



2012 VERMONT WILDLIFE HARVEST REPORT - MOOSE



FISH & WILDLIFE DEPARTMENT
(802) 241-3700 / www.vtfishandwildlife.com



2012 VERMONT MOOSE HARVEST REPORT

Most of the programs described in this report are funded through the *Federal Aid in Wildlife Restoration Program*. This program was initiated in 1937 as the Federal Aid in Wildlife Act and created a system whereby taxes are paid on firearms, ammunition and archery equipment by the public who hunts. Today this excise tax generates more than one hundred million dollars each year that are dedicated to state wildlife restoration and management projects across the United States. The State of Vermont uses these monies for acquiring land, and for restoring and managing wildlife. These excise tax dollars, coupled with state hunting license fees, have been the predominant source of money funding the successful restoration and management of Vermont’s wildlife resources.

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Vermont Fish & Wildlife Department

Agency of Natural Resources
1 National Life Drive, Davis 2
Montpelier, Vermont 05620-3702
(802) 241-3700 / www.vtfishandwildlife.com

2012 Moose Report

Two hundred and twenty-two moose were harvested in Vermont's 2012 moose seasons. Seventeen moose were taken during archery-only season and 205 in the regular season. An estimated combined total of over 33 tons (66,600 lbs) of moose venison was harvested.



Archery Season

Vermont held its second annual archery-only moose season in 2012. Fifty permits were issued and 17 moose were harvested. A total of 1,658 valid applications were received for the archery season lottery (1191 residents and 467 non-residents). Ninety percent of the lottery permits (45) were allocated to residents and the remaining 10 percent (5) to nonresidents.

Harvest Dates & Success Rates

The archery moose season ran for seven days, from October 1-7, during the peak of the moose rutting season. Bulls are more responsive to calling at this time of year compared to mid-October, thus increasing the odds that bow hunters are able to call in moose to within shooting distance. Thirty-five percent of the moose were taken on opening weekend (Table 1), and the overall success rate was 34 percent. Success rates by WMU are given in Table 2.

TABLE 1. 2012 ARCHERY MOOSE HARVEST BY DAY OF SEASON

| Season Day | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|-----------------|---|---|---|---|---|---|---|
| Moose Harvested | 6 | 2 | 3 | 1 | 2 | 1 | 2 |

TABLE 2. 2012 VERMONT ARCHERY MOOSE HUNTER SUCCESS RATES BY WMU

| WMU | Bulls | Cows | Male Calves | Female Calves | Total Harvest | Permits Issued | 2012 Percent Success | 2011 Percent Success |
|--------|-------|------|-------------|---------------|---------------|----------------|----------------------|----------------------|
| C | 1 | | | | 1 | 5 | 20 | 67 |
| D1 | 2 | | | | 2 | 3 | 67 | 0 |
| D2 | 4 | | | | 4 | 8 | 50 | 50 |
| E1 | 6 | 1 | | | 7 | 17 | 41 | 26 |
| E2 | | 1 | | | 1 | 6 | 17 | 22 |
| H1 | | | | | 0 | 2 | 0 | 100 |
| I | | | | | 0 | 1 | 0 | 25 |
| J1 | | | | | 0 | 1 | 0 | - |
| J2 | | | | | 0 | 2 | 0 | - |
| L | | | | | - | - | - | 0 |
| M | | | | | 0 | 1 | 0 | 0 |
| O | | 1 | | | 1 | 2 | 50 | - |
| P | 1 | | | | 1 | 2 | 50 | 50 |
| Totals | 14 | 3 | 0 | 0 | 17 | 50 | 34 | 30 |

Harvest Data

The Vermont Fish & Wildlife Department does not operate biological check stations during the moose archery season because with the low permit numbers and statewide distribution of the archers, it would not be cost effective to staff check stations. Instead, successful moose archers may report their kill to any authorized regular big game reporting station. Some of these stations are set up to weigh moose, and most also recorded antler spreads and point totals from the bulls. These data are presented in Table 3. Fourteen

Scouting

Moose hunter surveys were returned by 24 of the 50 permittees, and all but 2 respondents reported that they scouted prior to the hunting season. Average time spent scouting by those who scouted was 32.6 hours per party, and the average number of moose seen per hour scouted was 0.099, or approximately 1 moose seen for every 10 hours of scouting effort.

Hunting Information

All but 4 of the 24 survey respondents saw at least 1 moose during the open season; the total seen was 65 moose. Eight different hunters passed up on 14 moose (4 cows, 8 bulls, and 2 calves). Four of these hunters eventually tagged a moose and four did not. Hunting methods used included calling (24 hunters), still hunting (21), tracking (11), ground blinds (7), tree stands (1) and scent lures (1).

(82 percent) of moose taken were adult bulls and 3 (18 percent) were adult cows. Scaled carcass weights were obtained for 9 moose, with 3 bulls weighing more than 800 pounds. The widest spread recorded was 57.5 inches on a bull taken in Averill. Fifteen moose were taken by residents and two by nonresidents (from Massachusetts and New Hampshire).

