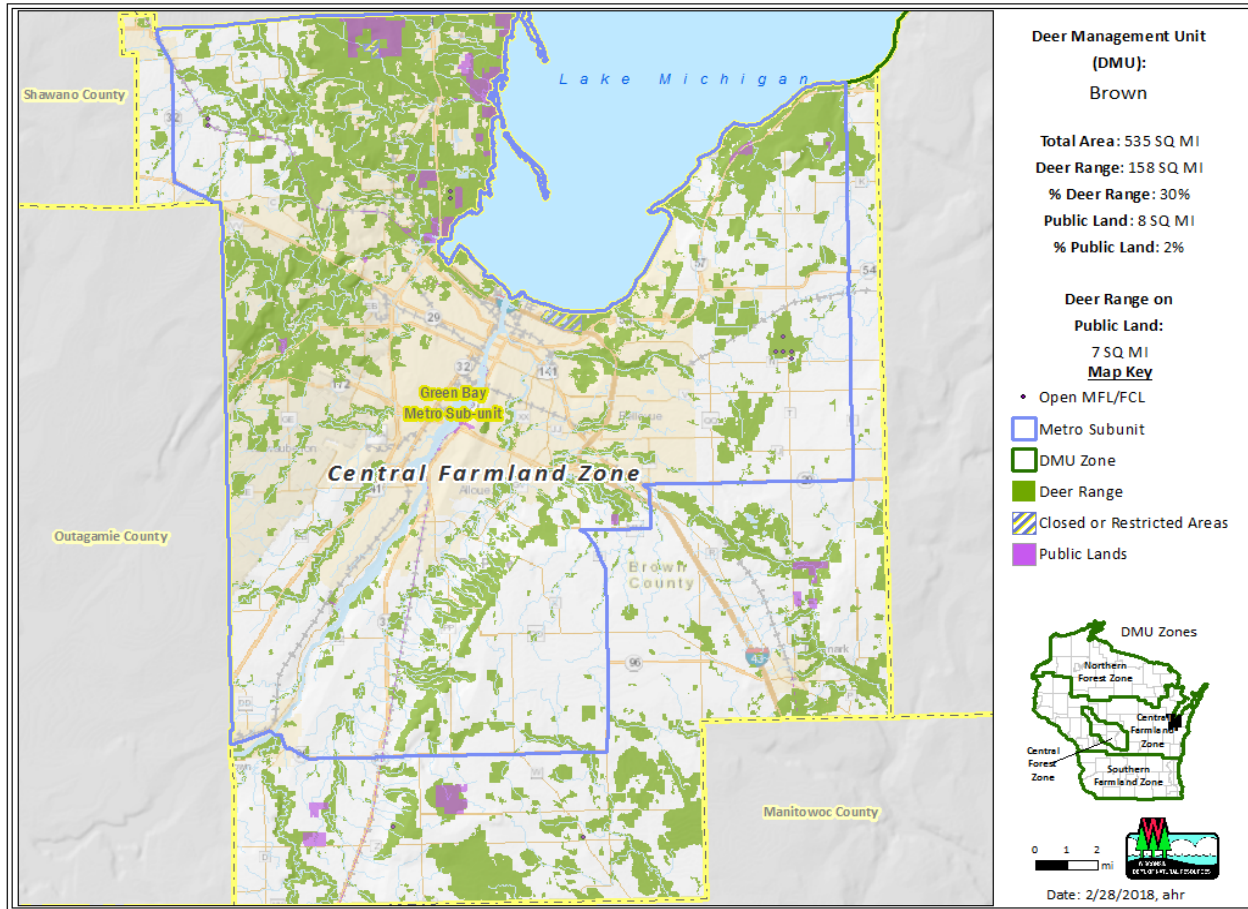


Brown County Deer Metrics Report

Spring of 2024

Management Unit:



Manager's Note:

The Brown County Deer Management Unit is located within the Central Farmland Zone. Approximately 30 percent of the unit is considered suitable deer range. The vast majority of the unit is considered a Metro subunit, centered on Green Bay and surrounding suburbs. The unit still maintains a strong agricultural base and fertile soils. Wetter soils and larger tracts of habitat are concentrated along rivers and near the bay of Green Bay. Unique to this unit is a rapidly expanding land base of the Oneida Nation. Many tracts of land purchased by the tribe in the last decade are being managed for conservation and becoming good deer habitat. The Metro subunit remains very productive for deer and allows for the rapid rebounding of the deer herd.

