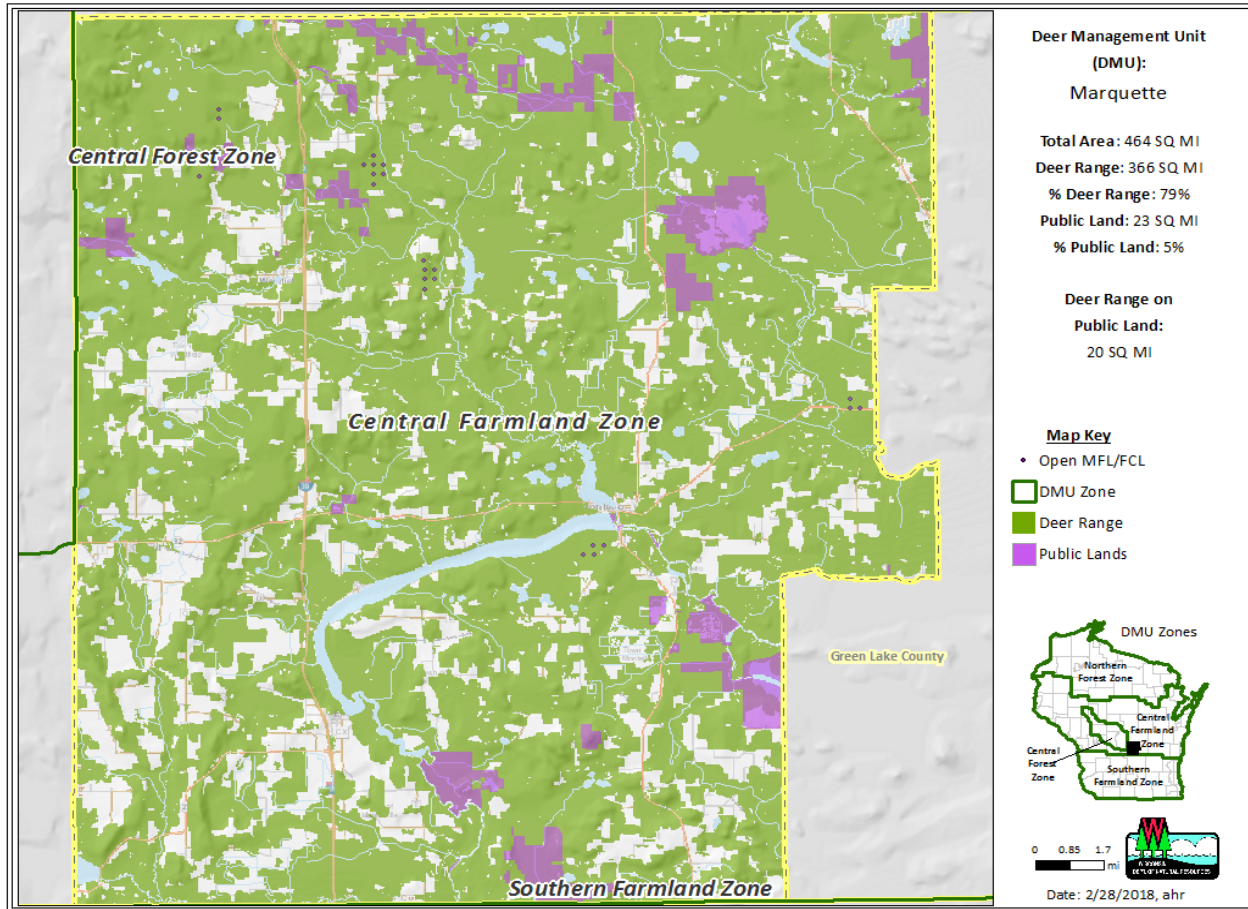


Marquette County Deer Metrics Report

Spring of 2022

Management Unit:



Manager's Note:

