

Michigan Agriculture Environmental Assurance Program (MAEAP)

2019 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 FY19 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 FY19, technicians assisted in implementing 4,240 conservation practices on farms. This information is in the attachment ***“MAEAP Conservation and Technical Assistance Summary”***. Additionally, for FY19, there were 972 new risk assessments conducted on farms, and 880 re-assessments for a total of 1,852 technical assistance assessments completed. The total for FY19 by county for both risk assessments and conservation practices is itemized and organized in the attachment titled ***“FY19 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 Environmental Quality (MDEQ) 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 FY19. For FY19, farms that were verified within MAEAP have 282,335 acres managed with a nutrient management plan; the amount of sediment reaching waterways was reduced by 414,714 tons; the amount of phosphorus runoff was reduced by 673,535 pounds; and nitrogen leaving farm fields was reduced by 1,391,050 pounds. The environmental impact of farms verified in FY19 statewide can be seen in the attachment ***“2019 EnviroSummaryInfo.”*** The environmental impact breakdown by county for FY19 can be seen in the attachment ***“FY19 Envirosummary by County.”***

- iii. **Number of Verifications and Reverifications.** In FY19, there were 533 new verifications. This number was up from FY17. The very poor farm economy has made it difficult for farmers to afford to make changes in their operations at this time. Of the 533 verifications, 223 are Cropping system, 163 are Farmstead system, 66 are Livestock system, and 81 are in the Forest, Wetland and Habitat system. In FY19, there were 465 total reverifications in the program. Of those 465 reverifications, 222 are Cropping system, 172 are Farmstead system, and 71 are Livestock system. There are no Forest, Wetland and Habitat system reverifications as that system was new in FY16. The breakdown by county can be found in the attachment ***“FY19 Breakdown Vers and Revers by County.”***
- iv. **Number of Unique Farms Verified.** In FY19, there were 593 unique sites verified in MAEAP. The county-by-county breakdown of these unique sites is included in the attachment ***“FY19 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 FY19 had a total of 282,335 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 FY19 represents slightly over 3.5% 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 FY19, there have been 12,644 practices implemented by MAEAP technicians working with farmers. The conservation practices implemented in FY17-19 can be seen in the attachment ***“FY17-19 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 FY15- FY19. These figures are also reported by county. The FY15-19 cumulative numbers for nutrient management plan implementation total 1,262,558 acres; sediment reduction totals 1,870,812 tons; phosphorus reduction totals 3,100,318 pounds; and nitrogen reduction totals 6,701,404 pounds. The MAEAP program totals for FY15-19 can be found in the attachment ***“FY15-19 Total EnviroSummaryInfo”***
- iii. **Number of New Verifications and Reverifications.** From FY02-19, there were 5,372 new verifications in MAEAP. This includes 2,212 Cropping system; 1,890 Farmstead system; 920 Livestock system; and 350 Forest, Wetland and Habitat system. Over the period FY05-19, there were 2,441 reverifications in MAEAP. This included 1,013 Cropping system, 952 Farmstead system, and 476 Livestock system. There were no Forest, Wetland and Habitat System reverifications as the system is too new. Verifications and reverification by year can be seen in the attachment ***“MAEAP Verifications Over Time FY19.”*** 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 FY19 is 3,017. 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 FY15-19 environmental summary, that acreage totals 1,262,558 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 15.9% 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 ***"2019 Nursery Proposed Amendments," "2019 Field Crop and Veg Proposed Amendments," "2019 Fruit Proposed Amendments," "2019 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 worked 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.
- 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 also is 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 second year that the committee has been working on this issue, which is a high profile issue for crop growers utilizing irrigation along with fertigation or chemigation.

- iii. **Livestock Committee.** In addition to standards review and revision, the Livestock committee worked on addressing recent as well as expected changes to the RTF Siting GAAMP's. The committee also helped implement a program to provide certification for custom manure applicators statewide, when the initial plan for implementation was scrapped by a different partner group. This certification process is expected to commence in 2020.
- iv. **Forest, Wetlands and Habitat Committee.** This committee focused primarily on the standards review in FY19. The committee continued to tweak wording and standards language as we continue to learn more as the system is implemented. Their work focused on gaining consistency within the tool to truly cover all forms of habitat instead of being timber focused. The group also expanded its membership, looking to incorporate more members with habitat and wetlands backgrounds.

FY 2019 MAEAP Technical Assistance Summary

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Alcona	93	77	
Anti-Backflow Device Installed		5	
Dead Animals Handled According to BODA		1	
Drift Management Plan, New		1	
Emergency Plan, Fertilizer New		2	
Emergency Plan, Pesticide New		2	
Fertilizer, Determination of Rates		1	
Impermeable Surface, Fuel		1	
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, Nutrient Content Determination		2	
Pasture Soil Tested		3	
Pesticide Spill Kit Availability		1	
Precipitation Leading to Contaminated Run-Off		1	
Secondary Containment, Fertilizer		1	
Secondary Containment, Fuel		1	
Secondary Containment, Pesticides		1	
Soil Testing, Triennial		20	
Soil, Nutrient Records	93		
Storage, Signage		3	
Storage, Spill Kit		4	
Veterinary Product and Waste Disposal		1	
Waste, Recycling and Disposal		1	
Well Tests, Every Three Years		8	
Well Tests, Health Standards		4	
Alger	81	64	
No Adverse Impact To Endangered/Threatened Species		1	
Appropriate Records For Forest Product Harvests		2	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Fertilizer Revised		1	
Emergency Plan, Manure Spill, Revised		1	
Environmentally Sensitive Areas Identified	35		
Fertilizer Records Maintained		1	
Fertilizer, Determination of Rates		1	
Forest Roads Established And Maintained To Avoid Erosion		1	
Forestland In Sustainable Forest Certification Program		3	
Harvest Plan Map Used For Harvest		1	
Irrigation Records Maintained		1	
Irrigation, Rain Gauges in Fields		2	
Irrigation, Record Keeping		2	
Isolation Distances Met		2	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Land Management Plan, New		1	
Landowner Enrolled in Appropriate Programs		2	
Landowner Uses Natural Resource Professionals For Services		1	
Landowner Uses Professionals To Comply With All Laws		1	
Livestock Management, Recordkeeping		2	
LMP Allows for Active and Adaptive Management		1	
LMP Includes Landowner Objectives		1	
LMP Prepared By Professional Natural Resource Manager		1	
Manure, Management Records		1	
Nutrient Management Plans, Annual By Field	5.5		
Owner Monitors Harvests for Conformance With LMP		2	
Pesticides Used And Stored According To SSWQPs		2	
Timber Management And Habitat Conflicts Addressed		1	
Runoff/Sedimentation Controlled		1	
Secondary Containment, Fertilizer		2	
Soil Erosion Controlled	35		
Soil Testing, Triennial		9	
Soil, Nutrient Records	5.5		
Special Sites Protected		1	
Timber Sale Contract Prepared By Professional Forester		1	
Waste, Floor Drains		2	
Well Tests, Every Three Years		6	
Well Tests, Health Standards		6	
Allegan	6,858.3	307	
Anti-Backflow Device Installed		2	
Conservation Practices Routinely Evaluated		1	
Containers, Properly Rinsed		1	
Cover Crop Use	342.6		
Dead Animals Handled According to BODA		4	
Dead Animals Composting Meets BODA Requirements		3	
Drift Management Plan, New		8	
Drift Management Plan, Revised		3	
Emergency Plan, Fertilizer New		2	
Emergency Plan, Fertilizer Revised		1	
Emergency Plan, Manure Spill, New		4	
Emergency Plan, Manure Spill, Revised		2	
Emergency Plan, Pesticide New		5	
Emergency Plan, Pesticide Revised		4	
Emergency Plan, Spill Control and Counter-measure		1	
Environmentally Sensitive Areas Identified	3,753.1		
Equipment, Parking and Storage		6	
Fertilizer, Application Equipment Calibration		4	
Fertilizer, Determination of Rates		1	
Impermeable Surface, Fuel		5	
Irrigation, Amount Determined Accurately		1	
Irrigation, Evaluation for Uniformity		5	
Irrigation, Rain Gauges in Fields		3	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Irrigation, Scheduling		2	
Isolation Distances Met		10	
Landowner Complies With Laws And Ordinances		4	
Leaching/Runoff Toxic Potential Consideration		1	
Livestock Management, NMP		1	
Livestock Management, Recordkeeping		4	
Livestock Management, Siting		1	
Livestock Yard, Drainage Diversion		1	
Livestock Yard, Runoff Management		1	
Manure Application, Odor-Reduction Practices		1	
Manure Applications, Weather Forecasts Monitored		1	
Manure Storage, Temporary Duration		4	
Manure Storage, Temporary Location		2	
Manure, Management Records		1	
Mix-Load, Filling Monitored		1	
Nutrient Management Plans, Annual By Field	2,420.6		
Nutrients, All Sources Considered		5	
Odor Management Plan		10	
Other Environmental Risks Resolved		2	
P Fertilizer, Rate Determination		1	
Pastures Have Current Soil Tests		1	
Pest Management, Current on Practices		2	
Pest Management, Weather Conditions Monitored		1	
Pesticide Applications, Soil Characteristics Considered		1	
Pesticide Drift Management Plan, New		1	
Pesticide Drift Management Plan, Revised		1	
Pesticide Mixture, Disposal of Excess		1	
Pesticide Spill Kit Availability		14	
Pesticides Stored Properly		1	
Pesticides, Air Blast Management		1	
Pesticides, Application Recordkeeping		1	
Pesticides, Container Handling		2	
Pesticides, Drift Management Plan, New		8	
Pesticides, Drift Management Plan, Revised		1	
Pesticides, Emergency Plan and Contacts		10	
Pesticides, Equipment Calibration		4	
Pesticides, Mixing and Loading In Field		9	
Pesticides, Rinsate Disposal		1	
Runoff/Sedimentation Controlled		1	
Soil Testing, Representative Sampling		2	
Soil Testing, Triennial		9	
Soil, Characteristics Considered		2	
Soil, Nutrient Records	342		
Sprayer, Cleaning Water Collected		1	
Storage, Appropriate Tanks		7	
Storage, Decommissioned		2	
Storage, Dedicated		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Storage, Isolated From Other Products		2	
Storage, Labeled Containers		16	
Storage, Security		3	
Storage, Shelving		1	
Storage, Signage		7	
Storage, Spill Kit		9	
Veterinary Product and Waste Disposal		3	
Waste, Floor Drains		7	
Water, Protected From Pesticide Contamination		1	
Weather Stations/Models Used, On-Farm		3	
Well Construction		13	
Well Inspected		14	
Well Repaired to Standards		4	
Well Tests, Every Three Years		10	
Well Tests, Health Standards		9	
Worker Protection, Central Notification		1	
Alpena	189	86	
Anti-Backflow Device Installed		1	
Drift Management Plan, New		3	
Emergency Plan, Employee Training		1	
Emergency Plan, Manure Spill, New		2	
Emergency Plan, Pesticide New		1	
Impermeable Surface, Fuel		1	
Land Management Plan, New		1	
Livestock Management, NMP		1	
Livestock Yard, Floor		2	
Livestock Yard, Manure Scrape and Haul		1	
Manure Storage, Runoff Management		1	
Odor Management Plan		1	
Pesticide Spill Kit Availability		1	
Pesticides, Drift Management Plan, New		2	
Soil Testing, Representative Sampling		7	
Soil Testing, Triennial		23	
Soil, Nutrient Records	189		
Storage, Dedicated		1	
Storage, Elevation		1	
Storage, Monitored for Leaks		1	
Storage, Security		8	
Storage, Signage		3	
Storage, Spill Kit		1	
Sustainable Soil And Water Quality Practices Followed		2	
Veterinary Product and Waste Disposal		1	
Waste, Floor Drains		1	
Well Tests, Every Three Years		9	
Well Tests, Health Standards		9	
Antrim	2,500	53	
Dead Animals Handled According to BODA		2	

FY 2019 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, Manure Spill, New		1	
Emergency Plan, Manure Spill, Revised		2	
Emergency Plan, Pesticide New		1	
Emergency Plan, Pesticide Revised		3	
Environmentally Sensitive Areas Identified	2,500		
Fertilizer, Determination of Rates		1	
Impermeable Surface, Fuel		2	
Irrigation, Rain Gauges in Fields		6	
Isolation Distances Met		1	
Large Quantity Water Withdrawal Registered		1	
Livestock Management, Recordkeeping		1	
Manure Application, Rate Determination		1	
Manure Storage, Temporary Location		1	
Odor Management Plan		2	
Pastures Have Current Soil Tests		1	
Pesticide Drift Management Plan, Revised		1	
Pesticide Spill Kit Availability		3	
Reporting and Recordkeeping Compliance		3	
Secondary Containment, Fertilizer		1	
Secondary Containment, Leaks and Precipitation		1	
Secondary Containment, Operational Pad		1	
Soil Testing, Representative Sampling		1	
Soil Testing, Triennial		1	
Storage, Appropriate Tanks		2	
Storage, Security		1	
Storage, Signage		1	
Storage, Spill Kit		1	
Storage, Spill Protection		2	
Waste, Floor Drains		1	
Waste, Isolation Distances Met		1	
Waste, Recycling and Disposal		1	
Well Tests, Every Three Years		1	
Well Tests, Health Standards		1	
Barry		7	
Pastures Have Current Soil Tests		6	
Well Tests, Every Three Years		1	
Bay		2	
Other Environmental Risks Resolved		1	
Soil Testing, Triennial		1	
Benzie	1	41	
Drift Management Plan, New		2	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Pesticide New		2	
Emergency Plan, Pesticide Revised		1	
Environmentally Sensitive Areas Identified	1		

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Impermeable Surface, Fuel		2	
Irrigation, Rain Gauges in Fields		1	
Irrigation, Record Keeping		1	
Isolation Distances Met		3	
Livestock Yard, Runoff Management		1	
Livestock Yard, Surface Water Setback		1	
Manure Storage, Runoff Management		1	
Manure Storage, Temporary Location		1	
Manure Storage, Temporary, Surface Water Setback		1	
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		1	
Pesticide Spill Kit Availability		2	
Precipitation Leading to Contaminated Run-Off		1	
Secondary Containment, Pesticides		1	
Storage, Security		2	
Storage, Signage		2	
Storage, Spill Kit		4	
Water, Protected From Pesticide Contamination		1	
Well Setback, Manure Sources		1	
Well Tests, Every Three Years		3	
Well Tests, Health Standards		1	
Berrien	381	113	
Anti-Backflow Device Installed		4	
Drift Management Plan, New		2	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Fertilizer Revised		2	
Emergency Plan, Manure Spill, New		3	
Emergency Plan, Pesticide New		4	
Emergency Plan, Pesticide Revised		1	
Environmentally Sensitive Areas Identified	200		
Fertilizer, Determination of Rates		11	
Impermeable Surface, Fuel		3	
Isolation Distances Met		4	
Landowner Complies With Laws And Ordinances		2	
Livestock Yard, Surface Water Setback		1	
Manure Application, Odor-Reduction Practices		1	
Manure Storage, Field Stacked Duration		1	
Manure Storage, Temporary Duration		1	
Manure, Management Records		1	
Manure, Nutrient Content Determination		1	
No Odor Complaints/Odor Complaints Resolved		1	
Nutrient Management Plans, Annual By Field	2		
Nutrient Management Records, Multiple		2	
Odor Management Plan		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Pasture, No Manure Near Water Tanks/Feeders		5	
Pasture Soil Tested		5	
Pesticide Application, Recordkeeping		1	
Pesticide Drift Management Plan, New		1	
Pesticide Drift Management Plan, Revised		1	
Pesticides, Application Recordkeeping		2	
Pesticides, Drift Management Plan, New		2	
Pesticides, Drift Management Plan, Revised		1	
Pesticides, Emergency Plan and Contacts		2	
Pesticides, Label Compliance		3	
Secondary Containment, Pesticides		1	
Soil and/or Tissue Testing, Quadrennial	98		
Soil Testing, Triennial		19	
Soil, Nutrient Records	81		
Storage, Appropriate Tanks		1	
Storage, Signage		1	
Storage, Spill Kit		7	
Veterinary Product and Waste Disposal		2	
Waste, Floor Drains		2	
Waste, Isolation Distances Met		1	
Water, Protected From Pesticide Contamination		1	
Well Tests, Every Three Years		8	
Branch	620	47	
Containers, Properly Rinsed		1	
Drift Management Plan, New		1	
Drift Management Plan, Revised		2	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Fertilizer Revised		2	
Emergency Plan, Manure Spill, New		1	
Emergency Plan, Pesticide New		1	
Emergency Plan, Pesticide Revised		2	
Environmentally Sensitive Areas Identified	300		
Isolation Distances Met		1	
Livestock Management, Runoff Management		1	
Manure, Management Records		1	
Odor Management Plan		5	
Pesticide Spill Kit Availability		2	
Pesticides, Application Recordkeeping		2	
Pesticides, Container Handling		1	
Pesticides, Drift Management Plan, New		1	
Pesticides, Drift Management Plan, Revised		4	
Pesticides, Emergency Plan and Contacts		3	
Soil, Nutrient Records	320		
Storage, Signage		2	
Storage, Spill Kit		1	
Veterinary Product and Waste Disposal		1	
Waste, Recycling and Disposal		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Water, Protected From Pesticide Contamination		4	
Well Decommissioned		1	
Well Tests, Every Three Years		5	
Calhoun	1,194	40	
Cover Crop Use	300		
Drift Management Plan, New		1	
Emergency Plan, Fertilizer Revised		1	
Emergency Plan, Manure Spill, New		2	
Emergency Plan, Manure Spill, Revised		2	
Emergency Plan, Pesticide New		1	
Emergency Plan, Pesticide Revised		2	
Environmentally Sensitive Areas Identified	570		
Fertilizer, Determination of Rates		1	
Impermeable Surface, Fuel		1	
Irrigation, Evaluation for Uniformity		1	
Irrigation, Record Keeping		1	
Manure Application, Rate Determination		1	
Manure, Nutrient Content Determination		1	
Nutrients, All Sources Considered		1	
Pesticide Spill Kit Availability		1	
Pesticides, Drift Management Plan, New		1	
Pesticides, Drift Management Plan, Revised		1	
Pesticides, Emergency Plan and Contacts		1	
Pesticides, Equipment Calibration		1	
Pesticides, Mixing and Loading In Field		1	
Soil Erosion Controlled	300		
Soil Testing, Triennial		4	
Soil, Nutrient Records	24		
Storage, Signage		1	
Well Tests, Every Three Years		8	
Well Tests, Health Standards		5	
Cass	10,811.1	323	2
Adequate Land Base for Nutrients		4	
Anti-Backflow Device Installed		5	
Backflow Prevention on Livestock Watering Systems		2	
Rare And Sensitive Species And Habitats Protected		1	
Conservation Practices Routinely Evaluated		3	
Crop Yields, Realistic Goals		1	
Dead Animals Handled According to BODA		9	
Dead Animals, Composting Isolation Distance		3	
Dead Animals, Composting Process Follows BODA		1	
Dead Animals Composting Meets BODA Requirements		1	
Dead Animals, Proper Composting Site Selection		1	
Drift Management Plan, New		3	
Emergency Plan, Employee Training		1	
Emergency Plan, Fertilizer New		2	
Emergency Plan, Fertilizer Revised		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Emergency Plan, Manure Spill, New		3	
Emergency Plan, Manure Spill, Revised		1	
Emergency Plan, Pesticide New		2	
Environmentally Sensitive Areas Identified	4,116		
Erosion Controlled, Site	2		
Excess Product, Label Rates		1	
Fertilizer Records Maintained		2	
Fertilizer, Application Equipment Calibration		1	
Fertilizer, Determination of Rates		8	
Impermeable Surface, Fuel		6	
Invasive Species Identified And Managed		2	
Irrigation Records Maintained		1	
Irrigation, Drift and Off-Target Prevention		1	
Irrigation, Rain Gauges in Fields		1	
Irrigation, Record Keeping		4	
Isolation Distances Met		16	
Landowner Complies With Laws And Ordinances		1	
Landowner Enrolled in Appropriate Programs		1	
Livestock Management, Anti-Backflow device installed		3	
Livestock Management, NMP		1	
Livestock Management, Recordkeeping		4	
Livestock Yard, Manure Scrape and Haul		1	
Management Conforms to Applicable Forest Land BMPs		1	
Manure Application, Rate Determination		1	
Manure Storage, Temporary Duration		2	
Manure Storage, Temporary Location		1	
Manure Storage, Temporary, Surface Water Setback		1	
Manure Applications Do Not Exceed Crop N Needs	500		
Manure, Application to Avoid Ponding, Erosion, and Runoff		1	
Manure, Irrigation System Backflow Prevention		8	
Manure, Management Records		2	
Manure, Nutrient Content Determination		4	
N Fertilizer, Split/Multiple Applications	400		
No N Applications For Soybeans or Alfalfa		1	
Nutrient Management Plans, Annual By Field	1,400		
Nutrients, All Sources Considered		1	
Odor Management Plan		7	
P Fertilizer, Rate Determination		1	
Pasture Management For Vegetation and Runoff		1	
Pasture, No Manure Near Water Tanks/Feeders		12	
Pasture, Protection of Stream Banks and Surface Water		3	
Pasture Soil Tested		6	
Pastures Have Current Soil Tests		15	
Pesticide Inventory Control		4	
Pesticides, Drift Management Plan, Revised		1	
Portion of Animal Feed Produced On Farm		3	
PPE Training And Maintenance		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Runoff/Sedimentation Controlled		2	
Secondary Containment, Fertilizer		1	
Secondary Containment, Pesticides		4	
Soil Erosion Controlled	3,452		
Soil Quality Indicators Evaluated		11	
Soil Testing, Representative Sampling		12	
Soil Testing, Triennial		57	
Soil, Nutrient Records	941		
Soil, pH Maintenance	0.1		
Storage, Appropriate Tanks		4	
Storage, Monitored for Leaks		2	
Storage, Security		1	
Storage, Signage		5	
Storage, Spill Kit		3	
Storage, Spill Protection		2	
Storage, Valves and Hoses		5	
Veterinary Product and Waste Disposal		3	
Waste, Recycling and Disposal		4	
Water Management, Wastewater			2
Water Use Reported		6	
Well Decommissioned		3	
Well Inspected		6	
Well Tests, Every Three Years		10	
Well Tests, Health Standards		7	
Charlevoix	4	23	
Emergency Plan, Manure Spill, Revised		2	
Emergency Plan, Pesticide Revised		1	
Isolation Distances Met		1	
Pasture Soil Tested		2	
Pastures Have Current Soil Tests		1	
Secondary Containment, Pesticides		1	
Soil and/or Tissue Testing, Quadrennial	4		
Soil Testing, Triennial		4	
Storage, Security		1	
Waste, Isolation Distances Met		1	
Well Tests, Every Three Years		9	
Cheboygan	160	57	
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	
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	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
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, No 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		
Veterinary Product and Waste Disposal		2	
Well Tests, Every Three Years		9	
Well Tests, Health Standards		2	
Chippewa	375	257	
Adequate Land Base for Nutrients		1	
Anti-Backflow Device Installed		5	
Containers, Properly Rinsed		4	
Crop Yields, Realistic Goals		4	
Dead Animals Handled According to BODA		5	
Dead Animals, Composting Process Follows BODA		1	
Dead Animals Composting Meets BODA Requirements		1	
Dead Animals: Composting Process Properly Managed		1	
Drift Management Plan, New		1	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Manure Spill, New		3	
Emergency Plan, Manure Spill, Revised		2	
Emergency Plan, New, Silage		1	
Emergency Plan, Pesticide New		1	
Environmentally Sensitive Areas Identified	35		
Farm Emergency Plan Developed and Followed, New		1	
Fertilizer, Rate Determination	18		
Forest Roads Established And Maintained To Avoid Erosion		4	
Impermeable Surface, Fuel		2	
Isolation Distances Met		5	
Livestock Management, Anti-Backflow device installed		3	
Livestock Management, Recordkeeping		3	
Livestock Yard, Drainage Diversion		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Manure Storage, Temporary Location		1	
Manure, Application to Avoid Ponding, Erosion, and Runoff		1	
Manure, Management Records		2	
Manure, Odor Management		1	
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		2	
Odor Management Plan		6	
Other Environmental Risks Resolved		2	
P Fertilizer, Rate Determination		2	
Pasture, No Manure Near Water Tanks/Feeders		1	
Pasture, Protection of Stream Banks and Surface Water		1	
Pasture Soil Tested		5	
Pastures Have Current Soil Tests		6	
Pesticide Application, Recordkeeping		1	
Pesticide Drift Management Plan, New		1	
Pesticide Spill Kit Availability		3	
Pesticides, Container Handling		13	
Pesticides, Emergency Plan and Contacts		1	
Pesticides, Label Compliance		1	
Pesticides, Rinsate Disposal		1	
Secondary Containment, Mix-Load		1	
Secondary Containment, Pesticides		1	
Septic, Pumping		5	
Soil and/or Tissue Testing, Quadrennial	17		
Soil Testing, Representative Sampling		16	
Soil Testing, Triennial		19	
Soil, Nutrient Records	268		
Storage, Appropriate Tanks		2	
Storage, Designed Use		1	
Storage, Portable Fueling		2	
Storage, Security		1	
Storage, Signage		2	
Storage, Spill Kit		3	
Veterinary Product and Waste Disposal		6	
Waste, Floor Drains		2	
Waste, Isolation Distances Met		10	
Waste, Recycling and Disposal		63	
Well Decommissioned		1	
Well Repaired to Standards		3	
Well Tests, Every Three Years		7	
Well Tests, Health Standards		8	
Clare		2	
Pastures Have Current Soil Tests		1	
Well Tests, Every Three Years		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Clinton	8,015	37	
Adequate Land Base for Nutrients		1	
No Adverse Impact To Endangered/Threatened Species		1	
All Habitat Types Identified and Mapped In LMP		1	
Containers, Properly Rinsed		1	
Emergency Plan, Fertilizer Revised		3	
Emergency Plan, Manure Spill, Revised		2	
Emergency Plan, Pesticide Revised		3	
Emergency Plan, Revised, Silage		2	
Environmentally Sensitive Areas Identified	5,765		
Isolation Distances Met		1	
Land Management Plan, New		1	
Livestock Management, NMP		1	
Livestock Management, Siting		1	
LMP Allows for Active and Adaptive Management		1	
LMP Includes Landowner Objectives		1	
LMP Prepared By Professional Natural Resource Manager		1	
Manure Application, MARI Completed	430		
Manure Application, Rate Determination		1	
Manure Storage, Liquid Storage Freeboard Maintained		3	
Manure, Winter Application Procedure	480		
Odor Management Plan		1	
Pesticide Drift Management Plan, New		1	
Pesticides, Drift Management Plan, Revised		1	
RTF Site Selection and Odor-Control GAAMPS Met		1	
Soil Erosion Controlled	1,330		
Soil Testing, Triennial	10		
Special Sites Protected		1	
Storage, Signage		1	
Waste, Recycling and Disposal		1	
Well Tests, Every Three Years		5	
Delta	1,530	15	
No Adverse Impact To Endangered/Threatened Species		1	
All Habitat Types Identified and Mapped In LMP		1	
Landowner Uses Professionals To Comply With All Laws		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	
Nutrient Management Plans, Annual By Field	765		
Pasture Soil Tested		1	
Pastures Have Current Soil Tests		1	
Pesticides Used And Stored According To SSWQPs		1	
Timber Management And Habitat Conflicts Addressed		1	
Soil Testing, Triennial		1	
Soil, Nutrient Records	765		
Well Tests, Every Three Years		2	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Well Tests, Health Standards		1	
Dickinson	50	5	
Environmentally Sensitive Areas Identified	50		
Well Tests, Every Three Years		2	
Well Tests, Health Standards		3	
Eaton	2,335	41	
Drift Management Plan, New		1	
Emergency Plan, Manure Spill, New		4	
Environmentally Sensitive Areas Identified	2,027		
Impermeable Surface, Fuel		3	
Manure Application, Rate Determination		2	
Manure, Management Records		1	
Manure, Nutrient Content Determination		2	
Odor Management Plan		3	
Pasture Soil Tested		1	
Pastures Have Current Soil Tests		4	
Pesticides, Drift Management Plan, New		1	
Soil Erosion Controlled	308		
Soil Testing, Triennial		7	
Storage, Appropriate Tanks		1	
Storage, Spill Kit		1	
Veterinary Product and Waste Disposal		1	
Waste, Floor Drains		1	
Well Tests, Every Three Years		5	
Well Tests, Health Standards		3	
Emmet	153	54	
Anti-Backflow Device Installed		5	
Containers, Properly Rinsed		2	
Drift Management Plan, New		1	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Pesticide New		1	
Environmentally Sensitive Areas Identified	40		
Excess Product, Label Rates		3	
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		2	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Pesticides, Container Handling		3	
Pesticides, Excess Spray Mixture Use		1	
Secondary Containment, Mix-Load		1	
Secondary Containment, Pesticides		1	
Soil and/or Tissue Testing, Quadrennial	13		
Soil Erosion Controlled	100		
Soil Testing, Triennial		3	
Storage, Isolated From Other Products		2	
Storage, Regular Inspection		1	
Storage, Security		1	
Water, Protected From Pesticide Contamination		1	
Well Tests, Every Three Years		4	
Well Tests, Health Standards		1	
Genesee	3,141.3	72	
Crop Yields, Realistic Goals		4	
Dead Animals Handled According to BODA		1	
Emergency Plan, Fertilizer Revised		1	
Emergency Plan, Manure Spill, Revised		2	
Emergency Plan, Pesticide Revised		1	
Emergency Plan, Revised, Silage		2	
Environmentally Sensitive Areas Identified	3,022.2		
Landowner Complies With Laws And Ordinances		2	
Livestock Management, Anti-Backflow device installed		4	
Livestock Management, Recordkeeping		2	
Manure Application, MARI Completed		1	
Manure Application, Rate Determination		3	
Manure Applications Do Not Exceed Crop P Needs		1	
Manure, Application Rates Do Not Exceed Crop P Needs	0.1		
Manure, Management Records		1	
Manure, Nutrient Content Determination		2	
Manure, Winter Application Procedure	118		
Odor Management Plan		3	
P Fertilizer, Rate Determination		2	
Pastures Have Current Soil Tests		8	
Pesticide Drift Management Plan, New		1	
Pesticide Spill Kit Availability		2	
Soil Erosion Controlled	1		
Soil Testing, Triennial		11	
Storage, Security		2	
Storage, Signage		2	
Storage, Spill Kit		2	
Well Tests, Every Three Years		10	
Well Tests, Health Standards		2	
Gladwin		1	
Pesticide Spill Kit Availability		1	
Grand Traverse	993.8	139	
Anti-Backflow Device Installed		3	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Drift Management Plan, New		4	
Drift Management Plan, Revised		4	
Emergency Plan, Fertilizer New		4	
Emergency Plan, Fertilizer Revised		3	
Emergency Plan, Pesticide New		6	
Emergency Plan, Pesticide Revised		5	
Environmentally Sensitive Areas Identified	857.8		
Equipment, Parking and Storage		1	
Equipment, Properly Cleaned and Rinsed		1	
Impermeable Surface, Fuel		4	
Irrigation Records Maintained		1	
Irrigation, Amount Determined Accurately		2	
Irrigation, Rain Gauges in Fields		3	
Irrigation, Record Keeping		4	
Isolation Distances Met		7	
Manure, Management Records		4	
Nutrient Management Records, Multiple		3	
P Fertilizer, Rate Determination		1	
Pesticide Drift Management Plan, New		5	
Pesticide Drift Management Plan, Revised		2	
Pesticide Handling, Field Mixing and Loading		3	
Pesticide Rinsate, Proper Handling		1	
Pesticide Spill Kit Availability		11	
Pesticides, Application Recordkeeping		1	
Pesticides, Drift Management Plan, New		1	
Pesticides, Equipment Calibration		1	
Pesticides, Mixing and Loading In Field		1	
Reporting and Recordkeeping Compliance		6	
Rinsate, Label Rates		1	
Safety Data Sheets Available On-Site		1	
Secondary Containment, Fertilizer		2	
Secondary Containment, Mix-Load		9	
Secondary Containment, Operational Pad		1	
Secondary Containment, Pesticides		3	
Soil and/or Tissue Testing, Quadrennial	136		
Storage, Application Equipment		1	
Storage, Appropriate Tanks		1	
Storage, Isolated From Other Products		1	
Storage, Security		2	
Storage, Signage		2	
Storage, Spill Kit		10	
Storage, Valves and Hoses		1	
Waste, Recycling and Disposal		3	
Well Repaired to Standards		2	
Well Tests, Every Three Years		5	
Well Tests, Health Standards		2	
Gratiot		15	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Anti-Backflow Device Installed		1	
Drift Management Plan, Revised		1	
Emergency Plan, Fertilizer Revised		1	
Emergency Plan, Pesticide Revised		1	
Excess Product, Label Rates		1	
Isolation Distances Met		2	
Property Boundaries Known And Marked		1	
Rinsate, Label Rates		1	
Secondary Containment, Mix-Load		1	
Storage, Security		1	
Storage, Signage		1	
Storage, Spill Kit		2	
Waste, Isolation Distances Met		1	
Hillsdale	22,839.8	61	
Adequate Land Base for Nutrients		1	
Dead Animals, Proper Composting Site Selection		1	
Drift Management Plan, New		1	
Drift Management Plan, Revised		1	
Emergency Plan, Manure Spill, New		1	
Environmentally Sensitive Areas Identified	16,396.7		
Impermeable Surface, Fuel		1	
Irrigation, Rain Gauges in Fields		4	
Livestock Management, Runoff Management		1	
Manure, Nutrient Content Determination		7	
Odor Management Plan		1	
Pasture Management, Protecting Surface Water		1	
Pasture Soil Tested		32	
Pastures Have Current Soil Tests		1	
Pesticide Spill Kit Availability		2	
Pesticides, Drift Management Plan, Revised		1	
Soil Erosion Controlled	2,968.1		
Soil Testing, Triennial	3,475		
Storage, Spill Kit		1	
Well Repaired to Standards		1	
Well Tests, Every Three Years		3	
Houghton	2.6	20	
Cover Crop Use	0.3		
Environmentally Sensitive Areas Identified	0.8		
IPM Consultant, University, Other Reliable Source		3	
IPM Scouting Weekly		3	
Irrigation, Record Keeping		3	
Irrigation, Scheduling		3	
Nutrients, All Sources Considered		3	
Pesticides, Application Recordkeeping		2	
Soil Erosion Controlled	0.8		
Soil Testing, Triennial		3	
Soil, Nutrient Records	0.8		

