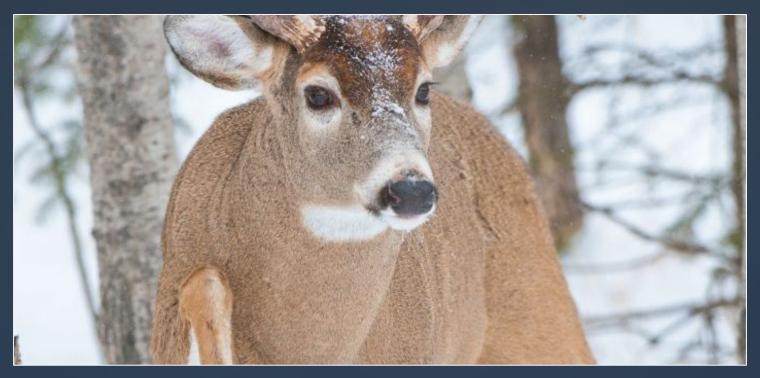
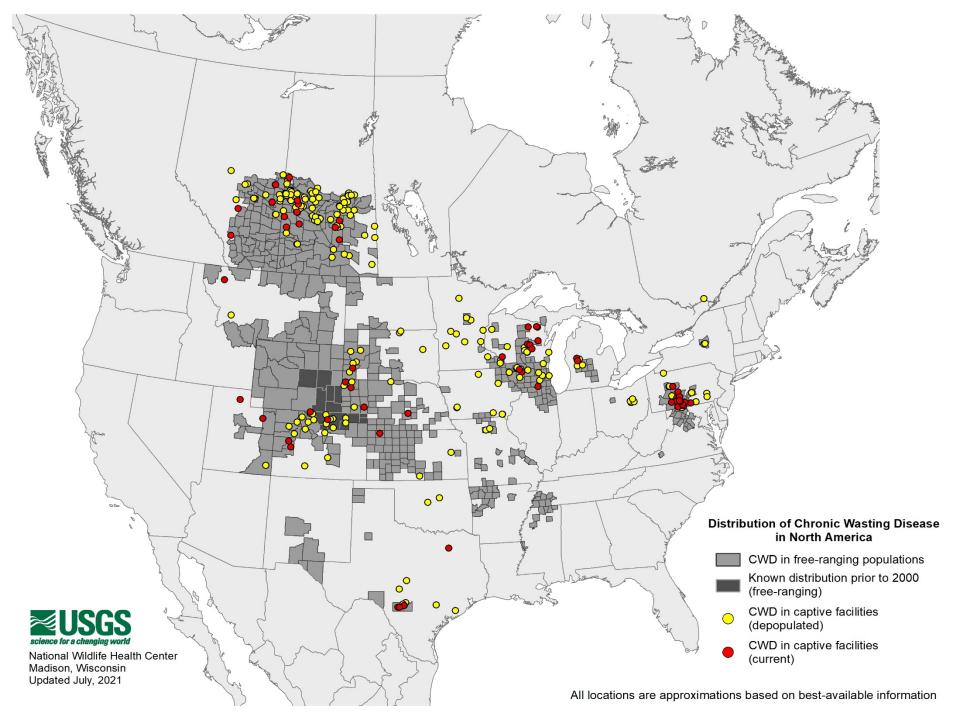
Department of Natural Resources CWD Update 2020-2021



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Michigan Department of Natural Resources Wildlife Disease Laboratory



CWD Surveillance in Michigan

- ➤ The DNR has historically undertaken massive testing efforts for CWD in order to:
 - 1. Better understand the distribution and prevalence of disease
 - 2. To provide "hunter service" testing across the state
- This is neither sustainable *nor effective* for the long term...
 not if the goal of surveillance is early detection of disease.





2018 Chronic Wasting Disease (CWD) Surveillance in Free-ranging White-tailed Deer, Michigan



Testina

___ County Lines

I. ACTIVE SURVEILLANCE

(These samples were also tested for bovine tuberculosis)