The Marquette County Deer Management Unit is located in the Central Farmland Zone. Approximately 79 percent of the unit is considered suitable deer range. The county is dominated by large wetland areas, of which many have been drained for “muck farming” and are highly productive for farming. The majority of upland habitat is dry sandy soils and has recently seen an increase in the use of center-pivot irrigation systems in agricultural fields. Although it is predominately of private landownership, there are several public areas open to hunting and fishing. These include French’s Creek Wildlife Area, Germania Marsh Wildlife Area, Grand River Marsh Wildlife Area, White River Marsh Wildlife Area, Mecan River Fisheries Area, Caves Creek Fisheries Area, Lawrence Creek Fisheries Area, Lawton Creek Fisheries Area and the Fox River Wildlife Refuge. The unit has traditionally had high buck harvests per square mile of deer range, although a decrease in the number of one year old bucks harvested each year and a corresponding increase in the number of older age and larger bucks in the harvest has occurred. The deer herd has the potential to be very productive but is very unevenly distributed throughout the unit. Winter weather typically has little to no impact on survival and recruitment, which has led to high levels of agricultural deer damage and liberal hunting season frameworks. High hunter densities on opening day of the 9-day gun deer season average about 25-30 hunters per square mile of deer range. The current deer herd management objective is to decrease the population.

Deer Management Unit Harvest History

Fawn to doe ratios collected in late summer give information on fawn recruitment and survival and are used as an input into the formula for annual deer herd abundance estimation. Fawn to doe ratios were summarized using groups of county deer management units. County deer management units were grouped based on location, habitat characteristics, and deer demography..

Central Farmland Management Zone

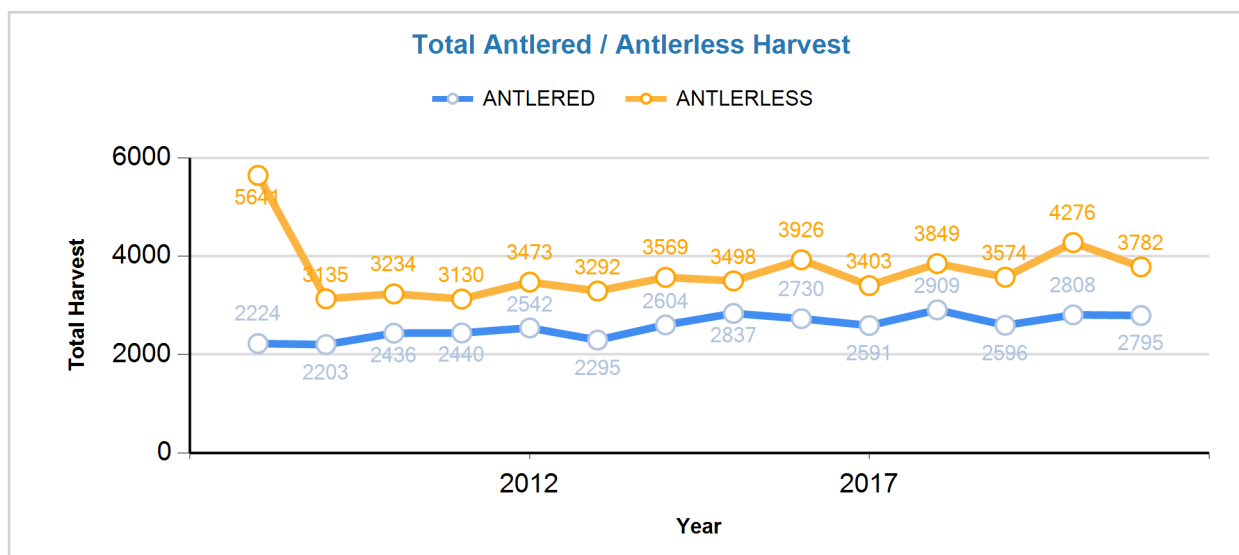
Total Area of Unit (Sq. Miles): 464.00

Deer Range of Unit (Sq. Miles): 365.60

Total Harvest for Marquette County - Central Farmland Management Zone

Year	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Total Harvest										
Antlered	2295	2604	2837	2730	2591	2909	2596	2808	2795	
Antlerless	3316	3583	3498	3926	3407	3849	3574	4276	3782	
Total	5611	6187	6335	6656	5998	6758	6170	7084	6577	
Gun										
Antlered	1577	1743	1844	1796	1637	1966	1517	1661	1655	
Antlerless	2580	2780	2667	3095	2553	2938	2642	3016	2856	
Total	4157	4523	4511	4891	4190	4904	4159	4677	4511	
Bow										
Antlered	718	575	603	499	488	426	517	518	485	
Antlerless	736	525	530	479	480	431	448	585	432	
Total	1454	1100	1133	978	968	857	965	1103	917	
Crossbow										
Antlered	0	286	390	435	466	517	562	629	655	
Antlerless	0	278	301	352	374	480	484	675	494	
Total	0	564	691	787	840	997	1046	1304	1149	
Tribal*										
Antlered	0	0	0	0	0	0	0	0	0	
Antlerless	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	
Youth Antlerless*										
Antlerless	0	0	0	170	133	131	102	145	119	