Public land is concentrated in the northern half of the unit, but the majority consists of parks, refuges and conservancy areas with very limited hunting seasons. There are two sizable state-owned properties, Green Bay West Shores Wildlife Area and Holland Wildlife Area, which provide a variety of hunting opportunities. Away from the city of Green Bay there are a great deal of small private residential tracts that provide some hunting pressure, but municipality weapon restrictions limit many areas to archery and crossbows. In this unit it is important to maintain an adequate antlerless deer harvest to avoid excessive agricultural damage and conflicts with traffic and residential plantings. 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

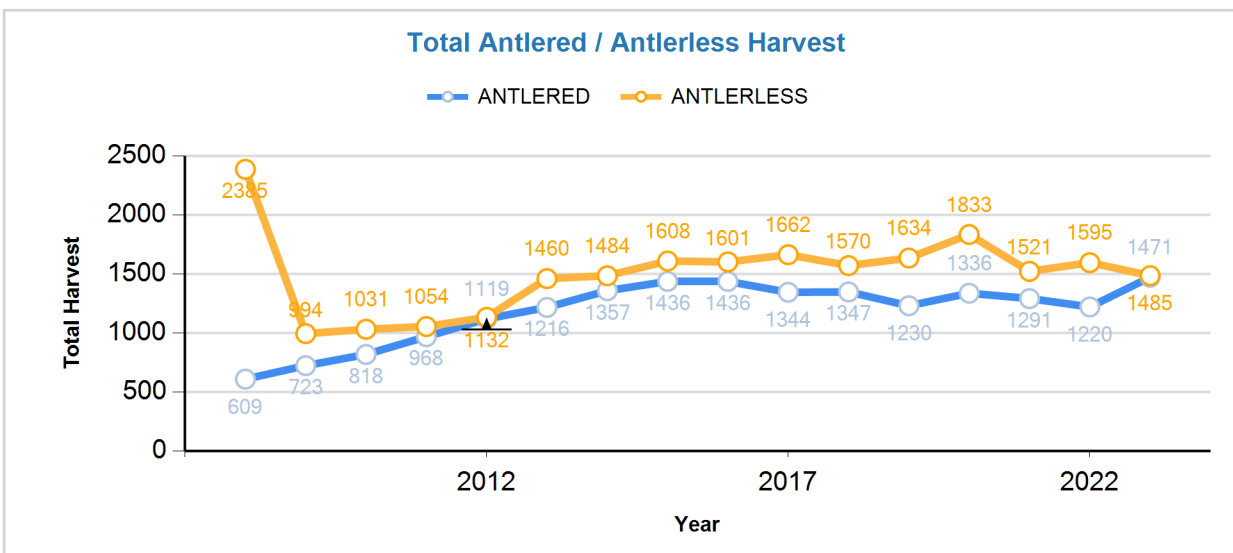
Total Area of Unit (Sq. Miles): 534.60

Deer Range of Unit (Sq. Miles): 158.50

Total Harvest for Brown County - Central Farmland Management Zone

| Year | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------|------|------|------|------|------|------|------|------|------|------|
| Total Harvest | | | | | | | | | | |
| Antlered | 1357 | 1436 | 1436 | 1344 | 1347 | 1230 | 1336 | 1291 | 1220 | 1471 |
| Antlerless | 1488 | 1608 | 1601 | 1664 | 1570 | 1634 | 1833 | 1521 | 1595 | 1485 |
| Total | 2845 | 3044 | 3037 | 3005 | 2917 | 2864 | 3169 | 2812 | 2815 | 2956 |
| Gun | | | | | | | | | | |
| Antlered | 804 | 766 | 816 | 746 | 795 | 601 | 630 | 585 | 671 | 762 |
| Antlerless | 995 | 976 | 1032 | 1036 | 1006 | 1017 | 1097 | 867 | 1009 | 885 |
| Total | 1799 | 1742 | 1848 | 1782 | 1801 | 1618 | 1727 | 1452 | 1680 | 1647 |
| Bow | | | | | | | | | | |
| Antlered | 363 | 369 | 304 | 268 | 200 | 222 | 234 | 240 | 177 | 253 |
| Antlerless | 298 | 366 | 260 | 263 | 230 | 224 | 247 | 202 | 213 | 187 |
| Total | 661 | 735 | 564 | 531 | 430 | 446 | 481 | 442 | 390 | 440 |
| Crossbow | | | | | | | | | | |
| Antlered | 190 | 301 | 276 | 296 | 310 | 381 | 425 | 424 | 372 | 409 |
| Antlerless | 195 | 266 | 266 | 331 | 296 | 366 | 448 | 425 | 373 | 391 |
| Total | 385 | 567 | 542 | 627 | 606 | 747 | 873 | 849 | 745 | 800 |
| Tribal* | | | | | | | | | | |
| Antlered | 0 | 0 | 40 | 34 | 42 | 26 | 47 | 42 | 0 | 47 |
| Antlerless | 0 | 0 | 43 | 34 | 38 | 27 | 41 | 27 | 0 | 22 |
| Total | 0 | 0 | 83 | 65 | 80 | 53 | 88 | 69 | 0 | 69 |
| Youth Antlerless* | | | | | | | | | | |
| Antlerless | 0 | 0 | 116 | 81 | 84 | 58 | 68 | 48 | 55 | 59 |