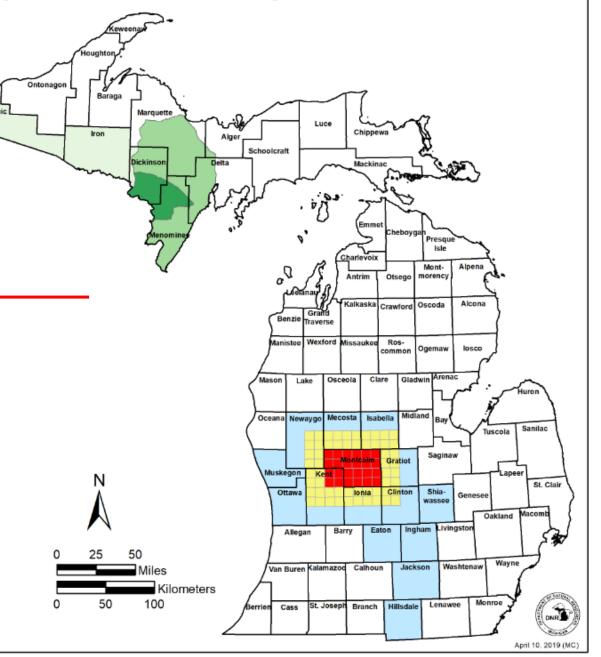
Sample

Samples

Zone	Goals	Tested
	300	4,435
	8,475	5,598
	6,260	14,445
	155	306
	300	830
	600	915
	0	4,227
Total	16,090	30,756

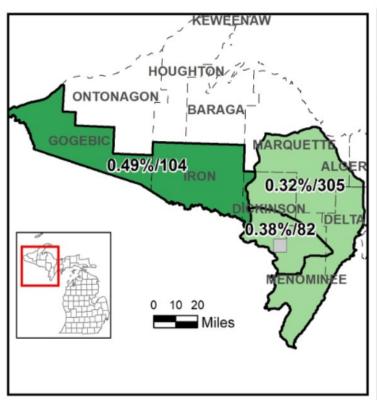
II. TARGETED SURVEILLANCE Cervids with CWD-like symptoms

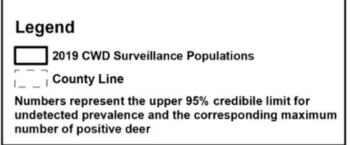
229 of the 30,756 deer tested in 2018 were tested as part of targeted surveillance



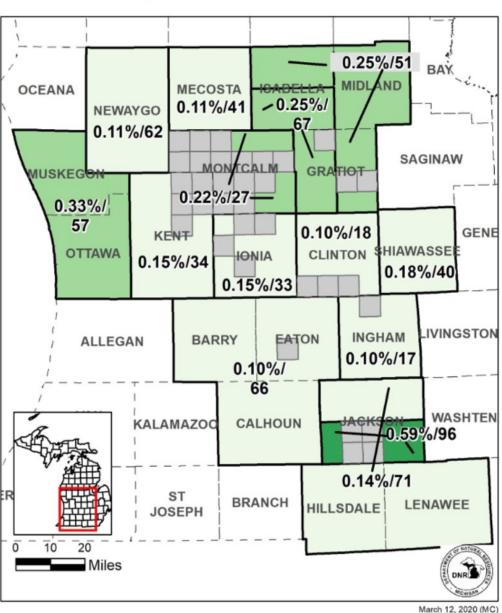
2019 Michigan Chronic Wasting Disease (CWD) Surveillance for Free-ranging White-tailed Deer by Sampling Unit Houghton Ontonagon Baraga Marquett Luce 783/609 Alger Schoolcraft 241/230 Legend 727/2654 I. ACTIVE SURVEILLANCE Emmet Cheboygah ZONE DETECTION SAMPLE NUMBER LEVEL* SIZE **TESTED** Charlevoix Alpena Mont-Antrim Otsego morency 0.1% 7,922 2,834 Leelanaur Kalkaska Crawford Oscoda Alcona 0.5% 3,016 5,561 Grand Benzie Traverse 1.0% 1,521 9,094 Manistee Wexford Missaukee losco N/A 2,582 Gladwin Total 12,459 20,071 Mason Lake Osceola Clare Numbers on map represent Mecosta 480/ the number tested/county goal 877/ 762/ Sanilac 1972/ Tuscola 332 122 1698 183 Saginaw Montcalm 219/237 *Detection Level is the prevalence 1961/ 1023/ Muskegon 264 at which CWD can detected with 95% 1277 St. Clair Ottawa Ionia Clinton confidence through the corresponding Genesee 871/ 908/ 274/ 958/ sample size. 101 Oakland 170 Livingston Eaton Ingham Allegan 502/188 528/182 II. TARGETED SURVEILLANCE 824/92 Cervids with CWD-like symptoms Washtenaw Van Buren Kalamazod Jackson 1,7,04/_ 2674 All deer tested for CWD are also tested for bovine tuberculosis. Monroe Lenawee Berrien Cass St. Joseph Branch Hillsdale 682/314 100

Estimated Potential Undetected Chronic Wasting Disease (CWD) Prevalence/Positive Deer* in the CWD Surveillance Areas, Michigan Based on 2008-2019 Testing





^{*}To the extent that CWD is clustered on the landscape and/or the deer tested are not representaive of the underlying population, prevalence/number of positive deer could be higher.