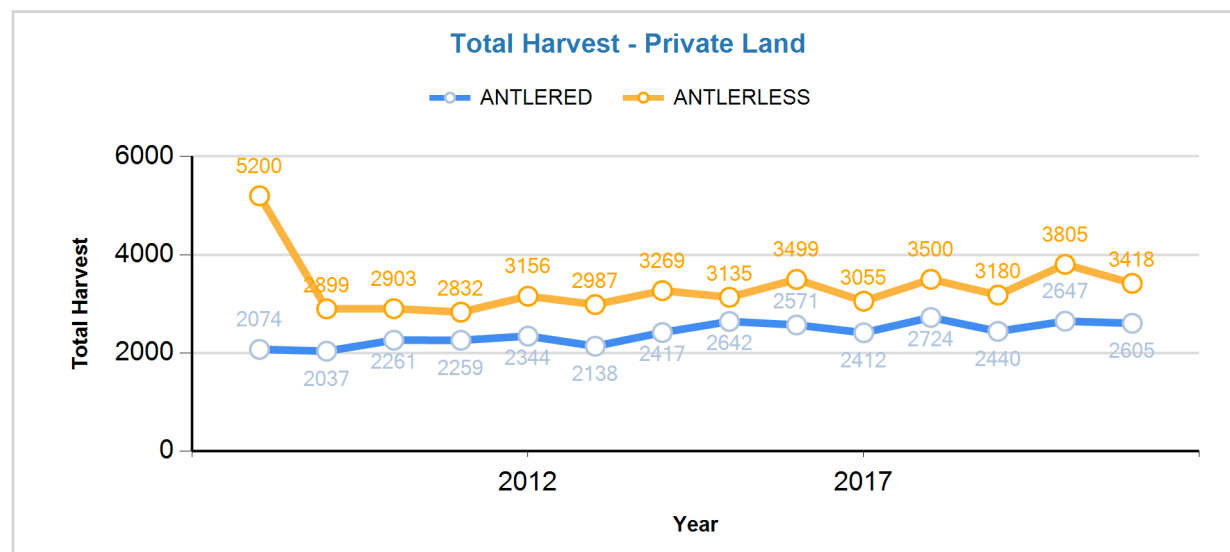
* Tribal and Youth Antlerless data are included in above totals where they apply



Total Harvest for Marquette County - Central Farmland Management Zone - Private Land

Year	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Total Harvest										
Antlered	2138	2417	2642	2571	2412	2724	2440	2647	2605	
Antlerless	3009	3283	3135	3499	3058	3500	3180	3805	3418	
Total	5147	5700	5777	6070	5470	6224	5620	6452	6023	
Gun										
Antlered	1481	1628	1726	1706	1544	1854	1443	1572	1568	
Antlerless	2357	2548	2398	2785	2332	2693	2406	2734	2615	
Total	3838	4176	4124	4491	3876	4547	3849	4306	4183	
Bow										
Antlered	657	521	549	456	436	385	467	479	419	
Antlerless	652	479	461	408	408	385	374	484	369	
Total	1309	1000	1010	864	844	770	841	963	788	
Crossbow										
Antlered	0	268	367	409	432	485	530	596	618	
Antlerless	0	256	276	306	318	422	400	587	434	
Total	0	524	643	715	750	907	930	1183	1052	
Tribal*										
Antlered	0	0	0	0	0	0	0	0	0	
Antlerless	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	
Youth Antlerless*										
Antlerless	0	0	0	149	129	126	101	141	114	