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Huron	6,261	146	
Adequate Land Base for Nutrients		1	
Anti-Backflow Device Installed		103	
Dead Animals Handled According to BODA		1	
Drift Management Plan, New		2	
Emergency Plan, Pesticide New		2	
Livestock Management, Recordkeeping		1	
Manure Application, MARI Completed		3	
Pesticide Spill Kit Availability		2	
Pesticides, Drift Management Plan, New		8	
RTF Site Selection and Odor-Control GAAMPS Met		1	
Soil Erosion Controlled	6,189		
Soil Testing, Triennial	72		
Storage, Signage		2	
Storage, Spill Kit		2	
Veterinary Product and Waste Disposal		1	
Waste, Floor Drains		1	
Well Tests, Every Three Years		8	
Well Tests, Health Standards		8	
Ingham	3,573	59	
Adequate Land Base for Nutrients		1	
Drift Management Plan, New		1	
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		1	
Emergency Plan, Pesticide Revised		1	
Environmentally Sensitive Areas Identified	2,450		
Manure Application, Rate Determination		2	
Manure, Management Records		2	
Manure, Nutrient Content Determination		7	
Odor Management Plan		5	
Pasture Soil Tested		4	
Pastures Have Current Soil Tests		4	
Pesticide Spill Kit Availability		1	
Pesticides, Drift Management Plan, New		2	
Soil Erosion Controlled	1,123		
Soil Testing, Triennial		8	
Storage, Signage		6	
Storage, Spill Kit		4	
Veterinary Product and Waste Disposal		1	
Well Tests, Every Three Years		4	
Well Tests, Health Standards		1	
Ionia	26	32	
Containers, Properly Rinsed		1	
Emergency Plan, Pesticide New		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Excess Product, Label Rates		1	
Impermeable Surface, Fuel		2	
Irrigation, Record Keeping		2	
Isolation Distances Met		5	
Livestock Management, Recordkeeping		1	
Pesticide Spill Kit Availability		1	
Pesticides, Emergency Plan and Contacts		1	
Pesticides, Mixing and Loading In Field		1	
Rinsate, Label Rates		1	
Soil Erosion Controlled	26		
Soil Testing, Triennial		1	
Storage, Appropriate Tanks		1	
Storage, Signage		1	
Storage, Spill Kit		1	
Well Repaired to Standards		2	
Well Tests, Every Three Years		5	
Well Tests, Health Standards		4	
Jackson	5,768	66	
Environmentally Sensitive Areas Identified	1,672		
Irrigation, Evaluation for Uniformity		11	
Irrigation, Rain Gauges in Fields		5	
Irrigation, Record Keeping		1	
Isolation Distances Met		1	
Manure Applications Do Not Exceed Crop P Needs		1	
Manure Applications Do Not Exceed Crop N Needs	820		
Manure, Management Records		3	
Manure, Winter Application Procedure	45		
Nutrient Management Plans, Annual By Field	108		
Odor Management Plan		2	
Pasture Soil Tested		13	
Pastures Have Current Soil Tests		3	
Pesticide Spill Kit Availability		1	
Pesticides, Application Recordkeeping		1	
Pesticides, Container Handling		1	
Pesticides, Mixing and Loading In Field		1	
Secondary Containment, Mix-Load		1	
Soil Erosion Controlled	3,000		
Soil Testing, Representative Sampling		1	
Soil Testing, Triennial		14	
Soil, Nutrient Records	123		
Storage, Spill Kit		1	
Water Use Reported		1	
Well Tests, Every Three Years		2	
Well Tests, Health Standards		2	
Kalamazoo	1,261	195	100
Adequate Land Base for Nutrients		1	
Anti-Backflow Device Installed		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Dead Animals Handled According to BODA		6	
Dead Animals, Composting Isolation Distance		1	
Dead Animals, Composting Process Follows BODA		2	
Dead Animals Composting Meets BODA Requirements		1	
Dead Animals: Composting Process Properly Managed		1	
Drift Management Plan, New		5	
Drift Management Plan, Revised		7	
Emergency Plan, Fertilizer New		2	
Emergency Plan, Fertilizer Revised		5	
Emergency Plan, Manure Spill, New		2	
Emergency Plan, Manure Spill, Revised		1	
Emergency Plan, Pesticide New		2	
Emergency Plan, Pesticide Revised		7	
Environmentally Sensitive Areas Identified	60		
Impermeable Surface, Fuel		5	
Irrigation Fuel Tank Meets Setback Requirements		2	
Irrigation Records Maintained		1	
Irrigation, Amount Determined Accurately		2	
Irrigation, Rain Gauges in Fields		4	
Irrigation, Record Keeping		2	
Isolation Distances Met		10	
Livestock Management, Recordkeeping		1	
Manure Storage, Farmstead Stacked, Odor and Pest Control		2	
Manure Storage, Field Stacked Duration		1	
Manure Storage, Isolation Distances Met		1	
Manure Storage, Runoff Management		1	
Manure Storage, Temporary Duration		3	
Manure Storage, Temporary Location		2	
Manure Storage, Temporary, Odor and Pest Control		2	
Manure Storage, Temporary, Surface Water Setback		2	
Manure, Management Records		3	
Manure, Odor Management		1	
Nutrient Management Records, Multiple		1	
Odor Management Plan		9	
Other Environmental Risks Resolved		2	
Pasture Soil Tested		2	
Pastures Have Current Soil Tests		2	
Pesticide Application, Recordkeeping		1	
Pesticide Drift Management Plan, New		1	
Pesticide Inventory Control		2	
Pesticide Labels Are Followed		4	
Pesticide Spill Kit Availability		5	
Pesticides Used And Stored According To SSWQPs		1	
Pesticides, Application Recordkeeping		5	
Pesticides, Container Handling		1	
Pesticides, Drift Management Plan, New		5	
Pesticides, Drift Management Plan, Revised		2	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Pesticides, Emergency Plan and Contacts		4	
Pesticides, Label Compliance		1	
Pesticides, Mixing and Loading In Field		1	
Precipitation Leading to Contaminated Run-Off		2	
Reporting and Recordkeeping Compliance		1	
Rinsate, Label Rates		1	
Secondary Containment, Fertilizer		1	
Secondary Containment, Mix-Load		2	
Silage, Leachate Collection/Treatment			100
Silage, Leachate Management		2	
Silage, Leachate Ponding		2	
Soil and/or Tissue Testing, Quadrennial	50		
Soil Testing, Triennial		3	
Soil, Nutrient Records	1,151		
Storage, Dedicated		1	
Storage, Signage		3	
Storage, Spill Kit		7	
Storage, Spill Protection		1	
Veterinary Product and Waste Disposal		4	
Water Use Reported		1	
Water, Protected From Pesticide Contamination		3	
Well Construction		3	
Well Inspected		3	
Well Repaired to Standards		1	
Well Tests, Every Three Years		10	
Well Tests, Health Standards		6	
Kent	720	99	
Dead Animals Handled According to BODA		2	
Dead Animals Composting Meets BODA Requirements		1	
Drift Management Plan, New		4	
Emergency Plan, Fertilizer New		4	
Emergency Plan, Manure Spill, New		4	
Emergency Plan, Manure Spill, Revised		1	
Emergency Plan, Pesticide New		6	
Environmentally Sensitive Areas Identified	668		
Farm Emergency Plan Developed and Followed, New		3	
Irrigation, Evaluation for Uniformity		1	
Irrigation, Rain Gauges in Fields		5	
Irrigation, Record Keeping		2	
Isolation Distances Met		2	
Livestock Management, Anti-Backflow device installed		1	
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	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Pesticide Drift Management Plan, New		5	
Pesticide Spill Kit Availability		9	
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		7	
Storage, Spill Kit		10	
Well Repaired to Standards		1	
Well Tests, Every Three Years		9	
Well Tests, Health Standards		2	
Lake		6	
All Habitat Types Identified and Mapped In LMP		1	
Livestock Management, Recordkeeping		1	
Well Decommissioned		1	
Well Tests, Every Three Years		3	
Lapeer	3,092	91	
Crop Yields, Realistic Goals		4	
Drift Management Plan, New		2	
Emergency Plan, Manure Spill, New		5	
Emergency Plan, Manure Spill, Revised		1	
Emergency Plan, Pesticide Revised		1	
Environmentally Sensitive Areas Identified	149		
Fertilizer, Determination of Rates		3	
Impermeable Surface, Fuel		1	
Irrigation Fuel Tank Meets Setback Requirements		1	
Irrigation, Rain Gauges in Fields		3	
Land Management Plan, New		1	
Manure Application, Rate Determination		2	
Manure Application, Rates Do Not Exceed Crop N Needs		1	
Manure Applications Do Not Exceed Crop P Needs		1	
Manure Storage, Temporary Location		3	
Manure, Application Rates Do Not Exceed Crop P Needs	11		
Manure, Management Records		3	
Manure, Nutrient Content Determination		3	
Nutrient Management Plans, Annual By Field	2,578		
Odor Management Plan		5	
P Fertilizer, Rate Determination		5	
Pasture Soil Tested		2	
Pastures Have Current Soil Tests		2	
Pesticide Spill Kit Availability		3	
Pesticides, Application Recordkeeping		2	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Pesticides, Container Handling		2	
Pesticides, Drift Management Plan, New		5	
Pesticides, Emergency Plan and Contacts		2	
Pesticides, Rinsate Disposal		1	
Soil Testing, Triennial		6	
Soil, Nutrient Records	354		
Storage, Decommissioned		4	
Storage, FLCL Rules		1	
Storage, Monitored for Leaks		1	
Storage, Security		1	
Storage, Signage		2	
Storage, Spill Kit		2	
Veterinary Product and Waste Disposal		1	
Waste, Ash Disposal		1	
Well Repaired to Standards		1	
Well Tests, Every Three Years		4	
Well Tests, Health Standards		3	
Leelanau	95	89	
Drift Management Plan, New		4	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Pesticide New		6	
Environmentally Sensitive Areas Identified	53		
Fertilizer, Rate Determination	20		
Impermeable Surface, Fuel		2	
Irrigation, Rain Gauges in Fields		1	
Irrigation, Record Keeping		2	
Isolation Distances Met		7	
Large Quantity Water Withdrawal Registered		1	
Livestock Management, Recordkeeping		2	
Livestock Management, Siting		1	
Manure, Application Rates Do Not Exceed Crop P Needs	1		
Manure, Management Records		1	
Nutrient Management Plans, Annual By Field	1		
Nutrient Management Records, Multiple		21	
Other Environmental Risks Resolved		1	
Pesticide Application, Recordkeeping		1	
Pesticide Drift Management Plan, New		1	
Pesticide Spill Kit Availability		4	
Reporting and Recordkeeping Compliance		4	
Secondary Containment, Mix-Load		3	
Secondary Containment, Pesticides		1	
Soil and/or Tissue Testing, Quadrennial	20		
Soil Testing, Triennial		1	
Storage, Security		1	
Storage, Signage		8	
Storage, Spill Kit		8	
Waste, Floor Drains		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Waste, Recycling and Disposal		1	
Well Decommissioned		1	
Well Tests, Every Three Years		2	
Well Tests, Health Standards		2	
Lenawee	5,854	199	
No Adverse Impact To Endangered/Threatened Species		3	
All Habitat Types Identified and Mapped In LMP		15	
Aquatic Resource Options Identified Within Plan		1	
Rare And Sensitive Species And Habitats Protected		4	
Bogs And Fens Identified And RMZs Established		3	
Drift Management Plan, New		2	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Manure Spill, New		1	
Emergency Plan, Manure Spill, Revised		1	
Environmentally Sensitive Areas Identified	600		
Forest Roads Established And Maintained To Avoid Erosion		4	
Invasive Species Identified And Managed		3	
IPM Used To Control Pests		1	
Irrigation, Rain Gauges in Fields		3	
Land Management Plan, New		14	
Land Units Evaluated For Stocking Levels of Desired Species		1	
Landowner Complies With Laws And Ordinances		3	
Landowner Enrolled in Appropriate Programs		2	
Minimal Impact To Cultural Sites		1	
Livestock Management, Anti-Backflow device installed		5	
LMP Allows for Active and Adaptive Management		9	
LMP Identifies All Resource Concerns		3	
LMP Includes Details of Desired Future Conditions		1	
LMP Includes Landowner Objectives		5	
LMP Prepared By Professional Natural Resource Manager		2	
Management Conforms to Applicable Forest Land BMPs		2	
Management Activities Conform To GAFMPs		3	
Manure, Management Records		2	
Nutrient Management Plans, Annual By Field	467		
Odor Management Plan		25	
Other Environmental Risks Resolved		1	
Owner Monitors Harvests for Conformance With LMP		3	
P Fertilizer, Rate Determination		1	
Pesticide Drift Management Plan, New		1	
Pesticide Spill Kit Availability		7	
Pesticides Used And Stored According To SSWQPs		3	
Pesticides, Drift Management Plan, New		3	
Timber Management And Habitat Conflicts Addressed		2	
Prescribed Burnings Follow Approved FMP		2	
Soil Erosion Controlled	4,320		
Soil Testing, Triennial		8	
Soil, Nutrient Records	467		

