

Appendix A:
Summary of 2012-2013 Mule Deer and White-tailed Deer
Harvest, Census, and Demographic Data

Total deer harvest is the sum of table 2a [whitetail and mule] and table 2b [whitetail and mule]

$$\text{Total Harvest} = 44,007 = [32,499 + 2,056] + [8,937 + 515]$$

1. A total of 61,973 licenses were issued of the 65,150 licenses made available for the regular deer-gun season (Table 1a).
2. The overall hunter success for the 2012 regular gun season was 67.2 percent.
3. Deer-gun hunters harvested an estimated 32,499 white-tailed deer and 2,056 mule deer during the 2012 season (Table 2a).
4. Youth deer hunters in 2012 had a success rate of 56.5 percent during the youth season, and harvested 1,701 white-tailed deer and 99 mule deer during the youth deer season (Table 3a). During the regular deer-gun season an additional 116 white-tailed deer, and 30 mule deer harvested by youth hunters.
5. Muzzleloader hunters in 2012 had a success rate of 34.5 percent, and harvested 397 white-tailed deer (Table 3a).
6. Archery hunters in 2010 had a success rate of 35.5 percent, and harvested 6,440 white-tailed deer and 416 mule deer (Table 3a).
7. Population indices for white-tailed deer suggest a stable to decreasing numbers in a most of the state (Table 4a) (See Figures 1 and 2).
8. Population indices for mule deer suggest a stable to decreasing numbers in the badlands and stable to increasing numbers in portions of the Slope and Missouri River Major Management areas (Table 5a) (Figure 3).
9. Based on 1,064 useable questionnaires from the 2012 Hunter Observation Survey (n=32,233 white-tailed deer and 2,499 mule deer classified), overall population demographics suggest that about 20 percent of the white-tailed deer and 18 percent of the mule population were antlered deer prior to, or on the opening weekend of the deer-gun season (Table 6a).
10. Based on fall aerial surveys (n=1,224 mule deer classified) results for the Badlands Major management Units, overall mule deer population demographics suggest that 19

percent of the population were antlered deer prior to the opening weekend of the deer-gun season (Table 7a).

11. In 2008 information on the number of elk and moose observed during the opening weekend of the deer was added to the hunter observation questionnaire. Maps summarizing the results of the 2012 data set for elk and moose observations are given in Figures 4 and 5. Trend data provide by this survey will also be evaluated in the elk and moose PR Reports.

Table 1a. Summary of license numbers available for hunting units by license type for the 2012 regular deer gun season.

| MGMT UNIT | HUNTING UNIT | DEER TYPE A | DEER TYPE B | DEER TYPE C | DEER TYPE D | DEER TYPE E | DEER TYPE F |
|---------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | Any ♂ | Any ♀ | WTD ♂ | WTD ♀ | ♂ MD | MD ♀ |
| TURTLE MTS | I | 600 | 600 | | | | |
| | | | | | | | |
| RED RIVER | 2A | 400 | 200 | | | | |
| | 2B | 2,000 | 2,000 | | | | |
| | 2C | 1,500 | 2,000 | | | | |
| | | | | | | | |
| PEMBINA HILLS | 2D | 1,000 | 1,000 | | | | |
| | | | | | | | |
| SHEYENNE | 2F1 | 1,300 | 1,300 | | | | |
| | 2F2 | 1,300 | 1,300 | | | | |
| | 2G | 400 | 400 | | | | |
| | 2G1 | 1,000 | 1,000 | | | | |
| | 2G2 | 900 | 900 | | | | |
| | | | | | | | |
| COTEAU | 2E | 1,000 | 1,000 | | | | |
| | 2H | 900 | 900 | | | | |
| | 2I | 1,200 | 1,200 | | | | |
| | 2J1 | 500 | 500 | | | | |
| | 2J2 | 1,200 | 1,200 | | | | |
| | 2K1 | 800 | 1,100 | | | | |
| | 2K2 | 2,000 | 3,500 | | | | |
| | 3A1 | 600 | 50 | | | | |
| | 3A3 | 600 | 600 | | | | |
| | | | | | | | |
| DEVILS LAKE | 2L | 600 | 800 | | | | |
| | | | | | | | |
| SOURIS | 3A2 | 1,200 | 1,700 | | | | |
| | 3A4 | 1,500 | 1,500 | | | | |
| | | | | | | | |
| MISSOURI | 3B1 | | | 150 | 100 | 250 | 0 |
| | 3B2 | | | 250 | 250 | 100 | 0 |
| | 3B3 | 100 | 100 | 900 | 900 | | |
| | 3C | 100 | 100 | 1,100 | 1,100 | | |
| | | | | | | | |
| SLOPE | 3D1 | 200 | 200 | 100 | 100 | | |
| | 3D2 | 200 | 200 | 200 | 200 | | |
| | 3E1 | 300 | 300 | 500 | 500 | | |
| | 3E2 | 600 | 600 | 450 | 450 | | |
| | 3F1 | 350 | 500 | 600 | 600 | | |
| | 3F2 | 450 | 800 | 800 | 800 | | |
| | | | | | | | |
| BADLANDS | 4A | | | 100 | 100 | 150 | 0 |
| | 4B | | | 100 | 100 | 200 | 0 |
| | 4C | | | 100 | 100 | 200 | 0 |
| | 4D | | | 150 | 150 | 150 | 0 |
| | 4E | | | 100 | 100 | 100 | 0 |
| | 4F | | | 200 | 400 | 50 | 0 |
| | | | | | | | |
| | TOTALS | 24,800 | 27,550 | 5,800 | 5,950 | 1,200 | 0 |

TOTAL LICENSES =

65,300

Table 2a. Summary of 2012 white-tailed deer and mule deer harvest data and buck:doe:fawn ratios, by hunting unit, for all regular deer-gun license holders.