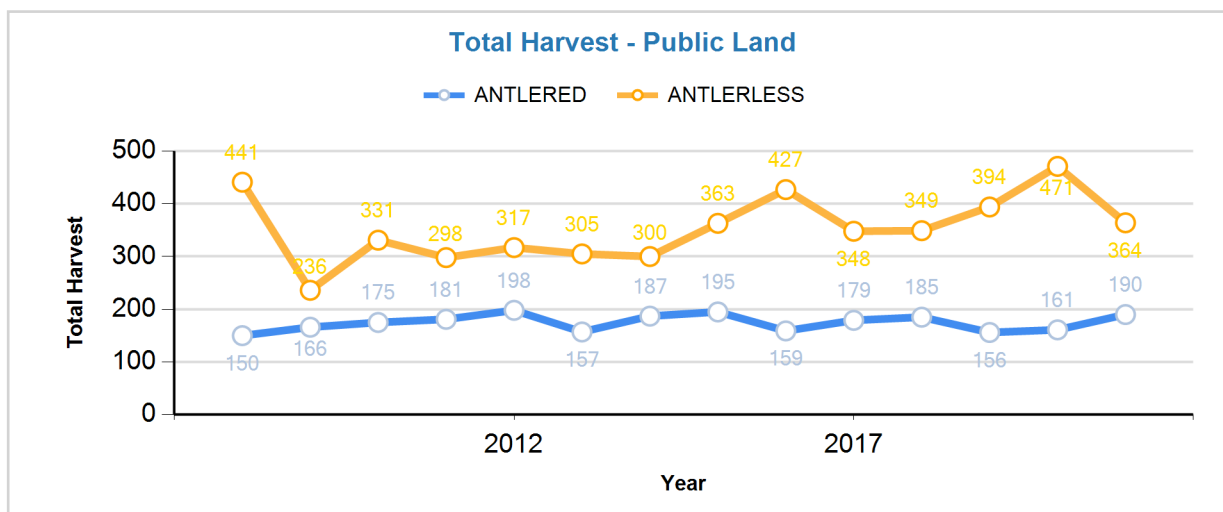
* Tribal and Youth Antlerless data are included in above totals where they apply



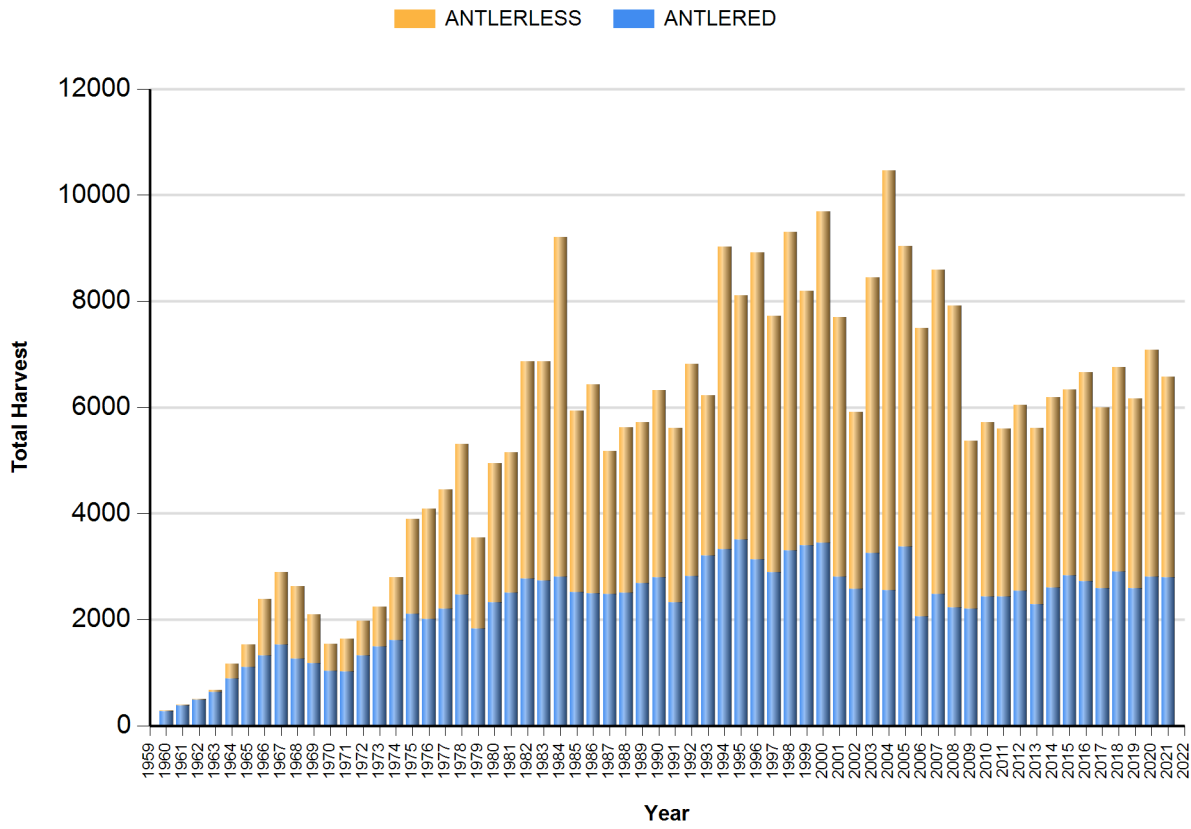
Total Harvest for Marquette County - Central Farmland Management Zone - Public Land