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Storage, Signage		1	
Storage, Spill Kit		3	
Sustainable Soil And Water Quality Practices Followed		4	
Timber Sale Contract Prepared By Professional Forester		1	
Waste, Floor Drains		1	
Riparian Management Zones Established		7	
Well Repaired to Standards		2	
Well Tests, Every Three Years		14	
Well Tests, Health Standards		15	
Livingston	1,651	14	
Adequate Land Base for Nutrients		1	
Drift Management Plan, New		2	
Environmentally Sensitive Areas Identified	836		
Manure Application, Rate Determination		1	
Manure Applications Do Not Exceed Crop P Needs		1	
Pastures Have Current Soil Tests		2	
Pesticides, Drift Management Plan, New		1	
Pesticides, Drift Management Plan, Revised		1	
Soil Erosion Controlled	815		
Soil Testing, Triennial		1	
Veterinary Product and Waste Disposal		3	
Well Tests, Every Three Years		1	
Luce	2	17	
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	
Pesticide Spill Kit Availability		2	
Pesticides, Application Recordkeeping		1	
Soil Testing, Triennial		1	
Soil, Nutrient Records	2		
Storage, Security		1	
Storage, Signage		1	
Storage, Spill Kit		1	
Well Tests, Every Three Years		1	
Well Tests, Health Standards		1	
Mackinac		28	
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 Yard, Drainage Diversion		1	
Manure Storage, Temporary Duration		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Pesticides Used And Stored According To SSWQPs		1	
Storage, Spill Kit		2	
Sustainable Soil And Water Quality Practices Followed		1	
Timber Sale Contract Prepared By Professional Forester		1	
Waste, Farm Dump		1	
Waste, Floor Drains		1	
Well Decommissioned		2	
Well Repaired to Standards		1	
Well Tests, Every Three Years		5	
Well Tests, Health Standards		5	
Macomb	21	20	
Drift Management Plan, New		3	
Manure Application, Rate Determination		1	
Manure Application, Runoff Prevention	10		
Manure Storage, Temporary Location		2	
Manure, Management Records		1	
Nutrient Management Plans, Annual By Field	11		
P Fertilizer, Rate Determination		1	
Pesticide Spill Kit Availability		1	
Pesticides, Drift Management Plan, New		1	
Soil Testing, Triennial		3	
Well Tests, Every Three Years		4	
Well Tests, Health Standards		3	
Marquette		28	
No Adverse Impact To Endangered/Threatened Species		1	
Appropriate Records For Forest Product Harvests		3	
Forestland In Sustainable Forest Certification Program		4	
Invasive Species Identified And Managed		1	
Land Management Plan, New		1	
Landowner Enrolled in Appropriate Programs		3	
Landowner Uses Natural Resource Professionals For Services		2	
Landowner Uses Professionals To Comply With All Laws		3	
LMP Allows for Active and Adaptive Management		1	
Owner Monitors Harvests for Conformance With LMP		2	
Pesticides Used And Stored According To SSWQPs		4	
Timber Management And Habitat Conflicts Addressed		1	
Timber Sale Contract Prepared By Professional Forester		2	
Mason		4	
Emergency Plan, Pesticide New		1	
Impermeable Surface, Fuel		1	
Storage, Security		1	
Waste, Recycling and Disposal		1	
Mecosta		17	
102 Comprehensive Nutrient Management Plan - Written		1	
Emergency Plan, Manure Spill, Revised		1	
Impermeable Surface, Fuel		1	
Land Management Plan, New		5	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Manure Storage, Field Stacked Duration		1	
Manure, Management Records		1	
Odor Management Plan		1	
Pesticides, Emergency Plan and Contacts		1	
Soil Testing, Representative Sampling		1	
Soil Testing, Triennial		2	
Storage, Spill Kit		1	
Well Tests, Every Three Years		1	
Menominee	16,703	102	145,705
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		
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		2	
Manure Application, Rate Determination		3	
Manure Applications, Weather Forecasts Monitored		3	
Manure Storage, Liquid Storage Maintained Properly			145,705
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	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
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	
Midland	562	2	
590 Nutrient Management		1	
595 Integrated Pest Management (IPM)	562		
Pesticide Spill Kit Availability		1	
Missaukee	5	41	
Cover Crop Use	5		
Drift Management Plan, Revised		1	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Fertilizer Revised		1	
Emergency Plan, Manure Spill, New		2	
Emergency Plan, New, Silage		2	
Emergency Plan, New, Tire Fire		1	
Emergency Plan, Pesticide New		1	
Emergency Plan, Pesticide Revised		1	
Emergency Plan, Revised, Tire Fire		1	
Impermeable Surface, Fuel		1	
Isolation Distances Met		5	
Manure, Management Records		1	
Odor Management Plan		1	
Pesticide Spill Kit Availability		3	
Pesticides, Drift Management Plan, Revised		1	
Pesticides, Emergency Plan and Contacts		3	
Secondary Containment, Pesticides		1	
Storage, Appropriate Tanks		2	
Storage, Signage		1	
Storage, Spill Kit		2	
Well Tests, Every Three Years		5	
Well Tests, Health Standards		4	
Monroe	10,524	49	
No Adverse Impact To Endangered/Threatened Species		1	
All Habitat Types Identified and Mapped In LMP		1	
Dead Animals Handled According to BODA		1	
Drift Management Plan, New		1	
Emergency Plan, Manure Spill, New		3	
Emergency Plan, Manure Spill, Revised		1	
Emergency Plan, Pesticide New		2	
Emergency Plan, Pesticide Revised		1	
Environmentally Sensitive Areas Identified	8,818		
Impermeable Surface, Fuel		3	
Isolation Distances Met		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Land Management Plan, New		1	
Livestock Management, Recordkeeping		1	
LMP Allows for Active and Adaptive Management		1	
LMP Includes Landowner Objectives		1	
Manure Application, Rate Determination		1	
Manure Storage, Temporary Location		1	
Manure, Management Records		2	
Nutrient Management Plans, Annual By Field	765		
Odor Management Plan		3	
Pasture Soil Tested		1	
Pastures Have Current Soil Tests		2	
Pesticide Spill Kit Availability		1	
Pesticides, Application Recordkeeping		1	
Soil Erosion Controlled	43		
Soil Testing, Triennial		8	
Soil, Nutrient Records	898		
Storage, Appropriate Tanks		4	
Storage, Spill Kit		2	
Waste, Floor Drains		1	
Well Tests, Every Three Years		3	
Montcalm	0.5	7	
Forest Roads Established And Maintained To Avoid Erosion		1	
Impermeable Surface, Fuel		1	
Manure, Management Records		1	
Secondary Containment, Mix-Load		1	
Soil Testing, Triennial		1	
Soil, Nutrient Records	0.5		
Storage, Signage		1	
Well Tests, Every Three Years		1	
Montmorency		12	
Secondary Containment, Mix-Load		1	
Soil Testing, Triennial		4	
Storage, Spill Kit		1	
Well Tests, Every Three Years		3	
Well Tests, Health Standards		3	
Muskegon	1,482	92	
Adequate Land Base for Nutrients		1	
Anti-Backflow Device Installed		2	
Crop Yields, Realistic Goals		1	
Drift Management Plan, New		1	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Fertilizer Revised		1	
Emergency Plan, Manure Spill, Revised		1	
Emergency Plan, Pesticide New		2	
Environmentally Sensitive Areas Identified	743		
Excess Product and Rinsate, Label Rates		1	
Farm Emergency Plan Developed and Followed, New		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Fertilizer, Determination of Rates		2	
Impermeable Surface, Fuel		1	
Irrigation, Amount Determined Accurately		2	
Irrigation, Evaluation for Uniformity		1	
Irrigation, Record Keeping		2	
Irrigation, System Evaluation		2	
Isolation Distances Met		14	
Livestock Yard, Surface Water Setback		1	
Manure Storage, Temporary Duration		1	
Manure Storage, Temporary Location		1	
Nutrient Management Plans, Annual By Field	10		
Nutrients, All Sources Considered		1	
P Fertilizer, Rate Determination		5	
Pesticide Drift Management Plan, New		2	
Pesticide Handling, Field Mixing and Loading		2	
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	
Reporting and Recordkeeping Compliance		9	
Secondary Containment, Mix-Load		2	
Secondary Containment, Pesticides		1	
Soil Erosion Controlled	711		
Soil Testing, Triennial		1	
Soil, Nutrient Records	18		
Sprayer, Cleaning Water Collected		1	
Storage, Application Equipment		1	
Storage, Monitored for Leaks		1	
Storage, Signage		3	
Storage, Spill Kit		2	
Waste, Floor Drains		1	
Waste, Recycling and Disposal		3	
Well Repaired to Standards		1	
Worker Protection, Proper Training		1	
Newaygo	1,481.5	128	
Anti-Backflow Device Installed		6	
Containers, Properly Rinsed		2	
Crop Yields, Realistic Goals		2	
Dead Animals Handled According to BODA		2	
Drift Management Plan, New		2	
Emergency Plan, Manure Spill, Revised		1	
Environmentally Sensitive Areas Identified	246		
Equipment, Parking and Storage		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Excess Product, Label Rates		1	
Fertilizer, Determination of Rates		5	
Impermeable Surface		1	
Impermeable Surface, Fuel		2	
Irrigation, Amount Determined Accurately		1	
Irrigation, Evaluation for Uniformity		2	
Irrigation, Rain Gauges in Fields		1	
Irrigation, Record Keeping		1	
Isolation Distances Met		9	
Large Quantity Water Withdrawal Registered		3	
Livestock Management, Anti-Backflow device installed		2	
Livestock Management, Recordkeeping		1	
Livestock Management, Runoff Management		1	
Livestock Management, Siting		1	
Livestock Yard, Drainage Diversion		1	
Manure Application, Procedure	5		
Manure Application, Rate Determination		3	
Manure Applications Do Not Exceed Crop P Needs		1	
Manure Storage, Temporary Location		1	
Manure Storage, Temporary, Surface Water Setback		1	
Manure, Management Records		3	
Manure, Nutrient Content Determination		4	
Nutrient Management Plans, Annual By Field	434		
Nutrients, All Sources Considered		4	
Odor Management Plan		2	
P Fertilizer, Rate Determination		6	
Pasture Management For Vegetation and Runoff		1	
Pasture Soil Tested		1	
Pastures Have Current Soil Tests		1	
Pesticide Drift Management Plan, New		3	
Pesticide Spill Kit Availability		3	
Pesticides, Application Recordkeeping		2	
Pesticides, Container Handling		2	
Pesticides, Drift Management Plan, New		1	
Pesticides, Emergency Plan and Contacts		2	
Pesticides, Rinsate Disposal		1	
Reporting and Recordkeeping Compliance		1	
Rinsate, Label Rates		1	
Secondary Containment, Mix-Load		2	
Secondary Containment, Pesticides		3	
Silage, Leachate Management		1	
Soil Erosion Controlled	11		
Soil Testing, Representative Sampling		1	
Soil Testing, Triennial		6	
Soil, Nutrient Records	779.5		
Soil, pH Maintenance	6		
Storage, Application Equipment		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Storage, Elevation		1	
Storage, Security		2	
Storage, Signage		2	
Storage, Spill Kit		2	
Veterinary Product and Waste Disposal		1	
Waste, Floor Drains		3	
Waste, Isolation Distances Met		1	
Waste, Recycling and Disposal		2	
Water Use Reported		1	
Well Decommissioned		3	
Well Tests, Every Three Years		2	
Well Tests, Health Standards		2	
Oakland	43	18	
Drift Management Plan, New		1	
Environmentally Sensitive Areas Identified	1		
Fertilizer, Determination of Rates		1	
Fertilizer, Rate Determination	40		
Impermeable Surface, Fuel		1	
Irrigation, Amount Determined Accurately		1	
Irrigation, Record Keeping		1	
Land Management Plan, New		1	
Landowner Complies With Laws And Ordinances		2	
Livestock Management, Recordkeeping		1	
Manure Application, Rates Do Not Exceed Crop N Needs		1	
Manure Applications Do Not Exceed Crop P Needs		1	
Manure Applications, Weather Forecasts Monitored		1	
Manure, Application Rates Do Not Exceed Crop P Needs	1		
Manure, Nutrient Content Determination		1	
Nutrient Management Plans, Annual By Field	1		
Odor Management Plan		1	
Soil Testing, Triennial		1	
Storage, Signage		1	
Waste, Floor Drains		1	
Well Tests, Every Three Years		1	
Oceana	2,048.3	134	
Adequate Land Base for Nutrients		1	
No Adverse Impact To Endangered/Threatened Species		1	
All Habitat Types Identified and Mapped In LMP		1	
Containers, Properly Rinsed		1	
Dead Animals Handled According to BODA		2	
Drift Management Plan, New		4	
Drift Management Plan, Revised		2	
Emergency Plan, Manure Spill, New		2	
Emergency Plan, Manure Spill, Revised		2	
Emergency Plan, Pesticide New		5	
Emergency Plan, Pesticide Revised		7	
Environmentally Sensitive Areas Identified	1,656		

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Excess Product, Label Rates		1	
Farm Emergency Plan Developed and Followed, New		1	
Farm Emergency Plan Developed and Followed, Revised		1	
Fertilizer, Determination of Rates		2	
Food Safety Plan Written and Implemented		1	
Impermeable Surface, Fuel		2	
Irrigation, Backflow Prevention		2	
Irrigation, Chemigation Storage Setback		2	
Irrigation, Rain Gauges in Fields		1	
Irrigation, Record Keeping		2	
Isolation Distances Met		3	
Land Management Plan, New		1	
Landowner Enrolled in Appropriate Programs		1	
Minimal Impact To Cultural Sites		1	
Livestock Management, NMP		1	
LMP Allows for Active and Adaptive Management		1	
LMP Includes Landowner Objectives		1	
LMP Prepared By Professional Natural Resource Manager		1	
Manure Application, Rate Determination		2	
Manure Applications Do Not Exceed Crop P Needs		1	
Manure, Nutrient Content Determination		1	
Non-Forested/Non-Wetland Habitats Being Restored	3.3		
Nutrient Management Plans, Annual By Field	49		
Odor Management Plan		3	
Pasture Soil Tested		1	
Pesticide Application, Recordkeeping		1	
Pesticide Drift Management Plan, New		1	
Pesticide Drift Management Plan, Revised		3	
Pesticide Handling, Field Mixing and Loading		1	
Pesticide Mixture, Disposal of Excess		1	
Pesticides Used And Stored According To SSWQPs		1	
Pesticides, Application Recordkeeping		1	
Pesticides, Container Handling		3	
Pesticides, Drift Management Plan, New		2	
Pesticides, Drift Management Plan, Revised		1	
Pesticides, Emergency Plan and Contacts		3	
Pesticides, Equipment Calibration		1	
Pesticides, Mixing and Loading In Field		1	
Reporting and Recordkeeping Compliance		8	
Non-Forested/Non-Wetland Restoration Potential Assessed		1	
Rinsate, Label Rates		1	
RTF Site Selection and Odor-Control GAAMPS Met		1	
Runoff/Sedimentation Controlled		1	
RUP Compliance		1	
Secondary Containment, Mix-Load		1	
Soil and/or Tissue Testing, Quadrennial	164		
Soil Erosion Controlled	176		

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Soil Testing, Triennial		2	
Special Sites Protected		1	
Sprayer, Cleaning Water Collected		2	
Storage, Appropriate Tanks		3	
Storage, Buildings Setback		1	
Storage, Signage		6	
Storage, Spill Kit		9	
Waste, Floor Drains		2	
Water Use Reported		1	
Well Tests, Every Three Years		10	
Worker Protection Standards Met		1	
Worker Protection, Central Notification		1	
Ogemaw	1		
Erosion Controlled, Site	1		
Osceola		13	
All Habitat Types Identified and Mapped In LMP		1	
Anti-Backflow Device Installed		1	
Odor Management Plan		1	
Pesticide Spill Kit Availability		1	
Well Decommissioned		2	
Well Tests, Every Three Years		5	
Well Tests, Health Standards		2	
Oscoda		11	
Drift Management Plan, New		1	
Emergency Plan, Manure Spill, New		2	
Emergency Plan, Pesticide New		1	
Livestock Management, Recordkeeping		5	
Pesticide Application, Recordkeeping		1	
Pesticide Drift Management Plan, New		1	
Otsego	4	33	
Anti-Backflow Device Installed		3	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Manure Spill, New		2	
Emergency Plan, Pesticide New		1	
Livestock Management, Recordkeeping		1	
Manure Application, Odor-Reduction Practices		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, Odor and Pest Control		2	
Manure Storage, Temporary, Surface Water Setback		2	
Manure, Application Procedure	1		
Manure, Application to Avoid Ponding, Erosion, and Runoff		2	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Manure, Field Stockpile Duration		1	
Manure, Isolation Distances Met		1	
Manure, Management Records		2	
Manure, Odor Management		1	
Manure, Temporary Stacking Setback		1	
Nutrient Management Records, Multiple		1	
Soil, Nutrient Records	1		
Well Setback, Manure Sources		1	
Well Tests, Every Three Years		2	
Ottawa	1,945.6	107	
Adequate Land Base for Nutrients		1	
Anti-Backflow Device Installed		2	
Chemigation, Anti-backflow Device		2	
Dead Animals Handled According to BODA		7	
Dead Animals Composting Meets BODA Requirements		1	
Drift Management Plan, New		5	
Emergency Plan, Fertilizer New		1	
Emergency Plan, Manure Spill, New		1	
Emergency Plan, Manure Spill, Revised		1	
Emergency Plan, Pesticide New		4	
Environmentally Sensitive Areas Identified	886.6		
Farm Emergency Plan Developed and Followed, New		1	
Fertilizer, Rate Determination	900		
Herbicide Setback Maintenance		2	
Impermeable Surface, Fuel		3	
Irrigation, Amount Determined Accurately		1	
Irrigation, Rain Gauges in Fields		1	
Irrigation, Record Keeping		2	
Irrigation, Sock Wells Isolated		1	
Isolation Distances Met		2	
Livestock Management, Anti-Backflow device installed		2	
Livestock Management, Recordkeeping		1	
Livestock Yard, Runoff Management		1	
Manure Application, Rate Determination		1	
Manure Application, Runoff Prevention	2		
Manure Storage, Design and Construction		1	
Manure Storage, Temporary Location		1	
Manure, Application Rates Do Not Exceed Crop P Needs	111		
No Cross-Connections To Water, Isolation Distances Met		6	
Nutrient Management Plans, Annual By Field	16		
Nutrients, All Sources Considered		1	
Odor Management Plan		4	
Pesticide Application Equipment Calibrated Annually		1	
Pesticide Drift Management Plan, New		1	
Pesticide Handling, Field Mixing and Loading		1	
Pesticide Rinsate, Proper Handling		1	
Pesticide Spill Kit Availability		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Pesticides, Application Recordkeeping		1	
Pesticides, Emergency Plan and Contacts		2	
Pesticides, Equipment Calibration		1	
Pesticides, Excess Spray Mixture Use		1	
Pesticides, Mixing and Loading In Field		1	
Pesticides, Rinsate Disposal		1	
Secondary Containment, Mix-Load		1	
Soil Erosion Controlled	30		
Storage, Appropriate Tanks		2	
Storage, Dedicated		1	
Storage, Portable Fueling		2	
Storage, Signage		5	
Storage, Spill Kit		5	
Storage, Valves and Hoses		2	
Waste, Floor Drains		2	
Waste, Recycling and Disposal		1	
Well Decommissioned		1	
Well Repaired to Standards		7	
Well Tests, Every Three Years		9	
Well Tests, Health Standards		1	
Presque Isle		14	
Drift Management Plan, New		1	
Emergency Plan, Pesticide New		1	
Isolation Distances Met		2	
Secondary Containment, Pesticides		1	
Soil Testing, Representative Sampling		1	
Soil Testing, Triennial		3	
Storage, Security		1	
Storage, Signage		1	
Storage, Spill Kit		1	
Well Tests, Every Three Years		1	
Well Tests, Health Standards		1	
Saginaw	21,238	26	
Emergency Plan, Pesticide New		1	
Environmentally Sensitive Areas Identified	9,436		
Fertilizer Records Maintained		1	
Impermeable Surface, Fuel		1	
Irrigation Records Maintained		1	
Manure, Nutrient Content Determination		1	
Nutrient Management Plans, Annual By Field	66		
Nutrients, All Sources Considered		1	
Odor Management Plan		1	
Other Environmental Risks Resolved	1,000	1	
Pesticide Spill Kit Availability		2	
Pesticides, Drift Management Plan, New		4	
Secondary Containment, Mix-Load		1	
Soil Erosion Controlled	10,486		

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Soil Testing, Triennial	250	2	
Storage, Security		1	
Storage, Signage		1	
Well Tests, Every Three Years		5	
Well Tests, Health Standards		2	
Saint Clair	3,552	62	
Adequate Land Base for Nutrients		1	
Dead Animals Handled According to BODA		3	
Drift Management Plan, New		2	
Emergency Plan, Manure Spill, New		1	
Emergency Plan, Pesticide New		3	
Environmentally Sensitive Areas Identified	1,634		
Erosion Controlled, Site	3		
Impermeable Surface, Fuel		1	
Irrigation, Record Keeping		1	
Isolation Distances Met		1	
Livestock Management, Siting		1	
Manure Storage, Temporary Location		1	
Manure, Management Records		1	
Nutrient Management Plans, Annual By Field	548		
Pastures Have Current Soil Tests		1	
Pesticide Application, Recordkeeping		2	
Pesticide Drift Management Plan, New		2	
Pesticide Spill Kit Availability		4	
Pesticides, Application Recordkeeping		3	
Pesticides, Drift Management Plan, New		4	
Pesticides, Emergency Plan and Contacts		4	
Pesticides, Excess Spray Mixture Use		1	
Secondary Containment, Mix-Load		1	
Secondary Containment, Pesticides		1	
Soil and/or Tissue Testing, Quadrennial	3		
Soil Erosion Controlled	831		
Soil Testing, Triennial		3	
Soil, Nutrient Records	533		
Storage, Signage		3	
Storage, Spill Kit		2	
Waste, Floor Drains		1	
Water, Protected From Pesticide Contamination		1	
Well Tests, Every Three Years		6	
Well Tests, Health Standards		7	
Saint Joseph	1	17	
Drift Management Plan, Revised		1	
Emergency Plan, Fertilizer Revised		1	
Emergency Plan, Pesticide Revised		1	
Impermeable Surface, Fuel		3	
Odor Management Plan		1	
Pesticide Spill Kit Availability		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Pesticides, Drift Management Plan, New		1	
Pesticides, Drift Management Plan, Revised		1	
Pesticides, Emergency Plan and Contacts		1	
Soil Testing, Representative Sampling		1	
Soil Testing, Triennial		1	
Soil, Nutrient Records	1		
Storage, Buildings Setback		1	
Waste, Floor Drains		2	
Waste, Recycling and Disposal		1	
Sanilac	16,769	74	
Drift Management Plan, Revised		2	
Emergency Plan, Pesticide Revised		1	
Environmentally Sensitive Areas Identified	4,892		
Fertilizer, Determination of Rates		1	
Herbicide Setback Maintenance		1	
Isolation Distances Met		3	
Manure Application, Procedure	1,200		
Manure Storage, Temporary, Surface Water Setback		1	
Manure, Liquid Loss Through Tile Lines		1	
Manure, Management Records		8	
Manure, Nutrient Content Determination		3	
Manure, Winter Application Procedure	791		
Nutrient Management Plans, Annual By Field	1,409		
Odor Management Plan		1	
P Fertilizer, Rate Determination		1	
Pesticide Spill Kit Availability		7	
Pesticides, Application Recordkeeping		6	
Pesticides, Drift Management Plan, New		5	
Pesticides, Drift Management Plan, Revised		4	
Pesticides, Emergency Plan and Contacts		2	
Pesticides, Label Compliance		4	
Pesticides, Mixing and Loading In Field		1	
Soil Erosion Controlled	6,313		
Soil Testing, Representative Sampling		2	
Soil, Nutrient Records	2,164		
Storage, Signage		9	
Water, Protected From Pesticide Contamination		9	
Well Tests, Every Three Years		2	
Schoolcraft	40	6	
Manure Application, Procedure	40		
Manure, Nutrient Content Determination		2	
Pesticide Spill Kit Availability		1	
Pesticides, Emergency Plan and Contacts		1	
Secondary Containment, Pesticides		1	
Storage, Spill Kit		1	
Shiawassee	40,245.5	99	
Adequate Land Base for Nutrients		2	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Cover Crop Use	1,258		
Dead Animals Composting Meets BODA Requirements		1	
Drift Management Plan, New		6	
Drift Management Plan, Revised		2	
Emergency Plan, Fertilizer Revised		10	
Emergency Plan, Manure Spill, Revised		1	
Emergency Plan, Pesticide Revised		10	
Emergency Plan, Revised, Silage		1	
Environmentally Sensitive Areas Identified	19,426.7		
Impermeable Surface, Fuel		3	
Irrigation, Amount Determined Accurately		1	
Irrigation, Record Keeping		1	
Isolation Distances Met		1	
Livestock Management, Recordkeeping		1	
Livestock Management, Runoff Management		1	
Livestock Yard, Drainage Diversion		2	
Livestock Yard, Runoff Management		1	
Manure Application, Rate Determination		1	
Manure, Management Records		1	
Manure, Nutrient Content Determination		1	
Nutrients, All Sources Considered		2	
Pesticide Spill Kit Availability		1	
Pesticides, Application Recordkeeping		3	
Pesticides, Drift Management Plan, New		9	
Pesticides, Equipment Calibration		1	
Pesticides, Rinsate Disposal		2	
Precipitation Leading to Contaminated Run-Off		1	
Reporting and Recordkeeping Compliance		1	
Secondary Containment, Mix-Load		2	
Secondary Containment, Pesticides		2	
Soil Erosion Controlled	18,366.2		
Soil Testing, Triennial		2	
Soil, Nutrient Records	1,194.6		
Storage, Dedicated		1	
Storage, Designed Use		1	
Storage, Labeled Containers		1	
Storage, Security		2	
Storage, Signage		5	
Storage, Spill Kit		2	
Well Decommissioned		2	
Well Tests, Every Three Years		12	
Tuscola	4,174	64	
Adequate Land Base for Nutrients		4	
Anti-Backflow Device Installed		1	
Drift Management Plan, New		1	
Emergency Plan, Pesticide Revised		1	
Environmentally Sensitive Areas Identified	1,693		