| Hunting Unit | White-tailed Deer | | | | Mule Deer | | | |
|--------------|-------------------|------------|-------|----------------|-----------|------------|-------|----------------|
| | Antlered | Antlerless | Total | Ratios (B/D/F) | Antlered | Antlerless | Total | Ratios (B/D/F) |
| 1 | 285 | 258 | 543 | 1.43/1/0.29 | | | | |
| 2A | 209 | 83 | 292 | 4.10/1/0.63 | | | | |
| 2B | 1095 | 1088 | 2183 | 1.41/1/0.40 | | | | |
| 2C | 732 | 813 | 1545 | 1.10/1/0.22 | | | | |
| 2D | 429 | 441 | 870 | 1.58/1/0.63 | | | | |
| 2F1 | 793 | 743 | 1536 | 1.44/1/0.34 | | | | |
| 2F2 | 568 | 660 | 1228 | 1.18/1/0.37 | | | | |
| 2G | 236 | 166 | 402 | 2.15/1/0.51 | | | | |
| 2G1 | 643 | 545 | 1188 | 1.94/1/0.65 | | | | |
| 2G2 | 558 | 491 | 1049 | 1.46/1/0.29 | | | | |
| 2E | 526 | 338 | 864 | 2.21/1/0.42 | | | | |
| 2H | 616 | 481 | 1097 | 1.97/1/0.54 | | | | |
| 2I | 807 | 663 | 1470 | 1.93/1/0.58 | | | | |
| 2J1 | 347 | 234 | 581 | 2.13/1/0.44 | | | | |
| 2J2 | 745 | 638 | 1383 | 1.77/1/0.52 | | | | |
| 2K1 | 517 | 571 | 1088 | 1.26/1/0.39 | | | | |
| 2K2 | 1018 | 1819 | 2837 | 0.87/1/0.55 | | | | |
| 3A1 | 213 | 6 | 219 | 35.50/1/0.0 | | | | |
| 3A3 | 390 | 298 | 688 | 1.94/1/0.48 | | | | |
| 2L | 290 | 310 | 600 | 1.12/1/0.20 | | | | |
| 3A2 | 692 | 729 | 1421 | 1.24/1/0.31 | | | | |
| 3A4 | 965 | 863 | 1828 | 1.66/1/0.48 | | | | |
| 3B1 | 110 | 4 | 114 | 27.50/1/0.0 | 88 | 0 | 88 | 88.00/1/0.00 |
| 3B2 | 155 | 96 | 251 | 2.07/1/0.28 | 79 | 3 | 82 | 79.00/1/3.00 |
| 3B3 | 580 | 519 | 1099 | 1.39/1/0.25 | 47 | 22 | 69 | 2.94/1/0.38 |
| 3C | 800 | 530 | 1330 | 2.04/1/0.35 | 47 | 15 | 62 | 3.62/1/0.15 |
| 3D1 | 93 | 87 | 180 | 1.43/1/0.34 | 86 | 48 | 134 | 2.61/1/0.45 |
| 3D2 | 202 | 158 | 360 | 1.82/1/0.42 | 69 | 61 | 130 | 1.47/1/0.30 |
| 3E1 | 430 | 310 | 740 | 1.74/1/0.26 | 121 | 64 | 185 | 2.81/1/0.49 |
| 3E2 | 584 | 298 | 882 | 2.70/1/0.38 | 139 | 135 | 274 | 1.72/1/0.67 |
| 3F1 | 672 | 162 | 834 | 5.55/1/0.34 | 64 | 72 | 136 | 1.21/1/0.36 |
| 3F2 | 789 | 250 | 1039 | 4.75/1/0.51 | 136 | 117 | 253 | 1.35/1/0.16 |
| 4A | 54 | 23 | 77 | 3.18/1/0.35 | 94 | 0 | 94 | 94.0/1/0.00 |
| 4B | 54 | 26 | 80 | 3.60/1/0.73 | 145 | 0 | 145 | 145.0/1/0.00 |
| 4C | 54 | 25 | 79 | 3.00/1/0.39 | 144 | 0 | 144 | 144.0/1/0.00 |
| 4D | 104 | 64 | 168 | 2.36/1/0.45 | 137 | 0 | 137 | 137.0/1/0.00 |
| 4E | 67 | 41 | 108 | 1.86/1/0.14 | 81 | 0 | 81 | 81.0/1/0.00 |
| 4F | 154 | 92 | 246 | 2.52/1/0.51 | 42 | 0 | 42 | 42.0/1/0.00 |
| Total | 17576 | 14923 | 32499 | 1.66/1/0.41 | 1519 | 537 | 2056 | 3.93/1/0.39 |

Table 3a. Summary of 2012 September Youth Deer Seasons (N=3,683 licenses issued; including new 12-year-old antlerless white-tailed deer only season), muzzleloader (N=1,282 licenses issued), and archery season (N=22,276 licenses issued) harvest data and buck:doe:fawn ratios, by license type for those license holders that hunted.

| License Type | White-tailed Deer | | | | Mule Deer | | | |
|---------------|-------------------|------------|-------|------------------------------------|-----------|------------|-------|-----------------------------|
| | Antlered | Antlerless | Total | Ratios (B/D/F) | Antlered | Antlerless | Total | Ratios (B/D/F) |
| Youth Season | 353 | 1,348 | 1,701 | 0.41/1/0.54 (353/871/477) | 88 | 11 | 99 | 8.00/1/4.50 (88/2/9) |
| Muzzle-Loader | 212 | 185 | 397 | 1.78/1/0.55 (212/119/66) | | | | |
| Archery | 4,581 | 1,859 | 6,440 | 3.30/1/0.34 (4581/1385/474) | 398 | 18 | 416 | 36.18/1/0.64 (398/11/7) |
| Total | 5,146 | 3,392 | 8,937 | 2.17/1/0.43 (5,146/2,375/1,017) | 486 | 29 | 515 | 37.38/1/1.23 (486/13/16) |