Year	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Total Harvest										
Antlered	157	187	195	159	179	185	156	161	190	
Antlerless	307	300	363	427	349	349	394	471	364	
Total	464	487	558	586	528	534	550	632	554	
Gun										
Antlered	96	115	118	90	93	112	74	89	87	
Antlerless	223	232	269	310	221	245	236	282	241	
Total	319	347	387	400	314	357	310	371	328	
Bow										
Antlered	61	54	54	43	52	41	50	39	66	
Antlerless	84	46	69	71	72	46	74	101	63	
Total	145	100	123	114	124	87	124	140	129	
Crossbow										
Antlered	0	18	23	26	34	32	32	33	37	
Antlerless	0	22	25	46	56	58	84	88	60	
Total	0	40	48	72	90	90	116	121	97	
Tribal*										
Antlered	0	0	0	0	0	0	0	0	0	
Antlerless	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	
Youth Antlerless*										
Antlerless	0	0	0	21	4	5	1	4	5	

* Tribal and Youth Antlerless data are included in above totals where they apply

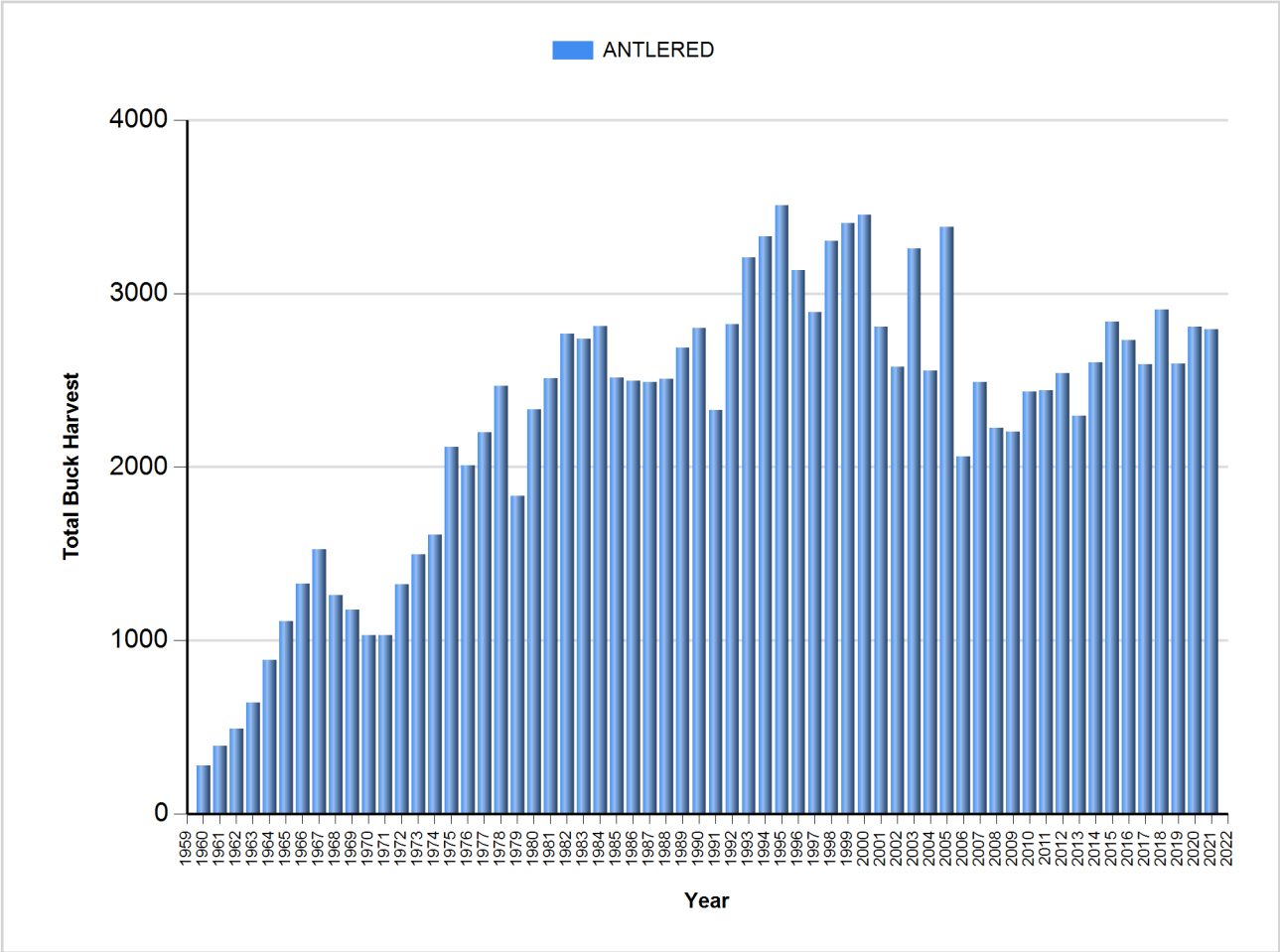