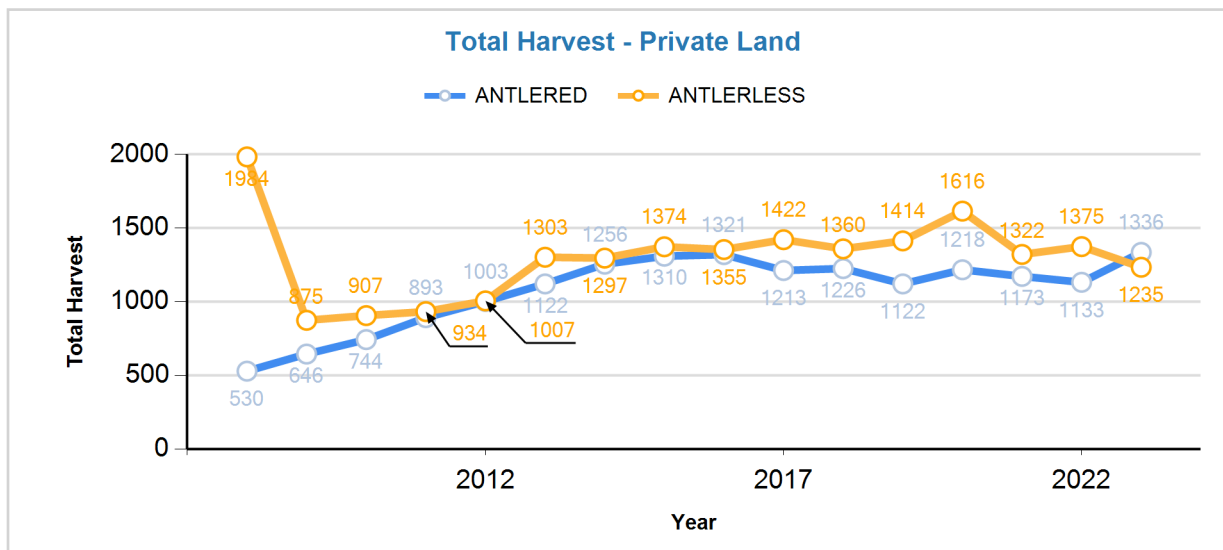
* Tribal and Youth Antlerless data are included in above totals where they apply



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

| Year | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------|------|------|------|------|------|------|------|------|------|------|
| Total Harvest | | | | | | | | | | |
| Antlered | 1256 | 1310 | 1321 | 1213 | 1226 | 1122 | 1218 | 1173 | 1133 | 1336 |
| Antlerless | 1301 | 1374 | 1355 | 1422 | 1360 | 1414 | 1616 | 1322 | 1375 | 1235 |
| Total | 2557 | 2684 | 2676 | 2635 | 2586 | 2536 | 2834 | 2495 | 2508 | 2571 |
| Gun | | | | | | | | | | |
| Antlered | 757 | 705 | 764 | 708 | 761 | 576 | 603 | 559 | 637 | 726 |
| Antlerless | 897 | 849 | 877 | 931 | 927 | 933 | 1024 | 799 | 895 | 751 |
| Total | 1654 | 1554 | 1641 | 1639 | 1688 | 1509 | 1627 | 1358 | 1532 | 1477 |
| Bow | | | | | | | | | | |
| Antlered | 328 | 333 | 266 | 241 | 180 | 201 | 214 | 218 | 158 | 233 |
| Antlerless | 244 | 304 | 222 | 215 | 194 | 183 | 215 | 170 | 165 | 155 |
| Total | 572 | 637 | 488 | 456 | 374 | 384 | 429 | 388 | 323 | 388 |
| Crossbow | | | | | | | | | | |
| Antlered | 171 | 272 | 251 | 264 | 285 | 345 | 401 | 396 | 338 | 377 |
| Antlerless | 160 | 221 | 213 | 276 | 239 | 298 | 377 | 353 | 315 | 329 |
| Total | 331 | 493 | 464 | 540 | 524 | 643 | 778 | 749 | 653 | 706 |
| Tribal* | | | | | | | | | | |
| Antlered | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Antlerless | 0 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 83 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Youth Antlerless* | | | | | | | | | | |
| Antlerless | 0 | 0 | 104 | 78 | 76 | 54 | 64 | 46 | 50 | 52 |

