

Bovine Tuberculosis Update











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Outline

- USDA concerns
- TB 2017
- Moving forward
- Summary



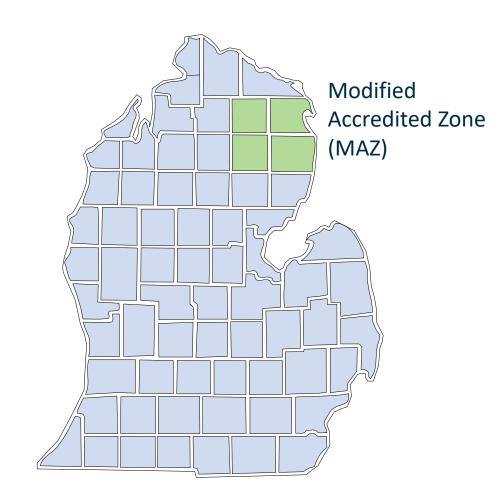
USDA Concerns



MOU Violation

 The current MOU with USDA permits Michigan to have up to three bovine TB infected herds in the MAZ in a 12 month period

 In 2016, Michigan had five infected herds



Five Level of Status in National TB Program

- TB Free
- Modified Accredited Advanced (MAA)
- Modified Accredited (MA)
- Accredited Preparatory (AP)
- Non-accredited





USDA Response



December 19-21, 2016 USDA visit to Michigan January 2017
Michigan sent
response plan
to USDA

USDA met with MDARD and MDNR

August 24, 2017
USDA Responds
with two options

MDARD and DNR
Directors respond
with third option

October 16, 2017

USDA has agreed to meet with MDARD and MDNR to discuss situation

USDA's Two Proposals

Option One:

Down grade status of four county Modified Accredited to Accredited Preparatory



Third Option

- No reduction of program status for any portion of Michigan
- Upgrade biosecurity program in four county MAZ, and Presque Isle
 - Twice year inspection
 - Enhanced Biosecurity within DMU 452
- Targeted deer removal
- Increase grant programs
- Additional special hunts

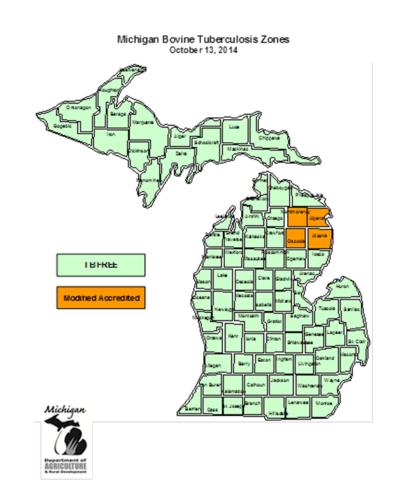


TB in 2017



Modified Accredited Zone

- Modified Accredited Zone: Alcona, Alpena, Montmorency and Oscoda counties
- 344 commercial herds +
 90 freezer beef herds



Bovine TB in 2017

• 1 infected herd in MAZ (Alcona County)

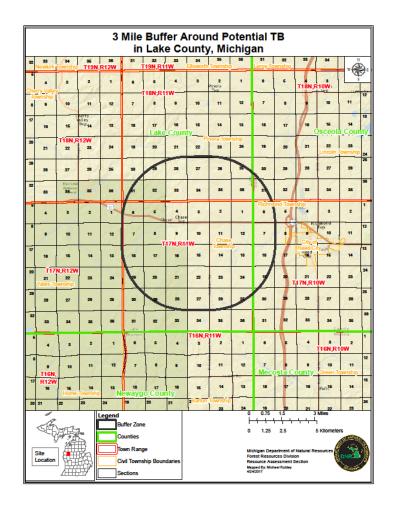
 1 infected herd in Newaygo County with trace back to MAZ