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Impermeable Surface, Fuel		5	
Isolation Distances Met		1	
Leaching/Runoff Toxic Potential Consideration		2	
Livestock Yard, Manure Scrape and Haul		1	
Manure Applications Do Not Exceed Crop P Needs		1	
Manure, Management Records		1	
Nutrient Management Plans, Annual By Field	565		
Pesticide Spill Kit Availability		2	
Pesticides, Application Recordkeeping		1	
Pesticides, Drift Management Plan, New		4	
Portion of Animal Feed Produced On Farm		1	
Soil Erosion Controlled	1,650		
Soil Testing, Representative Sampling		1	
Soil Testing, Triennial		2	
Soil, Nutrient Records	133		
Soil, pH Maintenance	133		
Storage, Appropriate Tanks		5	
Storage, Signage		3	
Storage, Spill Kit		1	
Waste, Floor Drains		3	
Water, Protected From Pesticide Contamination		1	
Well Decommissioned		1	
Well Tests, Every Three Years		14	
Well Tests, Health Standards		7	
Van Buren	1,116	101	
Biosolids, Nutrient Application Rates		1	
Biosolids, Nutrient Content Determination		1	
Dead Animals Handled According to BODA		1	
Dead Animals, Composting Isolation Distance		1	
Drift Management Plan, New		2	
Drift Management Plan, Revised		1	
Emergency Plan, Fertilizer Revised		2	
Emergency Plan, Manure Spill, New		2	
Emergency Plan, Manure Spill, Revised		3	
Emergency Plan, Pesticide New		1	
Emergency Plan, Pesticide Revised		3	
Environmentally Sensitive Areas Identified	471		
Farm Emergency Plan Developed and Followed, Revised		2	
Impermeable Surface, Fuel		2	
Irrigation, Rain Gauges in Fields		1	
Irrigation, Record Keeping		2	
Irrigation, Sock Wells Isolated		3	
Isolation Distances Met		3	
Livestock Management, NMP		1	
Manure Storage, Temporary Location		1	
Manure, Management Records		1	
Nutrient Management Records, Multiple		2	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Nutrients, All Sources Considered	200		
Odor Management Plan		4	
Pastures Have Current Soil Tests		1	
Pesticide Application, Recordkeeping		1	
Pesticide Drift Management Plan, Revised		1	
Pesticides, Application Recordkeeping		1	
Pesticides, Drift Management Plan, New		1	
Secondary Containment, Fuel		2	
Soil and/or Tissue Testing, Quadrennial	200		
Soil Testing, Representative Sampling		13	
Soil Testing, Triennial		14	
Soil, Nutrient Records	15		
Soil, pH Maintenance	230		
Storage, Appropriate Tanks		1	
Storage, Portable Fueling		1	
Storage, Security		2	
Storage, Signage		3	
Storage, Spill Kit		2	
Storage, Spill Protection		3	
Well Construction		3	
Well Inspected		3	
Well Tests, Every Three Years		8	
Well Tests, Health Standards		1	
Washtenaw	8,530.0	199	
No Adverse Impact To Endangered/Threatened Species		3	
All Habitat Types Identified and Mapped In LMP	10.1	6	
Altered Wetlands Assessed For Restoration		4	
Rare And Sensitive Species And Habitats Protected		3	
Dead Animals Handled According to BODA		3	
Drift Management Plan, New		3	
Emergency Plan, Fertilizer New		2	
Emergency Plan, Manure Spill, New		2	
Emergency Plan, Manure Spill, Revised		2	
Emergency Plan, New, Silage		2	
Environmentally Sensitive Areas Identified	2,826.0		
Fertilizer, Determination of Rates		5	
Impermeable Surface, Fuel		2	
Invasive Species Identified And Managed	10.1	2	
IPM Used To Control Pests	10.1	1	
Irrigation, Evaluation for Uniformity	150		
Irrigation, Rain Gauges in Fields		1	
Irrigation, Record Keeping		1	
Isolation Distances Met		1	
Land Management Plan, New		3	
Large Quantity Water Withdrawal Registered		3	
Livestock Management, Recordkeeping		3	
Livestock Management, Siting		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
LMP Allows for Active and Adaptive Management		3	
LMP Identifies All Resource Concerns		3	
LMP Includes Details of Desired Future Conditions		2	
LMP Includes Landowner Objectives		3	
LMP Prepared By Professional Natural Resource Manager		3	
LQW Water Use Reported.		3	
Manure Application, MARI Completed	88	1	
Manure Application, Rate Determination		4	
Manure Applications, Weather Forecasts Monitored		1	
Manure Storage, Field Stacked Duration		1	
Manure Storage, Temporary Duration		1	
Manure Storage, Temporary Location		1	
Manure, Management Records		3	
Manure, Nutrient Content Determination		4	
Manure, Winter Application Procedure	256		
Odor Management Plan		3	
P Fertilizer, Rate Determination		2	
Pasture Soil Tested		5	
Pastures Have Current Soil Tests		4	
Pesticide Spill Kit Availability		5	
Pesticides Used And Stored According To SSWQPs		2	
Pesticides, Drift Management Plan, New		6	
Pesticides, Emergency Plan and Contacts		2	
Timber Management And Habitat Conflicts Addressed		1	
Prescribed Burnings Follow Approved FMP		1	
Non-Forested/Non-Wetland Restoration Potential Assessed	10	1	
RTF Site Selection and Odor-Control GAAMPS Met		1	
Septic, Isolation Distances Met		1	
Soil Erosion Controlled	5,149.7		
Soil Testing, Representative Sampling		15	
Soil Testing, Triennial		28	
Soil, Nutrient Records	20		
Special Sites Protected		1	
Storage, Decommissioned		2	
Storage, Spill Kit		9	
Riparian Management Zones Established		5	
Well Repaired to Standards		1	
Well Tests, Every Three Years		11	
Well Tests, Health Standards		7	
Wayne	54	41	
No Adverse Impact To Endangered/Threatened Species		1	
Rare And Sensitive Species And Habitats Protected		1	
Emergency Plan, Pesticide New		1	
Environmentally Sensitive Areas Identified	43		
Fertilizer, Determination of Rates		2	
Invasive Species Identified And Managed		1	
IPM Used To Control Pests		1	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Irrigation Discharge Managed		1	
Irrigation Records Maintained		1	
Irrigation, Rain Gauges in Fields		4	
Irrigation, Record Keeping		3	
Land Management Plan, New		1	
LMP Includes Details of Desired Future Conditions		1	
LMP Prepared By Professional Natural Resource Manager		1	
Nutrient Management Plans, Annual By Field	6		
Other Environmental Risks Resolved		2	
P Fertilizer, Rate Determination		5	
Pesticides, Drift Management Plan, New		1	
Timber Management And Habitat Conflicts Addressed		1	
Soil Erosion Controlled	2		
Soil Testing, Triennial		9	
Soil, Nutrient Records	3		
Storage, Signage		1	
Storage, Spill Kit		1	
Waste, Recycling and Disposal		1	
Riparian Management Zones Established		1	
Wexford	2,172	82	
Adequate Land Base for Nutrients		1	
Cover Crop Use	300		
Dead Animals Handled According to BODA		1	
Drift Management Plan, New		3	
Emergency Plan, Fertilizer New		3	
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		3	
Emergency Plan, Pesticide Revised		1	
Emergency Plan, Revised, Tire Fire		2	
Environmentally Sensitive Areas Identified	1,231		
Habitat for Native Pollinators		1	
Impermeable Surface, Fuel		3	
Irrigation, Rain Gauges in Fields		1	
Irrigation, Record Keeping		1	
Isolation Distances Met		3	
Livestock Management, NMP		1	
Livestock Management, Recordkeeping		2	
Livestock Management, Siting		1	
Manure Application, MARI Completed		1	
Manure, Management Records		1	
Manure, Nutrient Content Determination		3	
Nutrient Management Plans, Annual By Field	21		
Odor Management Plan		3	
Pasture Soil Tested		4	

FY 2019 Technical Assistance Practices Delivered By MAEAP Technicians	Units		
Practices Implemented By County	Acres	Each	Gallon
Pesticide Spill Kit Availability		2	
Pesticides, Drift Management Plan, New		1	
Pesticides, Emergency Plan and Contacts		1	
Secondary Containment, Fuel		4	
Soil Erosion Controlled	600		
Soil Testing, Representative Sampling		1	
Soil Testing, Triennial		4	
Soil, Nutrient Records	20		
Storage, Appropriate Tanks		1	
Storage, Signage		1	
Storage, Spill Kit		4	
Veterinary Product and Waste Disposal		4	
Well Tests, Every Three Years		4	
Well Tests, Health Standards		5	
Unit Totals	223,343	4,603	145,807

TOTAL NUMBER OF PRACTICES IMPLEMENTED	4,240
--	--------------

Michigan Agriculture Environmental Assurance Program FY 2019		
Number of New Assessments and Reassessments By County	New	Reassessment
Alcona		12
Crop*A*Syst, Field Crop and Veg		4
Farm*A*Syst		5
Livestock*A*Syst		3
Alger	5	8
Crop*A*Syst, Field Crop and Veg	1	2
Farm*A*Syst		3
Forest, Wetlands and Habitat *A*Syst	4	
Greenhouse*A*Syst		1
Livestock*A*Syst		2
Allegan	23	60
Crop*A*Syst, Field Crop and Veg	3	19
Crop*A*Syst, Nursery and Christmas Tree	1	1
Farm*A*Syst	9	20
Forest, Wetlands and Habitat *A*Syst	1	3
Fruit*A*Syst	7	4
Livestock*A*Syst	2	13
Alpena		33
Crop*A*Syst, Field Crop and Veg		11
Farm*A*Syst		10
Forest, Wetlands and Habitat *A*Syst		2
Greenhouse*A*Syst		1
Livestock*A*Syst		9
Antrim	8	10
Crop*A*Syst, Field Crop and Veg	2	
Farm*A*Syst	3	4
Fruit*A*Syst		4
Livestock*A*Syst	3	2
Barry	9	8
Crop*A*Syst, Field Crop and Veg	1	2
Farm*A*Syst	3	3
Forest, Wetlands and Habitat *A*Syst	3	1
Livestock*A*Syst	2	2
Bay	3	12
Crop*A*Syst, Field Crop and Veg	2	5
Farm*A*Syst		6
Livestock*A*Syst	1	1
Benzie	10	12
Crop*A*Syst, Field Crop and Veg	3	2
Crop*A*Syst, Nursery and Christmas Tree		1
Farm*A*Syst	4	5
Forest, Wetlands and Habitat *A*Syst	1	
Fruit*A*Syst	1	2
Livestock*A*Syst	1	2
Berrien	32	17

Michigan Agriculture Environmental Assurance Program FY 2019		
Number of New Assessments and Reassessments By County	New	Reassessment
Crop*A*Syst, Field Crop and Veg	9	5
Farm*A*Syst	15	6
Forest, Wetlands and Habitat *A*Syst	1	
Fruit*A*Syst	4	4
Greenhouse*A*Syst		1
Livestock*A*Syst	3	1
Branch	1	11
Crop*A*Syst, Field Crop and Veg		5
Farm*A*Syst		5
Livestock*A*Syst	1	1
Calhoun	11	4
Crop*A*Syst, Field Crop and Veg	5	1
Farm*A*Syst	4	1
Livestock*A*Syst	2	2
Cass	56	2
Crop*A*Syst, Field Crop and Veg	18	
Crop*A*Syst, Nursery and Christmas Tree	1	
Farm*A*Syst	21	2
Forest, Wetlands and Habitat *A*Syst	5	
Greenhouse*A*Syst	2	
Livestock*A*Syst	9	
Charlevoix	1	7
Crop*A*Syst, Field Crop and Veg		1
Farm*A*Syst		3
Forest, Wetlands and Habitat *A*Syst	1	
Fruit*A*Syst		2
Livestock*A*Syst		1
Cheboygan	3	5
Crop*A*Syst, Field Crop and Veg	1	1
Farm*A*Syst	1	2
Fruit*A*Syst		1
Livestock*A*Syst	1	1
Chippewa	24	12
Crop*A*Syst, Field Crop and Veg	5	4
Farm*A*Syst	9	4
Forest, Wetlands and Habitat *A*Syst	7	
Fruit*A*Syst	1	
Livestock*A*Syst	2	4
Clare	3	5
Crop*A*Syst, Field Crop and Veg	1	1
Farm*A*Syst	1	2
Livestock*A*Syst	1	2
Clinton	12	33
Crop*A*Syst, Field Crop and Veg	1	10
Farm*A*Syst	3	11

Michigan Agriculture Environmental Assurance Program FY 2019		
Number of New Assessments and Reassessments By County	New	Reassessment
Forest, Wetlands and Habitat *A*Syst	4	4
Fruit*A*Syst	1	1
Greenhouse*A*Syst	1	
Livestock*A*Syst	2	7
Crawford	3	
Crop*A*Syst, Field Crop and Veg	1	
Farm*A*Syst	1	
Livestock*A*Syst	1	
Delta	2	
Forest, Wetlands and Habitat *A*Syst	2	
Dickinson	3	3
Crop*A*Syst, Field Crop and Veg	1	1
Farm*A*Syst	1	1
Livestock*A*Syst	1	1
Eaton	7	6
Crop*A*Syst, Field Crop and Veg	2	3
Farm*A*Syst	1	2
Forest, Wetlands and Habitat *A*Syst	3	
Livestock*A*Syst	1	1
Emmet	4	12
Crop*A*Syst, Field Crop and Veg	1	2
Farm*A*Syst	1	5
Fruit*A*Syst	1	4
Livestock*A*Syst	1	1
Genesee	28	23
Crop*A*Syst, Field Crop and Veg	12	6
Farm*A*Syst	11	10
Forest, Wetlands and Habitat *A*Syst		1
Fruit*A*Syst		1
Livestock*A*Syst	5	5
Gladwin	8	
Crop*A*Syst, Field Crop and Veg	3	
Farm*A*Syst	3	
Greenhouse*A*Syst	1	
Livestock*A*Syst	1	
Gogebic		1
Farm*A*Syst		1
Grand Traverse	17	14
Crop*A*Syst, Field Crop and Veg	2	1
Farm*A*Syst	7	7
Fruit*A*Syst	6	5
Greenhouse*A*Syst	1	1
Livestock*A*Syst	1	
Gratiot	3	8
Crop*A*Syst, Field Crop and Veg	1	3

Michigan Agriculture Environmental Assurance Program FY 2019		
Number of New Assessments and Reassessments By County	New	Reassessment
Farm*A*Syst	1	2
Fruit*A*Syst		1
Livestock*A*Syst	1	2
Hillsdale	11	16
Crop*A*Syst, Field Crop and Veg	2	7
Farm*A*Syst	4	6
Forest, Wetlands and Habitat *A*Syst	2	
Livestock*A*Syst	3	3
Houghton		3
Crop*A*Syst, Field Crop and Veg		3
Huron	10	29
Crop*A*Syst, Field Crop and Veg	4	14
Farm*A*Syst	3	10
Forest, Wetlands and Habitat *A*Syst	1	1
Livestock*A*Syst	2	4
Ingham	12	26
Crop*A*Syst, Field Crop and Veg	5	5
Crop*A*Syst, Nursery and Christmas Tree		1
Farm*A*Syst	3	13
Livestock*A*Syst	4	7
Ionia	12	10
Crop*A*Syst, Field Crop and Veg	1	5
Farm*A*Syst	2	5
Forest, Wetlands and Habitat *A*Syst	7	
Livestock*A*Syst	2	
Iosco		2
Farm*A*Syst		1
Fruit*A*Syst		1
Iron	3	
Crop*A*Syst, Field Crop and Veg	1	
Farm*A*Syst	1	
Livestock*A*Syst	1	
Isabella	31	1
Crop*A*Syst, Field Crop and Veg	8	
Farm*A*Syst	10	
Forest, Wetlands and Habitat *A*Syst	7	1
Fruit*A*Syst	1	
Livestock*A*Syst	5	
Jackson	4	
Crop*A*Syst, Field Crop and Veg	1	
Farm*A*Syst	1	
Livestock*A*Syst	2	
Kalamazoo	17	30
Crop*A*Syst, Field Crop and Veg	8	7
Farm*A*Syst	5	9

Michigan Agriculture Environmental Assurance Program FY 2019		
Number of New Assessments and Reassessments By County	New	Reassessment
Forest, Wetlands and Habitat *A*Syst	1	
Fruit*A*Syst		1
Greenhouse*A*Syst		6
Livestock*A*Syst	3	7
Kent	68	14
Crop*A*Syst, Field Crop and Veg	10	4
Crop*A*Syst, Nursery and Christmas Tree	1	
Farm*A*Syst	34	7
Forest, Wetlands and Habitat *A*Syst	1	2
Fruit*A*Syst	14	
Greenhouse*A*Syst	3	
Livestock*A*Syst	5	1
Lake	7	5
Crop*A*Syst, Field Crop and Veg	1	2
Farm*A*Syst	2	2
Forest, Wetlands and Habitat *A*Syst	3	1
Livestock*A*Syst	1	
Lapeer	45	5
Crop*A*Syst, Field Crop and Veg	15	1
Farm*A*Syst	15	2
Forest, Wetlands and Habitat *A*Syst	4	
Fruit*A*Syst	1	
Livestock*A*Syst	10	2
Leelanau	24	14
Crop*A*Syst, Field Crop and Veg	3	2
Farm*A*Syst	10	7
Forest, Wetlands and Habitat *A*Syst	4	
Fruit*A*Syst	4	4
Greenhouse*A*Syst	2	
Livestock*A*Syst	1	1
Lenawee	41	40
Crop*A*Syst, Field Crop and Veg	14	11
Crop*A*Syst, Nursery and Christmas Tree	1	
Farm*A*Syst	13	14
Forest, Wetlands and Habitat *A*Syst	7	8
Fruit*A*Syst	1	
Greenhouse*A*Syst		2
Livestock*A*Syst	5	5
Livingston	5	1
Crop*A*Syst, Field Crop and Veg	1	
Farm*A*Syst	2	1
Livestock*A*Syst	2	
Mackinac	4	1
Farm*A*Syst	1	
Forest, Wetlands and Habitat *A*Syst	3	1

Michigan Agriculture Environmental Assurance Program FY 2019		
Number of New Assessments and Reassessments By County	New	Reassessment
Macomb	10	5
Crop*A*Syst, Field Crop and Veg	3	2
Farm*A*Syst	4	2
Forest, Wetlands and Habitat *A*Syst	1	
Fruit*A*Syst	1	
Livestock*A*Syst	1	1
Manistee	1	11
Crop*A*Syst, Field Crop and Veg		1
Crop*A*Syst, Nursery and Christmas Tree		1
Farm*A*Syst		5
Forest, Wetlands and Habitat *A*Syst	1	
Fruit*A*Syst		3
Livestock*A*Syst		1
Marquette	3	
Forest, Wetlands and Habitat *A*Syst	3	
Mason	2	25
Crop*A*Syst, Field Crop and Veg	1	7
Farm*A*Syst	1	11
Forest, Wetlands and Habitat *A*Syst		2
Fruit*A*Syst		1
Livestock*A*Syst		4
Mecosta	17	5
Crop*A*Syst, Field Crop and Veg	3	2
Farm*A*Syst	3	1
Forest, Wetlands and Habitat *A*Syst	9	
Greenhouse*A*Syst	1	
Livestock*A*Syst	1	2
Menominee	5	13
Crop*A*Syst, Field Crop and Veg	1	4
Crop*A*Syst, Nursery and Christmas Tree		1
Farm*A*Syst	2	4
Fruit*A*Syst	1	
Livestock*A*Syst	1	4
Midland	8	2
Crop*A*Syst, Field Crop and Veg	4	1
Farm*A*Syst	2	1
Forest, Wetlands and Habitat *A*Syst	1	
Livestock*A*Syst	1	
Missaukee	6	17
Crop*A*Syst, Field Crop and Veg	2	5
Crop*A*Syst, Nursery and Christmas Tree		1
Farm*A*Syst	2	6
Greenhouse*A*Syst		1
Livestock*A*Syst	2	4
Monroe	44	30

Michigan Agriculture Environmental Assurance Program FY 2019		
Number of New Assessments and Reassessments By County	New	Reassessment
Crop*A*Syst, Field Crop and Veg	16	13
Farm*A*Syst	15	11
Forest, Wetlands and Habitat *A*Syst	3	1
Greenhouse*A*Syst	1	
Livestock*A*Syst	9	5
Montcalm	9	3
Crop*A*Syst, Field Crop and Veg	1	1
Farm*A*Syst		1
Forest, Wetlands and Habitat *A*Syst	7	
Livestock*A*Syst	1	1
Montmorency		6
Crop*A*Syst, Field Crop and Veg		2
Farm*A*Syst		2
Livestock*A*Syst		2
Muskegon	7	17
Crop*A*Syst, Field Crop and Veg	1	7
Crop*A*Syst, Nursery and Christmas Tree	1	
Farm*A*Syst	4	5
Fruit*A*Syst		1
Greenhouse*A*Syst	1	
Livestock*A*Syst		4
Newaygo	16	7
Crop*A*Syst, Field Crop and Veg	3	3
Crop*A*Syst, Nursery and Christmas Tree	1	
Farm*A*Syst	6	4
Forest, Wetlands and Habitat *A*Syst	1	
Fruit*A*Syst	2	
Livestock*A*Syst	3	
Oakland	9	4
Crop*A*Syst, Field Crop and Veg	2	1
Crop*A*Syst, Nursery and Christmas Tree		1
Farm*A*Syst	3	2
Forest, Wetlands and Habitat *A*Syst	1	
Fruit*A*Syst	1	
Livestock*A*Syst	2	
Oceana	9	25
Crop*A*Syst, Field Crop and Veg	2	3
Farm*A*Syst	4	13
Forest, Wetlands and Habitat *A*Syst	1	1
Fruit*A*Syst	1	7
Livestock*A*Syst	1	1
Ogemaw	2	1
Farm*A*Syst	1	
Forest, Wetlands and Habitat *A*Syst	1	1
Osceola	21	22

Michigan Agriculture Environmental Assurance Program FY 2019		
Number of New Assessments and Reassessments By County	New	Reassessment
Crop*A*Syst, Field Crop and Veg	6	8
Farm*A*Syst	6	6
Forest, Wetlands and Habitat *A*Syst	4	2
Greenhouse*A*Syst	1	1
Livestock*A*Syst	4	5
Oscoda	3	
Farm*A*Syst	1	
Fruit*A*Syst	1	
Livestock*A*Syst	1	
Otsego	5	1
Crop*A*Syst, Field Crop and Veg	1	
Farm*A*Syst	1	
Forest, Wetlands and Habitat *A*Syst	1	
Fruit*A*Syst	1	
Greenhouse*A*Syst		1
Livestock*A*Syst	1	
Ottawa	44	22
Crop*A*Syst, Field Crop and Veg	12	2
Farm*A*Syst	18	7
Fruit*A*Syst	4	4
Greenhouse*A*Syst	2	1
Livestock*A*Syst	8	8
Presque Isle		3
Crop*A*Syst, Field Crop and Veg		1
Farm*A*Syst		1
Forest, Wetlands and Habitat *A*Syst		1
Saginaw	16	19
Crop*A*Syst, Field Crop and Veg	6	9
Farm*A*Syst	7	8
Greenhouse*A*Syst		1
Livestock*A*Syst	3	1
Saint Clair	24	6
Crop*A*Syst, Field Crop and Veg	7	2
Farm*A*Syst	9	2
Forest, Wetlands and Habitat *A*Syst	2	
Fruit*A*Syst	2	
Greenhouse*A*Syst		1
Livestock*A*Syst	4	1
Saint Joseph	4	3
Crop*A*Syst, Field Crop and Veg	1	1
Farm*A*Syst	1	2
Forest, Wetlands and Habitat *A*Syst	2	
Sanilac	13	16
Crop*A*Syst, Field Crop and Veg	8	10
Farm*A*Syst	3	6

Michigan Agriculture Environmental Assurance Program FY 2019		
Number of New Assessments and Reassessments By County	New	Reassessment
Forest, Wetlands and Habitat *A*Syst	1	
Livestock*A*Syst	1	
Schoolcraft	1	2
Crop*A*Syst, Field Crop and Veg		1
Farm*A*Syst	1	
Livestock*A*Syst		1
Shiawassee	11	33
Crop*A*Syst, Field Crop and Veg	4	16
Farm*A*Syst	4	15
Livestock*A*Syst	3	2
Tuscola	16	29
Crop*A*Syst, Field Crop and Veg	4	14
Farm*A*Syst	6	14
Livestock*A*Syst	6	1
Van Buren	34	16
Crop*A*Syst, Field Crop and Veg	7	1
Crop*A*Syst, Nursery and Christmas Tree	5	
Farm*A*Syst	14	6
Forest, Wetlands and Habitat *A*Syst	2	
Fruit*A*Syst	1	9
Livestock*A*Syst	5	
Washtenaw	46	9
Crop*A*Syst, Field Crop and Veg	10	4
Crop*A*Syst, Nursery and Christmas Tree	1	
Farm*A*Syst	15	3
Forest, Wetlands and Habitat *A*Syst	12	
Fruit*A*Syst	1	
Livestock*A*Syst	7	2
Wayne	10	8
Crop*A*Syst, Field Crop and Veg	3	3
Farm*A*Syst	4	3
Forest, Wetlands and Habitat *A*Syst	1	1
Greenhouse*A*Syst		1
Livestock*A*Syst	2	
Wexford	6	5
Crop*A*Syst, Field Crop and Veg	2	1
Farm*A*Syst	2	2
Forest, Wetlands and Habitat *A*Syst	1	
Livestock*A*Syst	1	2
Column Totals	972	880

FY 2019 MAEAP ENVIRONMENTAL OUTCOMES

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

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	282,335
Linear feet of buffer/filter strips	922,422
Acres of cover crops	63,789
Acres of conservation tillage	129,440
Acres of no-till, zone till, or grass cover	99,339
Number of gullies stabilized	1,015
Feet of livestock exclusion	55,283
Size of silage pad in acres	11
Acres of Pest Management Plans	258,959

This data was then compiled from farms verified in FY 2019, and the following totals were calculated:

Sediment reduced: **414,714** tons

Phosphorus reduced: **673,535** pounds

Nitrogen reduced: **1,391,050** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **644,847** pounds

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

Sediment reduced on MAEAP farms could have filled **36,863** dump trucks (10 yards each)

Phosphorus reduced on MAEAP farms could have grown **336,767,500** pounds of algae in surface waters (**168,384 tons of algae**)

Nitrogen reduced on MAEAP farms could have grown **98,764,550** pounds of algae in surface waters (**49,382 tons of algae**)

Nitrogen reduced on MAEAP farms could have contaminated **16,692,600,000** gallons of water above 10 ppm

FY 2019 Alcona County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Alcona County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	372.5
Acres of buffer/filter strips	0.0
Acres of cover crops	0
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	216
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	345

This data was then compiled from farms verified in Alcona County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **542.92** tons

Phosphorus reduced: **868.67** pounds

Nitrogen reduced: **1,737.34** pounds

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

FY 2019 Alger County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Alger County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	3
Acres of buffer/filter strips	0.0
Acres of cover crops	1.5
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	0
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	1.5

This data was then compiled from farms verified in Alger County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **4.37** tons

Phosphorus reduced: **7.00** pounds

Nitrogen reduced: **13.99** pounds

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

FY 2019 Allegan County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Allegan County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	6,282.10
Acres of buffer/filter strips	130.0
Acres of cover crops	2,014
Acres of conservation tillage	1,487.5
Acres of no-till, zone till, or grass cover	3,602.5
Number of gullies stabilized	65
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	6,212.10

This data was then compiled from farms verified in Allegan County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **9,342.04** tons

Phosphorus reduced: **14,965.81** pounds

Nitrogen reduced: **29,926.62** pounds

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

FY 2019 Alpena County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Alpena County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	171
Acres of buffer/filter strips	0.0
Acres of cover crops	0
Acres of conservation tillage	51
Acres of no-till, zone till, or grass cover	120
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	154

This data was then compiled from farms verified in Alpena County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **249.23** tons

Phosphorus reduced: **398.77** pounds

Nitrogen reduced: **797.54** pounds

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

FY 2019 Antrim County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Antrim County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	3,067
Acres of buffer/filter strips	12.1
Acres of cover crops	360
Acres of conservation tillage	360
Acres of no-till, zone till, or grass cover	2,707
Number of gullies stabilized	0
Feet of livestock exclusion	5,280
Size of silage pad (acres)	0
Acres of Pest Management Plans	3,067

This data was then compiled from farms verified in Antrim County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **4,504.83** tons

Phosphorus reduced: **7,211.18** pounds

Nitrogen reduced: **14,421.43** pounds

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

FY 2019 Barry County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Barry County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	2,890
Acres of buffer/filter strips	13.8
Acres of cover crops	1,300
Acres of conservation tillage	1,700
Acres of no-till, zone till, or grass cover	456
Number of gullies stabilized	3
Feet of livestock exclusion	0
Size of silage pad (acres)	3
Acres of Pest Management Plans	1

This data was then compiled from farms verified in Barry County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **4,231.88** tons

