address specific desired future conditions?	LMP is active and adaptive in case goals or resource conditions change and includes details of desired future conditions for each management unit.	LMP allows no active and adaptive management and/or general information about desired future conditions is included, but they are not specific to each management unit.	LMP allows no active and adaptive management and/or general information about desired future conditions is included, but they are not specific to each management unit.		

**PROPOSED CHANGE PROPOSED CHANGE & NOTES:**

**1.03)** Re-worded risk question to more effectively communicate the 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
<b>AIR, WATER AND SOIL PROTECTION</b>					
1.03) Does the Land Management Plan (LMP) address specific desired future conditions, and is it adaptive in response to future events or changing objectives?	(LMP) address specific desired future conditions and is adaptive in response to future events or changing objectives.	LMP addresses active and adaptive management and/or general guidance about desired future conditions is included, but they are not specific to each management unit.	No information about desired future conditions is in the LMP.		

Forest, Wetlands, and Habitat Systems Subcommittee  
2020 Recommended Changes to Forest, Wetlands, and Habitat\* A\* Syst

**CURRENT DOCUMENT**

<b>1.04)</b> Is the Land Management Plan (LMP) based on professional guidance and science?	LMP was prepared by a natural resource professional such as a forester certified by the Society of American Foresters, a Forest Stewardship plan writer, a technical service provider as registered by the USDA-NRCS, a registered forester, wildlife biologist, or an individual recognized by MDARD to write LMPs.	LMP was prepared by a nonprofessional.	Landowner does not have an LMP.	MDARD List of Qualified Foresters by County  or  USDA NRCS Technical Service Provider Registry.  Table 2: W
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**PROPOSED CHANGE PROPOSED CHANGE & NOTES:**

**1.04)** Removed the list of natural resource professionals and added the information to reference W.

<b>1.04)</b> Is the Land Management Plan (LMP) based on professional guidance and science?	<b>Yes, LMP is based on professional guidance and science.</b> <del>was prepared by a natural resource professional such as a forester certified by the Society of American Foresters, a Forest Stewardship plan writer, a technical service provider as registered by the USDA-NRCS, a registered forester, wildlife biologist, or an individual recognized by MDARD to write LMPs.</del>	<del>LMP was prepared by a nonprofessional.</del>	Landowner does not have an LMP.	<del>MDARD List of Qualified Foresters by County</del>  <del>USDA NRCS Technical Service Provider Registry.</del>  Michigan DNR Registered Forester Program  Table 2: W
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Forest, Wetlands, and Habitat Systems Subcommittee  
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<b>1.06)</b> Are property boundaries known and marked?	Property boundaries are known and were established by a licensed surveyor.		Property boundaries are not known.		
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**PROPOSED CHANGE PROPOSED CHANGE & NOTES:**

**1.06)** Added text to the medium risk box to add additional information to the assessment.

<b>1.06)</b> Are property boundaries known and marked?	Property boundaries are known and were established by a licensed surveyor.	Property boundaries have been agreed upon by landowner and neighbors, but no official survey has been conducted	Property boundaries are not known.		
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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
<b>AIR, WATER AND SOIL PROTECTION</b>					
1.07) Are historical or archaeological artifacts or areas located on the site and addressed in the plan?	Landowner minimizes impact to sites and, if applicable, contacts the State Historic Preservation Office for technical assistance in historic site preservation.	Landowner minimizes impact to site.	Landowner does not minimize impact to site.	State Archaeologist, State Historic Preservation Office of Michigan Table 2: M	

**PROPOSED CHANGE PROPOSED CHANGE & NOTES:**

**1.07)** Greatly altered the question and risk assessments. We really just want to know if SHPO has been checked. Added a reference.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
<b>AIR, WATER AND SOIL PROTECTION</b>					
<del>1.07) Are historical or archaeological artifacts or areas located on the site, and addressed in the plan?</del>  Has the State Historic Preservation Office (SHPO) been contacted and the database checked for property covered under this LMP?	<del>Landowner minimizes impact to sites and, if applicable, contacts the State Historic Preservation Office for technical assistance in historic site preservation.</del>  SHPO has been checked, results are found in the LMP and, if applicable, the landowner minimizes impact to the site.	<del>Landowner minimizes impact to site.</del>  SHPO has been checked, results are found in the LMP, however, the landowner does not minimize impact to the site.	<del>Landowner does not minimize impact to site.</del>  SHPO has not been checked.	State Archaeologist, State Historic Preservation Office of Michigan  Table 2: M & D	

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**NEW QUESTION**

We are hoping to call out any specific areas of interest or special nature that the landowner might have that would not be included in any public documents like those of the State Historic Preservation Office.