Table 4a. Summary of white-tailed deer population indices for 2012-2013 (i.e., 2013 winter aerial survey (Deer/ Sq. Mi.), 2012 deer-vehicle collisions, and 2012 white-tailed deer observed by hunters per hour of effort during the first Saturday and Sunday of the 2012 regular deer season (number of useable surveys)).

| Hunting Unit | 2013 Winter Aerial Survey (Sample Size) | 2012 Deer-Vehicle Collisions (MD & WTD) | 2012 Hunter Obs. WTD/Hr. \pm s.d. (Sample Size) |
|---|--|--|---|
| Turtle Mountains 1 | 4.3 (397/93.0) Decrease | Stable | 1.45 ± 1.44 (28) Increasing |
| Red River All Units | 5.6 (5344/947.8) Decrease | Stable | Stable to Increasing |
| 2A | 2.1 (889/433.5) Increase | Stable | 2.09 ± 3.16 (10) Stable to Increase |
| 2B | 10.0 (1898/180) Decrease | Stable | 1.40 ± 1.17 (62) Stable to Increase |
| 2C | 7.6 (2557/334.3) Decrease | Stable | 2.08 ± 1.87 (50) Stable to Increase |
| Pembina Hills 2D | 7.7 (2230/289) Decrease | Stable | 1.33 ± 1.23 (43) Stable to Increase |
| Shenandoah-James River All Units | 5.9 (7987/886.1) | Stable to Decreasing | NA |
| 2F1 | 13.5 (2443/181) Increase | Decreasing | 2.58 ± 1.95 (46) Stable |
| 2F2 | 19.8 (1227/62) Increase | Stable | 2.06 ± 1.64 (50) Stable to Increase |
| 2G | 7.0 (707/100.5) Decrease | Stable | 1.42 ± 1.06 (45) Stable |
| 2G1 | 2.6 (1425/544) | Stable | 1.74 ± 2.08 (63) Stable to Increase |
| 2G2 | 4.6 (2022/441) | Stable to Decreasing | 1.64 ± 1.29 (53) Stable to Increase |
| Devils Lake 2L | 4.4 (1645/375.1) | NA | 3.62 ± 3.55 (41) Stable to Increase |
| Coteau Hills All Units | 2.1 (8516/4055) Decrease | Stable to Decreasing | NA |
| 2E | 1.3 (1601/1200) Decrease | Stable | 1.98 ± 1.69 (30) Stable Increase |
| 2H | 0.0 (0/432) | Stable | 2.58 ± 2.06 (40) Stable to Increase |
| 2I | 0.0 (0/1480) | Stable | 2.57 ± 2.84 (53) Stable to Increase |
| 2J1 | 0.0 (0/588) | Stable | 1.97 ± 2.51 (2)** Stable to Increase |
| 2J2 | 0.0 (0/612) | Stable to Decreasing | 2.46 ± 1.91 (48) Stable to Increase |

Table 4a. (Continued)

| Hunting Unit | 2013 Winter Aerial Survey (Sample Size) | 2012 Deer-Vehicle Collisions (MD & WTD) | 2012 Hunter Obs. WTD/Hr. \pm s.d. (Sample Size) |
|--------------------------------------|--|--|---|
| Coteau Hills | | | |
| 2K1 | 5.5 (2926/532) | Stable | 1.91 ± 1.22 (33) Stable to Increase |
| 2K2 | 2.9 (1876/636) | Stable to Decreasing | 2.72 ± 3.23 (46) Stable to Increase |
| 3A1 | 1.1 (1392/1260) Decrease | Stable | 0.00 ± 0.00 (0) |
| 3A3 | 1.7 (721/427) | Stable | 3.40 ± 4.76 (10) Increase |
| Souris Des Lacs All Units | 5.5 (4078/744) | Stable | NA |
| 3A2 | 18.7 (1143/61) | Stable | 2.73 ± 3.19 (34) Stable |
| 3A4 | 4.3 (2935/683) | Stable | 2.19 ± 3.11 (32) Stable |
| Missouri River All Units | NA | Stable to Decreasing | NA |
| 3B1 | 0.0 (0/471) | NA | 0.00 ± 0.00 (0) |
| 3B2 | 0.0 (0/267) | Stable to Increasing | 0.00 ± 0.00 (0) |
| 3B3 | 0.0 (162) | Stable | 2.39 ± 2.14 (46) Stable to Increase |
| 3C | 7.1 (689/97) | Stable to Decreasing | 3.14 ± 2.87 (41) Stable to Decrease |
| Slope All Units | 0.0 (00) | Stable to Increasing | NA |
| 3D1 | 0.0 (0/574) | Stable to Increasing | 0.00 ± 0.00 (0) |
| 3D2 | 0.0 (0/577) | Increasing | 1.91 ± 0.00 (1)** |
| 3E1 | 0.0 (0/586) | Stable to Decreasing | 3.98 ± 4.62 (43) Stable to Increase |
| 3E2 | 0.0 (0/570) | Stable to Increasing | 3.53 ± 4.26 (41) Stable to Decrease |
| 3F1 | 0.0 (0/560) | Stable to Increasing | 7.55 ± 4.99 (40) Increasing |
| 3F2 | 0.0 (0/656) | Stable to Decreasing | 8.65 ± 9.66 (29) Increasing |