TABLE 3. 2012 VERMONT LEGAL MOOSE ARCHERY SEASON HARVEST DATA

| Last Name | WMU | Town of Kill | Age Class | Cementum Age | Sex | Weight (lbs) | Spread in Inches | Total Points |
|------------|-----|--------------|-----------|--------------|-----|--------------|------------------|--------------|
| BAKER | D2 | VICTORY | Adult | | M | 611 | 41 | 8 |
| BRAULT | E1 | BLOOMFIELD | Adult | | M | - | 12.5 | 4 |
| CAMPAGNA | E1 | AVERILL | Adult | | M | 868 | 57.5 | 12 |
| EWEN | D2 | SHEFFIELD | Adult | | M | 354 | 18 | 3 |
| GONYEAU | E1 | NORTON | Adult | 2 | M | 526 | 31 | 9 |
| JAFFARIAN | E1 | AVERILL | Adult | 1 | M | - | 21.5 | 3 |
| LAROCK | E1 | BLOOMFIELD | Adult | | M | - | 36 | 6 |
| LASKEY | D1 | EDEN | Adult | | M | - | | |
| LEMOINE JR | E2 | MAIDSTONE | Adult | | F | 575 | | |
| MACLAREN | E1 | LEMINGTON | Adult | | M | 745 | 41.5 | 11 |
| MAYO | D1 | GREENSBORO | Adult | | M | 809 | 46.5 | 17 |
| MORIN | D2 | HOLLAND | Adult | 8 | M | 834 | 43.5 | 11 |
| NORRIS | C | EDEN | Adult | | M | - | 40 | 8 |
| RHODES | P | SOMERSET | Adult | | M | - | 36 | 15 |
| WAITE | E1 | LEWIS | Adult | 4 | F | 582 | | |
| WOODRUFF | O | WINDHAM | Adult | | F | - | | |
| YOUNG | D2 | SHEFFIELD | Adult | | M | - | | 2 |

TABLE 4. 2012 VERMONT MOOSE HARVEST DISTRIBUTION BY DATE, SEX AND AGE CLASS

| Date | Bulls | Cows | Calves | Total | Percent |
|---------------|------------|-----------|-----------|------------|------------|
| October 15 | 42 | 13 | 2 | 57 | 28 |
| October 16 | 31 | 19 | - | 50 | 24 |
| October 17 | 22 | 13 | 2 | 37 | 18 |
| October 18 | 11 | 14 | 5 | 30 | 15 |
| October 19 | 6 | 10 | 1 | 17 | 8 |
| October 20 | 4 | 8 | 2 | 14 | 7 |
| Totals | 116 | 77 | 12 | 205 | 100 |

Regular Season

A total of 10,603 valid applications were received for the 2012 Vermont regular moose season lottery (8,279 residents and 2,324 nonresidents). Unsuccessful applicants from the previous seasons were awarded bonus points if they applied again in 2012. Ninety percent of the lottery permits (349) were allocated to residents and the remainder (36) to nonresidents. Five additional permits won by bidders through an auction process, one special opportunity moose hunt permit issued to a youth through a sponsoring organization, and one deferment carried over from 2011 resulted in a total of 392 either-sex permits being issued across 17 Wildlife Management Units (WMUs). No permits for antlerless moose were issued in 2012.

Harvest Dates & Success Rates

Vermont's 20th moose season began on the third Saturday in October (20th) and ran for 6 days. Fifty-seven moose were taken on opening day (Table 4). Overall success rate was 52 percent, down from 58 percent the previous year, likely due to reduced moose densities and unseasonably warm temperatures that prevailed throughout much of the season. On opening day the overnight low at 2000' elevation in Wheelock, for example, was only 56°F and reached 65°F in the shade by mid-day. Success rates by WMU are given in Table 5.

Biological Data

One hundred sixteen (57 percent) of moose taken were bulls, 77 (38 percent) were cows, and 12 (6 percent) were calves (5 males and 7 females). Completely dressed carcass weights were obtained from 180 moose, or 88 percent of the total harvest. Ten bulls weighed more than 750 lbs but only two weighed more than 800 lbs. The largest was an 834 lb, five-year-old bull taken in Bloomfield. The average completely dressed weight of 4 male calves, 14 yearling bulls and 91 older bulls was 250, 414 and 634 lbs, respectively. The widest spread was 62 inches on an eight-year-old bull taken in Warren Gore.

The heaviest cow was a 761-lb three-year-old taken in Elmore and was the 6th heaviest Vermont cow on record. The average weight of 5 female calves, 9 yearling cows and 57 older cows was 232, 378 and 545 lbs, respectively. Average weights of yearling cows for the past 15 years are shown in Figure 1. After a steady decline over a decade, likely due to moose densities in the Northeast Kingdom exceeding the carrying capacity of the habitat, yearling cow weights rebounded from 2008 to 2010 as moose numbers were brought under control. During the last 2 years however, yearling cow weights have dropped to the lowest average ever recorded in Vermont.

The drop in yearling cow weights also occurred in New Hampshire, and moose project staffs from both states believe a severe winter tick infestation combined with deep snows in March and April of 2011 put many moose under stress and contributed to declines in physical indices. Calves born the following spring may have been underweight and/or may have grown slowly due to lactation deficiencies; indeed, bull and cow calves averaged only 219 and 209 lbs, respectively, in 2011. These mean weights were 33 and 13 lbs lighter than the long-term average for bull and cow calves, respectively. Although these small calves apparently were still underweight as yearlings, the good news is that calves born in 2012 grew to robust weights by the mid-October hunting season.

Complete sets of paired ovaries collected from 39 cows were sectioned and examined for evidence of ovulation. The ovulation rates (with 2011 rates shown in parentheses) were 0.0 ova/cow for 5 yearlings (0.25), 1.0 for 10 two-year-olds (1.0), and 1.04 for 24 cows >3 years old (0.76). In healthy populations, prime-age cows (>3 years old) generally have