Phosphorus reduced: **9,422.72** pounds

Nitrogen reduced: **30,918.05** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **176,670.45** pounds

FY 2019 Bay County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Bay County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	1,330
Acres of buffer/filter strips	15.0
Acres of cover crops	525
Acres of conservation tillage	1,150
Acres of no-till, zone till, or grass cover	115
Number of gullies stabilized	8
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	1,330

This data was then compiled from farms verified in Bay County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **1,959.93** tons

Phosphorus reduced: **3,138.03** pounds

Nitrogen reduced: **6,275.48** pounds

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

FY 2019 Benzie County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Benzie County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	62
Acres of buffer/filter strips	0.0
Acres of cover crops	0
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	62
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	62

This data was then compiled from farms verified in Benzie County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **90.37** tons

Phosphorus reduced: **144.58** pounds

Nitrogen reduced: **289.17** pounds

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

FY 2019 Berrien County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Berrien County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	800.84
Acres of buffer/filter strips	1.4
Acres of cover crops	148
Acres of conservation tillage	104
Acres of no-till, zone till, or grass cover	662
Number of gullies stabilized	2
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	764.84

This data was then compiled from farms verified in Berrien County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **1,169.19** tons

Phosphorus reduced: **1,870.91** pounds

Nitrogen reduced: **3,741.76** pounds

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

FY 2019 Branch County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Branch County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	3,860
Acres of buffer/filter strips	6.5
Acres of cover crops	1,300
Acres of conservation tillage	344
Acres of no-till, zone till, or grass cover	3,545
Number of gullies stabilized	1
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	3,860

This data was then compiled from farms verified in Branch County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **5,635.28** tons

Phosphorus reduced: **9,017.37** pounds

Nitrogen reduced: **18,034.49** pounds

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

FY 2019 Calhoun County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Calhoun County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	3,765.5
Acres of buffer/filter strips	4.6
Acres of cover crops	160
Acres of conservation tillage	800
Acres of no-till, zone till, or grass cover	2,920
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	3,765.5

This data was then compiled from farms verified in Calhoun County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **5,494.78** tons

Phosphorus reduced: **8,792.31** pounds

Nitrogen reduced: **17,584.44** pounds

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

FY 2019 Cass County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Cass County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	6606.10
Acres of buffer/filter strips	0.0
Acres of cover crops	1,390
Acres of conservation tillage	1,372
Acres of no-till, zone till, or grass cover	3,780
Number of gullies stabilized	3
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	5,675.05

This data was then compiled from farms verified in Cass County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **9,628.39** tons

Phosphorus reduced: **15,405.43** pounds

Nitrogen reduced: **30,810.85** pounds

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

FY 2019 Charlevoix County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Charlevoix County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	191.25
Acres of buffer/filter strips	0.0
Acres of cover crops	0
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	191
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	71

This data was then compiled from farms verified in Charlevoix County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **278.75** tons

Phosphorus reduced: **446.00** pounds

Nitrogen reduced: **891.99** pounds

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

FY 2019 Cheboygan County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Cheboygan County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	297
Acres of buffer/filter strips	0.0
Acres of cover crops	0
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	297
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	2

This data was then compiled from farms verified in Cheboygan County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **432.88** tons

Phosphorus reduced: **692.60** pounds

Nitrogen reduced: **1,385.21** pounds

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

FY 2019 Chippewa County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Chippewa County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	112
Acres of buffer/filter strips	0.0
Acres of cover crops	0
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	95
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	4

This data was then compiled from farms verified in Chippewa County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **163.24** tons

Phosphorus reduced: **261.18** pounds

Nitrogen reduced: **522.37** pounds

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

FY 2019 Clare County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Clare County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	1,150
Acres of buffer/filter strips	5.0
Acres of cover crops	0
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	1,150
Number of gullies stabilized	0
Feet of livestock exclusion	24,000
Size of silage pad (acres)	0
Acres of Pest Management Plans	40

This data was then compiled from farms verified in Clare County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **1,762.08** tons

Phosphorus reduced: **2,827.91** pounds

Nitrogen reduced: **5,653.51** pounds

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

FY 2019 Clinton County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Clinton County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	2,837
Acres of buffer/filter strips	14.6
Acres of cover crops	0
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	1,502
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	1
Acres of Pest Management Plans	2,837

This data was then compiled from farms verified in Clinton County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **4,155.81** tons

Phosphorus reduced: **7,534.63** pounds

Nitrogen reduced: **19,093.08** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **58,890.15** pounds

FY 2019 Delta County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Delta County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	16.5
Acres of buffer/filter strips	0.0
Acres of cover crops	0
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	16.5
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	4.5

This data was then compiled from farms verified in Delta County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **24.05** tons

Phosphorus reduced: **38.48** pounds

Nitrogen reduced: **76.96** pounds

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

FY 2019 Dickinson County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Dickinson County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	154
Acres of buffer/filter strips	0.0
Acres of cover crops	0
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	12
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	20

This data was then compiled from farms verified in Dickinson County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **224.46** tons

Phosphorus reduced: **359.13** pounds

Nitrogen reduced: **718.26** pounds

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

FY 2019 Eaton County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Eaton County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	1,754
Acres of buffer/filter strips	9.6
Acres of cover crops	0
Acres of conservation tillage	214
Acres of no-till, zone till, or grass cover	1,540
Number of gullies stabilized	1
Feet of livestock exclusion	550
Size of silage pad (acres)	0
Acres of Pest Management Plans	600

This data was then compiled from farms verified in Eaton County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **2,571.95** tons

Phosphorus reduced: **4,116.67** pounds

Nitrogen reduced: **8,232.93** pounds

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

FY 2019 Emmet County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Emmet County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	58
Acres of buffer/filter strips	0.0
Acres of cover crops	0
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	58
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	18

This data was then compiled from farms verified in Emmet County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **84.54** tons

Phosphorus reduced: **135.26** pounds

Nitrogen reduced: **270.51** pounds

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

FY 2019 Genesee County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Genesee County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	4,332
Acres of buffer/filter strips	7.7
Acres of cover crops	80
Acres of conservation tillage	2,195
Acres of no-till, zone till, or grass cover	2,137
Number of gullies stabilized	6
Feet of livestock exclusion	0
Size of silage pad (acres)	0.5
Acres of Pest Management Plans	4,237

This data was then compiled from farms verified in Genesee County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **6,324.84** tons

Phosphorus reduced: **10,562.47** pounds

Nitrogen reduced: **23,136.83** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **29,445.07** pounds

FY 2019 Gladwin County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Gladwin County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	556
Acres of buffer/filter strips	36.5
Acres of cover crops	70
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	465
Number of gullies stabilized	0
Feet of livestock exclusion	1,320
Size of silage pad (acres)	0
Acres of Pest Management Plans	116

This data was then compiled from farms verified in Gladwin County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **866.85** tons

Phosphorus reduced: **1,392.59** pounds

Nitrogen reduced: **2,783.66** pounds

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

FY 2019 Grand Traverse County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Grand Traverse County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	707.08
Acres of buffer/filter strips	6.1
Acres of cover crops	59
Acres of conservation tillage	45
Acres of no-till, zone till, or grass cover	662
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	582.08

This data was then compiled from farms verified in Grand Traverse County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **1,039.31** tons

Phosphorus reduced: **1,663.76** pounds

Nitrogen reduced: **3,327.29** pounds

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

FY 2019 Gratiot County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Gratiot County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	5,394.5
Acres of buffer/filter strips	49.4
Acres of cover crops	600
Acres of conservation tillage	2,684
Acres of no-till, zone till, or grass cover	2,710.5
Number of gullies stabilized	12
Feet of livestock exclusion	2,640
Size of silage pad (acres)	0
Acres of Pest Management Plans	5,316.5

This data was then compiled from farms verified in Gratiot County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **7,941.74** tons

Phosphorus reduced: **12,714.70** pounds

Nitrogen reduced: **25,427.26** pounds

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

FY 2019 Hillsdale County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Hillsdale County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	13,173
Acres of buffer/filter strips	131.1
Acres of cover crops	3,280
Acres of conservation tillage	5,199
Acres of no-till, zone till, or grass cover	7,343
Number of gullies stabilized	26
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	13,173

This data was then compiled from farms verified in Hillsdale County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **19,387.21** tons

Phosphorus reduced: **31,038.26** pounds

Nitrogen reduced: **62,071.48** pounds

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

FY 2019 Huron County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Huron County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	40,532
Acres of buffer/filter strips	343.0
Acres of cover crops	13,926
Acres of conservation tillage	27,347
Acres of no-till, zone till, or grass cover	6,360
Number of gullies stabilized	202
Feet of livestock exclusion	6,200
Size of silage pad (acres)	1.23
Acres of Pest Management Plans	39,887

This data was then compiled from farms verified in Huron County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **59,586.30** tons

Phosphorus reduced: **96,475.47** pounds

Nitrogen reduced: **197,887.20** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **72,434.88** pounds

FY 2019 Ingham County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Ingham County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	1,611
Acres of buffer/filter strips	3.3
Acres of cover crops	2.5
Acres of conservation tillage	1,353.5
Acres of no-till, zone till, or grass cover	257.5
Number of gullies stabilized	0
Feet of livestock exclusion	500
Size of silage pad (acres)	0
Acres of Pest Management Plans	1,590.5

This data was then compiled from farms verified in Ingham County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **2,354.34** tons

Phosphorus reduced: **3,767.57** pounds

Nitrogen reduced: **7,534.97** pounds

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

FY 2019 Ionia County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Ionia County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	2,180.25
Acres of buffer/filter strips	13.9
Acres of cover crops	550
Acres of conservation tillage	1,005
Acres of no-till, zone till, or grass cover	1,175
Number of gullies stabilized	4
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	2,180

This data was then compiled from farms verified in Ionia County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **3,197.55** tons

Phosphorus reduced: **5,118.05** pounds

Nitrogen reduced: **10,235.58** pounds

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

FY 2019 Isabella County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Isabella County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	2,928
Acres of buffer/filter strips	6.1
Acres of cover crops	290
Acres of conservation tillage	1,329
Acres of no-till, zone till, or grass cover	1,561
Number of gullies stabilized	6
Feet of livestock exclusion	600
Size of silage pad (acres)	0.10
Acres of Pest Management Plans	2,553

This data was then compiled from farms verified in Isabella County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **4,278.20** tons

Phosphorus reduced: **6,934.50** pounds

Nitrogen reduced: **14,271.16** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **5,889.01** pounds

FY 2019 Jackson County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Jackson County were used to calculate environmental outcomes in 2019:

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

This data was then compiled from farms verified in Jackson County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **14.58** tons

Phosphorus reduced: **23.32** pounds

Nitrogen reduced: **46.64** pounds

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

FY 2019 Kalamazoo County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Kalamazoo County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	3,147.5
Acres of buffer/filter strips	17.6
Acres of cover crops	1,150
Acres of conservation tillage	1,005.5
Acres of no-till, zone till, or grass cover	1,870
Number of gullies stabilized	30
Feet of livestock exclusion	1,420
Size of silage pad (acres)	0.12
Acres of Pest Management Plans	3,143.5

This data was then compiled from farms verified in Kalamazoo County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **4,617.26** tons

Phosphorus reduced: **7,496.58** pounds

Nitrogen reduced: **15,475.29** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **7,066.82** pounds

FY 2019 Kent County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Kent County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	3,415.25
Acres of buffer/filter strips	19.9
Acres of cover crops	986
Acres of conservation tillage	226
Acres of no-till, zone till, or grass cover	2,389
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	3,415

This data was then compiled from farms verified in Kent County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **5,006.26** tons

Phosphorus reduced: **8,012.86** pounds

Nitrogen reduced: **16,024.96** pounds

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

FY 2019 Lake County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Lake County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	130
Acres of buffer/filter strips	0.7
Acres of cover crops	0
Acres of conservation tillage	30
Acres of no-till, zone till, or grass cover	100
Number of gullies stabilized	0
Feet of livestock exclusion	300
Size of silage pad (acres)	0
Acres of Pest Management Plans	30

This data was then compiled from farms verified in Lake County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **191.45** tons

Phosphorus reduced: **306.51** pounds

Nitrogen reduced: **612.96** pounds

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

FY 2019 Lapeer County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Lapeer County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	9,306
Acres of buffer/filter strips	111.5
Acres of cover crops	2,221
Acres of conservation tillage	4,054
Acres of no-till, zone till, or grass cover	2,847
Number of gullies stabilized	24
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	9,134

This data was then compiled from farms verified in Lapeer County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **13,723.80** tons

Phosphorus reduced: **21,974.00** pounds

Nitrogen reduced: **43,943.72** pounds

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

FY 2019 Leelanau County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Leelanau County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	196.5
Acres of buffer/filter strips	3.7
Acres of cover crops	45.5
Acres of conservation tillage	12.5
Acres of no-till, zone till, or grass cover	149
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	196.5

This data was then compiled from farms verified in Leelanau County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **291.72** tons

Phosphorus reduced: **467.28** pounds

Nitrogen reduced: **934.42** pounds

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

FY 2019 Lenawee County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Lenawee County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	21,136.5
Acres of buffer/filter strips	247.3
Acres of cover crops	5,153.5
Acres of conservation tillage	2,278
Acres of no-till, zone till, or grass cover	6,452.5
Number of gullies stabilized	30
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	20,679.5

This data was then compiled from farms verified in Lenawee County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **31,160.17** tons

Phosphorus reduced: **49,891.58** pounds

Nitrogen reduced: **99,773.65** pounds

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

FY 2019 Livingston County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Livingston County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	1,200
Acres of buffer/filter strips	0.0
Acres of cover crops	900
Acres of conservation tillage	1,200
Acres of no-till, zone till, or grass cover	0
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	1,200

This data was then compiled from farms verified in Livingston County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **1,749.00** tons

Phosphorus reduced: **2,798.40** pounds

Nitrogen reduced: **5,596.80** pounds

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

FY 2019 Luce County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Luce County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	2.25
Acres of buffer/filter strips	0.0
Acres of cover crops	0
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	0
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	1.25

This data was then compiled from farms verified in Luce County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **3.28** tons

Phosphorus reduced: **5.25** pounds

Nitrogen reduced: **10.49** pounds

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

FY 2019 Mackinac County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Mackinac County were used to calculate environmental outcomes in 2019:

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

This data was then compiled from farms verified in Mackinac County during the fiscal year of 2019, 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 2019 Macomb County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Macomb County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	16.5
Acres of buffer/filter strips	0.0
Acres of cover crops	0
Acres of conservation tillage	0.25
Acres of no-till, zone till, or grass cover	13
Number of gullies stabilized	0
Feet of livestock exclusion	1,325
Size of silage pad (acres)	0
Acres of Pest Management Plans	0.25

This data was then compiled from farms verified in Macomb County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **28.40** tons

Phosphorus reduced: **45.87** pounds

Nitrogen reduced: **91.63** pounds

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

FY 2019 Manistee County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Manistee County were used to calculate environmental outcomes in 2019:

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

This data was then compiled from farms verified in Manistee County during the fiscal year of 2019, 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 2019 Marquette County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Marquette County were used to calculate environmental outcomes in 2019:

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

This data was then compiled from farms verified in Marquette County during the fiscal year of 2019, 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 2019 Mason County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Mason County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	2,625.75
Acres of buffer/filter strips	15.2
Acres of cover crops	456
Acres of conservation tillage	1,623
Acres of no-till, zone till, or grass cover	636.75
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	2,625.75

This data was then compiled from farms verified in Mason County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **3,848.72** tons

Phosphorus reduced: **6,160.11** pounds

Nitrogen reduced: **12,319.64** pounds

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

FY 2019 Mecosta County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Mecosta County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	7.5
Acres of buffer/filter strips	0.0
Acres of cover crops	0.5
Acres of conservation tillage	3.5
Acres of no-till, zone till, or grass cover	3.5
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	0

This data was then compiled from farms verified in Mecosta County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **10.93** tons

Phosphorus reduced: **17.49** pounds

Nitrogen reduced: **34.98** pounds

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

FY 2019 Menominee County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Menominee County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	107
Acres of buffer/filter strips	0.0
Acres of cover crops	0
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	36
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	19

This data was then compiled from farms verified in Menominee County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **155.95** tons

Phosphorus reduced: **249.52** pounds

Nitrogen reduced: **499.05** pounds

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

FY 2019 Midland County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Midland County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	4,141
Acres of buffer/filter strips	0.0
Acres of cover crops	300
Acres of conservation tillage	2,976
Acres of no-till, zone till, or grass cover	585
Number of gullies stabilized	11
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	4,141

This data was then compiled from farms verified in Midland County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **6,035.51** tons

Phosphorus reduced: **9,656.81** pounds

Nitrogen reduced: **19,313.62** pounds

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

FY 2019 Missaukee County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Missaukee County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	3,603
Acres of buffer/filter strips	0.0
Acres of cover crops	350
Acres of conservation tillage	3,203
Acres of no-till, zone till, or grass cover	250
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	1.10
Acres of Pest Management Plans	3,603

This data was then compiled from farms verified in Missaukee County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **5,251.49** tons

Phosphorus reduced: **9,373.96** pounds

Nitrogen reduced: **23,174.73** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **64,779.16** pounds

FY 2019 Monroe County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Monroe County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	9,620
Acres of buffer/filter strips	223.5
Acres of cover crops	2,138.5
Acres of conservation tillage	4,675.5
Acres of no-till, zone till, or grass cover	3,418
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0.10
Acres of Pest Management Plans	9,634

This data was then compiled from farms verified in Monroe County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **14,340.76** tons

Phosphorus reduced: **23,065.43** pounds

Nitrogen reduced: **46,524.72** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **5,889.01** pounds

FY 2019 Montcalm County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Montcalm County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	107.25
Acres of buffer/filter strips	20.9
Acres of cover crops	11.5
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	102
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	5.25

This data was then compiled from farms verified in Montcalm County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **186.24** tons

Phosphorus reduced: **300.97** pounds

Nitrogen reduced: **601.13** pounds

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

FY 2019 Montmorency County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Montmorency County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	2,381
Acres of buffer/filter strips	0.0
Acres of cover crops	130
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	300
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	2,375

This data was then compiled from farms verified in Montmorency County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **3,470.31** tons

Phosphorus reduced: **5,552.49** pounds

Nitrogen reduced: **11,104.98** pounds

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

FY 2019 Muskegon County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Muskegon County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	616
Acres of buffer/filter strips	11.5
Acres of cover crops	100
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	616
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	616

This data was then compiled from farms verified in Muskegon County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **914.24** tons

Phosphorus reduced: **1,464.42** pounds

Nitrogen reduced: **2,928.40** pounds

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

FY 2019 Newaygo County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Newaygo County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	337
Acres of buffer/filter strips	36.6
Acres of cover crops	5
Acres of conservation tillage	5
Acres of no-till, zone till, or grass cover	332
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	326

This data was then compiled from farms verified in Newaygo County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **543.54** tons

Phosphorus reduced: **874.89** pounds

Nitrogen reduced: **1,748.38** pounds

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

FY 2019 Oceana County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Oceana County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	1,959.5
Acres of buffer/filter strips	24.4
Acres of cover crops	270.5
Acres of conservation tillage	250.5
Acres of no-till, zone till, or grass cover	1,748
Number of gullies stabilized	0
Feet of livestock exclusion	3,000
Size of silage pad (acres)	0
Acres of Pest Management Plans	1,799.5

This data was then compiled from farms verified in Oceana County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **2,900.73** tons

Phosphorus reduced: **4,645.64** pounds

Nitrogen reduced: **9,290.08** pounds

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

FY 2019 Ogemaw County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Ogemaw County were used to calculate environmental outcomes in 2019:

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

This data was then compiled from farms verified in Ogemaw County during the fiscal year of 2019, 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 2019 Osceola County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Osceola County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	2,014
Acres of buffer/filter strips	5.5
Acres of cover crops	360.5
Acres of conservation tillage	74
Acres of no-till, zone till, or grass cover	1,941
Number of gullies stabilized	2
Feet of livestock exclusion	1,011
Size of silage pad (acres)	0.40
Acres of Pest Management Plans	678

This data was then compiled from farms verified in Osceola County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **2,947.09** tons

Phosphorus reduced: **5,069.78** pounds

Nitrogen reduced: **11,749.00** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **23,556.06** pounds

FY 2019 Otsego County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Otsego County were used to calculate environmental outcomes in 2019:

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

This data was then compiled from farms verified in Otsego County during the fiscal year of 2019, 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 2019 Ottawa County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Ottawa County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	1,337
Acres of buffer/filter strips	12.8
Acres of cover crops	592.5
Acres of conservation tillage	41.5
Acres of no-till, zone till, or grass cover	1,296
Number of gullies stabilized	1
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	1,337

This data was then compiled from farms verified in Ottawa County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **1,968.12** tons

Phosphorus reduced: **3,150.82** pounds

Nitrogen reduced: **6,301.15** pounds

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

FY 2019 Presque Isle County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Presque Isle County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	24
Acres of buffer/filter strips	0.0
Acres of cover crops	0
Acres of conservation tillage	0
Acres of no-till, zone till, or grass cover	24
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	24

This data was then compiled from farms verified in Presque Isle County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **34.98** tons

Phosphorus reduced: **55.97** pounds

Nitrogen reduced: **111.94** pounds

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

FY 2019 Saginaw County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Saginaw County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	15,756
Acres of buffer/filter strips	4.3
Acres of cover crops	1,239
Acres of conservation tillage	11,076
Acres of no-till, zone till, or grass cover	2,020
Number of gullies stabilized	46
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	15,756

This data was then compiled from farms verified in Saginaw County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **22,970.69** tons

Phosphorus reduced: **36,753.73** pounds

Nitrogen reduced: **73,507.28** pounds

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

FY 2019 Sanilac County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Sanilac County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	25,830
Acres of buffer/filter strips	71.0
Acres of cover crops	4,212
Acres of conservation tillage	13,810
Acres of no-till, zone till, or grass cover	9,063
Number of gullies stabilized	187
Feet of livestock exclusion	1,420
Size of silage pad (acres)	0.35
Acres of Pest Management Plans	24,508

This data was then compiled from farms verified in Sanilac County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **37,753.44** tons

Phosphorus reduced: **60,725.25** pounds

Nitrogen reduced: **122,856.18** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **20,611.55** pounds

FY 2019 Shiawassee County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Shiawassee County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	14,846
Acres of buffer/filter strips	95.7
Acres of cover crops	1,926
Acres of conservation tillage	3,598
Acres of no-till, zone till, or grass cover	8,330
Number of gullies stabilized	16
Feet of livestock exclusion	1,147
Size of silage pad (acres)	2
Acres of Pest Management Plans	14,095

This data was then compiled from farms verified in Shiawassee County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **21,778.73** tons

Phosphorus reduced: **36,626.52** pounds

Nitrogen reduced: **81,298.01** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **117,780.30** pounds

FY 2019 St. Clair County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in St. Clair County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	4,638
Acres of buffer/filter strips	9.1
Acres of cover crops	396
Acres of conservation tillage	3,305
Acres of no-till, zone till, or grass cover	1,293
Number of gullies stabilized	24
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	4,218.5

This data was then compiled from farms verified in St. Clair County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **6,772.90** tons

Phosphorus reduced: **10,837.93** pounds

Nitrogen reduced: **21,675.51** pounds

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

FY 2019 St. Joseph County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in St. Joseph County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	4,752
Acres of buffer/filter strips	11.5
Acres of cover crops	4,250
Acres of conservation tillage	4,450
Acres of no-till, zone till, or grass cover	201
Number of gullies stabilized	30
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	4,751

This data was then compiled from farms verified in St. Joseph County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **6,942.46** tons

Phosphorus reduced: **11,109.57** pounds

Nitrogen reduced: **22,218.70** pounds

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

FY 2019 Tuscola County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Tuscola County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	23,147
Acres of buffer/filter strips	263.4
Acres of cover crops	7,697
Acres of conservation tillage	16,778
Acres of no-till, zone till, or grass cover	4,016
Number of gullies stabilized	65
Feet of livestock exclusion	1,320
Size of silage pad (acres)	0
Acres of Pest Management Plans	22,292

This data was then compiled from farms verified in Tuscola County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **34,117.86** tons

Phosphorus reduced: **54,626.61** pounds

Nitrogen reduced: **109,242.98** pounds

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

FY 2019 Van Buren County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Van Buren County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	10,048
Acres of buffer/filter strips	48.2
Acres of cover crops	879
Acres of conservation tillage	874
Acres of no-till, zone till, or grass cover	863
Number of gullies stabilized	14
Feet of livestock exclusion	3,000
Size of silage pad (acres)	0
Acres of Pest Management Plans	1,644

This data was then compiled from farms verified in Van Buren County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **14,723.76** tons

Phosphorus reduced: **23,565.89** pounds

Nitrogen reduced: **47,129.66** pounds

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

FY 2019 Washtenaw County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Washtenaw County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	4,958.75
Acres of buffer/filter strips	53.8
Acres of cover crops	868
Acres of conservation tillage	2,192
Acres of no-till, zone till, or grass cover	1,956.5
Number of gullies stabilized	7
Feet of livestock exclusion	250
Size of silage pad (acres)	0.5
Acres of Pest Management Plans	4,719.5

This data was then compiled from farms verified in Washtenaw County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **7,305.16** tons

Phosphorus reduced: **12,137.65** pounds

Nitrogen reduced: **26,285.40** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **29,445.07** pounds

FY 2019 Wayne County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Wayne County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	53.77
Acres of buffer/filter strips	0.0
Acres of cover crops	40.25
Acres of conservation tillage	52.75
Acres of no-till, zone till, or grass cover	0
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0
Acres of Pest Management Plans	10.77

This data was then compiled from farms verified in Wayne County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **78.37** tons

Phosphorus reduced: **125.39** pounds

Nitrogen reduced: **250.78** pounds

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

FY 2019 Wexford County MAEAP Environmental Outcomes

Information collected from MAEAP verified farms in Wexford County were used to calculate environmental outcomes in 2019:

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	3,520
Acres of buffer/filter strips	0.0
Acres of cover crops	1,055
Acres of conservation tillage	2,905
Acres of no-till, zone till, or grass cover	610
Number of gullies stabilized	0
Feet of livestock exclusion	0
Size of silage pad (acres)	0.55
Acres of Pest Management Plans	3,510

This data was then compiled from farms verified in Wexford County during the fiscal year of 2019, and the following totals were calculated:

Sediment reduced: **5,130.40** tons

Phosphorus reduced: **8,694.43** pounds

Nitrogen reduced: **19,602.26** pounds

Biochemical Oxygen Demand BOD (5-day) from silage leachate: **32,389.58** pounds

FY2019 Unique Sites

County	FY19 Unique Sites
Alcona	4
Alger	5
Allegan	47
Alpena	3
Antrim	7
Arenac	0
Baraga	0
Barry	8
Bay	2
Benzie	3
Berrien	18
Branch	7
Calhoun	3
Cass	21
Charlevoix	4
Cheboygan	4
Chippewa	5
Clare	1
Clinton	6
Crawford	0
Delta	3
Dickinson	1
Eaton	5
Emmet	5
Genesee	6
Gladwin	3
Gogebic	0
Grand Traverse	13
Gratiot	5

County	FY19 Unique Sites
Hillsdale	12
Houghton	0
Huron	16
Ingham	9
Ionia	10
Iosco	0
Iron	0
Isabella	5
Jackson	1
Kalamazoo	10
Kalkaska	0
Kent	19
Keweenaw	0
Lake	4
Lapeer	13
Leelanau	7
Lenawee	31
Livingston	2
Luce	2
Mackinac	2
Macomb	3
Manistee	3
Marquette	3
Mason	9
Mecosta	8
Menominee	2
Midland	3
Missaukee	3
Monroe	24

County	FY19 Unique Sites
Montcalm	8
Montmorency	2
Muskegon	2
Newaygo	5
Oakland	0
Oceana	18
Ogemaw	3
Ontonagon	0
Osceola	11
Oscoda	0
Otsego	2
Ottawa	18
Presque Isle	1
Roscommon	1
Saginaw	14
Sanilac	19
Schoolcraft	0
Shiawassee	16
St. Clair	12
St. Joseph	5
Tuscola	21
Van Buren	18
Washtenaw	16
Wayne	7
Wexford	4

FY19 Breakdown Vers and Revers By County

FY2019 Only												
	County	CAS	FAS	LAS	FWH	New Verifications	CAS RV	FAS RV	LAS RV	FWH RV	Reverified	Total New and RV
	Alcona	4	4	3	0	11	0	0	0	0	0	11
	Alger	0	3	1	0	4	2	2	0	0	4	8
	Allegan	26	8	2	0	36	18	6	9	0	33	69
	Alpena	2	0	2	1	5	0	0	0	0	0	5
	Antrim	1	3	1	0	5	4	4	1	0	9	14
	Arenac	0	0	0	0	0	0	0	0	0	0	0
	Baraga	0	0	0	0	0	0	0	0	0	0	0
	Barry	0	1	1	4	6	2	3	2	0	7	13
	Bay	1	0	0	0	1	1	0	0	0	1	2
	Benzie	2	2	0	0	4	1	1	0	0	2	6
	Berrien	11	10	3	1	25	6	3	0	0	9	34
	Branch	0	5	5	0	10	4	3	0	0	7	17
	Calhoun	2	0	1	0	3	1	1	1	0	3	6
	Cass	12	14	5	2	33	1	3	0	0	4	37
	Charlevoix	0	1	0	0	1	4	3	2	0	9	10
	Cheboygan	0	0	0	0	0	3	4	2	0	9	9
	Chippewa	3	3	0	1	7	1	1	1	0	3	10
	Clare	0	0	0	0	0	1	1	1	0	3	3
	Clinton	0	1	0	2	3	4	2	1	0	7	10
	Crawford	0	0	0	0	0	0	0	0	0	0	0
	Delta	0	0	0	1	1	1	2	0	0	3	4
	Dickinson	0	0	0	0	0	1	1	1	0	3	3
	Eaton	2	2	1	1	6	1	1	0	0	2	8
	Emmet	0	0	0	0	0	5	5	1	0	11	11
	Genesee	0	0	1	1	2	4	5	1	0	10	12
	Gladwin	0	0	0	0	0	3	2	2	0	7	7
	Gogebic	0	0	0	0	0	0	0	0	0	0	0
	Grand Traverse	7	7	0	0	14	4	5	0	0	9	23
	Gratiot	1	1	1	1	4	2	3	2	0	7	11

FY2019 Only	County	CAS	FAS	LAS	FWH	New Verifications	CAS RV	FAS RV	LAS RV	FWH RV	Reverified	Total New and RV
	Hillsdale	2	1	3	1	7	7	4	2	0	13	20
	Houghton	0	0	0	0	0	0	0	0	0	0	0
	Huron	1	0	1	0	2	14	7	3	0	24	26
	Ingham	3	1	1	0	5	5	6	5	0	16	21
	Ionia	2	2	1	5	10	3	2	0	0	5	15
	Iosco	0	0	0	0	0	0	0	0	0	0	0
	Iron	0	0	0	0	0	0	0	0	0	0	0
	Isabella	1	0	0	1	2	4	5	1	0	10	12
	Jackson	1	1	0	0	2	0	0	0	0	0	2
	Kalamazoo	2	2	1	1	6	5	4	4	0	13	19
	Kalkaska	0	0	0	0	0	0	0	0	0	0	0
	Kent	11	11	2	2	26	4	4	0	0	8	34
	Keweenaw	0	0	0	0	0	0	0	0	0	0	0
	Lake	2	1	1	2	6	1	1	0	0	2	8
	Lapeer	12	5	4	0	21	1	1	1	0	3	24
	Leelanau	4	3	0	2	9	2	3	1	0	6	15
	Lenawee	11	5	2	6	24	11	6	4	0	21	45
	Livingston	0	0	0	0	0	1	2	0	0	3	3
	Luce	2	2	0	0	4	0	0	0	0	0	4
	Mackinac	0	0	0	2	2	0	0	0	0	0	2
	Macomb	0	1	1	0	2	2	2	1	0	5	7
	Manistee	0	1	0	2	3	0	0	0	0	0	3
	Marquette	0	0	0	3	3	0	0	0	0	0	3
	Mason	3	3	0	1	7	2	2	1	0	5	12
	Mecosta	1	1	0	6	8	1	1	1	0	3	11
	Menominee	0	0	0	0	0	2	1	1	0	4	4
	Midland	0	0	0	0	0	3	0	0	0	3	3
	Missaukee	1	1	1	0	3	2	2	0	0	4	7
	Monroe	16	7	2	4	29	4	2	0	0	6	35
	Montcalm	2	2	1	5	10	1	1	1	0	3	13
	Montmorency	1	1	1	0	3	1	1	1	0	3	6
	Muskegon	1	1	0	0	2	1	1	1	0	3	5

FY2019 Only	County	CAS	FAS	LAS	FWH	New Verifications	CAS RV	FAS RV	LAS RV	FWH RV	Reverified	Total New and RV
	Newaygo	3	5	1	0	9	0	0	0	0	0	9
	Oakland	0	0	0	0	0	0	0	0	0	0	0
	Oceana	7	7	0	1	15	8	9	1	0	18	33
	Ogemaw	0	0	0	3	3	0	0	0	0	0	3
	Ontonagon	0	0	0	0	0	0	0	0	0	0	0
	Osceola	5	3	2	3	13	5	4	2	0	11	24
	Oscoda	0	0	0	0	0	0	0	0	0	0	0
	Otsego	1	1	0	1	3	0	0	0	0	0	3
	Ottawa	5	8	4	0	17	4	4	7	0	15	32
	Presque Isle	1	1	0	1	3	0	0	0	0	0	3
	Roscommon	0	0	0	0	0	0	0	0	0	0	0
	Saginaw	4	3	1	0	8	9	5	0	0	14	22
	Sanilac	10	1	0	1	12	8	3	0	0	11	23
	Schoolcraft	0	0	0	0	0	0	0	0	0	0	0
	Shiawassee	6	2	1	1	10	8	7	0	0	15	25
	St. Clair	5	3	1	1	10	7	3	0	0	10	20
	St. Joseph	2	2	1	1	6	1	1	0	0	2	8
	Tuscola	4	5	1	0	10	14	6	1	0	21	31
	Van Buren	7	4	2	1	14	9	9	2	0	20	34
	Washtenaw	5	6	2	5	18	5	2	2	0	9	27
	Wayne	5	2	0	0	7	2	2	0	0	4	11
	Wexford	3	4	2	0	9	0	0	1	0	1	10
	Totals:	223	163	66	81	533	222	172	71	0	465	

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
Alcona	104.3	151	
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	
Alger		95	85	
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	
Allegan		8,065.7	659	
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
Alpena		509.6	335	
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	
Antrim		6,190	177	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
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	
Arenac	2,800	7	
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		
Barry	1,980	30	
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	
Bay		5,987	21	
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	
Benzie		2	76	
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	
Berrien		1,339	223	
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	
Branch		3,677	114	
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	
Calhoun		11,734	126	
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	
Cass		18,228.1	833	3,001,202
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	
Charlevoix		165	85	
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	
Cheboygan		160	67	
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	
Chippewa		7,979.6	526	
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	
Clare			9	
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	
Clinton		36,610.5	258	2,446,267
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	
Crawford			7	
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	
Delta		3,674	240	
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	
Dickinson		50	5	
Environmentally Sensitive Areas Identified		50		
Well Tests, Every Three Years			2	
Well Tests, Health Standards			3	
Eaton		2,436	107	
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	
Emmet		155	68	
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	
Genesee		3,150.8	115	
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	
Gladwin		888	43	
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	
Gogebic		300	3	
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	
Grand Traverse		1,707.5	245	
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	
Gratiot		24,056.6	132	
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	

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	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		
Hillsdale	29,805.9	149	5,000
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	
Houghton		3.7	24	
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		
Huron		17,090.5	234	
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		
Ingham	5,871.3	174	384,000	
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	
Ionia		3,098	87	
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	
Iosco		1,699	52	
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	
Isabella		850	11	
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	
Jackson		7,438	149	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
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	
Kalamazoo	4,263.5	606	100
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	
Kalkaska		1	24	
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	
Kent		1,135	118	
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	
Lake			14	
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	
Lapeer		7,361	252	50,000
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	
Leelanau		99	149	
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	
Lenawee		65,288.0	1,024	20,000
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
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	
Livingston		6,101	38	
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	
Luce		720	39	
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	
Mackinac		1,554	104	
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	
Macomb		305	50	
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	
Manistee		760	35	
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	
Marquette		180.1	59	
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	
Mason		13,995	184	
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	
Mecosta			32	
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	
Menominee		16,703	103	145,705
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	
Midland		1,088	54	
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	
Missaukee		7,053	209	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
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	
Monroe		24,153.0	461	
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	
Montcalm		0.5	34	
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	
Montmorency		0.5	47	
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	
Muskegon		1,622	150	
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	

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	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	
Newaygo	2,465.5	369	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
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
Oakland		301	30	
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	
Oceana		8,232.3	458	2,000
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	
Ogemaw		1,524	50	
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	
Osceola		37	86	
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	
Oscoda		592	68	
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	

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, 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	
Otsego		94	60	
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	
Ottawa		2,919.6	243	15,000
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	
Presque Isle		1	88	
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	
Roscommon		980	33	
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	
Saginaw		35,732	93	
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	
Saint Clair		4,526.5	96	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
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	
Saint Joseph	121	68	2
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	
Sanilac		58,613	242	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
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	
Schoolcraft	256.1	64	
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	
Shiawassee		68,244.5	366	15,200
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	
St. Clair		9,600	23	
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	
St. Joseph		2	43	689,850
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	
Tuscola	14,761	205	
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	
Van Buren		2,001.5	293	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
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	
Washtenaw	24,551.0	525	45,001
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
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	
Wayne		546	80	
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	
Wexford		2,172	122	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
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	
Grand Total	598,557	13,118	6,819,327

TOTAL NUMBER OF PRACTICES IMPLEMENTED, FY 2017 - FY 2019	12,664
---	---------------

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
Alcona	104.3	151	
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	
Alger		95	85	
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	
Allegan		8,065.7	659	
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
Alpena		509.6	335	
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	
Antrim		6,190	177	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
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	
Arenac	2,800	7	
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		
Barry	1,980	30	
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	
Bay		5,987	21	
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	
Benzie		2	76	
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	
Berrien		1,339	223	
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	
Branch		3,677	114	
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	
Calhoun		11,734	126	
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	
Cass		18,228.1	833	3,001,202
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	
Charlevoix		165	85	
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	
Cheboygan		160	67	
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	
Chippewa		7,979.6	526	
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	
Clare			9	
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	
Clinton		36,610.5	258	2,446,267
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	
Crawford			7	
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	
Delta		3,674	240	
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	
Dickinson		50	5	
Environmentally Sensitive Areas Identified		50		
Well Tests, Every Three Years			2	
Well Tests, Health Standards			3	
Eaton		2,436	107	
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	
Emmet		155	68	
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	
Genesee		3,150.8	115	
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	
Gladwin		888	43	
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	
Gogebic		300	3	
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	
Grand Traverse		1,707.5	245	
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	
Gratiot		24,056.6	132	
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	

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	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		
Hillsdale	29,805.9	149	5,000
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	
Houghton		3.7	24	
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		
Huron		17,090.5	234	
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	
Ingham		5,871.3	174	384,000
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	
Ionia		3,098	87	
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	
Iosco		1,699	52	
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	
Isabella		850	11	
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	
Jackson		7,438	149	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
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	
Kalamazoo	4,263.5	606	100
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	
Kalkaska		1	24	
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	
Kent		1,135	118	
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	
Lake			14	
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	
Lapeer		7,361	252	50,000
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	
Leelanau		99	149	
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	
Lenawee		65,288.0	1,024	20,000
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
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	
Livingston		6,101	38	
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	
Luce		720	39	
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	
Mackinac		1,554	104	
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	
Macomb	305	50	
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	
Manistee		760	35	
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	
Marquette		180.1	59	
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	
Mason		13,995	184	
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	
Mecosta			32	
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	
Menominee		16,703	103	145,705
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	
Midland		1,088	54	
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	
Missaukee		7,053	209	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
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	
Monroe	24,153.0	461	
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	
Montcalm		0.5	34	
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	
Montmorency		0.5	47	
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	
Muskegon		1,622	150	
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	

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	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	
Newaygo	2,465.5	369	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
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
Oakland		301	30	
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	
Oceana		8,232.3	458	2,000
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	
Ogemaw		1,524	50	
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	
Osceola		37	86	
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	
Oscoda		592	68	
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	

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, 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	
Otsego		94	60	
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	
Ottawa		2,919.6	243	15,000
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	
Presque Isle		1	88	
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	
Roscommon		980	33	
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	
Saginaw		35,732	93	
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	
Saint Clair		4,526.5	96	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
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	
Saint Joseph	121	68	2
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	
Sanilac		58,613	242	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
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	
Schoolcraft		256.1	64	
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	
Shiawassee	68,244.5	366	15,200
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	
St. Clair		9,600	23	
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	
St. Joseph		2	43	689,850
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	
Tuscola	14,761	205	
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	
Van Buren		2,001.5	293	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
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	
Washtenaw	24,551.0	525	45,001
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019		Units		
Practices Implemented By County		Acres	Each	Gallon
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	
Wayne		546	80	
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	
Wexford		2,172	122	
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	

MAEAP Technical Assistance Summary: FY 2017 Through FY 2019	Units		
Practices Implemented By County	Acres	Each	Gallon
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	
Grand Total	598,557	13,118	6,819,327

TOTAL NUMBER OF PRACTICES IMPLEMENTED, FY 2017 - FY 2019	12,664
---	---------------

TOTAL MAEAP ENVIRONMENTAL OUTCOMES

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

	<u>Totals:</u>
Acres included in a nutrient plan or CNMP	1,262,558
Linear feet of buffer/filter strips	936,461
Acres of cover crops	199,815
Acres of conservation tillage	554,797
Acres of no-till, zone till, or grass cover	373,563
Number of gullies stabilized	4,912
Feet of livestock exclusion	264,435
Size of silage pad in acres	153
Acres of Pest Management Plans	1,330,627

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

Sediment reduced: **1,870,812** tons

Phosphorus reduced: **3,100,318** pounds

Nitrogen reduced: **6,701,404** pounds

Biochemical Oxygen Demand (BOD) (5-day) from silage leachate: **8,977,234** 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	FY2019	Totals	FY 2019 Goal
Livestock	9	7	35	55	74	17	19	15	24	20	68	73	84	98	79	90	87	66	920	
Farmstead		3	20	34	62	53	52	65	36	55	112	193	202	239	222	200	179	163	1890	
Cropping				18	40	47	52	63	56	81	158	268	256	286	255	223	186	223	2212	
FWH															81	129	59	81	350	
Totals:	9	10	55	107	176	117	123	143	116	156	338	534	542	623	637	642	511	533	5372	500
Total Verifications	9	19	74	181	357	474	597	740	856	1012	1350	1884	2426	3049	3686	4328	4839	5372		
Livestock Reverification				2	7	23	9	11	28	35	28	56	36	62	29	17	62	71	476	
Farmstead Reverification				1	3	12	23	23	44	54	97	85	73	143	49	21	152	172	952	
Cropping Reverification				0	2	3	13	19	37	47	67	89	90	167	63	21	173	222	1013	
FWH Reverification															0	0	0	0	0	
Totals:				3	12	38	45	53	109	136	192	230	199	372	141	59	387	465	2441	550
Total Reverifications				3	15	53	98	151	260	396	588	818	1017	1389	1530	1589	1976	2441		

Comment: FY 19 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	12	11	8	1	32	1	0	1	0	2	34	12
Alger	12	8	5	5	30	5	2	0	0	3	33	17
Allegan	114	77	47	4	242	29	15	32	0	76	318	153
Alpena	18	20	14	1	53	2	2	2	0	6	58	21
Antrim	17	22	5	3	47	22	29	6	0	57	104	23
Arenac	3	0	0	0	3	0	0	0	0	0	3	2
Baraga	1	1	1	0	3	0	0	0	0	0	3	1
Barry	15	20	18	6	59	9	11	11	0	31	100	34
Bay	13	15	1	0	29	10	10	0	0	20	49	17
Benzie	13	14	1	1	29	4	8	1	0	13	42	17
Berrien	84	55	15	1	155	23	14	1	0	38	193	92
Branch	25	28	19	0	72	12	8	8	0	28	100	38
Calhoun	28	24	11	1	64	3	8	11	0	22	86	37
Cass	51	54	37	7	149	6	19	8	0	33	182	83
Charlevoix	18	18	8	3	47	10	4	3	0	17	64	22
Cheboygan	10	11	5	1	27	5	10	2	0	17	44	13
Chippewa	32	30	20	2	84	6	7	4	0	17	101	32
Clare	10	12	9	1	32	4	11	4	0	19	51	14
Clinton	36	32	15	6	89	25	22	6	0	53	142	46
Crawford	1	2	2	1	0	0	0	0	0	0	0	3
Delta	12	12	11	84	119	7	7	4	0	18	137	73
Dickinson	3	4	3	0	10	1	1	1	0	3	13	4
Eaton	24	29	14	4	71	17	19	5	0	41	112	34
Emmet	19	17	3	0	39	8	8	2	0	18	57	18
Genesee	28	35	13	1	77	7	17	2	0	26	103	40
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	44	46	5	0	95	31	45	2	0	78	173	51
Gratiot	39	37	23	4	103	9	16	20	0	45	148	54

All Verifications, Reverifications, Unique Sites Breakdown By County

Hillsdale	54	31	27	6	118	25	16	18	0	59	177	67
Houghton	0	0	0	0	0	0	0	0	0	0	0	0
Huron	83	40	46	8	177	88	33	35	0	156	333	119
Ingham	29	43	20	1	93	5	12	6	0	23	116	50
Ionia	25	25	29	1	80	7	10	21	0	38	118	38
Iosco	8	6	4	2	20	1	2	0	0	3	23	9
Iron	0	0	0	0	0	0	0	0	0	0	0	0
Isabella	31	23	18	1	73	19	14	3	0	36	109	36
Jackson	32	21	8	3	64	10	14	7	0	31	93	33
Kalamazoo	47	50	22	3	122	16	21	15	0	52	174	66
Kalkaska	8	12	4	0	24	4	6	1	0	11	35	12
Kent	33	33	8	2	76	11	9	2	0	22	98	38
Keweenaw	0	0	0	0	0	0	0	0	0	0	0	0
Lake	7	9	5	4	25	3	1	1	0	5	30	14
Lapeer	54	50	30	3	137	4	4	3	0	11	148	60
Leelanau	46	52	4	5	107	22	45	2	0	68	175	60
Lenawee	99	56	23	11	190	34	18	8	0	60	250	125
Livingston	7	6	0	3	16	2	6	1	0	9	25	13
Luce	4	4	0	1	9	0	0	0	0	0	9	4
Mackinac	1	1	1	4	7	0	0	0	0	0	7	6
Macomb	31	25	9	0	65	4	8	1	0	13	78	38
Manistee	11	9	3	5	28	1	1	0	0	2	27	14
Marquette	7	4	4	16	31	0	0	0	0	0	28	16
Mason	53	42	10	3	108	25	22	2	0	49	156	61
Mecosta	20	22	21	7	70	5	7	21	0	33	103	38
Menominee	8	6	6	16	36	5	5	4	0	14	50	20
Midland	12	8	6	0	26	8	2	2	0	12	38	13
Missaukee	35	31	25	0	91	23	17	16	0	56	147	37
Monroe	48	24	14	8	94	15	5	3	0	23	117	74
Montcalm	20	21	11	16	68	7	6	2	0	15	83	39
Montmorenc	7	7	5	1	20	2	2	2	0	6	26	7
Muskegon	23	22	13	1	59	12	15	17	0	44	103	31
Newaygo	16	20	13	1	50	2	9	12	0	23	64	23
Oakland	10	7	3	0	20	4	4	0	0	8	28	10

All Verifications, Reverifications, Unique Sites Breakdown By County

Oceana	74	67	11	4	156	74	54	7	0	135	291	82
Ogemaw	7	3	3	5	18	1	2	1	0	4	22	9
Ontonagon	0	0	0	1	1	0	0	0	0	0	1	1
Osceola	35	39	24	12	110	22	34	16	0	72	182	63
Oscoda	3	3	3	2	11	0	0	0	0	0	11	3
Otsego	10	11	4	2	27	4	7	1	0	12	39	12
Ottawa	43	45	35	3	126	30	33	33	0	96	222	68
Presque Isle	6	6	3	3	18	0	1	0	0	1	19	2
Roscommon	8	6	8	0	22	5	2	3	0	10	32	4
Saginaw	46	39	11	3	99	20	15	2	0	37	136	53
Sanilac	78	41	19	7	145	34	14	7	0	55	200	102
Schoolcraft	2	2	2	29	35	0	0	0	0	0	35	20
Shiawassee	67	58	12	10	147	35	36	1	0	72	219	80
St. Clair	41	28	6	2	77	15	11	2	0	28	105	45
St. Joseph	23	24	13	2	62	6	8	8	0	22	84	38
Tuscola	84	56	17	17	174	46	34	10	0	90	264	108
Van Buren	78	63	10	2	153	37	35	4	0	74	227	94
Washtenaw	41	30	20	9	82	19	8	5	0	32	132	52
Wayne	21	14	3	0	38	2	2	0	0	4	42	26
Wexford	10	24	135	1	50	2	8	5	0	15	65	19

Unique Sites Total **3017**

Michigan Agriculture Environmental Assurance Program
Cropping Systems Subcommittee
Summary of Proposed Amendments for 2019 Cropping – Nursery and Christmas Tree

Number	Approval Date	Reason for Change
		No
		Recommended
		Changes

Michigan Agriculture Environmental Assurance Program
Cropping Systems Subcommittee
Summary of Proposed Amendments for 2019 Cropping – Field Crops and Vegetables

Number	Approval Date	Reason for Change
		No
		Recommended
		Changes

Michigan Agriculture Environmental Assurance Program
Cropping Systems Subcommittee
Summary of Proposed Amendments for 2019 Cropping – Fruit

Number	Approval Date	Reason for Change
		No
		Recommended
		Changes

Michigan Department of Agriculture and Rural Development
Michigan Agriculture Environmental Assurance Program
 Cropping Systems Subcommittee
Summary of 2019 Proposed Amendments to Greenhouse*A*Syst

Number	Approval Date	Reason for Change
2.06a	4-1-19	Add question to maintain consistency with FAS [2.06) In FAS]
2.09	4-1-19	Remove question to be consistent with FAS
3.01	4-1-19	Replace with 3.01 from FAS to maintain consistency
3.20	4-1-19	Replace with 3.20 FAS to maintain consistency
5.15	4-1-19	Remove blue italics from low risk to maintain consistency with FAS
6.11A	5-20-19	To include language in the FAS that will address isolation distances of aboveground fuel tanks from propane tanks
6.11B	5-20-19	To include language in the FAS that will address isolation distances of fill and dispensing points of UST's to propane tanks.
Header	4-1-19	Header above 6.26 needs to read "All Aboveground Petroleum Storage Tanks > 1,100 Gallon Capacity "
6.26	4-1-19	Replace with 6.26 FAS to maintain consistency
6.29a	4-1-19	Add question to maintain consistency with FAS

Michigan Department of Agriculture and Rural Development
Michigan Agriculture Environmental Assurance Program
 Farmstead Systems Subcommittee
 Summary of 2019 Proposed Amendments to Farm*A*Syst

[illegible]

Michigan Department of Agriculture and Rural Development
Michigan Agriculture Environmental Assurance Program