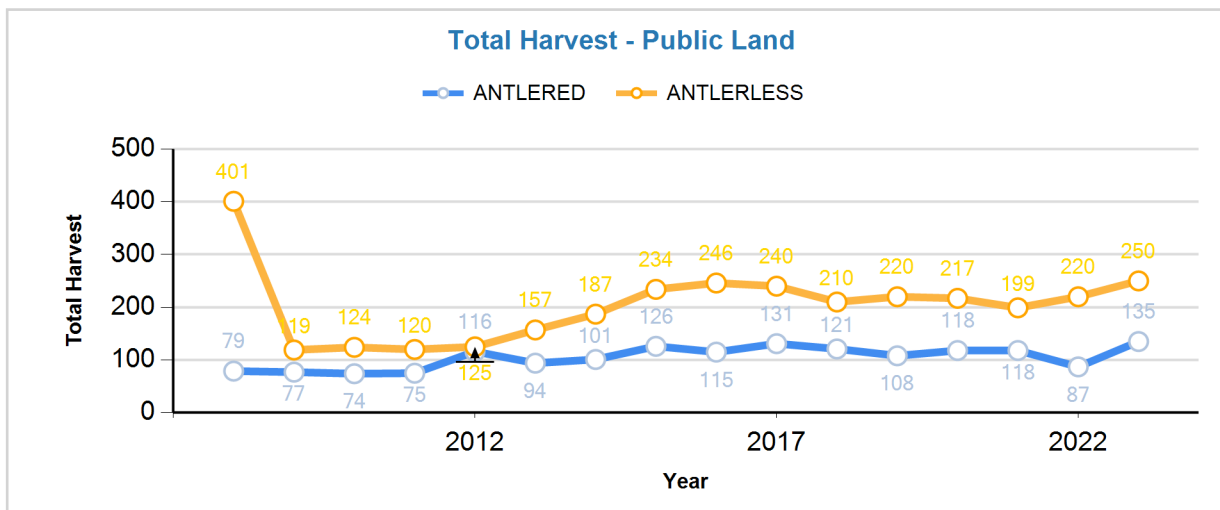
* Tribal and Youth Antlerless data are included in above totals where they apply



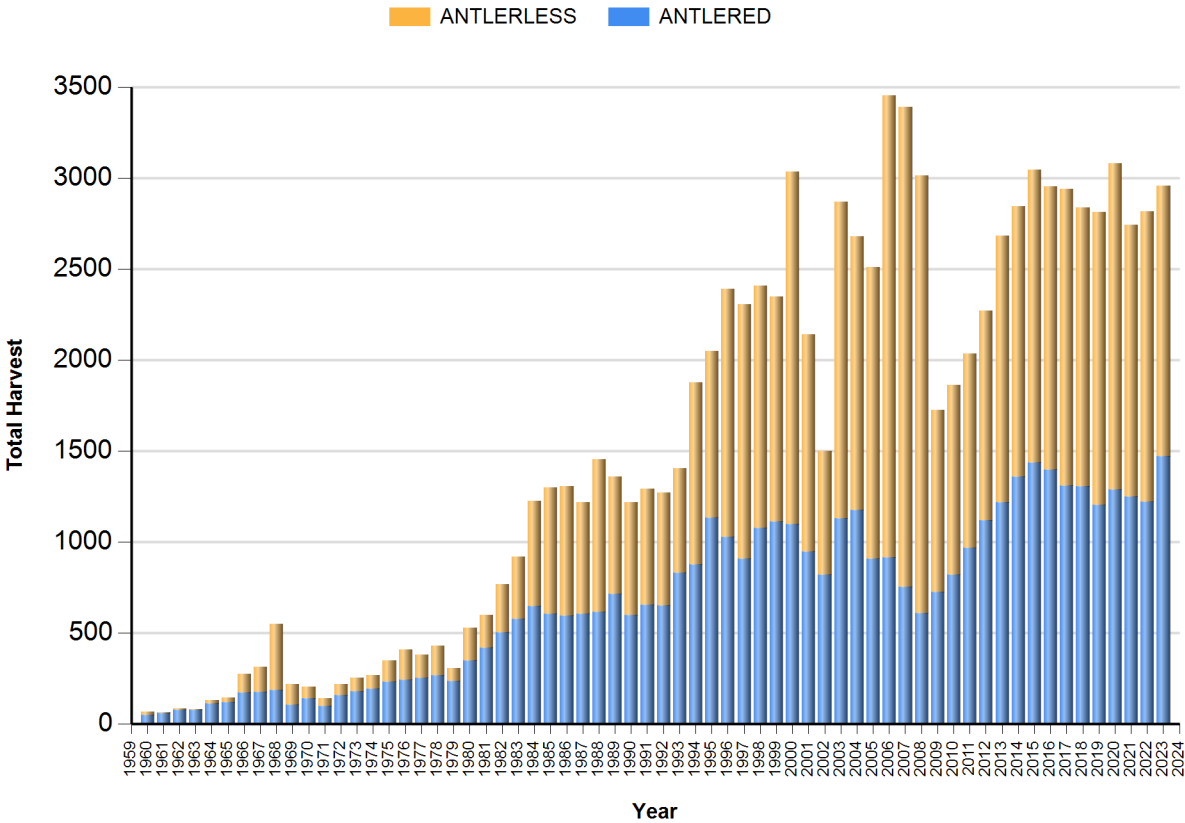
Total Harvest for Brown County - Central Farmland Management Zone - Public Land