TABLE 5. 2012 VERMONT MOOSE HUNTER SUCCESS RATES BY WMU

| WMU | Bulls | Cows | Male Calves | Female Calves | Total Harvest | Permits Issued | 2012 Percent Success | 2011 Percent Success |
|---------------|------------|-----------|-------------|---------------|---------------|----------------|----------------------|----------------------|
| B | - | 2 | | | 2 | 5 | 40 | 40 |
| C | 10 | 7 | 1 | | 18 | 31 | 58 | 83 |
| D1 | 14 | 11 | 1 | | 26 | 39 | 67 | 35 |
| D2 | 14 | 4 | 2 | 1 | 21 | 39 | 54 | 64 |
| E1 | 19 | 26 | 1 | | 46 | 76 | 60 | 65 |
| E2 | 12 | 7 | | 2 | 21 | 31 | 68 | 77 |
| G | - | 2 | | | 2 | 10 | 20 | 40 |
| H1 | 10 | 2 | | | 12 | 36 | 33 | 52 |
| H2 | 1 | 1 | | | 2 | 10 | 20 | 80 |
| I | 7 | 2 | | 1 | 10 | 21 | 48 | 70 |
| J1 | 6 | - | | | 6 | 15 | 40 | 33 |
| J2 | 5 | 2 | | | 7 | 19 | 37 | 45 |
| L | 3 | 2 | | 1 | 6 | 10 | 60 | 70 |
| M | 7 | 7 | | 2 | 16 | 25 | 64 | 44 |
| O | 4 | 2 | | | 6 | 10 | 60 | 70 |
| P | 2 | - | | | 2 | 10 | 20 | 40 |
| Q | 2 | - | | | 2 | 5 | 40 | 20 |
| Totals | 116 | 77 | 5 | 7 | 205 | 392* | 52 | 58 |

*Includes 5 auctioned and 1 special opportunity moose hunt permits

FIGURE 1. YEARLING COW CARCASS WEIGHTS

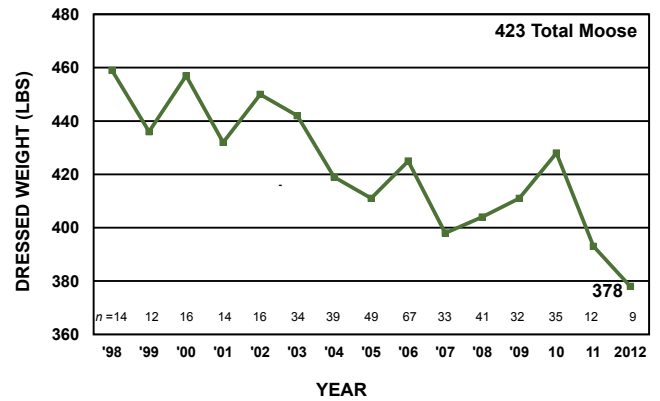
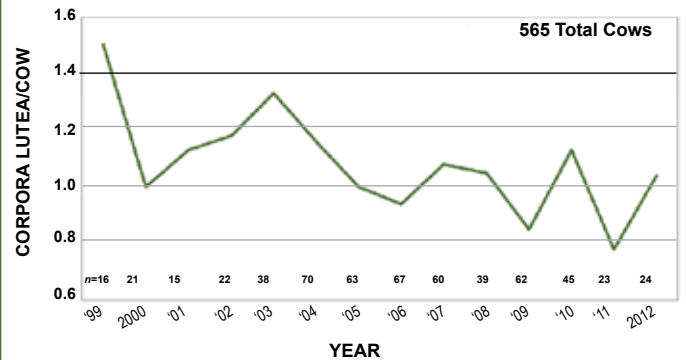
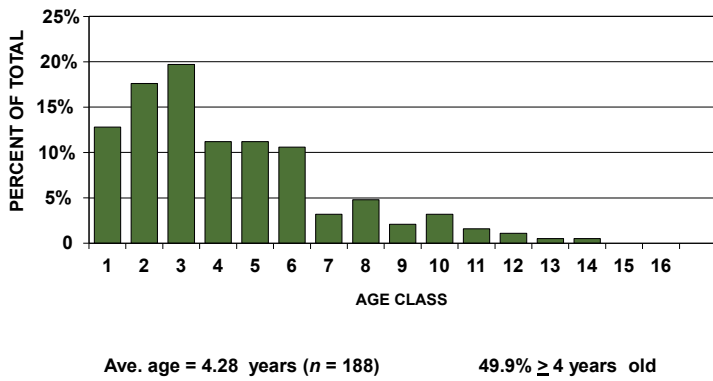