CWD Surveillance History

2012: 35 tested

2013: 46 tested

2014: 30 tested

2015: CWD DETECTED

2016: >7,000 tested

2017: >17,000 tested

2018: >30,000 tested

2019: >20,000 tested

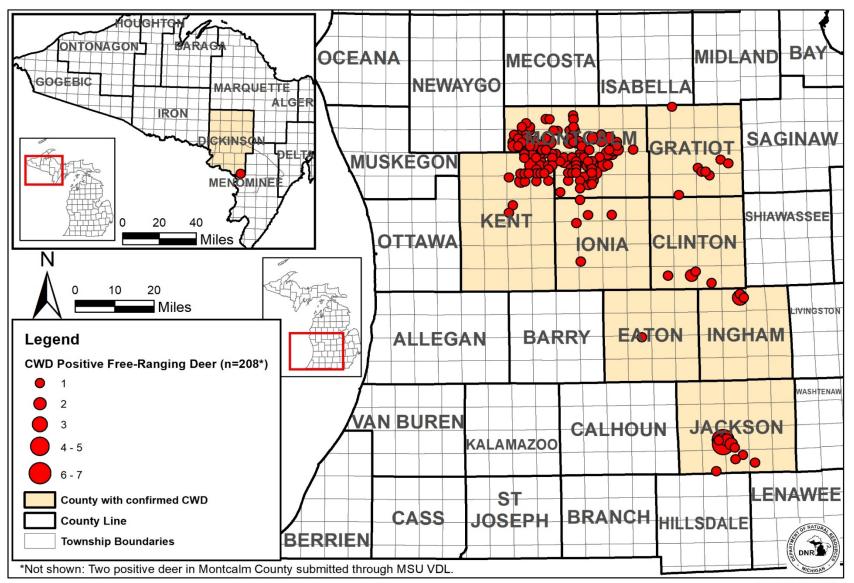
2020: >2,000 tested

2021: 8-10,000 is goal



Free-ranging White-tailed Deer Positive for Chronic Wasting Disease (CWD) Michigan

as of March 19, 2021

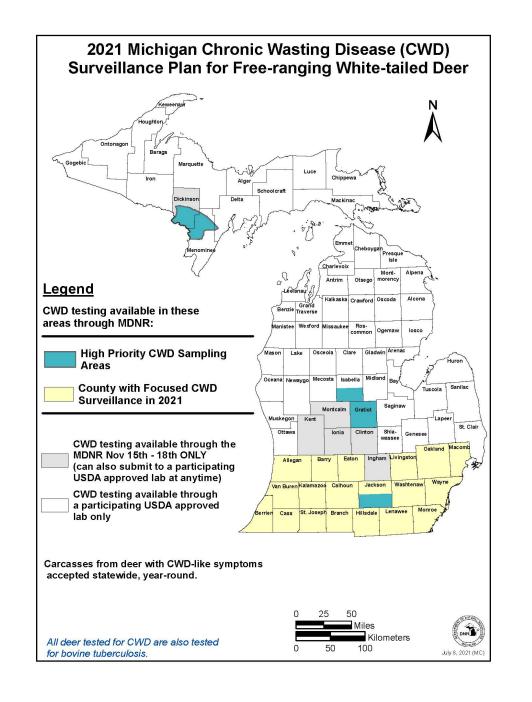




I. ACTIVE SURVEILLANCE

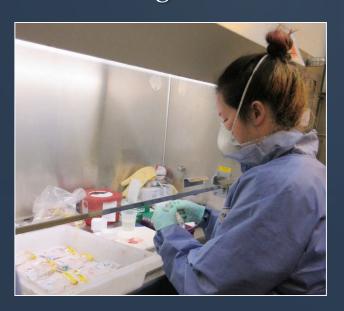
- Focus on Southern Lower Peninsula in year one
- Goals statistically modelled using best available data
- More intensive sampling in priority areas
- Will address gaps in historical surveillance-early detection
- Hunter support will continue through expanded partnerships with landowners, processors and taxidermists

II. Cervids with CWD-like symptoms accepted statewide, year round



When it comes to CWD in 2021 and beyond, the goals of our surveillance are to:

- 1. Assess if disease is present in new areas (i.e. catch it early), and
- 2. Continue to support limited testing in core areas and continue to develop opportunities for hunter submissions to non-DNR labs
- 3. Determine appropriate frequency and effort needed for long-term monitoring



#1: Systematic, risk-based rotating surveillance

#2: Expanding partnerships with MSU VDL, MSUE, stakeholder groups

#3: Combination of data from #2 and modelling efforts