Table 4a. (Continued)

| Hunting Unit | 2013 Winter Aerial Survey (Sample Size) | 2012 Deer-Vehicle Collisions (MD & WTD) | 2012 Hunter Obs. Deer/Hr. \pm s.d. (Sample Size) |
|---------------------------|--|--|---|
| Badlands All Units | NA | Stable to Decreasing | NA |
| 4A | 0.0 WT & 0.0 MD (0 WT & 0 MD/92.1) | NA | 0.00 ± 0.00 (0)*** (All Deer Hunter Observations) |
| 4B | NA | Decreasing | 0.00 ± 0.00 (0)*** (All Deer Hunter Observations) |
| 4C | NA | Decreasing | 0.00 ± 0.00 (0)*** (All Deer Hunter Observations) |
| 4D | NA | Decreasing | 0.00 ± 0.00 (0)*** (All Deer Hunter Observations) |
| 4E | NA | Decreasing | 0.00 ± 0.00 (0)*** (All Deer Hunter Observations) |
| 4F | NA | Stable to Increasing | 21.55 ± 8.86 (4)*** Increasing (ALL Deer Hunter Observations) |

*** Small Sample

Table 5a. Summary of mule deer population indices for 2012-2013 (i.e., 2013 winter/spring aerial survey, 2012 Deer-vehicle collisions, and 2012 mule deer observed by hunters per hour of effort during the first Saturday and Sunday of the 2008 regular deer season(number of useable surveys)).

| Hunting Unit | 2013 Winter(*) or Spring Aerial Survey (Sample Size) | 2012 Deer-Vehicle Collisions (MD & WTD) | 2012 Hunter Obs. MD/Hr. \pm s.d. (Sample Size) |
|---------------------------------|---|--|--|
| Missouri River All Units | NA | Stable to Decreasing | NA |
| 3B1 | NA | NA | 0.00 \pm 0.00 (0) All Hunters |
| 3B2 | NA | Stable to Increasing | 0.00 \pm 0.00 (0) All Hunters |
| 3B3 | NA | Stable | 0.18 \pm 0.50 (46) Stable to Increase All Hunters |
| 3C | NA | Stable to Decreasing | 0.37 \pm 0.75 (41) Stable to Decrease All Hunters |
| Slope All Units | 0.9 (0/3532) | Stable to Increasing | NA |
| 3D1 | 0.0 (0/574) | Stable to Increasing | 0.00 \pm 0.00 (0) All Hunters |
| 3D2 | 0.0 (0/577) | Increasing | 1.27 \pm 0.00 (1) ^{***} All Hunters |
| 3E1 | 0.0 (0/586) | Stable to Decreasing | 0.81 \pm 0.1.31 (43) Stable to Increase All Hunters |
| 3E2 | 0.0 (0/570) | Stable to Increasing | 0.58 \pm 0.84 (41) Stable All Hunters |
| 3F1 | 0.0 (/560) | Stable to Increasing | 1.41 \pm 1.41 (40) Stable to Increase All Hunters |
| 3F2 | 0.0 (/683) | Stable to Decreasing | 1.98 \pm 2.46 (27) Increasing All Hunters |

Table 5a. (Continued)

| Hunting Unit | 2013 Spring Aerial Survey (Sample Size) | 2012 Deer-Vehicle Collisions (MD & WTD) | 2012 Hunter Obs. MD/Hr. \pm s.d. (Sample Size) |
|-------------------------------|--|--|--|
| Badlands All Units | 6.0 (1756) Decreasing | Stable to Decreasing | NA |
| 4A | 8.7 (239) Decreasing | NA | 0.00 ± 0.00 (0) All Hunters |
| 4B | 4.7 (336) Decreasing | Decreasing | 2.25 ± 0.00 (0) All Hunters |
| 4C | 5.1 (316) Decreasing | Decreasing | 2.89 ± 0.00 (0) All Hunters |
| 4D | 8.8 (613) Decreasing to Stable | Decreasing | 3.04 ± 0.00 (0) All Hunters |
| 4E | 5.6 (246) Decreasing | Decreasing | 2.78 ± 0.00 (0) All Hunters |
| 4F | 3.6 (140) Decreasing to Stable | Stable to Increasing | 2.91 ± 4.51 (4)*** All Hunters |

***** Small Sample**

Table 6a. Summary of white-tailed deer buck:doe:fawn ratios based upon observations by white-tailed deer hunters during the first Saturday and Sunday of the 2012 regular deer season.

| Hunting Unit | 2012 Hunter Obs. Buck:Doe:Fawn (Sample Size) |
|---|---|
| Turtle Mountains 1 | 0.24:1:0.82 (53:222:181) |
| Red River All Units | 0.22:1:0.51 (259-1173-598) |
| 2A | 0.57:1:0.53 (30-53-28) |
| 2B | 0.39:1:0.44 (22:573:253) |
| 2C | 0.38:1:0.58 (207-547-317) |
| Pembina Hills 2D | 0.43:1:0.63 (130-304-191) |
| Sheyenne-James River All Units | 0.37:1:0.47 (1047-2836-1326) |
| 2F1 | 0.38:1:0.61 (251-659-402) |
| 2F2 | 0.34:1:0.37 (238-710-263) |
| 2G | 0.35:1:0.40 (118-340-135) |
| 2G1 | 0.34:1:0.46 (207-617-281) |
| 2G2 | 0.46:1:0.48 (233-510-245) |
| Devils Lake 2L | 0.43:1:0.52 (269-630-327) |
| Coteau Hills All Units | 0.44:1:0.55 (1454-3304-1806) |
| 2E | 0.38:1:0.48 (128-336-161) |
| 2H | 0.43:1:0.58 (228-525-305) |
| 2I | 0.45:1:0.47 (315-696-328) |
| 2J1 | 0.41:1:0.18 (7-17-3)*** |
| 2J2 | 0.47:1:0.58 (308-661-382) |