FIGURE 2. OVULATION RATE FOR LEGALLY HARVESTED COWS 1999 - 2012



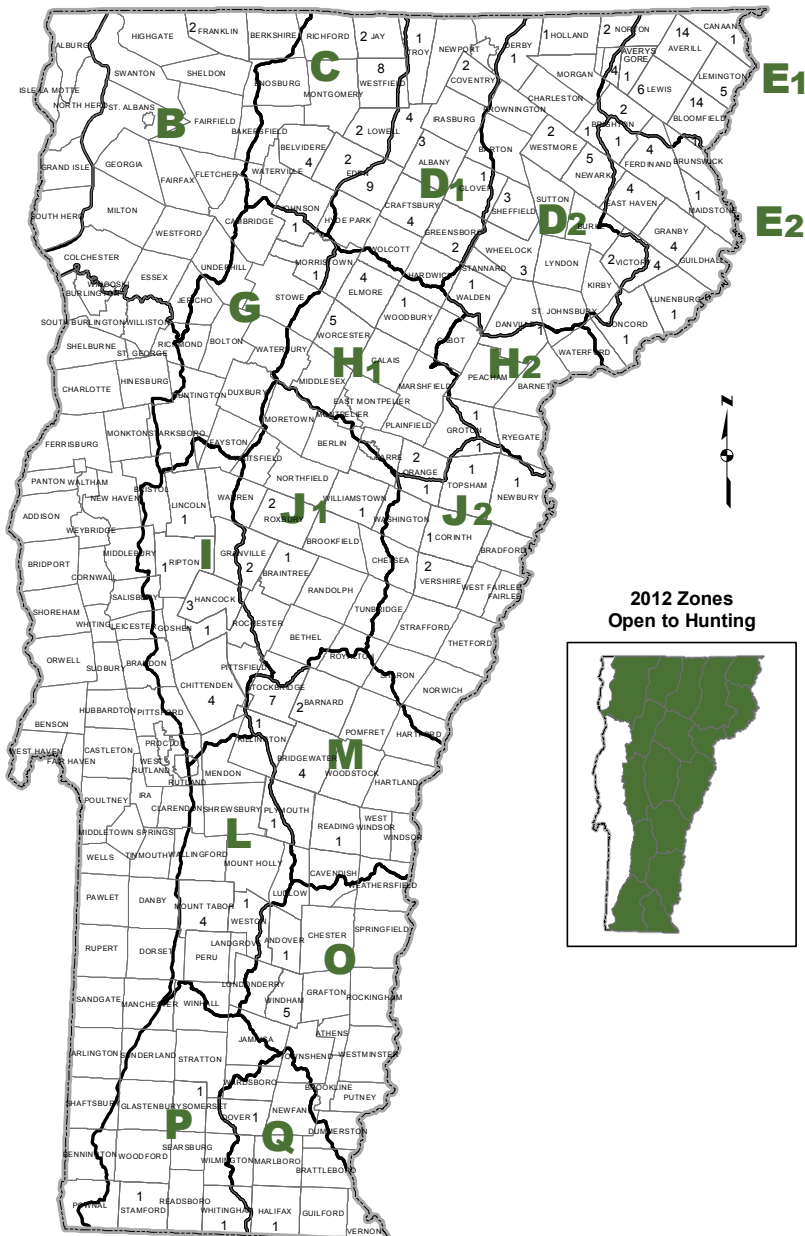
**FIGURE 3. VERMONT MOOSE AGED BY CEMENTUM ANNULI
2012 LEGAL HARVEST**



average ovulation rates from 1.25 to 1.75 ova/cow, and rates under 1.15 are indicative of a moose population that has exceeded the carrying capacity of the habitat.

Figure 2 shows annual statewide ovulation rates for prime-age cows during the past 14 years. Similar to body weights, ovulation rates had finally rebounded in 2010 after several years of decline. The 2011 decline in the ovulation rate for cows > 3 years old to 0.76 corpora lutea/cow is again suspected to have been caused by deep snows and our most severe winter tick infestation on record. Although none of the yearling cows sampled in 2012 had ovulated, the increase in both the average body weight of cows > 3 years old (545 lbs up from 525) and their ovulation rate (1.04 ova/cow up from 0.76) is encouraging.

FIGURE 4. 2012 VERMONT MOOSE HARVEST BY TOWN AND WMU



A central incisor was also collected from 188 adult moose, then cleaned and shipped to Matson's lab in Montana for aging by the counting of cementum annuli. The average age of all adult moose was 4.28 years (Figure 3). Only 13 percent of all adult moose were yearlings; the lowest yearling percentage ever and another indication of a poor calf crop and/or survival from the previous year. Fifty percent of adults were > 4 years of age, which is well above the minimum goal of 25 percent as called for in the 10-year Big Game Plan. The two oldest moose were 14 years old (1 of each sex).

Town of Kill

Moose were taken in 70 different towns. The towns with the highest harvests were Bloomfield (15), Averill (14), Eden (11), Westfield (8) and Stockbridge (7). Figure 4 shows the geographic distribution of the moose harvest by township and WMU.

Scouting

Moose hunter surveys were returned by 238 of the 392 permittees, 227 (95 percent) of whom reported that they scouted prior to the hunting season. Average time spent scouting was 26 hours/party, and the average number of moose seen per hour scouted was 0.079, or approximately 1 moose seen for every 13 hours of scouting effort. A comparison of scouting data between WMUs and previous years is presented in Table 6.

Successful Hunters

Fifty-four and 39 percent of resident and nonresident permits, respectively, were successfully filled. The 16 successful nonresident permittees hailed from 9 different

TABLE 6. MOOSE SEEN PER HOUR SCOUTED BY 227 HUNTERS WHO SCOUTED, 2012 VERMONT MOOSE HUNT

| WMU | Number Scouting | Moose Seen | Hours Scouted | Moose/Hr Scouted (MSHS) 2012 | Moose/Hr Scouted (MSHS) 2011 | MSHS 2010 | MSHS 2009 | Hours/Hunter Scouting |
|---------|-----------------|------------|---------------|------------------------------|------------------------------|-----------|-----------|-----------------------|
| B | 2 | 1 | 56 | 0.02 | 0.00 | 0.07 | 0.04 | 28 |
| C | 20 | 64 | 500 | 0.13 | 0.11 | 0.07 | 0.09 | 25 |
| D1 | 23 | 35 | 589 | 0.06 | 0.05 | 0.16 | 0.05 | 26 |
| D2 | 21 | 55 | 406 | 0.14 | 0.09 | 0.08 | 0.08 | 19 |
| E1 | 46 | 139 | 1,071 | 0.13 | 0.09 | 0.11 | 0.13 | 23 |
| E2 | 19 | 34 | 378 | 0.09 | 0.09 | 0.06 | 0.08 | 20 |
| G | 7 | 3 | 240 | 0.01 | 0.02 | 0.07 | 0.06 | 34 |
| H1 | 14 | 14 | 297 | 0.05 | 0.04 | 0.07 | 0.09 | 21 |
| H2 | 4 | 2 | 58 | 0.03 | 0.02 | 0.01 | 0.00 | 14 |
| I | 11 | 28 | 387 | 0.07 | 0.06 | 0.10 | 0.09 | 35 |
| J1 | 6 | 2 | 96 | 0.02 | 0.09 | 0.04 | 0.03 | 16 |
| J2 | 10 | 4 | 256 | 0.02 | 0.02 | 0.22 | 0.06 | 26 |
| L | 8 | 16 | 296 | 0.05 | 0.06 | 0.01 | 0.06 | 37 |
| M | 19 | 10 | 536 | 0.02 | 0.06 | 0.06 | 0.04 | 28 |
| O | 7 | 50 | 255 | 0.20 | 0.06 | 0.12 | 0.12 | 36 |
| P | 8 | 4 | 280 | 0.01 | 0.02 | 0.06 | 0.05 | 35 |
| Q | 2 | 2 | 125 | 0.02 | 0.10 | 0.01 | 0.07 | 62 |
| Totals | 227 | 463 | 5,826 | 0.079 | 0.066 | 0.084 | 0.083 | 26 |
| E1 & E2 | 65 | 173 | 1,449 | 0.12 | 0.091 | 0.085 | 0.105 | 22 |

states or provinces as follows: NY (3), CT and FL (2 each), and one each from ME, MI, NH, PA, TX, and QC. Subpermittees took 40 (19.5 percent) of the moose killed. Two-hundred and two moose were taken with rifles and the remaining 3 with muzzleloaders. Physical measurements from harvested moose are shown in Table 8 (males) and Table 9 (females).