| Year | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------|------|------|------|------|------|------|------|------|------|------|
| Total Harvest | | | | | | | | | | |
| Antlered | 101 | 126 | 115 | 131 | 121 | 108 | 118 | 118 | 87 | 135 |
| Antlerless | 187 | 234 | 246 | 242 | 210 | 220 | 217 | 199 | 220 | 250 |
| Total | 288 | 360 | 361 | 370 | 331 | 328 | 335 | 317 | 307 | 385 |
| Gun | | | | | | | | | | |
| Antlered | 47 | 61 | 52 | 38 | 34 | 25 | 27 | 26 | 34 | 36 |
| Antlerless | 98 | 127 | 155 | 105 | 79 | 84 | 73 | 68 | 114 | 134 |
| Total | 145 | 188 | 207 | 143 | 113 | 109 | 100 | 94 | 148 | 170 |
| Bow | | | | | | | | | | |
| Antlered | 35 | 36 | 38 | 27 | 20 | 21 | 20 | 22 | 19 | 20 |
| Antlerless | 54 | 62 | 38 | 48 | 36 | 41 | 32 | 32 | 48 | 32 |
| Total | 89 | 98 | 76 | 75 | 56 | 62 | 52 | 54 | 67 | 52 |
| Crossbow | | | | | | | | | | |
| Antlered | 19 | 29 | 25 | 32 | 25 | 36 | 24 | 28 | 34 | 32 |
| Antlerless | 35 | 45 | 53 | 55 | 57 | 68 | 71 | 72 | 58 | 62 |
| Total | 54 | 74 | 78 | 87 | 82 | 104 | 95 | 100 | 92 | 94 |
| Tribal* | | | | | | | | | | |
| Antlered | 0 | 0 | 0 | 34 | 42 | 26 | 47 | 42 | 0 | 47 |
| Antlerless | 0 | 0 | 0 | 34 | 38 | 27 | 41 | 27 | 0 | 22 |
| Total | 0 | 0 | 0 | 65 | 80 | 53 | 88 | 69 | 0 | 69 |
| Youth Antlerless* | | | | | | | | | | |
| Antlerless | 0 | 0 | 12 | 3 | 8 | 4 | 4 | 2 | 5 | 7 |