**\*To be placed after 1.07.**

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
<b>AIR, WATER AND SOIL PROTECTION</b>					
1.07b) Are any special sites designated by the landowner on this property?	If yes, the special site(s) has been identified, documented in the LMP and landowner minimizes impact to the site.		If yes, the special site(s) has been identified, but not documented in the LMP and landowner minimizes impact to the site.		

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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
<b>AIR, WATER AND SOIL PROTECTION</b>					
1.08) Is the landowner compliant with practices prescribed in Michigan Forestry Best Management Practices for Soil and Water Quality?	Yes.		No.	Michigan Forestry Best Management Practices for Soil and Water Quality. Table 2: C	

**PROPOSED CHANGE PROPOSED CHANGE & NOTES:**

**1.08)** Change wording to not use “compliant” and “prescribed”, which give the impression that this is a legal obligation. The BMPs are voluntary and outline methods that should help landowners to avoid actual non-compliance with the legal standards.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
<b>AIR, WATER AND SOIL PROTECTION</b>					
1.08) <del>Does the landowner follow the Michigan Forestry Best Management Practices for Soil and Water Quality?</del> <del>Is the landowner compliant with practices prescribed in Michigan Forestry Best Management Practices for Soil and Water Quality?</del>	Yes.		No.	<del>Michigan Forestry Best Management Practices for Soil and Water Quality. Table 2: C</del>	

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**NEW QUESTION**

**\*To be placed after 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
<b>AIR, WATER AND SOIL PROTECTION</b>					
1.10b) Is there and unused well located on the property?	No unused well or abandoned well properly sealed.	<ul style="list-style-type: none"> <li>- Unused well temporarily abandoned properly: Meets minimum isolation distances.</li> <li>-Is disconnected from any water distribution piping</li> <li>-Has the top of the casing securely capped.</li> </ul>	<b>Unused, unsealed well located on site.</b> <sup>21</sup>	Unused well(s) properly sealed.	

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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
<b>AIR, WATER AND SOIL PROTECTION</b>					
<b>1.15)</b> 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 the 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.	

**PROPOSED CHANGE PROPOSED CHANGE & NOTES:**

**1.15)** Change wording to include, if fertilizer or other nutrients are applied.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
<b>AIR, WATER AND SOIL PROTECTION</b>					
<b>1.15) If fertilizer or other nutrients are applied, what</b> 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 the 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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**NEW QUESTION**

**\*To be placed after 1.15.**

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
<b>AIR, WATER AND SOIL PROTECTION</b>					
1.15b) Have soil types have been identified and mapped for property covered under this LMP?	Yes, they have been identified and mapped.		No, they have not been identified or mapped.	Table 2: NN	

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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
<b>AIR, WATER AND SOIL PROTECTION</b>					
<b>1.16)</b> Have resource concerns been identified in the Land Management Plan?	Yes, they have been identified.	Yes, they have been identified and there is intention to follow up.	No, they have not been identified.  OR  Yes, but no plan of action has been identified.		

**PROPOSED CHANGE PROPOSED CHANGE & NOTES:**

**1.16)** Re-worded question to add clarity.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
<b>AIR, WATER AND SOIL PROTECTION</b>					
<b>1.16)</b> Have resource concerns been identified in the Land Management Plan?	A site assessment occurred and no resource concerns were found or, Yes, resource concerns they have been identified and actions are being taken according to LMP recommendations.	Yes, resource concerns they have been identified and there is intention to follow up.	No, they have not been identified. A site assessment has not be conducted to search for Resource Concerns.  OR  Yes, resource concerns have been identified, but there is no plan of action has been identified. intention to follow up.		