Livestock Systems Subcommittee

Summary of 2019 Proposed Amendments to Livestock* A* Syst

[illegible]

Cropping Systems Subcommittee
2019 Proposed Amendments to Greenhouse*A*Syst

Date: 4-1-19

Submitter: Josh Appleby

Reason for Amendments: Add question to maintain consistency with FAS

Current Text

2.06a)					
--------	--	--	--	--	--

Proposed Text

2.06a) If the drinking water well serves 25 or more people for 60 consecutive days is it registered as a Type II public water supply and has it been tested according to the local health department requirements?	The water supply is a type IIa or IIb system that is registered with the local health department and routine water sampling is completed as required	The water supply use is less than 20,000 gallons per day on average, making it a Type IIb water supply, and water sampling is not completed in accordance with local health department requirements.3	The water supply use is 20,000 gallons or more per day on average, making it a Type IIa water supply, and water sampling is not completed according to the local health department requirements.3		
---	--	--	--	--	--

☒ Proposed Text approved (date): 4/1/2019

Cropping Systems Subcommittee
2019 Proposed Amendments to Greenhouse*A*Syst

Date: 4-1-19

Submitter: Josh Appleby

Reason for Amendments: Remove question to be consistent with FAS

Current Text

2.09) What is the well capacity?	25 gallons per minute or less.	Greater than 25 gallons per minute.			
---	---	--	--	--	--

Proposed Text

--	--	--	--	--	--

☒ Proposed Text approved (date): 4/1/2019

Cropping Systems Subcommittee
2019 Proposed Amendments to Greenhouse*A*Syst

Date: 4-1-19

Submitter: Josh Appleby

Reason for Amendments: Replace with 3.01 from FAS to maintain consistency

Current Text

<p>3.01) How far is the pesticide storage located from any water well (private wells include irrigation, livestock watering, cooling etc.)?</p>	<p>For private wells: 150 feet or greater. Or, with secondary containment 50 feet or greater.</p> <p>For public wells (greenhouse with employees or that is open to the public): more than 800 feet from the farm well.</p> <p>Or,</p> <p>Approved isolation distance deviation for the well.</p> <p>Or,</p> <p>Between 75 and 800 feet with approved storage and well protective site features.</p>		<p>For private wells: Less than 150 feet without secondary containment, or less than 50 feet with secondary containment.1</p> <p>For pubic wells: (greenhouse with employees or that is open to the public): Less than 800 feet from the farm well.3</p>		
--	--	--	--	--	--

Proposed Text

<p>3.01) How far is the pesticide storage located from any water well (private wells include irrigation, livestock watering, cooling etc.)?</p> <p>Type IIb and Type III (public wells include wells that service the milkhouse, bathrooms, drinking fountains, etc.</p> <p>Use Table 1 in FAS 108 for well type identification.</p>	<p>For private wells: 150 feet or greater. Or, with secondary containment 50 feet or greater.</p> <p>For Type IIb or Type III public wells: more than 800 feet from the farm well.</p> <p>Or,</p> <p>Approved isolation distance deviation for the well.</p> <p>Or,</p> <p>Between 75 and 800 feet with approved storage and well protective site features.*</p> <p>For Type IIa public wells, refer to FAS 112S.</p>		<p>For private wells: Less than 150 feet without secondary containment, or less than 50 feet with secondary containment.1</p> <p>For pubic wells: (greenhouse with employees or that is open to the public): Less than 800 feet from the farm well.3</p>		
---	---	--	--	--	--

☒ Proposed Text approved (date): 4/1/2019

Date: 4-1-19

Submitter: Josh Appleby

Reason for Amendments: Consistency with FAS

Current Text

3.20) How is the potential reduced for surface and groundwater contamination at the mix/load area(s)?	Mixing and loading pad with curb keeps spills contained. Sumps allow collection and transfer to storage.	Mixing and loading on concrete pad without curbs.	No Mixing and loading pad. Permeable soil. Spills soak into ground. Same location every time.		Satisfactory explanation of mixing and loading procedures.
---	--	---	---	--	--

Proposed Text

3.20) How is the potential reduced for surface and groundwater contamination at the mix/load area(s)?	Mixing and loading pad with curb keeps spills contained. Sumps allow collection and transfer to storage	Mixing and loading in the field without mix/load pad. Different locations every time reduces risk to groundwater. Or, Mixing and loading on concrete pad without curbs.	No Mixing and loading pad. Permeable soil. Spills soak into ground. Same location every time.		Satisfactory explanation of mixing and loading procedures. No evidence of burned vegetation.
---	---	---	---	--	---

☒ Proposed Text

Alternative Text

☒ Alternative Text approved (date): 4-1-19

Date: 4-1-19

Submitter: Josh Appleby

Reason for Amendments: Maintain consistency with FAS

Current Text

5.15) How far is the mixing and loading area from surface water?	<i>200 feet or greater</i>	Less than 200 feet with appropriate security measures.	Less than 200 feet, without appropriate security measures.		Appropriate mixing and loading area isolation distance from surface water.
--	----------------------------	--	--	--	--

Proposed Text

5.15) How far is the mixing and loading area from surface water?	200 feet or greater (No Bold Text)	Less than 200 feet with appropriate security measures.	Less than 200 feet, without appropriate security measures.		Appropriate mixing and loading area isolation distance from surface water.
--	------------------------------------	--	--	--	--

☒ Proposed Text

Alternative Text

Remove bold italics from low risk, this is not in GAAMP's

☐ Alternative Text approved (date): 4-1-19

Date: 5/20/2019
Submitter: M. Reed

Reason for Amendments: To include language in the GHAS that will address isolation distances of aboveground fuel tanks from propane tanks.

Current Text

--	--	--	--	--	--

Proposed Text

6.11A) How far are LP Gas tanks (propane tanks) from aboveground fuel tanks (ASTs)?	LP Gas tanks (propane tanks) are more than 20 feet from aboveground fuel tanks.		LP Gas tanks (propane tanks) are less than 20 feet from aboveground fuel tanks. ¹⁶		
---	---	--	---	--	--

☒ Proposed Text

Alternative Text

☐ Alternative Text approved (date):

Date: 5/20/2019
Submitter: M. Reed

Reason for Amendments: To include language in the GHAS that will address isolation distances of fill and dispensing points of USTs to propane tanks.

Current Text

--	--	--	--	--	--

Proposed Text

6.11B) How far are LP Gas tanks (propane tanks) from the fill and dispensing points of underground fuel tanks (USTs)?	LP Gas tanks are at least 20 feet from the fill point of the UST and at least 10 feet from the dispensing point of the UST.		LP Gas tanks are less than 20 feet from the fill point of the UST and/or less than 10 feet from the dispensing point of the UST. ¹⁶		
---	---	--	--	--	--

☒ Proposed Text

Alternative Text

Date: 4-1-19

Submitter: Josh Appleby

Reason for Amendments: Maintain consistency with FAS and adding a Header above 6.26)

Current Text

6.26) Is the tank registered and is valid proof of registration displayed?	The aboveground storage tank with capacity greater than 1,100 gallons is registered, and valid proof of registration is available.	The total volume of fuel storage on site is less than 10,000 gallons. The tank is not registered, or valid proof of registration is not available, ¹⁷ But an inspection finds it meets all applicable boxed MAEAP requirements in the Petroleum Product Storage and Management section.	The tank is not registered and/or the tank does not bear a UL tag, and/or valid proof of registration is not available. ¹⁷		Aboveground storage tank is registered or there are minimal environmental risks.
--	--	---	--	--	--

Proposed Text

6.26) Is the tank registered and is valid proof of registration displayed?	The aboveground storage tank with capacity greater than 1,100 gallons is registered, and valid proof of registration is available.	For above-ground storage tanks with a capacity of greater than 1,100 gallons, but less than or equal to 3,000 gallons. The tank is not registered, or valid proof of registration is not available, ¹⁷ But an inspection finds it meets all applicable boxed MAEAP requirements in the Petroleum Products Storage and Management section.	The tank is not registered and/or the tank does not bear a UL tag, and/or valid proof of registration is not available. ¹⁷		Aboveground storage tank is registered or there are minimal environmental risks.
--	--	---	--	--	--

☒ Proposed Text

Alternative Text

☐ Alternative Text approved (date): 4-1-19

Date: 4-1-19
Submitter: Josh Appleby
Reason for Amendments: Add question to be consistent with FAS

Current Text

na					
----	--	--	--	--	--

Proposed Text

6.29a) Does the tank have an audible alarm?	Yes, audible alarm is present				
---	-------------------------------	--	--	--	--

☒ Proposed Text

Alternative Text

☐ Alternative Text approved (date): 4-1-19

Cropping Systems Subcommittee
2019 Proposed Amendments to Greenhouse*A*Syst

Date: 4-1-19

Submitter: Josh Appleby

Reason for Amendments: Add question to maintain consistency with FAS

Current Text

2.06a)					
--------	--	--	--	--	--

Proposed Text

2.06a) If the drinking water well serves 25 or more people for 60 consecutive days is it registered as a Type II public water supply and has it been tested according to the local health department requirements?	The water supply is a type IIa or IIb system that is registered with the local health department and routine water sampling is completed as required	The water supply use is less than 20,000 gallons per day on average, making it a Type IIb water supply, and water sampling is not completed in accordance with local health department requirements.3	The water supply use is 20,000 gallons or more per day on average, making it a Type IIa water supply, and water sampling is not completed according to the local health department requirements.3		
---	--	--	--	--	--

☒ Proposed Text approved (date): 4/1/2019

Cropping Systems Subcommittee
2019 Proposed Amendments to Greenhouse*A*Syst

Date: 4-1-19

Submitter: Josh Appleby

Reason for Amendments: Remove question to be consistent with FAS

Current Text

2.09) What is the well capacity?	25 gallons per minute or less.	Greater than 25 gallons per minute.			
---	---	--	--	--	--

Proposed Text

--	--	--	--	--	--

☒ Proposed Text approved (date): 4/1/2019

Cropping Systems Subcommittee
2019 Proposed Amendments to Greenhouse*A*Syst

Date: 4-1-19

Submitter: Josh Appleby

Reason for Amendments: Replace with 3.01 from FAS to maintain consistency

Current Text

<p>3.01) How far is the pesticide storage located from any water well (private wells include irrigation, livestock watering, cooling etc.)?</p>	<p>For private wells: 150 feet or greater. Or, with secondary containment 50 feet or greater.</p> <p>For public wells (greenhouse with employees or that is open to the public): more than 800 feet from the farm well.</p> <p>Or,</p> <p>Approved isolation distance deviation for the well.</p> <p>Or,</p> <p>Between 75 and 800 feet with approved storage and well protective site features.</p>		<p>For private wells: Less than 150 feet without secondary containment, or less than 50 feet with secondary containment.1</p> <p>For pubic wells: (greenhouse with employees or that is open to the public): Less than 800 feet from the farm well.3</p>		
--	--	--	--	--	--

Proposed Text

<p>3.01) How far is the pesticide storage located from any water well (private wells include irrigation, livestock watering, cooling etc.)?</p> <p>Type IIb and Type III (public wells include wells that service the milkhouse, bathrooms, drinking fountains, etc.</p> <p>Use Table 1 in FAS 108 for well type identification.</p>	<p>For private wells: 150 feet or greater. Or, with secondary containment 50 feet or greater.</p> <p>For Type IIb or Type III public wells: more than 800 feet from the farm well.</p> <p>Or,</p> <p>Approved isolation distance deviation for the well.</p> <p>Or,</p> <p>Between 75 and 800 feet with approved storage and well protective site features.*</p> <p>For Type IIa public wells, refer to FAS 112S.</p>		<p>For private wells: Less than 150 feet without secondary containment, or less than 50 feet with secondary containment.1</p> <p>For pubic wells: (greenhouse with employees or that is open to the public): Less than 800 feet from the farm well.3</p>		
---	---	--	--	--	--

☒ Proposed Text approved (date): 4/1/2019

Date: 4-1-19

Submitter: Josh Appleby

Reason for Amendments: Consistency with FAS

Current Text

3.20) How is the potential reduced for surface and groundwater contamination at the mix/load area(s)?	Mixing and loading pad with curb keeps spills contained. Sumps allow collection and transfer to storage.	Mixing and loading on concrete pad without curbs.	No Mixing and loading pad. Permeable soil. Spills soak into ground. Same location every time.		Satisfactory explanation of mixing and loading procedures.
---	--	---	---	--	--

Proposed Text

3.20) How is the potential reduced for surface and groundwater contamination at the mix/load area(s)?	Mixing and loading pad with curb keeps spills contained. Sumps allow collection and transfer to storage	Mixing and loading in the field without mix/load pad. Different locations every time reduces risk to groundwater. Or, Mixing and loading on concrete pad without curbs.	No Mixing and loading pad. Permeable soil. Spills soak into ground. Same location every time.		Satisfactory explanation of mixing and loading procedures. No evidence of burned vegetation.
---	---	---	---	--	--

☒ Proposed Text

Alternative Text

☒ Alternative Text approved (date): 4-1-19

Date: 4-1-19

Submitter: Josh Appleby

Reason for Amendments: Maintain consistency with FAS

Current Text

5.15) How far is the mixing and loading area from surface water?	<i>200 feet or greater</i>	Less than 200 feet with appropriate security measures.	Less than 200 feed, without appropriate security measures.		Appropriate mixing and loading area isolation distance from surface water.
--	----------------------------	--	--	--	--

Proposed Text

5.15) How far is the mixing and loading area from surface water?	200 feet or greater (No Bold Text)	Less than 200 feet with appropriate security measures.	Less than 200 feed, without appropriate security measures.		Appropriate mixing and loading area isolation distance from surface water.
--	------------------------------------	--	--	--	--

☒ Proposed Text

Alternative Text

Remove bold italics from low risk, this is not in GAAMP's

☐ Alternative Text approved (date): 4-1-19

Date: 5/20/2019
Submitter: M. Reed

Reason for Amendments: To include language in the GHAS that will address isolation distances of aboveground fuel tanks from propane tanks.

Current Text

--	--	--	--	--	--

Proposed Text

6.11A) How far are LP Gas tanks (propane tanks) from aboveground fuel tanks (ASTs)?	LP Gas tanks (propane tanks) are more than 20 feet from aboveground fuel tanks.		LP Gas tanks (propane tanks) are less than 20 feet from aboveground fuel tanks. ¹⁶		
---	---	--	---	--	--

☒ Proposed Text

Alternative Text

☐ Alternative Text approved (date):

Date: 5/20/2019
Submitter: M. Reed

Reason for Amendments: To include language in the GHAS that will address isolation distances of fill and dispensing points of USTs to propane tanks.

Current Text

--	--	--	--	--	--

Proposed Text

6.11B) How far are LP Gas tanks (propane tanks) from the fill and dispensing points of underground fuel tanks (USTs)?	LP Gas tanks are at least 20 feet from the fill point of the UST and at least 10 feet from the dispensing point of the UST.		LP Gas tanks are less than 20 feet from the fill point of the UST and/or less than 10 feet from the dispensing point of the UST. ¹⁶		
---	---	--	--	--	--

☒ Proposed Text

Alternative Text

Date: 4-1-19

Submitter: Josh Appleby

Reason for Amendments: Maintain consistency with FAS and adding a Header above 6.26)

Current Text

6.26) Is the tank registered and is valid proof of registration displayed?	The aboveground storage tank with capacity greater than 1,100 gallons is registered, and valid proof of registration is available.	The total volume of fuel storage on site is less than 10,000 gallons. The tank is not registered, or valid proof of registration is not available, ¹⁷ But an inspection finds it meets all applicable boxed MAEAP requirements in the Petroleum Product Storage and Management section.	The tank is not registered and/or the tank does not bear a UL tag, and/or valid proof of registration is not available. ¹⁷		Aboveground storage tank is registered or there are minimal environmental risks.
--	--	---	--	--	--

Proposed Text

6.26) Is the tank registered and is valid proof of registration displayed?	The aboveground storage tank with capacity greater than 1,100 gallons is registered, and valid proof of registration is available.	For above-ground storage tanks with a capacity of greater than 1,100 gallons, but less than or equal to 3,000 gallons. The tank is not registered, or valid proof of registration is not available, ¹⁷ But an inspection finds it meets all applicable boxed MAEAP requirements in the Petroleum Products Storage and Management section.	The tank is not registered and/or the tank does not bear a UL tag, and/or valid proof of registration is not available. ¹⁷		Aboveground storage tank is registered or there are minimal environmental risks.
--	--	---	--	--	--

☒ Proposed Text

Alternative Text

☐ Alternative Text approved (date): 4-1-19

Date: 4-1-19
Submitter: Josh Appleby
Reason for Amendments: Add question to be consistent with FAS

Current Text

na					
----	--	--	--	--	--

Proposed Text

6.29a) Does the tank have an audible alarm?	Yes, audible alarm is present				
---	-------------------------------	--	--	--	--

☒ Proposed Text

Alternative Text

☐ Alternative Text approved (date): 4-1-19

Date: 5/20/2019
Submitter: M. Reed

Reason for Amendments: To include language in the FAS that will address isolation distances of aboveground fuel tanks from propane tanks.

Current Text

--	--	--	--	--	--

Proposed Text

6.12) How far are LP Gas tanks (propane tanks) from aboveground fuel tanks (ASTs)?	LP Gas tanks (propane tanks) are more than 20 feet from aboveground fuel tanks.		LP Gas tanks (propane tanks) are less than 20 feet from aboveground fuel tanks. ¹⁶		
--	---	--	---	--	--

☒ Proposed Text

Alternative Text

☐ Alternative Text approved (date):

Farmstead Systems Subcommittee: 2019 Proposed Amendments to Farm*A*Syst

Date: 5/20/2019

Submitter: M. Reed

Reason for Amendments: To include language in the FAS that will address isolation distances of fill and dispensing points of USTs to propane tanks.

Current Text

--	--	--	--	--	--

Proposed Text

6.13) How far are LP Gas tanks (propane tanks) from the fill and dispensing points of underground fuel tanks (USTs)?	LP Gas tanks are at least 20 feet from the fill point of the UST and at least 10 feet from the dispensing point of the UST.		LP Gas tanks are less than 20 feet from the fill point of the UST and/or less than 10 feet from the dispensing point of the UST. ¹⁶		
--	---	--	--	--	--

☒ Proposed Text

Alternative Text

☐ Alternative Text approved (date):

Farmstead Systems Subcommittee: 2019 Proposed Amendments to Farm*A*Syst

Date: 3/28/2019

Submitter: M. Reed

Reason for Amendments: To change language in FAS 6.28 (Previously 6.26) to clarify the volume constraints for registering above ground tanks.

Current Text

6.28) Is the tank registered and is valid proof of registration displayed?	The above-ground storage tank with capacity greater than 1,100 gallons is registered, and valid proof of registration is available.	For above-ground storage tanks with a capacity greater than 1,100 gallons, but less than 3,000 gallons the tank is not registered, or valid proof of registration is not available , ¹⁶ but an inspection finds it meets all applicable boxed MAEAP requirements in the Petroleum Products Storage and Management Section.	The tank is not registered and/or the tank does not bear a UL tag, and/or valid proof of registration is not available. ¹⁶	Aboveground storage tank is registered or there are minimal environmental risks.
---	---	--	--	--

Proposed Text

6.28) Is the tank registered and is valid proof of registration displayed?	The above-ground storage tank with capacity greater than 1,100 gallons is registered, and valid proof of registration is available.	For above-ground storage tanks with a capacity greater than 1,100 gallons, but less than or equal to 3,000 gallons the tank is not registered, or valid proof of registration is not available , ¹⁶ but an inspection finds it meets all applicable boxed MAEAP requirements in the Petroleum Products Storage and Management Section.	The tank is not registered and/or the tank does not bear a UL tag, and/or valid proof of registration is not available. ¹⁶	Aboveground storage tank is registered or there are minimal environmental risks.
---	---	---	--	--

☒ Proposed Text

Alternative Text

☐ Alternative Text approved (date):

Farmstead Systems Subcommittee: 2019 Proposed Amendments to Farm*A*Syst

Date: 3/28/19

Submitter: Mitch Reed

Reason for Amendments: Include language in FAS section 7 that addresses how to dispose of wash water from an on-farm commercial washing operation that contains solvents and/or degreasers.

Current Text

--	--	--	--	--	--

Proposed Text

7.06) How is wash water from an on-farm truck washing operation, that contains solvent based degreasers, disposed of? (several trucks washed on a routine basis)	Discharged onto the ground and the landowner has a valid groundwater discharge permit. OR Discharged into a municipality sewer system with the approval of the municipality.		Discharges more than 1,000 gallons of wash water per month per acre. ⁴ Landowner does not have a groundwater discharge permit. ⁴ Discharge is within 100' of property line. ⁴ Discharge causes runoff or waste deposition on adjacent properties. ⁴ Landowner does not keep a log of discharge locations. ⁴ Wash water is discharged into surface waters. ⁴	Valid groundwater discharge permit and/or up to date discharge logs.	
--	--	--	--	--	--

☒ Proposed Text

Alternative Text

☐ Alternative Text approved (date):

Farmstead Systems Subcommittee: 2019 Proposed Amendments to Farm*A*Syst

Date: 3/28/2019

Submitter: M. Reed

Reason for Amendments: Include language in FAS section 7 that addresses how to dispose of wash water from an on-farm commercial washing operation that does not include solvents or degreasers.

Current Text

--	--	--	--	--	--

Proposed Text

7.07) How is wash water from an on-farm truck washing operation, that does NOT contain degreasers and solvents, disposed of? (several trucks washed on a routine basis)	<p>Discharged onto the ground and the landowner has a valid groundwater discharge general permit (GW1520000).</p> <p>OR</p> <p>Discharged into a municipality sewer system with the approval of the municipality.</p> <p>OR</p> <p>Wash water is only removing nonpolluting substances from the exterior of the vehicle and does not include the undercarriage, no additives are used, and the washing process does not add significant pollutants to the water.</p>	<p>Discharges less than 2,000 gallons per day of only wash water with additives onto the ground ("additives" do NOT include solvents and/or degreasers).</p> <p>Additives (soaps and detergents) are used for intended purpose and in accordance with manufacturer's directions.</p> <p>Washing is limited to exterior of the vehicle and does not include the undercarriage.</p> <p>Wash water does not contain polluting or hazardous substances.</p> <p>Discharge does not runoff, causing ponding or flooding to adjacent properties.</p> <p>Landowner maintains a log detailing the discharge volume of wash water with additives and retains the log for 3 years.</p>	<p>Discharges more than 2,000 gallons per day of wash water with additives onto the ground.⁴</p> <p>Landowner does not have a valid groundwater discharge permit.⁴</p> <p>Wash water contains polluting or hazardous substances.⁴</p> <p>Discharged runoff causes ponding or flooding to adjacent properties.⁴</p> <p>Landowner does not maintain a log detailing the discharge volume of wash water with additives for the past 3 years.⁴</p>	Valid groundwater discharge general permit and/or up to date discharge logs.	
---	--	---	--	--	--

☒ Proposed Text

Farmstead Systems Subcommittee: 2019 Proposed Amendments to Farm*A*Syst

Date: 3/28/2019

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

<p>9.07) How are animal mortalities handled?</p>	<p>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.</p>		<p>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. ¹⁵</p>	<p>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)</p>
---	--	--	--	---

Proposed Text

<p>9.07) How are animal mortalities handled?</p>	<p>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.</p>		<p>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. ¹⁵</p>	<p>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.)</p> <p>Forms for recording mortality disposal including burial record forms and compost record forms are available on the MAEAP website at: http://www.maeap.org/get_verified/livestock_system.</p>
---	---	--	--	---

☒ Proposed Text

Farmstead Systems Subcommittee: 2019 Proposed Amendments to Farm*A*Syst

Date: 3/28/2019

Submitter: M. Reed

Reason for Amendments: Insert text from LAS 13.02 into FAS 9.08 to have language between A-Systs be consistent with each other and to update the FAS with current BODA isolation distance standards.

Current Text

--	--	--	--	--

Proposed Text

9.08) If mortality composting is used, what are the isolation distances for the composting site?	Static-pile 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.		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. ¹⁵	Isolation distances meet BODA requirements. The BODA supplement, available at the MAEAP.org website, has been completed and reviewed.
---	---	--	---	---

☒ Proposed Text

Alternative Text

☐ Alternative Text approved (date):

Livestock Systems Subcommittee
2019 Proposed Amendments to Livestock*A*Syst

Current Text

N/A					
New Question after 13.01					

Proposed Text

13.02) If burial of mortality (including both individual and common graves) is used, what are the isolation distances for the burial site(s)?	Burial site is located at least 200 feet from any well and dead animal(s) do not come into contact with waters of the state.		Site(s) is located less than 200 feet from any well and/or come into contact with waters of the state. ⁵		Isolation distances meet BODA requirements. The BODA supplement, available at the MAEAP.org website, has been completed and reviewed.
---	--	--	---	--	---

☒ Proposed Text:

Alternative Text

☐ Alternative Text approved (date):

Livestock Systems Subcommittee
2019 Proposed Amendments to Livestock*A*Syst

Current Text

13.02) If mortality composting is used, what are the isolation distances for the composting site?	Static pile 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.		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.⁵		Isolation distances meet BODA requirements. The BODA supplement, available at the MAEAP.org website, has been completed and reviewed.
--	--	--	---	--	---

Proposed Text

13.023) If mortality composting is used, what are the isolation distances for the composting site?	Static pile 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.		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.⁵		Isolation distances meet BODA requirements. The BODA supplement, available at the MAEAP.org website, has been completed and reviewed.
---	---	--	---	--	---

☒ Proposed Text

Alternative Text

☐ Alternative Text approved (date):

Introduction

The Forest, Wetlands and Habitat♦A♦Syst (FWH♦A♦Syst) tool will assist you in developing and implementing a management plan that prevents contamination of groundwater and surface water resources and maintains your forest, wetlands **and/or** habitat. The FWH♦A♦Syst will assess your current management practices and identify alternative management practices that, when implemented, will ensure that you are following ~~Michigan's Sustainable Soil and Water Quality Practices on Forest Land~~ **Michigan Forestry Best Management Practices for Soil and Water Quality** and the American Forest Foundation Standards of Sustainability.