Total Deer Harvest 1960 - Present



Total Buck Harvest 1960 - Present

Historic High: 1995 - 3,509
Historic Low: 1960 - 278

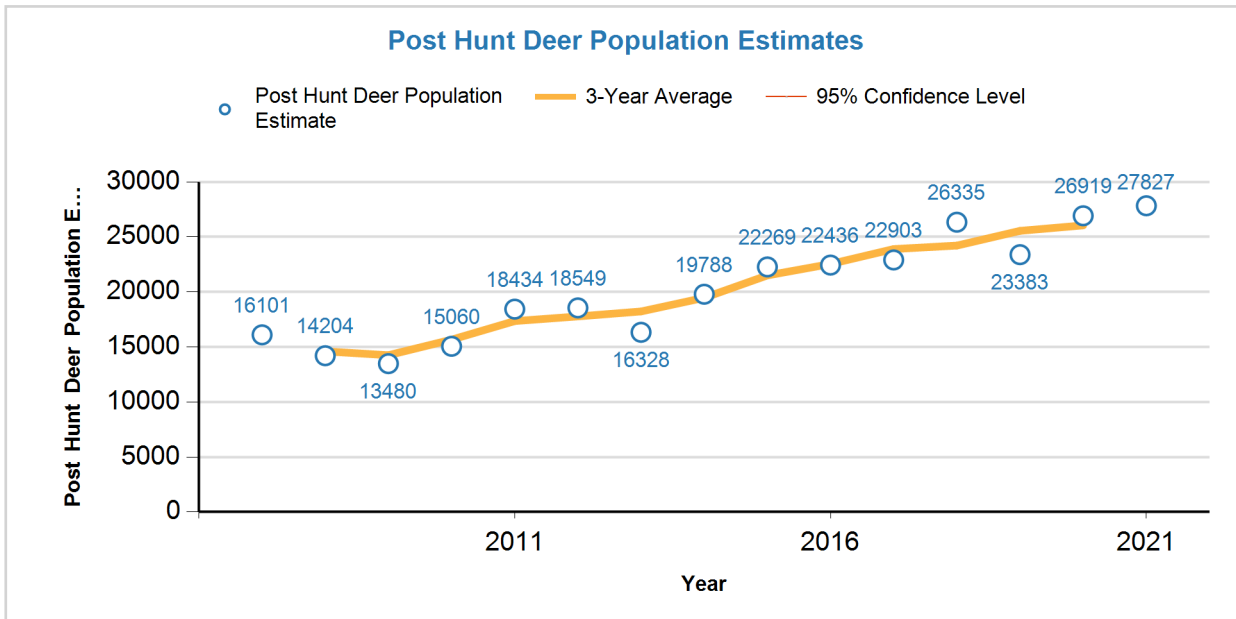


Antlerless Tag Issuance & Success for Marquette County - Central Farmland

Year	2019	2020	2021	2022
Farmland - Public				
Issued	9,976	10,686	7,499	
Killed	372	438	324	
Success Rate (%)	3.7	4.1	4.3	
Farmland - Private				
Issued	44,472	45,402	33,775	
Killed	2,881	3,444	3,028	
Success Rate (%)	6.5	7.6	9.0	
Farmland - Total				
Issued	54,448	56,088	41,274	
Killed	3,253	3,882	3,352	
Success Rate (%)	6.0	6.9	8.1	
Bonus- Public				
Available	2,000	2,000	2,000	
Issued	294	324	385	
Killed	18	26	28	
Success Rate (%)	6.1	8.0	7.3	
Bonus- Private				
Available	8,000	8,000	8,000	
Issued	436	446	537	
Killed	66	73	98	
Success Rate (%)	15.1	16.4	18.2	
Bonus- Total				
Available	10,000	10,000	10,000	
Issued	730	770	922	
Killed	84	99	126	
Success Rate (%)	11.5	12.9	13.7	