Forest, Wetlands, and Habitat Systems Subcommittee  
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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
<b>AIR, WATER AND SOIL PROTECTION</b>					
<b>1.18)</b> How is management for pests, pathogens and unwanted vegetation taking place?	Integrated pest management for pests, pathogens and unwanted vegetation is in place.	Integrated pest management for pests, pathogens and unwanted vegetation is planned, but not yet implemented.	No pest management is conducted.	DNR Forest Stewardship Program  MSUE  Table 2: L	

**PROPOSED CHANGE PROPOSED CHANGE & NOTES:**

**1.18)** Altered the question so it would incorporate what is outlined in the LMP to address unwanted pests, pathogens and vegetation. Boxed medium risk.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
<b>AIR, WATER AND SOIL PROTECTION</b>					
<b>1.18)</b> <del>How is management</del> Does the LMP provide management strategies for addressing unwanted pests, pathogens and unwanted vegetation taking place?	Management strategies for integrated pest management for to address unwanted pests, pathogens and unwanted vegetation is in place addressed in the LMP and is being implemented.	Management strategies for integrated pest management to address unwanted pests, pathogens and vegetation is addressed in the LMP but not yet being implemented. Integrated pest management for pests, pathogens and unwanted vegetation is planned, but not yet implemented.	The LMP does not provide management strategies for addressing unwanted pests, pathogens and vegetation. No pest management is conducted.	Table 2: L, D & OO	

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**1.19, 1.20 & 1.21)** We would like to change the order of these questions. The new order should go: 1.20, 1.21 & 1.19. Added legal citation to NEW 1.19. Also provided edits in NEW 1.20 as well as a few new records/evidence in each 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
<b>HABITAT RESTORATION AND DEVELOPMENT</b>					
<b>1.19)</b> Is the land managed with consideration for migratory birds?	Land is managed to maintain and enhance migratory bird populations and habitat.	Land is managed without harm to migratory bird populations and habitat.	<b>Land is managed in a manner that is detrimental to migratory bird populations and habitat.<sup>4</sup></b>		
<b>1.20)</b> How are adverse impacts to federal- or state-listed threatened and endangered species avoided?	A database assessment and/or on-site inventory are completed. If listed species are thought to be present, then Best Management Practices (BMPs) are included in a Land Management Plan (LMP) and are properly implemented on the property.	A database assessment and/or on-site inventory are completed. If listed species are thought to be present, then BMPs are included in an LMP. At a minimum, no action is taken that will adversely impact the species or habitat.	No assessment has been completed, potential status of listed species on the property is unknown and no consideration of listed species is made when habitat is altered on the property.  OR  <b>Action is knowingly being taken that adversely impacts listed species.<sup>2</sup></b>	DNR Forest Stewardship Program  MSUE  Table 2: D and N	
<b>1.21)</b> How are rare or sensitive habitats addressed on the property?	A database assessment and/or on-site inventory are complete. If rare or sensitive species or habitats are thought to be present, especially Michigan Natural Features Inventory S1 and S2 types, then applicable management practices are included in a Land Management Plan (LMP) and are properly implemented on the property.	A database assessment and/or on-site inventory are complete. If rare or sensitive species or habitats are thought to be present, then Best Management Practices are included in an LMP. At a minimum, no action is taken that will adversely impact the species or habitat.	No assessment exists, potential status rare or sensitive species or habitats on the property are unknown and no consideration of these species or habitats are made when habitat is altered on the property.  OR  Action is knowingly being taken that adversely impacts the species or habitats.	DNR Forest Stewardship Program  MSUE  Table 2: D and N	

**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
<b>HABITAT RESTORATION AND DEVELOPMENT</b>					
<b>1.19)</b> How are adverse impacts to federal- or state-listed threatened and endangered species avoided?	A database assessment and/or on-site inventory are completed. If listed species are thought to be present, then Best Management Practices (BMPs) are included in a Land Management Plan (LMP) and are properly implemented on the property.	A database assessment and/or on-site inventory are completed. If listed species are thought to be present, then BMPs are included in an LMP. At a minimum, no action is taken that will adversely impact the species or habitat.	No assessment has been completed, potential status of listed species on the property is unknown and no consideration of listed species is made when habitat is altered on the property.  OR  <b>Action is knowingly being taken that adversely impacts listed species.<sup>2 &amp; 3</sup></b>	Table 2: A, D, N, MM & OO	
<b>1.20)</b> How are rare or sensitive habitats addressed on the property?	A database assessment and/or on-site inventory are complete. If rare or sensitive <del>species or</del> habitats are thought to be present, especially Michigan Natural Features Inventory S1 and S2 types, then applicable management practices are included in a Land Management Plan (LMP) and are properly implemented on the property.	A database assessment and/or on-site inventory are complete. If rare or sensitive <del>species or</del> habitats are thought to be present, then Best Management Practices are included in an LMP. At a minimum, no action is taken that will adversely impact the <del>species or</del> habitat.	No assessment exists, potential status rare or sensitive <del>species or</del> habitats on the property are unknown and no consideration of these <del>species or</del> habitats are made when habitat is altered on the property.  OR  Action is knowingly being taken that adversely impacts the <del>species or</del> habitats.	Table 2: A, D, N, MM & OO	
<b>1.21)</b> Is the land managed with consideration for migratory birds?	Land is managed to maintain and enhance migratory bird populations and habitat.	Land is managed without harm to migratory bird populations and habitat.	<b>Land is managed in a manner that is detrimental to migratory bird populations and habitat.</b> <sup>4</sup>	Table 2: A, D, N, MM & OO	