The Michigan Agriculture Environmental Assurance Program (MAEAP) is a comprehensive, proactive and voluntary environmental pollution prevention program. It takes a systems approach to assist producers in evaluating their farms for environmental risks. The systems include Forest, Wetlands and Habitat; Livestock; Farmstead; and Cropping. The on-site risk evaluation uses specific tools for each system: The FWH♦A♦Syst for forests, wetlands and habitat; the comprehensive nutrient management plan (CNMP) or Livestock♦A♦Syst for the livestock system; the Farm♦A♦Syst for the farmstead system and the Crop♦A♦Syst for the cropping system. Environmentally assured systems are eligible for various incentives and recognitions.

The Michigan Right to Farm Act authorized the Michigan Commission of Agriculture and Rural

Development to develop and adopt Generally Accepted Agricultural and Management Practices (GAAMPs) for farms and farm operations in Michigan. These voluntary practices are based on available technology and scientific research to promote sound environmental stewardship. The FWH♦A♦Syst is consistent with the identified practices.

The Michigan Right to Forest Act, Public Act 676 of 2002, was enacted to protect those who practice forestry from nuisance lawsuits if their practices conform to Generally Accepted Forest Management Practices (GAFMPs). These GAFMPs were developed by a 19-member Forest Management Advisory Committee whose charge was to assist the Michigan Department of Natural Resources (MDNR) in “balancing the environmental, social and economic issues surrounding forest management.” The GAFMPs are organized into the categories of visual change, noise, removal of vegetation and the use of chemicals. The current Right to Forest GAFMPs are posted on the MDNR Forest Management Advisory Committee website: www.michigan.gov/dnr/0,4570,7-153-65134_65140_00.html https://www.michigan.gov/documents/dnr/RightToForestActGAFMP_178260_7.pdf

Producers who complete the FWH♦A♦Syst will be able to determine what management and recordkeeping changes (if any) will be needed for their forest management systems to be environmentally assured through MAEAP. Once a ~~producer~~ **landowner** develops and implements a Forest Management Plan (FMP) to address the risks indicated by the FWH♦A♦Syst assessment, they can contact the Michigan Department of

Agriculture and Rural Development (MDARD) to request a MAEAP FWH System verification (517-284-5609). An MDARD ~~inspector~~ **verifier** will schedule a site visit to complete the verification process.

Public Act 451 of 1994, Part 82 “Conservation Practices” ensures the confidentiality of the producer information you provide to MDARD for system verification. Any information connected with the development, implementation or verification of a conservation plan or conservation practice is confidential.

The owner of a MAEAP-verified system will be eligible for incentives and can enjoy the peace of mind that comes from knowing that their forest management system is sustainable. Verified systems are positioned to achieve regulatory compliance with state and federal environmental laws.

Similar incentives are available for producers who have environmentally assured their Cropping, Livestock and Farmstead Systems. Contact your local Conservation District, Michigan State University Extension or Natural Resources Conservation Service representative for a list of currently available incentives and information on how to get started.

What is the Forest, Wetlands and Habitat Assessment System?

The Forest, Wetlands and Habitat♦A♦Syst (FWH♦A♦Syst) is a series of risk questions that help you assess how effectively your management protects the environment and incorporates Best Management Practices.

The risk questions are grouped into five sections:

FWH System Improvement Action Plan	
1	Sustainable Non-Agriculture Land Management
2	Forestry
3	Wetlands (Forest and Non-Forested) and Water Management
4	Non-Forested Upland Habitat
5	Other Environmental Risks in the FWH System

~~Each section corresponds to a standard of sustainability endorsed by the American Forest Foundation Tree Farm System. The risk questions in each section correspond to the principles for each standard.~~ The risk question answers indicate whether management practices have a low, medium or high risk of contributing to unsustainable or environmentally harmful management. Landowners are generally recommended to adopt the low-risk management practices. The questions that address management practices that are regulated by state or federal law indicate **illegal practices with black bold print**. Risk questions that address management practices covered by the Michigan Right to Forest Act indicate the risk level required for consistency with the identified practices with ***bold blue italic print***.

FWH♦A♦Syst

Finally, a blue box indicates the management level(s) required for MAEAP verification.

MAEAP ~~management~~ **verification** requirements are aligned with state and federal environmental regulations, the Michigan Right to Forest GAFMPs, the MDNR and Michigan Department of **Environment, Great Lakes, and Energy** ~~Environmental Quality~~ **Michigan Forestry Best Management Practices for Soil and Water Quality** ~~Sustainable Soil and Water Quality Practices on Forest Land~~ and the American Forest Foundation Tree Farm System Standards of Sustainability for Forestry Certification. The records of **or** evidence that correspond to the question are listed in the far-right column. Most, if not all, of this evidence (in the landowner's ~~forest, wetlands and habitat~~ **land** management plan) are listed in the far-right column. This evidence will provide the basis for awarding **verification** ~~environmental assurance through MAEAP~~. Your forest and natural resource representative, both public and private, can assist you to make the appropriate management changes to become environmentally assured through MAEAP.

How Does FWH♦A♦Syst Work?

Answer the risk questions by selecting the answer that best describes management practices used on your property. Indicate your risk level in the column to the right. **All answers are confidential.**

Skip any questions that do not apply to your forest management system. After completing each section of risk questions, list the practices that present a high risk in the FWH System Improvement Action Plan, which is printed inside the front cover of this bulletin. Also include any medium-risk practices that do not meet MAEAP verification requirements.

In the FWH System Improvement Action Plan, **List**:

- Management practice(s) that you plan to implement that will reduce the identified risk.
- Sources of technical and financial assistance.
- Target date for accomplishing the changes.

American Tree Farm System

The FWH♦A♦Syst builds upon the American Tree Farm System's Standards of Sustainability (American Forest Foundation, 2015) and adapts it for Michigan landowners. MAEAP encourages forestland owners to also enroll separately in the American Tree Farm System as it provides third-party certification and other services for forestland owners, at no additional cost. Interested landowners can learn more about the American Tree Farm System and their Standards of Sustainability at www.treefarmsystem.org.

A Few Final Words

The key to FWH♦A♦Syst is that you implement the actions you have identified to reduce the environmental risks. Some of the stewardship practices that will reduce risks may cost very little and take very little time to implement. Other practices may involve additional costs and may not be implemented for a few years. It is important, however, to have a plan to follow. Once you have developed a plan and have implemented changes to address the risks, you are ready for MAEAP verification for your FWH System.

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat* A* Syst

CURRENT DOCUMENT

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
SUSTAINABLE MANAGEMENT					
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 not was resolved.	Producer's verbal indication of complaint history.	

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

1.00) High risk was bolded. Legal citation 12 & 20 added.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
SUSTAINABLE MANAGEMENT					
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.		<i>There was a formal Right to Farm or Right to Forest complaint and the concern not was resolved. 12 & 20</i>	Producer's verbal indication of compliant history.	

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

1.04

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'W'.

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

CURRENT DOCUMENT

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

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

1.07) We removed this question. We will specifically identify applicable State, Federal and local laws throughout the tool with the addition of new questions or added clarification to existing questions.

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

1.08

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'M'.

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

CURRENT DOCUMENT

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
AIR, WATER AND SOIL PROTECTION					
1.09) Is the landowner compliant with practices prescribed in Sustainable Soil and Water Quality Practices (SSWQP) (a.k.a. Best Management Practices [BMPs])?	Yes.		No.		

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

1.09) SSWQP name change. Add Table 2: Additional Resources alphabetical reference 'C'.

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

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

CURRENT DOCUMENT

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

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

1.10) SSWQP name change. Add Table 2: Additional Resources alphabetical reference 'B'.

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

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

CURRENT DOCUMENT

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

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

1.11) SSWQP name change. Add Table 2: Additional Resources alphabetical reference B, G & H.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
AIR, WATER AND SOIL PROTECTION (CONTINUED)					
1.11) Have designated trout streams, natural rivers, wild and scenic rivers been discussed and mapped in the Land Management Plan (LMP)?	If present, designated trout streams, natural rivers, and wild and scenic rivers have been discussed and mapped in the LMP. Riparian Management Zones (RMZs) are discussed and/or mapped in the LMP. RMZ's have been implemented.	Landowner is aware that designated trout streams, natural rivers, wild and scenic rivers exist on the property, but no management plan has been developed or implemented.	Designated trout streams, natural rivers, and wild and scenic rivers exist on the property, but landowner was not aware of the designation. 7, 13 & 14	Documentation and map in LMP. Table 2: B, G & H	

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

NEW QUESTION: Should occur between existing 1.11 & 1.12.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
AIR, WATER AND SOIL PROTECTION (CONTINUED)					
Have soil erosion and sedimentation control permits been obtained, if required?	Required permits have been obtained. No erosion or sedimentation is apparent.	Required permits have been obtained. Minimal erosion or sedimentation is apparent.	Required permits have not been obtained, or there is evidence of significant erosion or sedimentation. 15		

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

CURRENT DOCUMENT

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
AIR, WATER AND SOIL PROTECTION (CONTINUED)					
1.12) Are roads and trails established and maintained to avoid soil erosion?	Roads show minimal gullyng or resulting sedimentation. Construction and maintenance has been done in accordance with Sustainable Soil and Water Quality Practices (SSWQP).	Some construction and maintenance has been done in accordance with some SSWQP.	Soil erosion, gullyng or sedimentation is occurring and road needs to be relocated.		

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

1.12) SSWQP name change. Add Table 2: Additional Resources alphabetical reference B & C. Small language change “or other openings”.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
AIR, WATER AND SOIL PROTECTION (CONTINUED)					
1.12) Are roads, trails, or other openings established and maintained to avoid soil erosion?	Roads show minimal gullyng or resulting sedimentation. Construction and maintenance has been done in accordance with Michigan Forestry Best Management Practices for Soil and Water Quality.	Some construction and maintenance has been done in accordance with some Michigan Forestry Best Management Practices for Soil and Water Quality.	Soil erosion, gullyng or sedimentation is occurring and road needs to be relocated.	Table 2: B & C	

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

CURRENT DOCUMENT

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
AIR, WATER AND SOIL PROTECTION (CONTINUED)					
1.13) If used on the property, how is prescribed burning performed?	Prescribed fire done according to the approved Land Management Plan (LMP) and with pre-fire planning, which conforms to the Sustainable Soil and Water Quality Practices (SSWQP) and a burning permit obtained.	Prescribed fire is done with pre-fire planning, but does not conform to the SSWQP.	Prescribed fire is done without an approved LMP or pre-fire planning and does not conform to the SSWQP.		

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

1.13) SSWQP name change. Add Table 2: Additional Resources alphabetical reference B & C. Small language change “or other openings”.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
AIR, WATER AND SOIL PROTECTION (CONTINUED)					
1.13) If used on the property, how is prescribed burning performed?	Prescribed burning is done according to the approved Land Management Plan (LMP) and with pre-fire planning, which conforms to the Michigan Forestry Best Management Practices for Soil and Water Quality and a burning permit obtained if required.	Prescribed burning is done with pre-fire planning, but does not conform to the Michigan Forestry Best Management Practices for Soil and Water Quality and no burning permit was obtained if required.	Prescribed burning is done without an approved LMP or pre-fire planning and does not conform to the Michigan Forestry Best Management Practices for Soil and Water Quality and no burning permit was obtained 16.	Table 2: C & I	

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

CURRENT DOCUMENT

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

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

1.14) SSWQP name change. High risk was bolded. Added legal citation 5. Add Table 2: Additional Resources alphabetical reference K & J. Small language change “in accordance with State Law”. Dropped the word applicable.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
AIR, WATER AND SOIL PROTECTION (CONTINUED)					
1.14) If used on the property, how are pesticides applied?	Pesticides are applied in accordance with Michigan Forestry Best Management Practices for Soil and Water Quality and with Environmental Protection Agency (EPA)-approved labels and by persons appropriately trained, certified, licensed and supervised, etc. in accordance with State Law. Accurate records are maintained of all applications of pesticides for at least three years.	Pesticides are EPA-approved, but not used in accordance to Michigan Forestry Best Management Practices for Soil and Water Quality or State Law.	Pesticides are not applied in accordance with EPA or State regulations and Michigan Forestry Best Management Practices for Soil and Water Quality. 5	Pesticide records for the past three years on file (or plans for records). -Date of application -Time of application -Pesticide brand/product name -Pesticide formulation -EPA registration number -Active ingredient(s) -Restricted-entry interval (REI) -Rate per acre or unit -Crop, commodity, stored product, or site that received the application -Total amount of pesticide applied -Size of area treated -Applicator's name -Applicator's certification number -Location of the application -Method of application -Target pest -Carrier volume per acre Table 2: K & J	

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

1.18

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'L'.

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

1.19

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'D & N'.

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

NEW QUESTION: Should occur between 1.19 & 1.20

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
HABITAT RESTORATION AND DEVELOPMENT					
Is the land managed with consideration for migratory birds?	The land is managed to maintain and enhance migratory bird populations and habitat.	Land is managed without harm to migratory bird populations and habitat.	Land is managed in a manner that is detrimental to migratory bird populations and habitat. 4		

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

1.20

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'D & N'.

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

CURRENT DOCUMENT

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

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

1.21) SSWQP name change. High risk was bolded. Added legal citation 5. Add Table 2: Additional Resources alphabetical reference O & P. Small language change “in accordance with State Law”.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
HABITAT RESTORATION AND DEVELOPMENT					
1.21) How are nuisance non-native and invasive terrestrial and aquatic species on forestlands, wetlands, and other non-agricultural areas addressed on the property?	Nuisance non-native and invasive terrestrial and aquatic species are identified, mapped, or described for each cover type or management unit on the property. All areas are actively being treated as described in the Land Management Plan (LMP). Invasive terrestrial and aquatic species occurrence and location is being reported to the Midwest Invasive Species Information Network (MISIN). Nuisance non-native and invasive terrestrial and aquatic species are not being moved in violation of State law.	Nuisance non-native and invasive terrestrial and aquatic species are identified, mapped, or described for each cover type or management unit. Treatment activities outlined in the LMP are being appropriately implemented. Nuisance non-native and invasive terrestrial and aquatic species are not being moved in violation of State law.	No effort has been made to identify and map invasive species and no treatment action is being taken. Nuisance non-native and invasive terrestrial and aquatic species are being moved in violation of State law. 11 & 17	Table 2: O & P	

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat* A* Syst

1.24

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'B'.

1.25

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'B, Q, R, S, T, U & V'.

1.26

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'W'.

2.01

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'X, Y & Z'.

2.02

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'AA, BB & T'.

2.04

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'DD'.

2.05

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'CC'.

2.06

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'CC'.

2.10

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'Y & EE'.

2.11

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'C'.

2.12

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'CC'.

2.13

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'CC'.

2.14

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'FF'.

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

NEW QUESTION: Should occur before existing question 3.01

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
WETLANDS (FORESTED AND NON-FORESTED) AND WATER MANAGEMENT					
Are any recent or proposed land management activities that, to the best of your knowledge require a permit, taking place in wetlands, 100-year floodplains, Great Lakes shorelines, or inland lakes and streams?	No activities that, to the best of your knowledge, require a permit are taking place in these areas.	A permit was obtained and or proper agencies were contacted.	Activities that require a permit are taking place in these areas, but no permit was obtained. 18		

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

3.01

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'C, E, F, G, H, Q, R, T & GG'.

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

CURRENT DOCUMENT

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

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

3.02) Added language regarding harmful discharges into water. Legal citations are bolded. Legal citation 10 is referenced. Add Table 2: Additional Resources alphabetical reference 'C, Q, T & GG.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
WETLANDS (FORESTED AND NON-FORESTED) AND WATER MANAGEMENT					
3.02) Are all wetlands, streams, farm ditches and other water bodies on the property protected from polluted runoff and sediment with conservation practices?	Where applicable, filter strips, riparian buffer strips, grassed waterways and other conservation practices are maintained. No direct discharges of harmful substances into water have been observed. 10	Where applicable, conservation practices are maintained on some fields.	No conservation practices are maintained. Direct discharges of harmful substances into water have been observed. 10	Table 2: C, Q, T & GG	

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

3.03

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'F'.

3.04

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'B, C, Q, T, & GG'.

3.05

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'Q, R, U, V, & GG.

3.06

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference 'GG, HH, II, S, JJ, KK & LL'.

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

CURRENT DOCUMENT

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
NON-FORESTED UPLAND HABITAT					
4.01) Are these 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 other (non-forested/non-wetland) habitats on the property.	Restoration potential is assessed for some other habitats on the property.	No assessment of other habitat has been started.		

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

4.01) Added Non-Forested Upland Habitats into the question to replace “these habitats” to add clarity to the question. Add Table 2: Additional Resources alphabetical reference ‘C, Q, T & GG.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
NON-FORESTED UPLAND HABITAT					
4.01) 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 & W	

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

NEW QUESTION: Should occur before existing question 4.01 & 4.02

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
NON-FORESTED UPLAND HABITAT					
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?	None of the Non-Forested Upland Habitats are part of a Critical Dune Area or habitats are part of Critical Dune Area but no activities requiring a permit have or will take place.	Non-Forested Upland Habitats are part of a Critical Dune Area, activities requiring a permit have taken place, and a permit was obtained.	Non-Forested Upland Habitats are part of a Critical Dune Area, activities requiring a permit have taken place, and a permit was not obtained. 19		

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

CURRENT DOCUMENT

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
NON-FORESTED UPLAND HABITAT					
4.02) Are these habitats being restored by or according to a plan from agency personnel or others trained in habitat restoration or improvement?	Restoration is being implemented on all other (non-forested/non-wetland) habitats on the property.	Restoration is being implemented on some other habitats on the property.	No restoration has been started on other habitats on the property.		

PROPOSED CHANGE PROPOSED CHANGE & NOTES:

4.02) Added Non-Forested Upland Habitats into the question to replace ‘these habitats’ to add clarity to the question. Add Table 2: Additional Resources alphabetical reference ‘Q, R, T & W’.

RISK QUESTION	LOW RISK – 3 (RECOMMENDED)	MEDIUM RISK – 2 (POTENTIAL HAZARD)	HIGH RISK – 1 (SIGNIFICANT HAZARD)	RECORDS OR EVIDENCE FOR MAEAP VERIFICATION	YOUR RISK
NON-FORESTED UPLAND HABITAT					
4.02) Are Non-Forested Upland Habitats being restored by or according to a plan from agency personnel or others trained in habitat restoration or improvement?	Restoration is being implemented on all non-forested upland habitats on the property.	Restoration is being implemented on some habitats on the property.	No restoration has been started on the property.	Table 2: Q, R, T & W	

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat*A*Syst

4.03

PROPOSED CHANGE & NOTES:

Add Table 2: Additional Resources alphabetical reference ‘Q, U & V’.

Forest, Wetlands, and Habitat Systems Subcommittee
Summary of 2019 Proposed Amendments to Forest, Wetlands, and Habitat* A* Syst

CURRENT DOCUMENT

Table 1. Legal citations for environmental risks in Forest, Wetlands and Habitat♦A♦Syst		
Footnote	Law	Description
1	National Historic Preservation Act, NHPA of 1996	
2	Endangered Species Act, Public Act 93-205 of 1973	
Reference Fact Sheet		
	U. S. Fish and Wildlife Service	http://www.fws.gov/endangered/
	MI DEQ Wetlands Map Viewer	https://www.mcgi.state.mi.us/wetlands/mcqiMap.html
Definition Section		
Land Management Plan: A customized, written document that reviews, analyzes and describes all non-agriculture land including but not limited to: forests, grasslands, shrublands, and all types of wetlands and water bodies including but not limited to: streams, lakes, ponds, bogs, fens, swamps, marshes and vernal pools.		
Contact the U.S. Fish and Wildlife Service at (517) 351-2241		
Contact the MI Dept. of Environmental Quality Water Resources Division at (517) 284-5567		

PROPOSED CHANGE & NOTES:

Added more references to laws. Completely refreshed Table 2: Additional Resources .

Table 1. Legal citations for environmental risks in Forest, Wetlands and Habitat♦A♦Syst		
Footnote	Law	Description, or Agency
1	National Historic Preservation Act, NHPA of 1996	State Historic Preservation Office
2	Federal Endangered Species Act, Public Act 93-205 of 1973	U.S. Fish and Wildlife Service
3	Michigan Threatened and Endangered Species	Natural Resources and Environmental Protection Act Part 365

4	Migratory Bird Treaty Act (1918)	U.S. Fish and Wildlife Service
5	Federal Insecticide, Fungicide, and Rodenticide Act (1947)	United States EPA. Michigan Department of Agriculture and Rural Development.
6	Wilderness Act (1964)	National Park Service. National Wilderness Preservation System.
7	Wild and Scenic Rivers Act (1968)	Michigan DNR. U.S. Fish and Wildlife Service.
8	National Environmental Policy Act (1969)	United States EPA
9	Clean Air Act (1970)	United States EPA
10	Clean Water Act (1972)	United States EPA. Natural Resources and Environmental Protection Act Part 31
11	Plant Protection Act (2000)	U.S Department of Agriculture. Animal and Plant Health Inspection Service (APHIS).
12	Right To Forest Act	Michigan Department of Natural Resources
13	Michigan Natural Rivers	Natural Resources and Environmental Protection Act Part 305
14	Michigan Designated Trout Streams	Natural Resources and Environmental Protection Act Part 487
15	Soil Erosion and Sedimentation Control	Natural Resources and Environmental Protection Act Part 91
16	Prevention and Suppression of Forest Fires	Michigan Department of Natural Resources. Natural Resources and Environmental Protection Act Part 515
17	State regulation on moving non-native plants and pests	Natural Resources and Environmental Protection Act Part 324
18	Michigan Wetlands Protection, Michigan Floodplain Regulatory Authority, Michigan Inland Lakes and Streams & Michigan Shorelands Protection and Management.	Natural Resources and Environmental Protection Act Part 303, 31, 301, 323 & 325
19	Sand Dunes Protection Law	Natural Resources and Environmental Protection Act A Part 353
20	Right To Farm	MDARD

Table 2: Additional Resources

Footnote	Reference	
A	U. S. Fish and Wildlife Service	
B	MI DEQ Wetlands Map Viewer & US Fish & Wildlife Service National Wetlands Inventory	Resource for mapping and identifying wetlands.
C	Michigan Forestry Best Management Practices for Soil and Water Quality	BMP Manuel
D	Michigan Department of Natural Resources (DNR) Service Forester	Michigan DNR Forest Stewardship Program

E	Wild and Scenic Rivers	Michigan DNR. U.S. Fish and Wildlife Service.
F	Designated Trout Streams	Michigan DNR. U.S. Fish and Wildlife Service.
G	Inland Trout and Salmon Regulation Maps	Michigan DNR. U.S. Fish and Wildlife Service.
H	Michigan DNR Natural Rivers Database	Michigan DNR.
I	Michigan DNR Burn Permits	Michigan DNR.
J	Michigan Department of Agriculture and Rural Development (MDARD) Pesticide Certification and Licensing Requirements	MDARD
K	Michigan Department of Agriculture and Rural Development (MDARD) PESTICIDE LAWS AND REGULATIONS	MDARD
L	MDARD Integrated Pest Management (IPM)	MDARD
M	State Archaeologist, State Historic Preservation Office of Michigan	State Historic Preservation Office of Michigan
N	Michigan Natural Features Inventory	Michigan State University Extension
O	Midwest Invasive Species Network	Michigan State University. Detection, identification and reporting of invasive species.
P	Cooperative Invasive Species Management Area	A partnership of federal, state, and local government agencies, tribes, individuals, and various interested groups that manage invasive species (or weeds) in a defined area.
Q	U.S. Fish and Wildlife Service Partners for Fish and Wildlife	Technical expertise and financial assistance to help private landowners with habitat restoration.
R	Michigan DNR Wildlife Habitat Grant Program	The primary goal of this program is to enhance and improve the quality and quantity of game species habitat in support of specific goals from the Wildlife Division's strategic plan.
S	Michigan DNR Forests For Fish	Michigan DNR.
T	Natural Resources Conservation Service (NRCS)	USDA NRCS
U	MDARD Conservation Easements	MDARD

V	The Nature Conservancy (TNC) Conservation Easements	The Nature Conservancy
W	MDARD List of Qualified Foresters by County or USDA NRCS Technical Service Provider Registry	MDARD & USDA NRCS
X	American Tree Farm System	
Y	Sustainable Forestry Initiative	
Z	Forest Stewardship Council	
AA	Qualified Forest Program	MDARD
BB	Commercial Forest Program	Michigan DNR
CC	Generally Accepted Forest Management Practices (GAFMPs)	Michigan DNR
DD	Michigan DNR FOREST REGENERATION SURVEY MANUAL	Michigan DNR
EE	Qualified Logging Professionals & Michigan Association of Timbermen	Sustainable Forestry Education. Michigan Association of Timbermen
FF	Michigan DNR Biomass Harvesting Guidance	Michigan DNR
GG	Michigan DEQ Water Resources Division	Michigan DEQ
HH	Michigan DNR Aquatic Habitat Management	Michigan DNR
II	Michigan DNR Aquatic Habitat Grant Program	Michigan DNR
JJ	Michigan Clean Water Corps	
KK	Michigan Trout Unlimited	
LL	Michigan Lake Stewardship Associations	

Definition Section

Land Management Plan: A customized, written document that reviews, analyzes and describes all non-agriculture land including but not limited to: forests, grasslands, shrublands, and all types of wetlands and water bodies including but not limited to: streams, lakes, ponds, bogs, fens, swamps, marshes and vernal pools.