 1 infected herd in Lake County with trace back to Indiana

Circle Testing In 2017 Relating to Affected Cattle

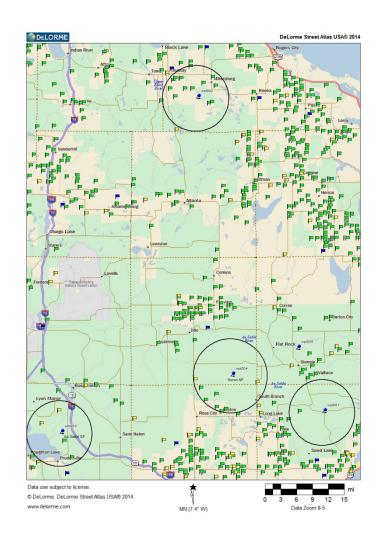
- 3 mile circles in:
 - Newaygo County
 - 28 herds/4,779 head
 - oLake county
 - 39 herds/965 head

No disease discovered



Circle Tests in 2017 Relating to White-Tailed Deer

- 6.2 mile circles in:
 - o Presque Isle County
 - 15 herds/ 392 head
 - o losco County
 - 1 herds/33 head
 - o Ogemaw
 - 5 herds/336 head
 - o Roscommon County
 - 2 herds/84 head
- No disease discovered



2017 BOVINE TUBERCULOSIS SURVEILLANCE IN MICHIGAN'S FREE-RANGING WHITE-TAILED DEER

Legend



Deer Management Unit 452



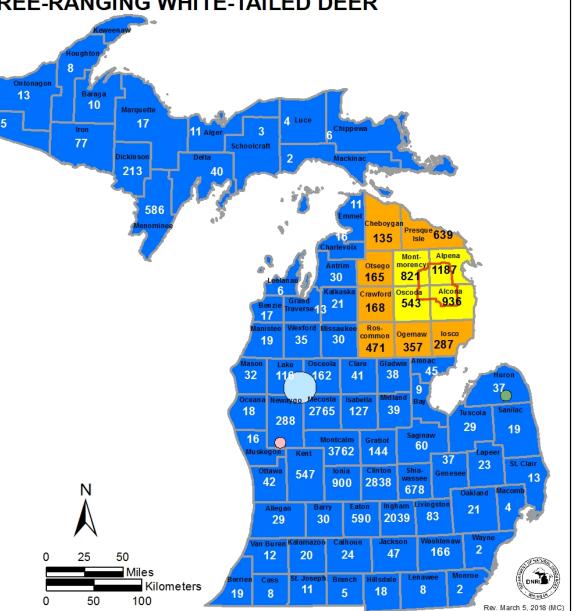
I. ACTIVE SURVEILLANCE

(Hunters voluntarily submit heads for examination)

	ZONE	Sample Goal	Samples Tested
		2,800	3,485
		1,500	2,222
		0	17,086
3-mile radius circles		300	199
		30	37
		30	18
TOTAL		4,660	23,047

II. PASSIVE SURVEILLANCE

(Hunters may submit deer carcasses with TB chest lesions from anywhere in the state. Hunters are educated through information and color pictures of TB lesions in the Hunting and Trapping Guide and TB brochure.)