Table 6a (Continued).

| Hunting Unit | 2012 Hunter Obs. Buck:Doe:Fawn (Sample Size) |
|--------------------------------------|---|
| Coteau Hills 2K1 | 0.49:1:0.62 (133-273-168) |
| 2K2 | 0.43:1:0.52 (269-630-327) |
| 3A1 | 0.0:1:0.0 (0-0-0) |
| 3A3 | 0.40:1:0.80 (66-166-132) |
| Souris Des Lacs All Units | 0.35:1:0.54 (321-909-494) |
| 3A2 | 0.30:1:0.36 (147-494-180) |
| 3A4 | 0.42:1:0.76 (174-415-314) |
| Missouri River All Units | 0.43:1:0.56 (552-1270-707) |
| 3B1 | 0.0:1:0.0 (0-0-0) |
| 3B2 | 0.0:1:0.0 (0-0-0) |
| 3B3 | 0.46:1:0.63 (265-570-357) |
| 3C | 0.41:1:0.50 (287-700-350) |
| Slope All Units | 0.38:1:0.44 (2097-5563-2470) |
| 3D1 | 0.0:1:0.0 (0-0-0) |
| 3D2 | 0.31:1:0.31 (4-13-4) ^{***} |
| 3E1 | 0.42:1:0.49 (377-902-446) |
| 3E2 | 0.62:1:0.76 (371-603-461) |
| 3F1 | 0.30:1:0.43 (606-2022-869) |
| 3F2 | 0.37:1:0.34 (739-2023-690) |

Table 6a. (Continued).

| Hunting Unit | 2012 Hunter Obs. Buck:Doe:Fawn (Sample Size) |
|--|---|
| Badlands All Units (All Hunters) | 0.23:1:0.39 (122-521-205) |
| 4A (All Hunters) | 0.0:1:0.0 (0-0-0) |
| 4B (All Hunters) | 0.0:1:0.0 (0-0-0) |
| 4C (All Hunters) | 0.0:1:0.0 (0-0-0) |
| 4D (All Hunters) | 0.0:1:0.0 (0-0-0) |
| 4E (All Hunters) | 0.0:1:0.0 (0-0-0) |
| 4F (All Hunters) | 0.23:1:0.39 (122-521-205) |
| Statewide (All Hunter Observations) | 0.38:1:0.50 (6536-17111-8586) |

*** Small Sample

Table 7a. Summary of mule deer buck:doe:fawn ratios based upon fall 2012 aerial survey and observations by hunters during the first Saturday and Sunday of the 2012 regular deer season.

| Hunting Unit | Fall 2012 Aerial Survey Buck:Doe:Fawn (Sample Size) | 2012 Hunter Obs. Buck:Doe:Fawn (Sample Size) |
|-------------------------------------|--|---|
| Missouri River All Units | NA | 0.28:1:0.55 (46-163-90) (All Hunters) |
| 3B1 | NA | 0.0:1:0.0 (0-0-0) |
| 3B2 | NA | 0.0:1:0.0 (0-0-0) |
| 3B3 | NA | 0.21:1:0.59 (12-56-33) |
| 3C | NA | 0.32:1:0.53 (34-107-57) |
| Slope All Units | NA | 0.30:1:0.32 (367-1225-386) (All Hunters) |
| 3D1 | NA | 0.0:1:0.0 (0-0-0) |
| 3D2 | NA | 0.20:1:0.20 (2-10-2)*** |
| 3E1 | NA | 0.28:1:0.16 (54-192-30) |
| 3E2 | NA | 0.45:1:0.42 (60-134-56) |
| 3F1 | NA | 0.27:1:0.29 (121-442-126) |
| 3F2 | NA | 0.27:1:0.36 (130-447-172) |

*** Small Sample

Table 7a. (Continued).

| Hunting Unit | Fall 2012 Aerial Survey Buck:Doe:Fawn (Sample Size) | 2012 Hunter Obs. Buck:Doe:Fawn (Sample Size) |
|-------------------------------|--|---|
| Badlands All Units | 0.34:1:0.59 (233-623-368) | 0.26:1:0.63 (10-38-24)*** |
| 4A | 0.34:1:0.65 (32-94-61) | 0.0:1:0.0 (0-0-0) |
| 4B | 0.42:1:0.55 (48-114-63) | 0.0:1:0.0 (0-0-0) |
| 4C | 0.29:1:0.70 (23-80-56) | 0.0:1:0.0 (0-0-0) |
| 4D | 0.38:1:0.58 (77-205-119) | 0.0:1:0.0 (0-0-0) |
| 4E | 0.38:1:0.78 (27-72-56) | 0.0:1:0.0 (0-0-0) |
| 4F | 0.45:1:0.22 (26-58-13) | 0.26:1:0.63 (10-38-24)*** |
| Statewide | NA | 0.30:1:0.34 (458-1520-521) (All Hunters) |