Forest, Wetlands, and Habitat Systems Subcommittee  
2020 Recommended Changes to Forest, Wetlands, and Habitat\* A\* Syst

**CURRENT DOCUMENT**

<b>1.23)</b> How are potential conflicts between timber management and desired habitat development resolved?	A Land Management Plan (LMP) clearly identifies landowner's goals and addresses both resources <u>and</u> is being implemented on the property.	An LMP clearly identifies landowner's goals and addresses both resources <u>but</u> is yet to be fully implemented on the property.	No LMP that adequately addresses the landowner's goals has been completed for the property.  OR  An LMP exists but it addresses only timber management or habitat management and not both.		
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**PROPOSED CHANGE PROPOSED CHANGE & NOTES:**

**1.23)** Remove question. Timber and habitat priorities are address in more detail elsewhere in the document. (See: 1.02, 1.04, 1.17, 1.24, 1.25) This question also seems a bit presumptuous that a conflict exists between timber management and habitat development that isn't needed.

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2020 Recommended Changes to Forest, Wetlands, and Habitat\* A\* Syst

**CURRENT DOCUMENT**

<b>1.28)</b> Does the landowner retain appropriate records for forest product harvests and other management activities?	Landowner retains appropriate records for forest product harvests and other management activities.		Landowner retains no records for forest product harvests and other management activities.		
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**PROPOSED CHANGE PROPOSED CHANGE & NOTES:**

**1.28)** Low Risk Question needs to be boxed. I believe this was an error as it used to be boxed. Added a medium risk and boxed it.

<b>1.28)</b> Does the landowner retain appropriate records for forest product harvests and other management activities?	Landowner retains appropriate records for forest product harvests and other management activities.	Landowner has no records but plans to retain appropriate records for future activities.	Landowner retains no records for forest product harvests and other management activities.		
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Forest, Wetlands, and Habitat Systems Subcommittee  
2020 Recommended Changes to Forest, Wetlands, and Habitat\* A\* Syst

**CURRENT DOCUMENT**

<b>2.10)</b> If timber harvesting is done, was a qualified logging professional used?	Timber harvesting is done by qualified logging professional.		No specific qualifications are required of logging contractors.	Sustainable Forestry Initiative  Qualified Logging Professionals and Michigan Association of Timbermen  Table 2: Y, and EE	
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**PROPOSED CHANGE PROPOSED CHANGE & NOTES:**

**2.10)** Simplified the question to make it more direct. Added master logger certification to the additional resources. SFI is not applicable.

<del><b>2.10)</b> If timber harvesting is done, was a qualified logging professional used?</del>  Is the landowner aware of logger credentialing programs?	<del>Timber harvesting is done by qualified logging professional.</del>  Yes.		<del>No specific qualifications are required of logging contractors.</del>  No.	<del>Sustainable Forestry Initiative</del>  <del>Qualified Logging Professionals and Michigan Association of Timbermen</del>  Table 2: Y, and EE	
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2020 Recommended Changes to Forest, Wetlands, and Habitat\* A\* Syst

**CURRENT DOCUMENT**

<b>4.01)</b> Are non-forested upland habitats being assessed for restoration potential by agency personnel or others trained in habitat restoration or improvement based on landowner objectives?	Restoration potential is assessed for all non-forested upland habitats on the property.	Restoration potential is assessed for some non-forested upland habitats on the property.	No assessment of restoration potential has been started.	Table 2: Q, R, T, and W	
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**PROPOSED CHANGE PROPOSED CHANGE & NOTES:**