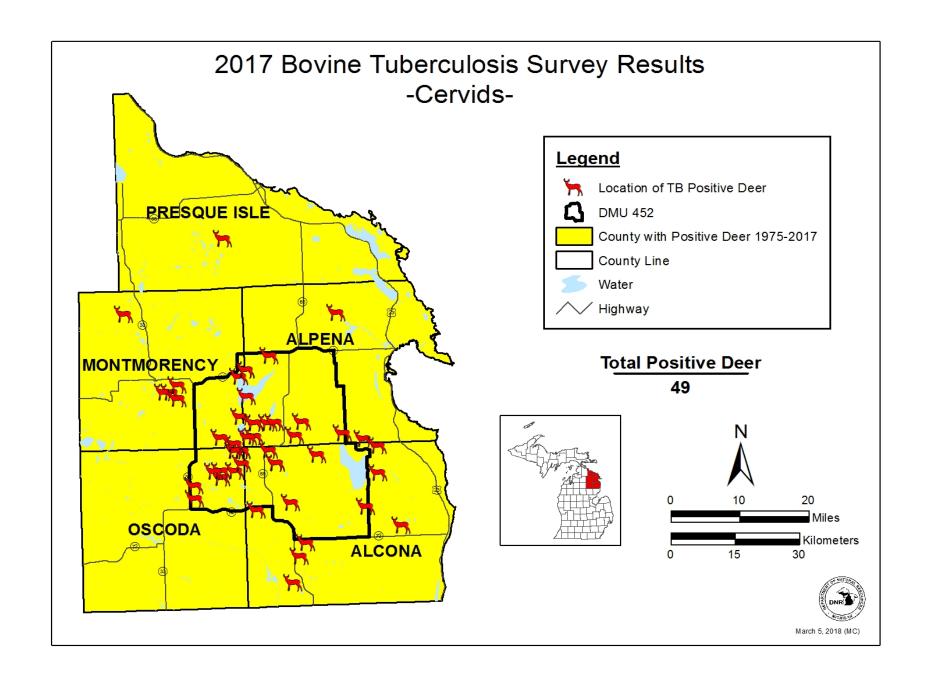




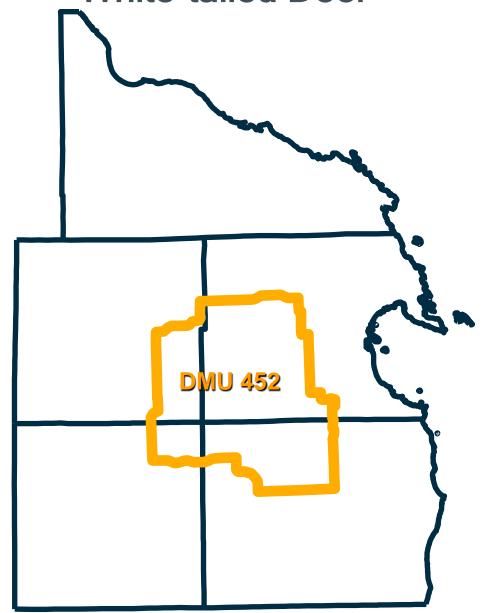
Michigan White-tailed Deer TB Surveillance



Year	Positive	Total Deer Tested
1975 & 1994	2	2
1995	18	403
1996	56	4,966
1997	73	3,720
1998	78	9,058
1999	58	19,497
2000	53	25,855
2001	61	24,278
2002	51	18,101
2003	32	17,306
2004	29	15,134
2005	16	7,365
2006	41	7,918
2007	27	8,316
2008	37	16,312
2009	31	5,723
2010	24	4,974
2011	17	6,026
2012	23	4,725
2013	21	5,903
2014	12	4,266
2015	34	8,461
2016	29	12,029
2017	49	23,048
2018*	3	1,562
Grand Total	872	254,912



Apparent TB Prevalence in White-tailed Deer



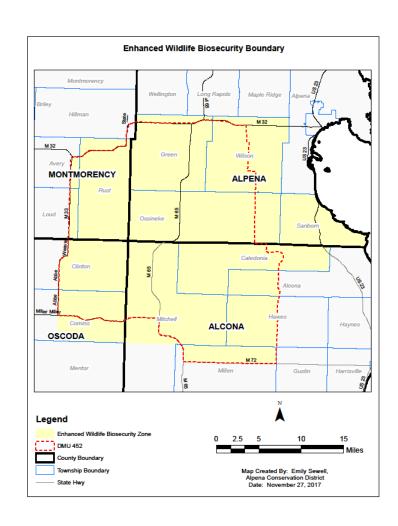
Year	DMU452	5-Co.Outside	
Toai	DIVIO+32	DMU452	
1995	4.9%	(no testing)	
1996	2.5%	0.2%	
1997	4.7%	0.4%	
1998	2.7%	0.3%	
1999	2.4%	0.2%	
2000	2.5%	0.4%	
2001	2.3%*	0.5%	
2002	2.6%	0.5%	
2003	1.7%	0.2%	
2004	1.7%	0.2%	
2005	1.2%	0.1%	
2006	2.3%	0.3%	
2007	1.4%	0.2%	
2008	1.9%	0.3%	
2009	1.9%	0.4%	
2010	1.8%	0.2%	
2011	1.2%	0.1%	
2012	1.7%	0.3%	
2013	1.7%	0.2%	
2014	1.0% 0.2%		
2015	2.7%	0.3%	
2016	2.0%	0.3%	
2017	2.3%	0.6%	