Unsuccessful Hunters

Overall, 187 hunters were unsuccessful, and 76 (41 percent) of them returned a survey. Thirty-four percent of these unsuccessful hunters did not hunt all available days. The number of days hunted by the 76 respondents is shown in the Table7.

Thirty-two (45 percent) of the responding unsuccessful hunters saw a total of 90 moose, and 15 (or 20 percent of all unsuccessful hunters who hunted at least 1 day) passed up 31 moose that they believed they could have taken (3 bulls, 19 cows, and 9 calves).

TABLE 7. NUMBER OF DAYS HUNTED BY 76 UNSUCCESSFUL HUNTERS

| DAYS HUNTED | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|--------------------|---|---|---|---|---|----|----|
| NO. OF RESPONDENTS | 1 | 0 | 3 | 7 | 5 | 10 | 50 |

TABLE 8. 2012 VERMONT MOOSE LEGAL HARVEST DATA—BULLS ONLY

| Last Name | WMU | Town Of Kill | Age | Weight | Beam Diameter | Points/Left | Points/Right | Spread |
|--------------|-----|--------------|-----|--------|---------------|-------------|--------------|--------|
| AUSTIN | H1 | WORCESTER | 1 | 458 | 28 | 1 | 1 | 22.5 |
| BABCOCK | E1 | LEWIS | 0.5 | 238 | | -- | -- | -- |
| BAILEY | H1 | WOODBURY | 3 | 606 | 44 | 4 | 4 | 31 |
| BALCH | M | BRIDGEWATER | 4 | 670 | 52 | 10 | 7 | 43 |
| BANDY | E2 | EAST HAVEN | 4 | 705 | 53 | 9 | 10 | 44.5 |
| BARRETT | D2 | SHEFFIELD | 4 | 639 | 44 | 5 | 5 | 39 |
| BARRY | C | LOWELL | 2 | 512 | 43 | 3 | 3 | 29.5 |
| BARTLETT | Q | HALIFAX | 6 | 692 | 55 | 8 | 6 | 58.5 |
| BARUP | C | BELVIDERE | 3 | 582 | 42 | 8 | 5 | 33 |
| BATHALON | C | WESTFIELD | 5 | 743 | 56 | 10 | 10 | 50.5 |
| BISHOP | I | HANCOCK | 3 | 623 | 45 | 5 | 4 | 31 |
| BLAISDELL | J1 | WILLIAMSTOWN | 2 | 512 | 41 | 2 | 3 | 25.5 |
| BOISSONEAULT | C | EDEN | 4 | -- | 44 | 4 | 3 | 34.5 |
| BORRELL JR | D1 | GREENSBORO | 2 | 463 | 33 | 2 | 1 | -- |
| BOYLAN | E2 | GRANBY | 8 | 614 | 47 | 4 | 4 | 40.5 |
| BRAINARD | D2 | NEWARK | 10 | 708 | 47 | 7 | 10 | 47 |
| BRAULT | E2 | FERDINAND | -- | 793 | 51 | 9 | 9 | 44 |
| BROOKES | O | WINDHAM | 1 | 447 | 37 | 2 | 3 | 24 |
| BROWN | O | WINDHAM | 3 | 609 | 50 | 2 | 3 | 35 |
| BROWN | E1 | AVERILL | 5 | 615 | 43 | 6 | 4 | 35 |
| BRUNELLE | D2 | WHEELLOCK | 4 | 643 | 48 | 4 | 5 | 34 |
| BRUNELLE | O | ANDOVER | 5 | 683 | 57 | 7 | 9 | 40.5 |
| BUCK | D2 | WHEELLOCK | 1 | 412 | 39 | 2 | 2 | 24 |
| BUSWELL | L | PLYMOUTH | 3 | 549 | 48 | 7 | 4 | 37 |
| CARTONIA | E1 | LEWIS | 4 | -- | 45 | 5 | 6 | 37 |
| CASTRO | J2 | VERSHIRE | 3 | 591 | 40 | 4 | 4 | 32.5 |
| CHADWICK | H1 | WORCESTER | 5 | 637 | 50 | 4 | 4 | 43.5 |
| CHAPIN | O | WINDHAM | 5 | 634 | 50 | 5 | 5 | 34 |
| CHRISTENSEN | D1 | EDEN | 1 | 406 | 35 | 1 | 2 | 20.5 |
| DAGGETT | D2 | NORTON | 3 | 642 | 48 | 5 | 6 | 33 |
| DAVIS | E2 | VICTORY | 5 | 713 | 50 | 7 | 8 | 36 |
| DECOSTER | D1 | ALBANY | 8 | 780 | 59 | 10 | 10 | 55 |
| DIX | E1 | BRIGHTON | 2 | 572 | 33 | 3 | 4 | 26 |
| DRISCOLL | E1 | LEMINGTON | 3 | 531 | 43 | 4 | 4 | 32.5 |
| DROWN | D1 | COVENTRY | 6 | 788 | 58 | 9 | 10 | 55.5 |
| DUQUETTE | E1 | AVERILL | 2 | 535 | 41 | 4 | 4 | 30.5 |
| FIELDER | H1 | WORCESTER | 3 | 395 | 32 | 2 | 3 | 24 |
| FLINT | J1 | GRANVILLE | 6 | 772 | 54 | 9 | 4 | 45 |
| FLYNN | D2 | SHEFFIELD | 7 | 660 | 48 | 4 | 5 | 41.5 |
| FOSTER | I | CHITTENDEN | 13 | 715 | 61 | 5 | 9 | 46.5 |
| FOURNIER | E1 | AVERILL | 3 | 588 | 42 | 3 | 4 | 34.5 |
| FRASER | E2 | GRANBY | 3 | 689 | 52 | 6 | 5 | 41 |
| GOODELL | E2 | MAIDSTONE | -- | -- | | -- | -- | -- |
| GRANT | J1 | GRANVILLE | 6 | 731 | 54 | 7 | 7 | 44 |
| GREGOREK | D1 | COVENTRY | 3 | 587 | 44 | 3 | 3 | 29 |
| HAMBLETT | D2 | HOLLAND | 0.5 | 261 | | -- | -- | -- |
| HARDAKER | J2 | GROTON | 3 | 587 | 47 | 4 | 4 | 31 |
| HARTE | D1 | LOWELL | 3 | 591 | 43 | 5 | 4 | 39 |