*** Small Sample

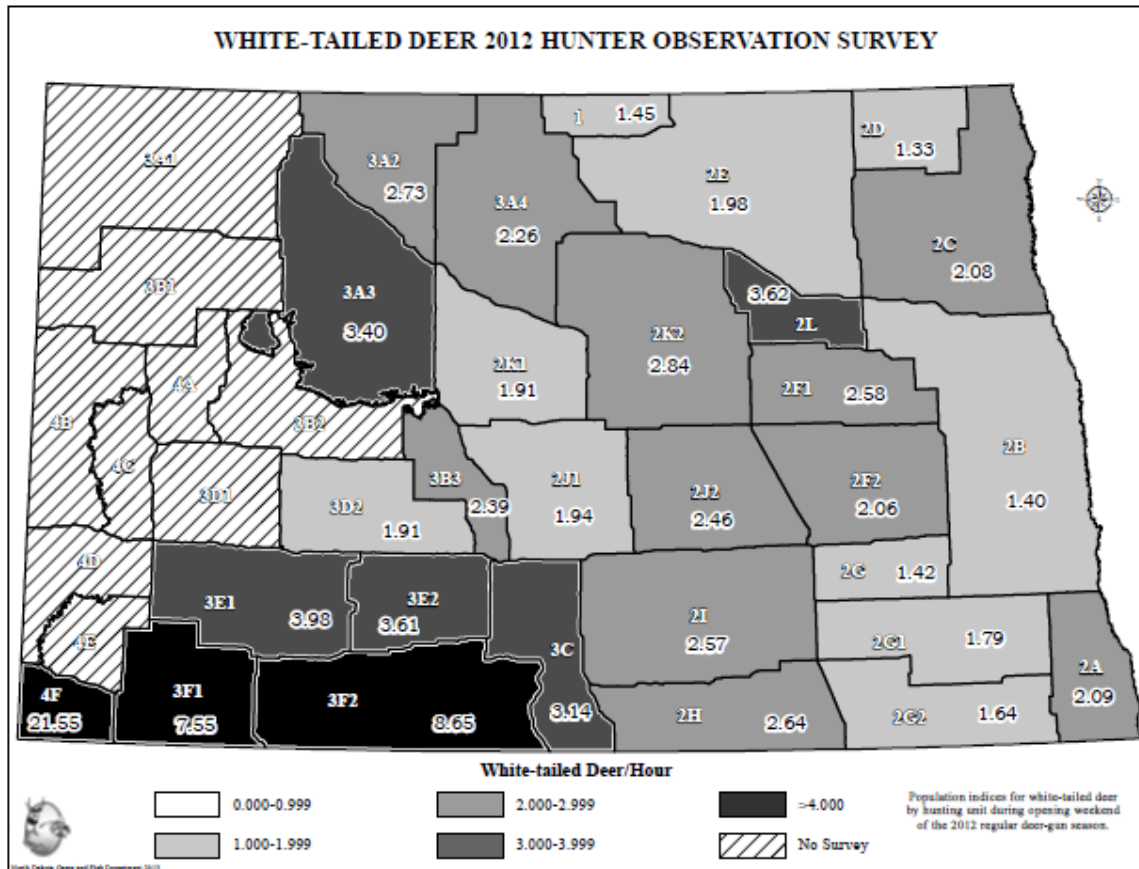


Figure 1. Map of North Dakota illustrating the use of observation rates by hunters (white-tailed deer sighted/hour of effort spent hunting) as a population index for each deer-hunting unit. Hunter observations were made during the first Saturday and Sunday of the regular 2012 deer-gun season. Year-to-year changes in hunter observation rates have been monitored statewide for white-tailed deer population trends since 2004.

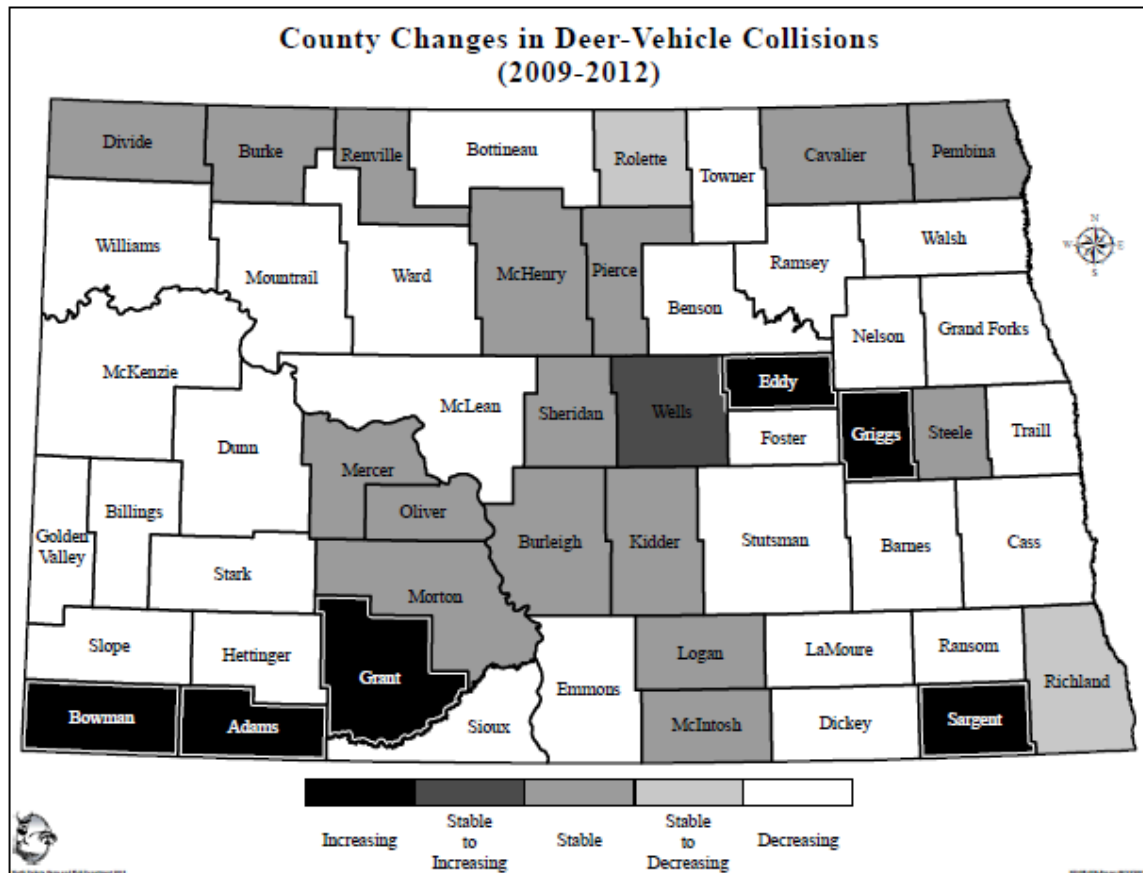


Figure 2. Map of North Dakota illustrating trends in Deer-Vehicle Collisions (DVC) as a population index for each county (2009-2012). Year-to-year changes in DVC rates have been monitored statewide for deer population trends since 2001.