**4.01)** Question was edited to move the emphasis of the question to better evaluate non-forested upland habitats.

<b>4.01)</b> Does the LMP address the health and current conditions of non-forested upland habitat? If restoration of non-forested upland habitat is needed, does the LMP provide guidance for restoration activities? <del>Are non-forested upland habitats being assessed for restoration potential by agency personnel or others trained in habitat restoration or improvement based on landowner objectives?</del>	The LMP properly addresses the health and current conditions of non-forested upland habitats and, if needed, provides guidance for restoration activities. <del>Restoration potential is assessed for all non-forested upland habitats on the property.</del>	<del>Restoration potential is assessed for some non-forested upland habitats on the property.</del>	Health and current conditions of non-forested upland habitats is not addressed and no guidance for restoration activities is provided. <del>No assessment of restoration potential has been started.</del>	Table 2: Q, R, T, and W	
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Forest, Wetlands, and Habitat Systems Subcommittee  
2020 Recommended Changes to Forest, Wetlands, and Habitat\* A\* Syst

**CURRENT DOCUMENT**

<p><b>4.02)</b> Are any non-forested upland habitats part of a critical dune area? If yes, have activities taken place in the past or planned for the future?</p>	<p>None of the non-forested upland habitats are part of a critical dune area</p> <p>OR</p> <p>Habitats are part of critical dune area BUT no activities requiring a permit have, or will, take place.</p>	<p>Non-forested upland habitats are part of a critical dune area, activities requiring a permit have taken place, and a permit was obtained.</p>	<p><b>Non-forested upland habitats are part of a critical dune area, activities requiring a permit have taken place, and a permit was not<sup>19</sup> obtained.</b></p>		
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**PROPOSED CHANGE PROPOSED CHANGE & NOTES:**

**4.02)** Question was edited to bring our attention to any activities that may have required a permit within a critical dune area.

<p><del>4.02) Are any non-forested upland habitats part of a critical dune area? If yes, have activities taken place in the past or planned for the future?</del></p> <p><b>Have any past, present or future activities occurred in a critical dune area that requires a permit?</b></p> <p><b>Are any recent or proposed activities that require a permit occurring in critical dune areas?</b></p>	<p><del>None of the non-forested upland habitats are part of a critical dune area</del></p> <p><b>There are no critical dunes.</b></p> <p>OR</p> <p><del>Habitats are part of critical dune area</del><b>Critical dunes are present</b> BUT no <b>recent</b> activities requiring a permit have, or will, take place.</p>	<p><del>Non-forested upland</del> <b>H</b>abitats are part of a critical dune area, activities requiring a permit have taken place, and a permit was obtained.</p>	<p><b>Non-forested upland habitats are part of a critical dune area, activities requiring a permit have taken place, and a permit was not<sup>19</sup> obtained.</b></p>		
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**Michigan Department of Agriculture and Rural Development**  
**Michigan Agriculture Environmental Assurance Program**  
 Livestock System Subcommittee  
Summary of 2020 Proposed Amendments to Livestock\*A\*Syst

[illegible]

**Michigan Department of Agriculture and Rural Development**  
**Michigan Agriculture Environmental Assurance Program**  
**Livestock System Subcommittee**  
**Summary of 2020 Proposed Amendments to Livestock\*A\*Syst**

**Current Text**

<p><b>14.01)</b> If the farm has 50 Animal Units (AU) or more, was the Michigan Right to Farm GAAMP for Site Selection and Odor Control for New and Expanding Livestock Facilities (Site Selection GAAMPs) used to site new or expanding livestock production facilities constructed after January 1, 2017?*</p>	<p>Farm has built new or expanded since January 1, 2017 and has Michigan Department of Agriculture and Rural Development (MDARD) <i>Site Selection GAAMPs</i> verification. MDARD verification is required for sites housing 50 AU or greater in Category 1 and Category 2 locations.</p>		<p>The farm has built new or expanded since January 1, 2017, and does not meet all of the <i>Site Selection GAAMPs</i>, or the determination has not been made.</p>	<p>Consistent with Site Selection and Odor Control GAAMPs.</p>
<p><b>14.02)</b> If the farm has 50 Animal Units (AU) or more, was the Michigan Right to Farm GAAMPs for Site Selection and Odor Control for New and Expanding Livestock Facilities (Site Selection GAAMPs) used to site new or expanding livestock production facilities constructed after June 1, 2000 and prior to December 31, 2016?*</p>	<p>Farm has Michigan Department of Agriculture and Rural Development (MDARD) <i>Site Selection GAAMPs</i> verification. MDARD verification is required for sites housing 500 AU or greater in a Category 1 location or 250 AU or greater in a Category 2 location.</p> <p>The farm has built new or expanded between 2000 and 2016 to house between 50 and 499 AU in a Category 1 location or between 50 and 249 AU in a Category 2 location and the producer submitted the Siting checklist to MDARD for an informal review and MDARD determined the site meets all of the <i>Site Selection GAAMPs</i>.</p>	<p>The farm has built new or expanded between 2000 and 2016 to house between 50 and 499 AU in a Category 1 location or between 50 and 249 AU in a Category 2 location and the producer used the Siting checklist and the producer determined the site meets all of the <i>Site Selection GAAMPs</i>.</p>	<p>The farm has built new or expanded since 2000 and does not meet all of the <i>Site Selection GAAMPs</i>, or the determination has not been made.</p>	<p>Consistent with Site Selection and Odor Control GAAMPs.</p>