TABLE 8. 2012 VERMONT MOOSE LEGAL HARVEST DATA—BULLS ONLY

| Last Name | WMU | Town Of Kill | Age | Weight | Beam Diameter | Points/Left | Points/Right | Spread |
|------------|-----|--------------|-----|--------|---------------|-------------|--------------|--------|
| HILL | E1 | AVERILL | 10 | 747 | 56 | 12 | 13 | 53 |
| HILL | I | CHITTENDEN | 11 | 645 | 61 | 3 | 4 | 39 |
| HORVATH | M | BARNARD | 4 | 620 | 49 | 6 | 5 | 36.5 |
| JACKSON | I | ROCHESTER | 1 | 404 | 36 | 2 | 3 | 22 |
| JACOBS | E2 | EAST HAVEN | 3 | 510 | 44 | 5 | 4 | 32.5 |
| JEWETT | E2 | FERDINAND | 6 | 638 | 43 | 5 | 3 | 31.5 |
| JEWETT | C | BELVIDERE | 3 | -- | 41 | 2 | 3 | 31.5 |
| KASTEN | E1 | LEMINGTON | 8 | 730 | 57 | 4 | 8 | 52 |
| KING | E2 | CONCORD | 4 | 684 | 55 | 7 | 5 | 44.5 |
| KINGSBURY | J2 | NEWBURY | 4 | 529 | 35 | 2 | 1 | 31 |
| LADÉAU | E1 | BLOOMFIELD | 2 | 558 | 44 | 2 | 3 | 28 |
| LAGERSTEDT | J1 | ROXBURY | 2 | 535 | 46 | 2 | 3 | 26.5 |
| LAROSE | H1 | ELMORE | 6 | -- | 49 | 6 | 5 | 36 |
| LEACH | D2 | WESTMORE | 2 | 442 | 36 | 2 | 1 | 29 |
| LEONARD | H1 | ORANGE | 9 | 758 | 56 | 6 | 7 | 52 |
| LEONE | P | SOMERSET | 4 | 614 | 55 | 6 | 6 | 42 |
| LUNEAU | D1 | CRAFTSBURY | 1 | 385 | 26 | 1 | 1 | 23 |
| MALINOWSKI | P | STAMFORD | 2 | 524 | 46 | 6 | 6 | 37 |
| MALZAC | I | HANCOCK | 2 | 380 | 25 | 1 | 2 | 23 |
| MASURE | E2 | FERDINAND | 6 | 759 | 54 | 8 | 8 | 45.5 |
| MITCHELL | E1 | BLOOMFIELD | 5 | 644 | 59 | 12 | 12 | 51.5 |
| MORAN | E1 | BLOOMFIELD | 10 | 750 | 45 | 9 | 10 | 40 |
| MORAN | J1 | ROXBURY | 5 | 653 | 43 | 3 | 3 | 33 |
| MYERS | D2 | WHEELOK | 2 | 483 | 42 | 5 | 3 | 31.5 |
| OAKES | E1 | WARREN GORE | 8 | 813 | 61 | 13 | 14 | 62 |
| ODDY | D2 | VICTORY | 2 | 628 | 42 | 7 | 7 | 38 |
| OLDHAM | L | MT TABOR | 5 | 551 | 58 | 5 | 4 | 27.5 |
| OTIS | D1 | CRAFTSBURY | 1 | 388 | 27 | 1 | 2 | 18 |
| PARKER, SR | D2 | BRIGHTON | 6 | 769 | 61 | 3 | 4 | 45 |
| PARKHURST | D1 | EDEN | 5 | 643 | 54 | 9 | 8 | 43 |
| PARRISH | I | HANCOCK | 6 | 699 | 70 | 7 | 7 | 41 |
| PATCH | D1 | EDEN | 6 | 668 | 49 | 5 | 5 | 42 |
| PEPIN | D2 | DERBY | 2 | 656 | 43 | 5 | 6 | 38.5 |
| PERRY | C | WESTFIELD | 0.5 | -- | -- | -- | -- | -- |
| PICHE | D1 | LOWELL | 2 | 603 | 44 | 4 | 5 | 31.5 |
| POWERS | D1 | ALBANY | 0.5 | 246 | -- | -- | -- | -- |
| PRESTON | J1 | BRAINTREE | 3 | 673 | 44 | 6 | 6 | 37.5 |
| PRIOR | M | KILLINGTON | 6 | 679 | 61 | 6 | 7 | 49 |
| RACE | H1 | WORCESTER | 3 | -- | 46 | 7 | 7 | 38 |
| RIENDEAU | C | EDEN | 1 | 398 | 36 | 3 | 3 | 28 |
| RIFF | E1 | BLOOMFIELD | 8 | 676 | 41 | 3 | 2 | 29.5 |
| SAMPSON JR | J2 | TOPSHAM | 3 | 586 | 50 | 7 | 7 | 37 |
| SANDERS | D2 | VICTORY | 2 | 609 | 46 | 6 | 6 | 39 |
| SANDERSON | M | BRIDGEWATER | 1 | 498 | 39 | 4 | 2 | 28.5 |
| SAWYER | M | BRIDGEWATER | 1 | 420 | 41 | 3 | 3 | 24.5 |
| SHULTZ | Q | DOVER | 4 | 705 | 52 | 8 | 6 | 43 |
| SICARD | E1 | AVERILL | 4 | 516 | 41 | 3 | 3 | 28.5 |
| SMITH | D2 | NEWARK | 3 | 671 | 49 | 4 | 4 | 32 |