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



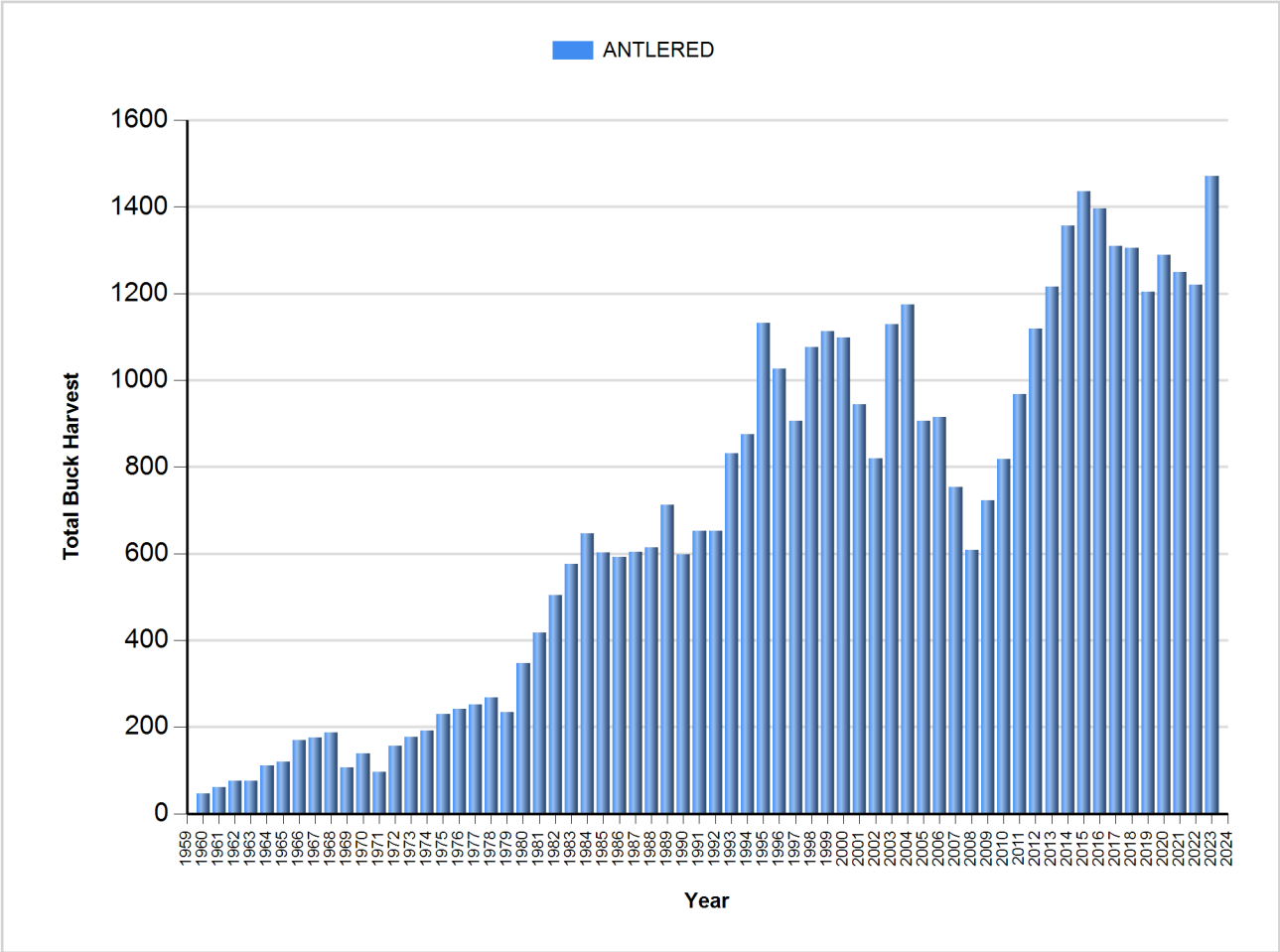
Total Deer Harvest 1960 - Present



Total Buck Harvest 1960 - Present

Historic High: 2023 - 1,471

Historic Low: 1960 - 47

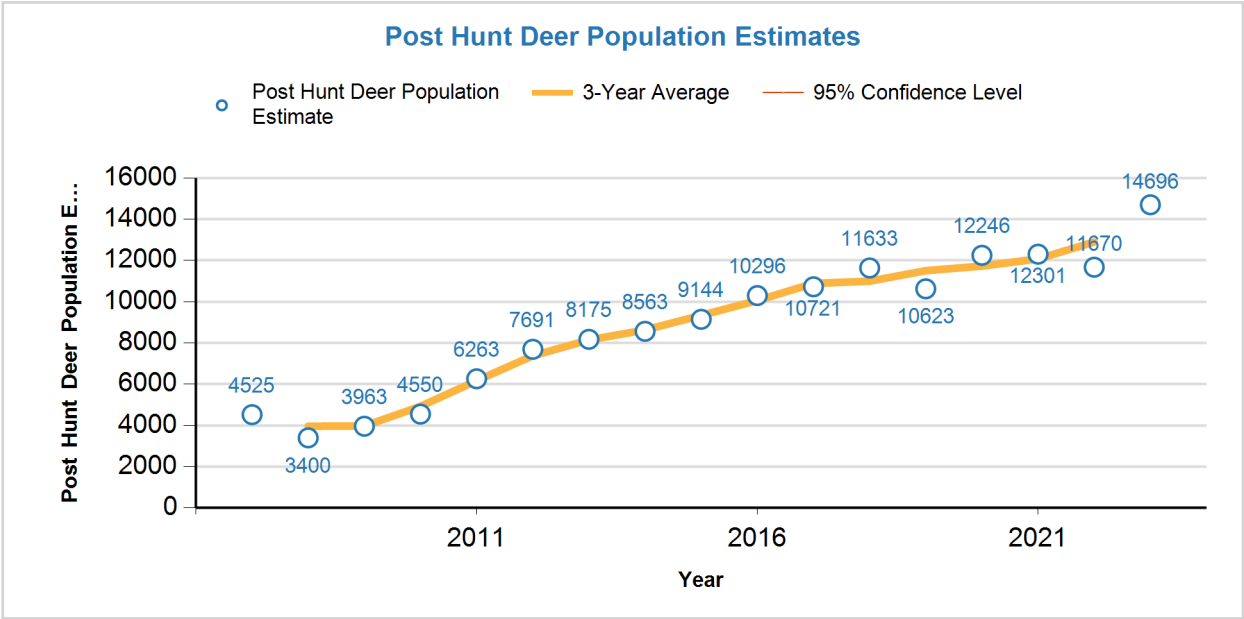


Antlerless Tag Issuance & Success for Brown County - Central Farmland

| Year | 2020 | 2021 | 2022 | 2023 |
|---------------------------|--------|--------|--------|--------|
| Farmland - Public | | | | |
| Issued | 4,106 | 3,918 | 4,025 | 3,956 |
| Killed | 151 | 111 | 144 | 102 |
| Success Rate (%) | 3.7 | 2.8 | 3.6 | 2.6 |
| Farmland - Private | | | | |
| Issued | 15,720 | 14,562 | 14,295 | 14,234 |
| Killed | 1,363 | 909 | 912 | 823 |
| Success Rate (%) | 8.7 | 6.2 | 6.4 | 5.8 |
| Farmland - Total | | | | |
| Issued | 19,826 | 18,480 | 18,320 | 18,190 |
| Killed | 1,514 | 1,020 | 1,056 | 925 |
| Success Rate (%) | 7.6 | 5.5 | 5.8 | 5.1 |
| Bonus- Public | | | | |
| Available | 150 | 50 | 50 | 100 |
| Issued | 150 | 50 | 50 | 101 |
| Killed | 18 | 3 | 6 | 6 |
| Success Rate (%) | 12.0 | 6.0 | 12.0 | 5.9 |
| Bonus- Private | | | | |
| Available | 1,000 | 1,000 | 1,000 | 1,000 |
| Issued | 457 | 402 | 406 | 382 |
| Killed | 72 | 42 | 39 | 27 |
| Success Rate (%) | 15.8 | 10.4 | 9.6 | 7.1 |
| Bonus- Total | | | | |
| Available | 1,150 | 1,050 | 1,050 | 1,100 |
| Issued | 607 | 452 | 456 | 483 |
| Killed | 90 | 45 | 45 | 33 |
| Success Rate (%) | 14.8 | 10.0 | 9.9 | 6.8 |