<b>14.03)</b> If the farm has less than 50 Animal Units, was the Michigan Right to Farm GAAMPs for Site Selection and Odor Control for New and Expanding Livestock Facilities (Site Selection GAAMPs) used to determine the site category for facilities constructed after June 1, 2000*	The farm proactively achieved verification under the Michigan Right to Farm <i>Site Selection GAAMPs</i> .	Land use zoning allows for agriculture or the location has been determined to be a Category 1, 2, or 3 site and is not required to complete the <i>Site Selection GAAMPs</i> verification process.	The farm has been determined to be a Category 4 location and is not eligible for MAEAP Livestock or Farmstead verification.	Zoning map or zoning use description provided or category determination provided by MDARD. See FAS 112S
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\* These questions do not apply to farms where siting is not applicable, such as farms located in municipalities with populations greater than 100,000 where a zoning ordinance has been enacted to allow for agriculture. In addition, siting does not apply to research and educational institutions, or other locations as determined by MDARD.

### **Delete 14.01, 14.02, 14.03**

### **Add Question 14.01a**

<b>14.01a)</b> Were the Michigan Right to Farm GAAMPs for Site Selection and Odor Control for New and Expanding Livestock Facilities (Site Selection GAAMPs) evaluated for livestock facility?*	Farm has Michigan Department of Agriculture and Rural Development (MDARD) <i>Site Selection GAAMPs</i> verification.	The farm has submitted the Livestock Site Screening Tool and passes the MDARD review.	The farm has built new or expanded since 2000 and does not meet all of the <i>Site Selection GAAMPs</i> , or the Livestock Screening Tool has not been completed and reviewed.		Records of evidence.  Producer has official site selection GAAMP verification documentation.  Producer has completed site screening tool and has passed MDARD review.
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**Michigan Department of Agriculture and Rural Development**  
**Michigan Agriculture Environmental Assurance Program**  
 Farmstead System Subcommittee  
Summary of 2020 Proposed Amendments to Farm\*A\*Syst

[illegible]

Farmstead Systems Subcommittee: 2020 Proposed Amendments to Farm\*A\*Syst

Date: 2/25/2020

Submitter: Mitch Reed

Reason for Amendments: The same question is boxed in the Greenhouse A\*Syst. We are boxing it in the Farmstead A\*Syst for consistency.

Current Text

3.27) Where is the exterior of the spray equipment and tractor washed if there is accumulated residue?	Washed in containment or washed in the field in different locations >200' from the surface water, catch basins or tile inlets and >150' from a well.		Sprayer washed at the farmstead. <b>Rinse water dumped at farmstead or in nearby area or pond.</b> <sup>4</sup>	Satisfactory explanation of procedures for rinsing sprayer system.
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Proposed Text

3.27) Where is the exterior of the spray equipment and tractor washed if there is accumulated residue?	Washed in containment or washed in the field in different locations >200' from the surface water, catch basins or tile inlets and >150' from a well.		Sprayer washed at the farmstead. <b>Rinse water dumped at farmstead or in nearby area or pond.</b> <sup>4</sup>	Satisfactory explanation of procedures for rinsing sprayer system.
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☒ Proposed Text

Alternative Text

☐ Alternative Text approved (date):

**Date:** 2/25/2020

**Submitter:** K. Mead

**Reason for Amendments:** Include language in FAS that addresses potential hazards that are related to portable toilets and the locations of these hazards.