TABLE 8. 2012 VERMONT MOOSE LEGAL HARVEST DATA—BULLS ONLY

| Last Name | WMU | Town Of Kill | Age | Weight | Beam Diameter | Points/Left | Points/Right | Spread |
|-------------|-----|--------------|-----|--------|---------------|-------------|--------------|--------|
| SMITH | D1 | EDEN | 1 | 445 | 35 | 2 | 2 | 27.5 |
| SPRING | C | WESTFIELD | 3 | 519 | 42 | 3 | 2 | 25.5 |
| STAHLER | E1 | LEMINGTON | 2 | 516 | 36 | 3 | 3 | 31.5 |
| SYKES | E2 | BRIGHTON | 2 | 581 | 45 | 5 | 5 | 28.5 |
| TATRO | D2 | NEWARK | 0.5 | 253 | | -- | -- | -- |
| TEAGUE | C | JAY | 4 | -- | 51 | 5 | 4 | 35.5 |
| TETREULT | E1 | AVERILL | 1 | 323 | 27 | 1 | 1 | 15.5 |
| THURSTON | H1 | WORCESTER | 4 | 624 | 43 | 3 | 3 | 28 |
| TOLMAN | D1 | GREENSBORO | 5 | 591 | 50 | 2 | 2 | 29 |
| TOURVILLE | D1 | LOWELL | 8 | 676 | 55 | 4 | 4 | -- |
| TROJANOWSKI | J2 | ORANGE | 6 | 607 | 51 | 6 | 6 | 38 |
| TURCOTTE | C | LOWELL | 3 | -- | 41 | 3 | 3 | 32.5 |
| TYNION | E1 | BLOOMFIELD | 5 | 834 | 49 | 7 | 6 | 42 |
| TYRVELL JR | M | READING | 1 | 420 | 36 | 2 | 2 | 27 |
| VASSEUR | H1 | ORANGE | 7 | 689 | 52 | 7 | 7 | 43 |
| VERGE | D2 | WESTMORE | 2 | 543 | 40 | 5 | 4 | 31 |
| WALTER | L | MT TABOR | 1 | 391 | 32 | 1 | 2 | 20 |
| WARREN | H2 | GROTON | 6 | 742 | 51 | 4 | 6 | 48 |
| WAYSVILLE | E2 | FERDINAND | 3 | 740 | 45 | 6 | 9 | 40 |
| WEBB | I | CHITTENDEN | 4 | -- | 56 | 9 | 9 | 47 |
| WHITE | M | STOCKBRIDGE | 10 | 786 | 63 | 6 | 5 | 50.5 |
| WHITNEY | C | JAY | 3 | -- | 44 | 3 | 5 | -- |
| WILLEY | E1 | BLOOMFIELD | 3 | 640 | 44 | 3 | 4 | 34 |
| WOOD | E1 | BLOOMFIELD | 4 | 663 | 44 | 7 | 7 | 36.5 |
| WOOD | H1 | ELMORE | 5 | 745 | 44 | 2 | 2 | 37.5 |

Weight is carcass weight completely dressed in lbs. **Beam diameter** is in millimeters. **Points/Left and Right** are number of points at least 1 inch long. **Spread** is in inches measured to the nearest half-inch. **Age** is cementum age except 0.5 is a calf aged by tooth replacement at a department-operated check station. -- = unknown or missing data.