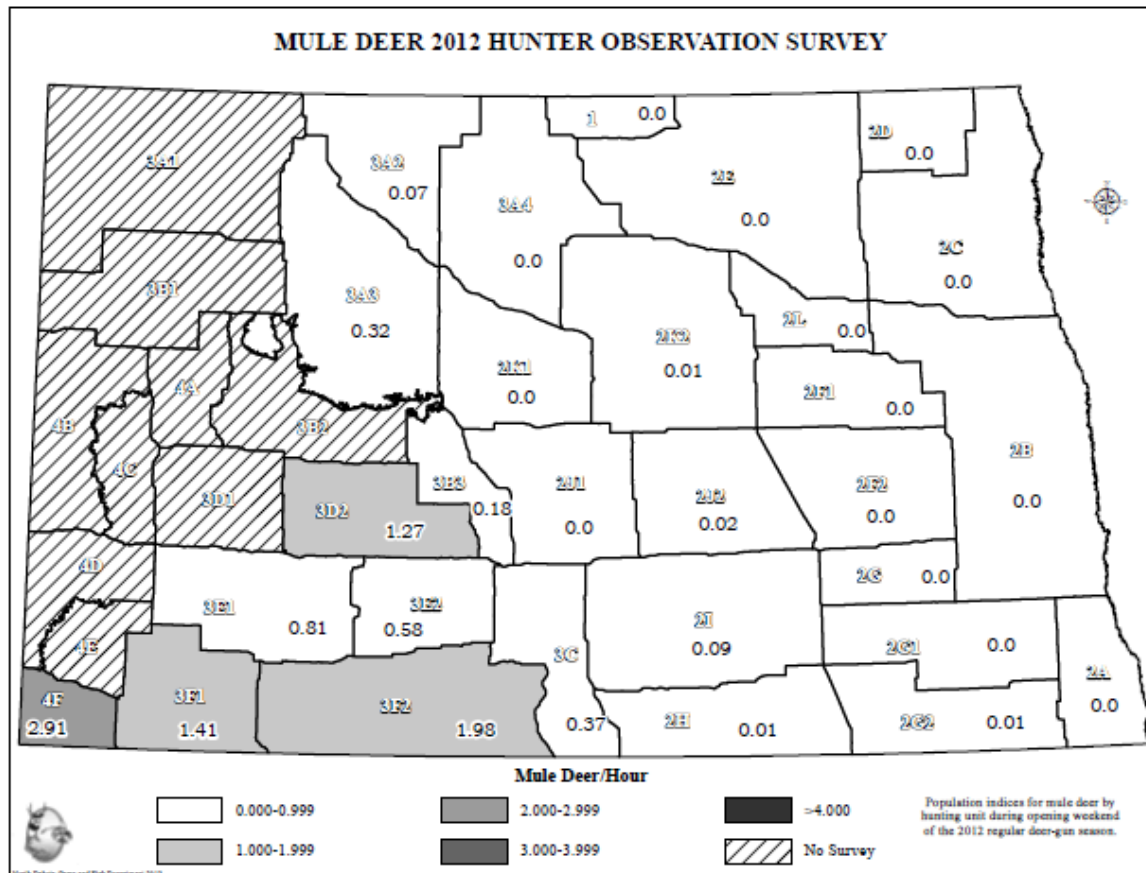


Figure 3. Map of North Dakota illustrating the use of observation rates by hunters (mule deer sighted/hour of effort spent hunting) as a population index for each deer-hunting unit. Hunter observations were made during the first Saturday and Sunday of the regular 2012 deer-gun season. Year-to-year changes in hunter observation rates have been monitored for mule deer population trends in the Badlands units (4A – 4F) since 1998, and statewide since 2004.