**Current Text**

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**Proposed Text**

7.18) Are portable toilets located in a place that minimizes the risk for environment contamination in the case of tipping, leaking, or malfunction?	Portable toilets are properly located to prevent or minimize risk of contamination to water wells, surface water, tile inlets or other water sources, and are addressed in the Emergency Plan and spill kits are available.	Portable toilets are properly located to prevent or minimize risk of contamination to water wells, surface water, tile inlets or other water sources.	A spill or leak from a portable toilet may run into nearby surface water or water wells in the event of a leak or spill	No sign of spill or discharge reaching surface water, sanitation units located a safe distance from sensitive areas.
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☒ Proposed Text

**Alternative Text**

☐ Alternative Text approved (date):



**Date:** 3/28/2019

**Submitter:** M. Reed

**Reason for Amendments:** Update the FAS with current BODA isolation distance standards.

**Current Text**

<b>9.09)</b> If mortality composting is used, what are the isolation distances for the composting site?	Site is located at least 200 feet from waters of the state, 200 feet from any well, 200 feet from nearest non-farm residence and/or 2 feet above seasonal high water table.		<b>Site is located less than 200 feet from waters of the state, 200 feet from any well, 200 feet from nearest non-farm residence, and 2 feet above seasonal high water table.</b>	Isolation distances meet BODA requirements. The BODA supplement, available at the MAEAP.org website, has been completed and reviewed.			
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**Proposed Text**

<b>9.09)</b> If mortality composting is used, what are the isolation distances for the composting site?	Site is located at least 200 feet from waters of the state, 200 feet from any well, 200 feet from nearest non-farm residence and 2 feet above seasonal high water table.		<b>Site is located less than 200 feet from waters of the state, 200 feet from any well, 200 feet from nearest non-farm residence, and 2 feet above seasonal high water table.<sup>15</sup></b>	Isolation distances meet BODA requirements. The BODA supplement, available at the MAEAP.org website, has been completed and reviewed.			
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☒ Proposed Text

**Alternative Text**

☐ Alternative Text approved (date):

Date: 3/28/2020

Submitter: M. Reed

**Reason for Amendments:** To include language from BODA standards regarding burial isolation distances from water wells within FAS 9.07 and to make FAS 9.07 consistent with LAS 13.01 regarding how animal mortalities are handled.

### Current Text

9.07) How are animal mortalities handled?	Animals are buried, incinerated (requires permit), land filled, placed in a compost pile or picked up by a rendering service within 24 hours of death or stored for a maximum of seven days at 40 degrees F or a maximum of 30 days at 0 degrees F before proper disposal of the carcass.	Animals are not buried, incinerated, land filled, placed in a compost pile or picked up by a rendering service within 24 hours of death. Or, stored for more than seven days at 40 degrees F or more than 30 days at 0 degrees F before disposal of the carcass. <sup>15</sup>	Disposal of dead animal bodies is done according to the Bodies of Dead Animals Act (BODA), as amended in 2008. Up-to-date forms on file for verification. (See FAS 112S)	
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### Proposed Text

9.07) How are animal mortalities handled?	Animals are buried (at least 200' from any existing groundwater well that is used to supply potable drinking water), incinerated (requires permit), land filled, placed in a compost pile or picked up by a rendering service, anaerobically digested or other methods as approved by the Director of MDARD. Mortality is removed within 24 hours of death or stored for a maximum of seven days at 40 degrees F or a maximum of 30 days at 0 degrees F before proper disposal of the carcass. Records of mortality disposal, including burial, are kept on file and available for inspection.	Animals are not buried, incinerated, land filled, placed in a compost pile or picked up by a rendering service within 24 hours of death. Or, stored for more than 7 days at 40 degrees F or more than 30 days at 0 degrees F before disposal of the carcass. <sup>15</sup>	Disposal of dead animal bodies is done according to the Bodies of Dead Animals Act (BODA), as amended in 2008. Up-to-date forms on file for verification. (See FAS 112S.)  Forms for recording mortality disposal including burial record forms and compost record forms are available on the MAEAP website at: <a href="http://www.maeap.org/get_verified/livestock_system">http://www.maeap.org/get_verified/livestock_system</a> .	
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☒ Proposed Text

### Alternative Text

☐ Alternative Text approved (date):