Moving Forward



New Zoning Order

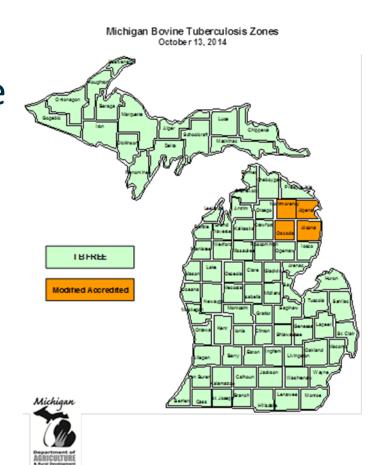
- New Zoning Order signed March 21, 2018
- Recognizes Enhanced
 Wildlife Biosecurity Area
 - Signed agreement withWildlife Services by July15, 2018
 - Mitigate all high risk areas by Dec. 31, 2019



New MOU in 2018

 Michigan exceeded the allowed 3 TB infected cattle herds in MAZ in 2016

 In negotiations with USDA for a new MOU

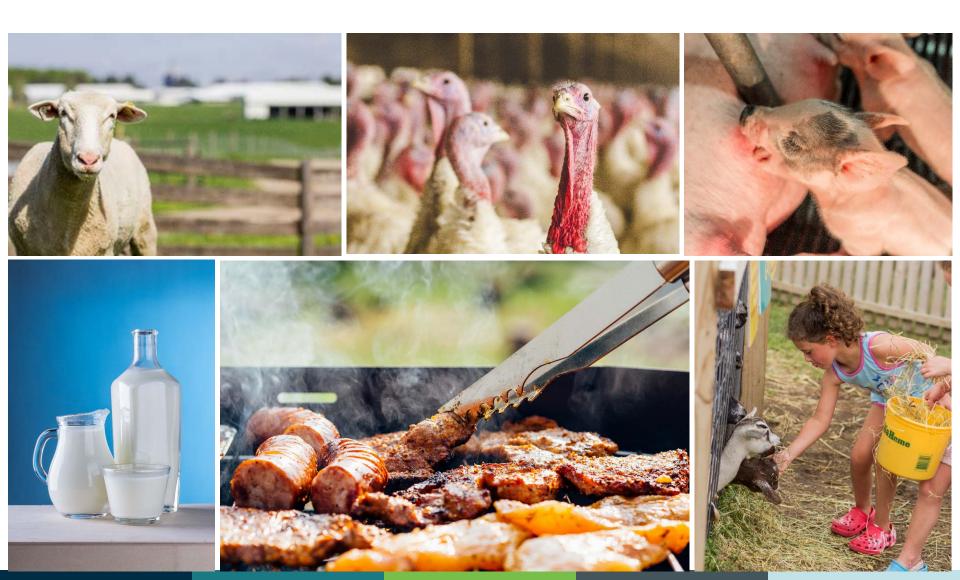




Summary



Why We Do What We Do



Summary

 Protect, Regulate, and Promote Animal Health

- Michigan violated MOU in 2016 and 2017
- Deer prevalence is increasing
- Need to take a new approach
- In discussion with USDA

Questions?

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Stay connected with MDARD.



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