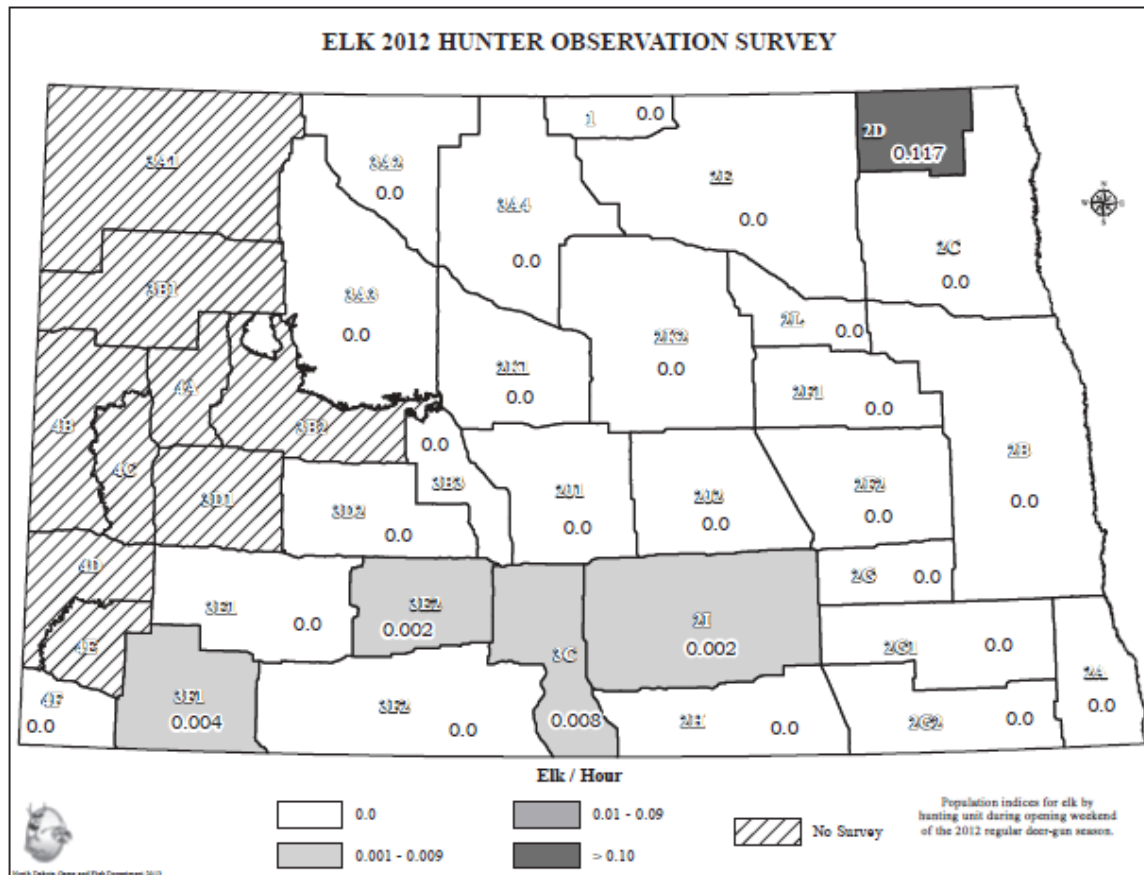


Figure 4. Map of North Dakota illustrating the use of observation rates by hunters (elk sighted/hour of effort spent hunting) as a population index for each deer-hunting unit. Hunter observations were made during the first Saturday and Sunday of the regular 2012 deer-gun season. Year-to-year changes in hunter observation rates have been monitored statewide for elk population trends since 2007.

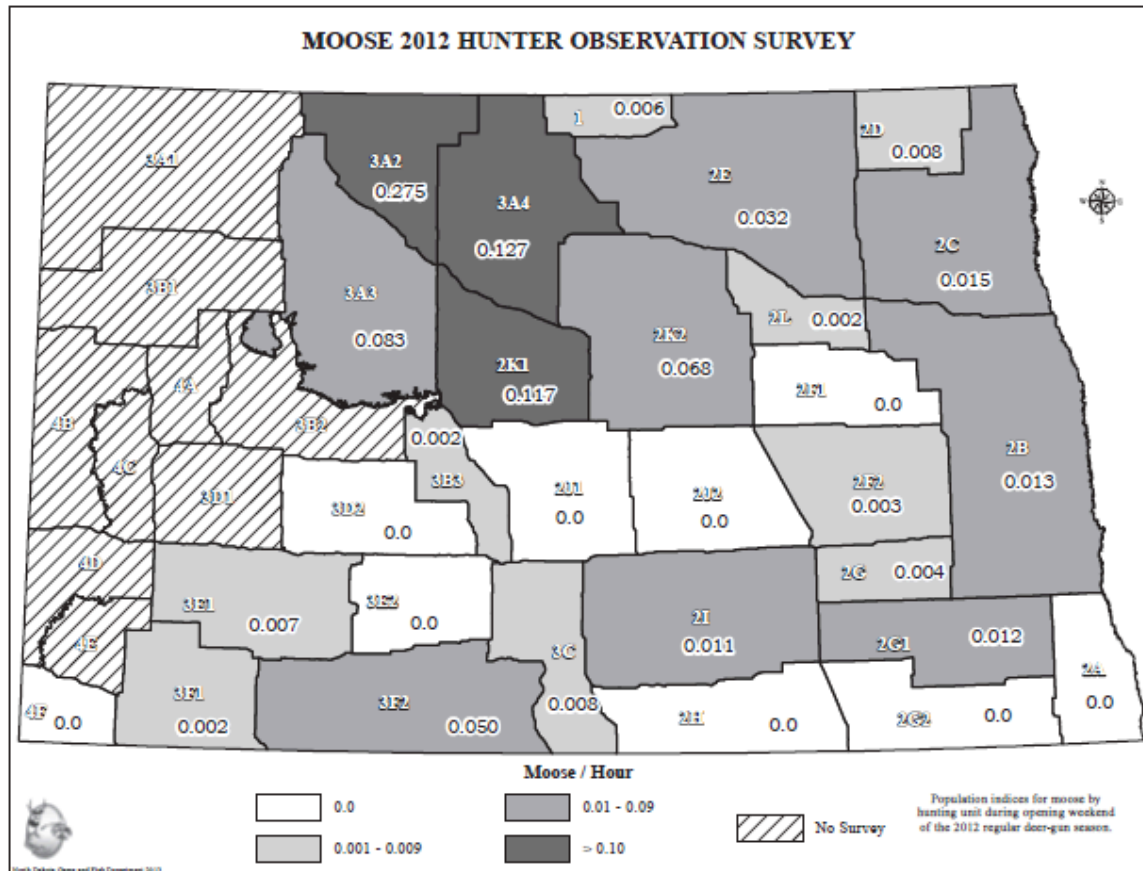


Figure 5. Map of North Dakota illustrating the use of observation rates by hunters (moose sighted/hour of effort spent hunting) as a population index for each deer-hunting unit. Hunter observations were made during the first Saturday and Sunday of the regular 2012 deer-gun season. Year-to-year changes in hunter observation rates have been monitored statewide for moose population trends since 2007.