**Date:** 4.1.20

**Submitted:** J. Appleby

**Reason:** Adopt language approved by LAS committee

**Current Text**

<b>9.01)</b> If the farm has 50 Animal Units (AU) or more, was the Michigan Right to Farm GAAMP for Site Selection and Odor Control for New and Expanding Livestock Facilities (Site Selection GAAMPs) used to site new or expanding livestock production facilities constructed after January 1, 2017?*	Farm has built new or expanded since January 1, 2017 and has Michigan Department of Agriculture and Rural Development (MDARD) <i>Site Selection GAAMPs</i> verification. MDARD verification is required for sites housing 50 AU or greater in Category 1 and Category 2 locations.		The farm has built new or expanded since January 1, 2017, and does not meet all of the <i>Site Selection GAAMPs</i> , or the determination has not been made.	Consistent with Site Selection and Odor Control GAAMPs.	
<b>9.02)</b> If the farm has 50 Animal Units (AU) or more, was the Michigan Right to Farm GAAMPs for Site Selection and Odor Control for New and Expanding Livestock Facilities (Site Selection GAAMPs) used to site new or expanding livestock production facilities constructed after June 1, 2000 and prior to December 31, 2016?*	Farm has Michigan Department of Agriculture and Rural Development (MDARD) <i>Site Selection GAAMPs</i> verification. MDARD verification is required for sites housing 500 AU or greater in a Category 1 location or 250 AU or greater in a Category 2 location.  The farm has built new or expanded between 2000 and 2016 to house between 50 and 499 AU in a Category 1 location or between 50 and 249 AU in a Category 2 location and the producer	The farm has built new or expanded between 2000 and 2016 to house between 50 and 499 AU in a Category 1 location or between 50 and 249 AU in a Category 2 location and the producer used the Siting checklist and the producer determined the site meets all of the <i>Site Selection GAAMPs</i> .	The farm has built new or expanded since 2000 and does not meet all of the <i>Site Selection GAAMPs</i> , or the determination has not been made.	Consistent with Site Selection and Odor Control GAAMPs.	

	submitted the Siting checklist to MDARD for an informal review and MDARD determined the site meets all of the <i>Site Selection GAAMPs</i> .				
<b>9.03)</b> If the farm has less than 50 Animal Units, was the Michigan Right to Farm GAAMPs for Site Selection and Odor Control for New and Expanding Livestock Facilities (Site Selection GAAMPs) used to determine the site category for facilities constructed after June 1, 2000*	The farm proactively achieved verification under the Michigan Right to Farm <i>Site Selection GAAMPs</i> .	Land use zoning allows for agriculture or the location has been determined to be a Category 1, 2, or 3 site and is not required to complete the <i>Site Selection GAAMPs</i> verification process.	The farm has been determined to be a Category 4 location and is not eligible for MAEAP Livestock or Farmstead verification.	Zoning map or zoning use description provided or category determination provided by MDARD. See FAS 112S	
* These questions do not apply to farms where siting is not applicable, such as farms located in municipalities with populations greater than 100,000 where a zoning ordinance has been enacted to allow for agriculture. In addition, siting does not apply to research and educational institutions, or other locations as determined by MDARD.					

**Delete 9.01, 9.02, 9.03**

**Add Question 9.01a**

9.01a) Were the Michigan Right to Farm GAAMPs for Site Selection and Odor Control for New and Expanding Livestock Facilities (Site Selection GAAMPs) evaluated for livestock facility?*	Farm has Michigan Department of Agriculture and Rural Development (MDARD) <i>Site Selection GAAMPs</i> verification.	The farm has submitted the Livestock Site Screening Tool and passes the MDARD review.	The farm has built new or expanded since 2000 and does not meet all of the <i>Site Selection GAAMPs</i> , or the Livestock Screening Tool has not been completed and reviewed.		Records of evidence.  Producer has official site selection GAAMP verification documentation.  Producer has completed site screening tool and has passed MDARD review.
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## Summary of 2020 Proposed Amendments to Crop\*A\*Syst tools (Greenhouse\*A\*Syst Only)

[illegible]

**Cropping Systems Subcommittee**  
2020 Proposed Amendments to Greenhouse\*A\*Syst

**Date:** 4-1-2020

**Submitter:** Josh Appleby

**Reason for Amendments:** Add question to address porta potties as approved for FAS

**Current Text**

14.03a					
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**Proposed Text**

14.03a) Are portable toilets located in a place that minimizes the risk for product contamination in the case of tipping, leaking, or malfunction?	Portable toilets are properly located to prevent or minimize risk of contamination to water wells, surface water, tile inlets or other water sources, and are addressed in the Emergency Plan and spill kits are available.	Portable toilets are properly located to prevent or minimize risk of contamination to water wells, surface water, tile inlets or other water sources.	A spill or leak from a portable toilet may run into nearby surface water or water wells in the event of a leak or spill	No sign of spill or discharge reaching surface water, sanitation units located a safe distance from sensitive areas.	
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