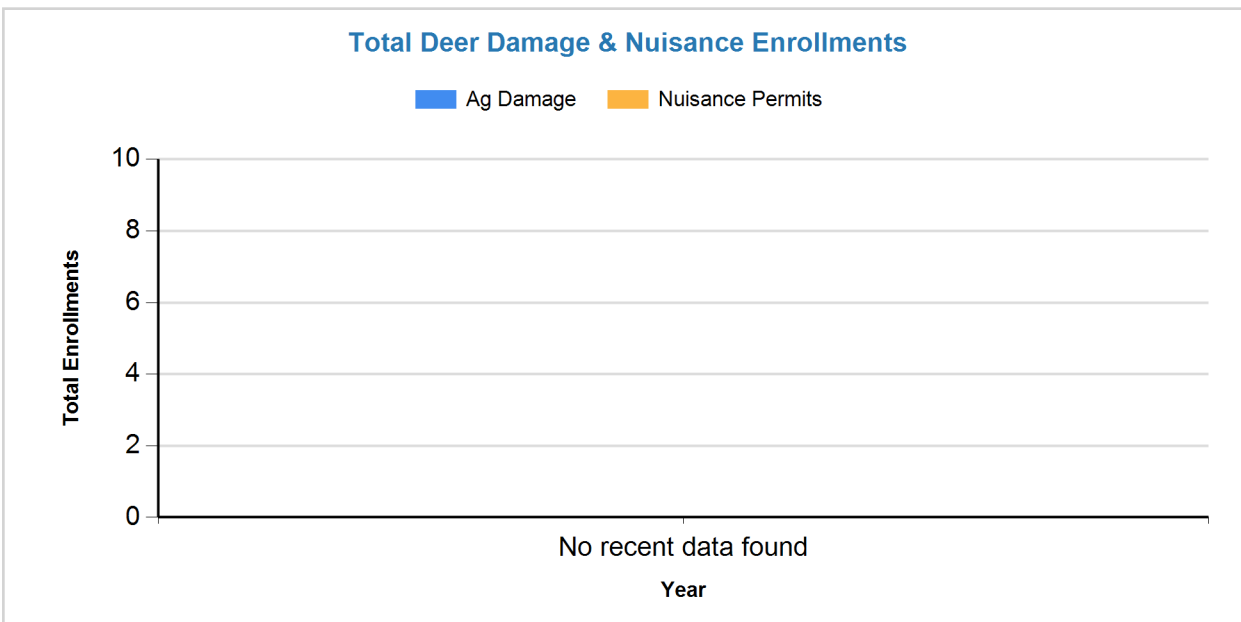
Herd Abundance

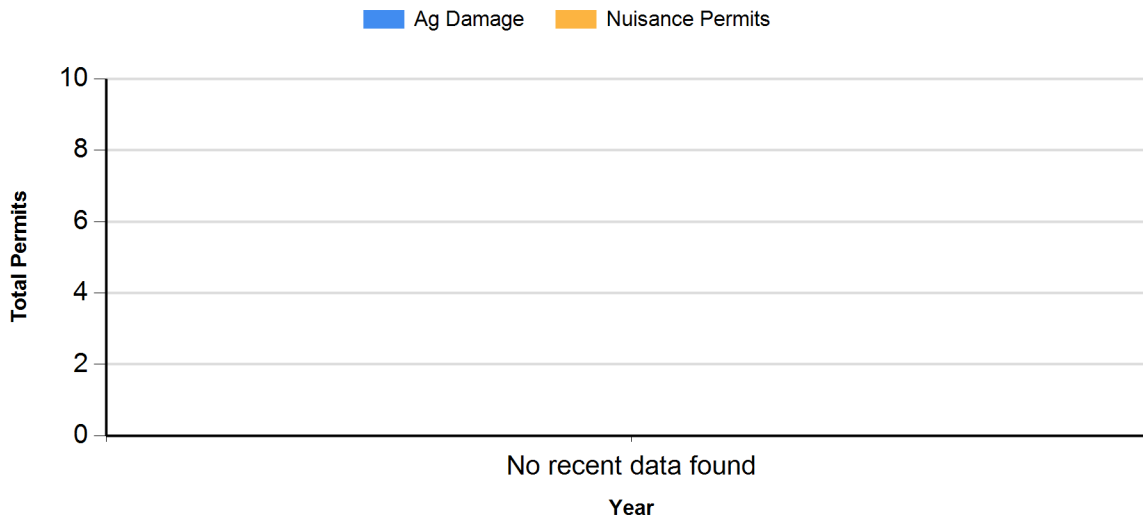
Deer herd abundance is estimated annually with hunter-collected data and a mathematical model to get post hunt deer population estimates.



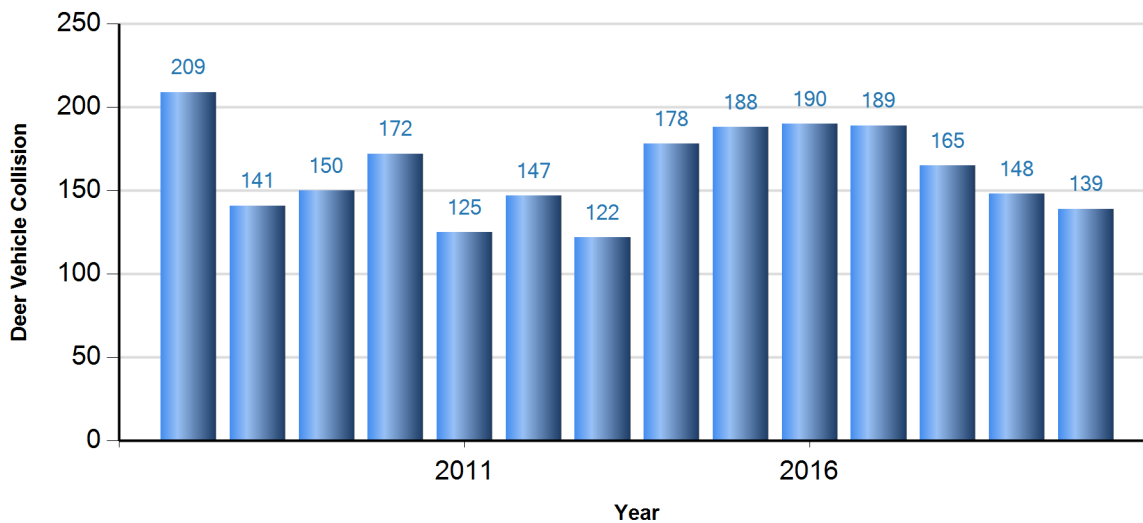
Deer Impacts – Agriculture & Nuisance Impacts

View trends in county and statewide enrollment, shooting permit, Ag Damage, and Nuisance harvest numbers over the years.



Total Deer Damage & Nuisance Shooting Permits Issued***Deer Impacts – Deer Vehicle Collision***

Deer-vehicle collisions (DVCs) are one of the most visible negative impacts that deer populations have on society. As managing deer involves balancing the positive benefits of deer with their negative impacts, it makes sense to consider DVCs when making deer management decisions.

Deer Vehicle Collisions***Hunter Dynamics - Hunter Field Observations***

This metric provides voluntary hunter observation data that is collected either during the process of registering a deer, or from submitted field observations through an on-line reporting form.

Deer Seen Per Hunted Hour