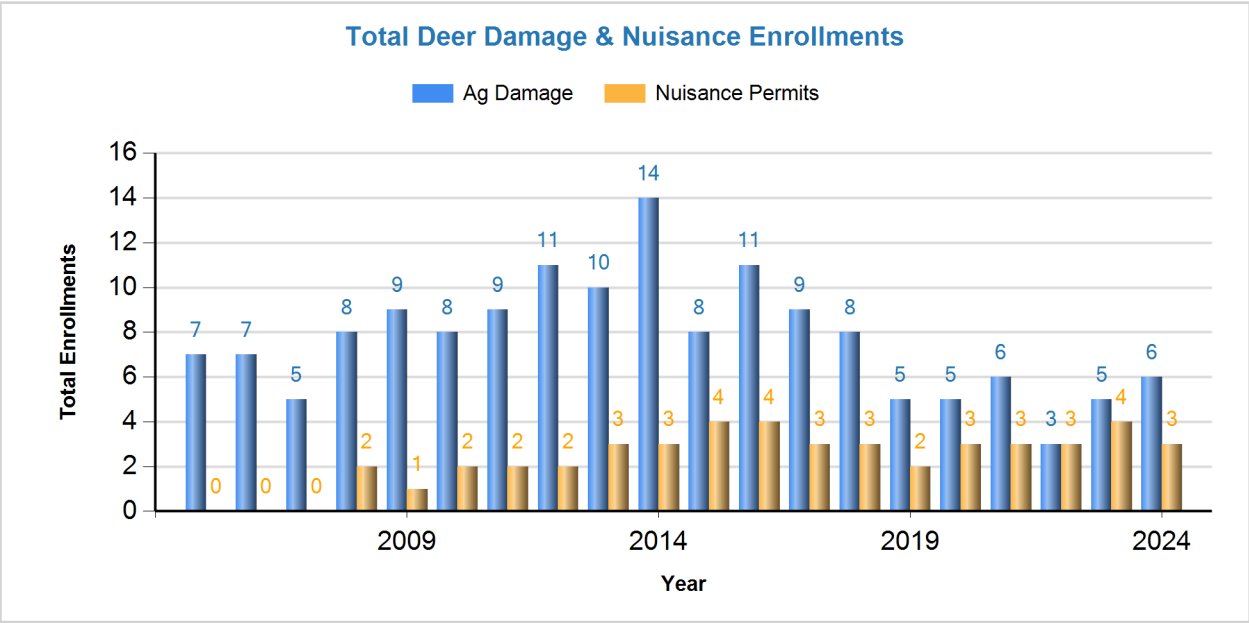
Herd Abundance

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

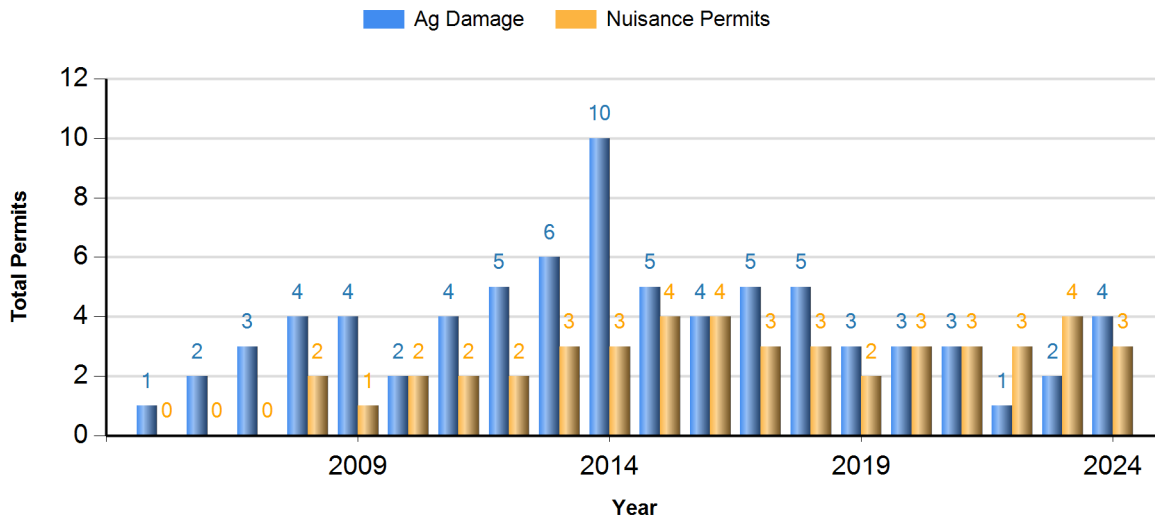


Deer Impacts – Agriculture & Nuisance Impacts

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



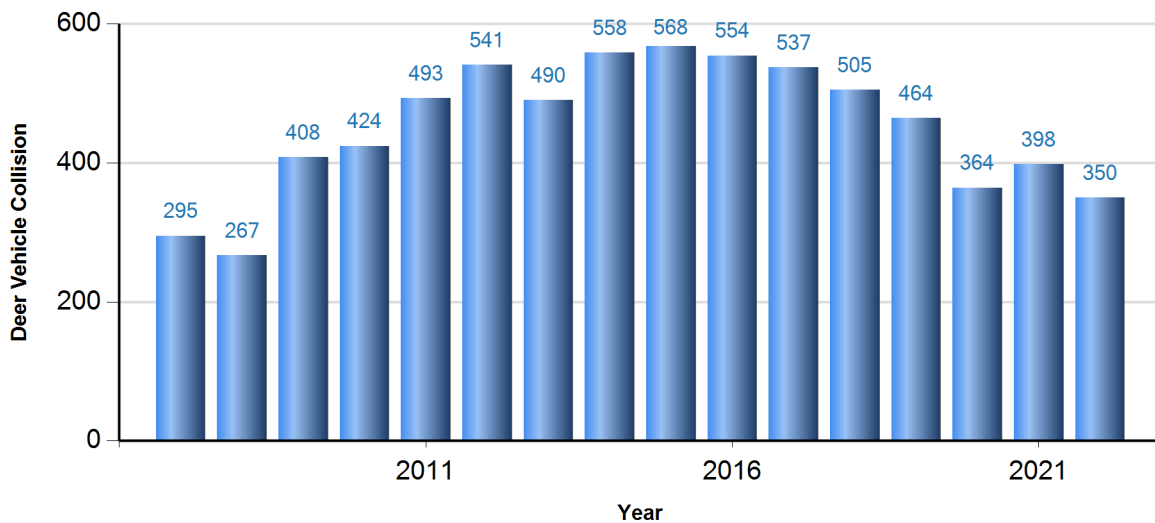
Total Deer Damage & Nuisance Shooting Permits Issued



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.