TABLE 9. 2012 VERMONT LEGAL MOOSE HARVEST DATA—COWS ONLY

| Last Name | WMU | Town of Kill | Weight | Age | Ovaries | Corpora Lutea1 | Corpora Lutea2 | Total Corpora Lutea |
|------------------|-----|--------------|--------|-----|---------|----------------|----------------|---------------------|
| BAKER JR | D1 | EDEN | 536 | 2 | NO | | | |
| BARBUSH | I | CHITTENDEN | 475 | 11 | YES | 1 | 0 | 1 |
| BARKER | D1 | ALBANY | 683 | 8 | YES | 2 | 0 | 2 |
| BARROWS | L | MT TABOR | -- | 0.5 | NO | | | |
| BASTOW | D2 | NEWARK | 551 | 5 | YES | 1 | 0 | 1 |
| BERTSCH | E1 | WARREN GORE | 510 | 6 | YES | 1 | 0 | 1 |
| BIXBY | E1 | BLOOMFIELD | 482 | 2 | YES | 1 | 0 | 1 |
| BOMBADIER | M | STOCKBRIDGE | 438 | 3 | YES | 1 | 0 | 1 |
| BORNEMANN | D1 | EDEN | 454 | 2 | YES | 1 | 0 | 1 |
| CALECAS | E1 | AVERILL | 497 | 2 | YES (1) | 1 | 0 | 1 |
| CARTER | D1 | TROY | 511 | 3 | NO | | | |
| CARTIER | E1 | AVERILL | 635 | 5 | NO | | | |
| CASEY | D1 | EDEN | 542 | 2 | NO | | | |
| CODLING | E1 | LEWIS | 420 | 3 | NO | | | |
| CROWLEY | C | WESTFIELD | -- | 1 | NO | | | |
| D'ANJOU | E1 | CANAAN | 533 | 2 | YES | 1 | 0 | 1 |
| DAVIS | M | PITTSFIELD | -- | 0.5 | NO | | | |
| DESROCHERS | E1 | AVERILL | 527 | 4 | NO | | | |
| DODSON | M | BARNARD | 177 | 0.5 | NO | | | |
| DOUGLAS III | D1 | CRAFTSBURY | 563 | 3 | YES | 1 | 0 | 1 |
| EASTMAN | J2 | VERSHIRE | 543 | 4 | NO | | | |
| FALZO | D2 | NORTON | 613 | 11 | NO | | | |
| FLYE | J2 | CORINTH | 509 | 5 | YES | 1 | 0 | 1 |
| GALLO | D2 | WALDEN | 231 | 0.5 | NO | | | |
| GAUDETTE SR | M | STOCKBRIDGE | 534 | 3 | NO | | | |
| GLEASON | C | WESTFIELD | -- | 7 | NO | | | |
| GOSS | E1 | AVERILL | 553 | 9 | YES | 1 | 0 | 1 |
| GRIFFITH | I | RIPTON | 214 | 0.5 | NO | | | |
| HARMS | D1 | EDEN | 589 | 6 | NO | | | |
| HOMMEL | M | BRIDGEWATER | 396 | 1 | NO | | | |
| HORNER | G | JOHNSON | 662 | 6 | YES | 2 | 0 | 2 |
| JEAN | E1 | BRIGHTON | 599 | 7 | NO | | | |
| JICKLING | D2 | NEWARK | 418 | 1 | YES | 0 | 0 | 0 |
| JUTRAS | B | FRANKLIN | -- | -- | NO | | | |
| KENYON | O | WINDHAM | 571 | 10 | YES | 1 | 0 | 1 |
| LACOSS JR | E2 | VICTORY | 237 | 0.5 | NO | | | |
| LAFONT | E1 | LEMINGTON | 469 | 2 | NO | | | |
| LAFOUNTAINE | E1 | LEWIS | 664 | 5 | NO | | | |
| LANDRIAULT | E1 | AVERILL | 510 | 3 | NO | | | |
| LAWRENCE | E1 | AVERILL | 595 | 2 | YES | 1 | 0 | 1 |
| LEITNER | G | MORRISTOWN | -- | -- | NO | | | |
| LEMAY | E1 | BLOOMFIELD | 534 | 5 | YES | 1 | 0 | 1 |
| LERMONTOV-SALMON | C | BELVIDERE | -- | 5 | NO | | | |
| LOCKE | D1 | EDEN | 618 | 10 | NO | | | |
| LUMBRA | C | WESTFIELD | -- | 9 | YES | 1 | 0 | 1 |

TABLE 9. 2012 VERMONT LEGAL MOOSE HARVEST DATA—COWS ONLY

| Last Name | WMU | Town of Kill | Weight | Age | Ovaries | Corpora Lutea1 | Corpora Lutea2 | Total Corpora Lutea |
|------------|-----|--------------|--------|-----|---------|----------------|----------------|---------------------|
| MACHIA JR | B | FRANKLIN | -- | 6 | NO | | | |
| MADDEN | H1 | ELMORE | 761 | 3 | NO | | | |
| MAGOON | E1 | BLOOMFIELD | 603 | 14 | YES | 1 | 0 | 1 |
| MARCELLE | E1 | LEMINGTON | 602 | 5 | YES | 1 | 0 | 1 |
| MCKEON | H2 | DANVILLE | 487 | 2 | YES | 1 | 0 | 1 |
| METCALF | E1 | AVERILL | 619 | 3 | YES | 1 | 0 | 1 |
| MOODY | H1 | ELMORE | 619 | 3 | YES | 2 | 0 | 2 |
| MOREY | C | WESTFIELD | 370 | 1 | YES | 0 | 0 | 0 |
| MORTON | E1 | BLOOMFIELD | 592 | 8 | NO | | | |
| MOULTON | L | MT TABOR | 346 | 4 | YES | 0 | 0 | 0 |
| NUSE | E1 | WARREN GORE | 679 | 12 | YES | 1 | 0 | 1 |
| OHARA | E1 | BLOOMFIELD | 390 | 1 | NO | | | |
| PERCY | E1 | LEWIS | 544 | 4 | YES | 1 | 0 | 1 |
| PERSONS | E1 | WARREN GORE | 373 | 1 | YES | 0 | 0 | 0 |
| PIDGEON | E1 | AVERILL | 295 | 1 | YES | 0 | 0 | 0 |
| PIERCE | E2 | GRANBY | 645 | 6 | NO | | | |
| RHEAUME | I | LINCOLN | 288 | 1 | NO | | | |
| RICHARDS | D1 | CRAFTSBURY | 521 | 4 | NO | | | |
| ROGERS | E2 | BLOOMFIELD | 371 | 2 | NO | | | |
| ROY | E2 | EAST HAVEN | 547 | 2 | YES | 1 | 0 | 1 |
| ROY | E2 | EAST HAVEN | 431 | 1 | YES | 0 | 0 | 0 |
| ROYER | D1 | GLOVER | 551 | 5 | NO | | | |
| ROYER SR | D1 | LOWELL | 668 | 12 | YES | 1 | 0 | 1 |
| SANDERSON | O | WINDHAM | 465 | 3 | NO | | | |
| SCOTT | E2 | VICTORY | -- | 7 | YES | 1 | 0 | 1 |
| SLAYTON | C | BELVIDERE | 442 | 1 | NO | | | |
| SNYDER | M | STOCKBRIDGE | -- | 7 | NO | | | |
| STAHLER | E2 | GRANBY | 667 | 8 | NO | | | |
| STOODLEY | L | WESTON | 420 | 6 | NO | | | |
| STRAUS | E2 | LUNENBURG | 300 | 0.5 | NO | | | |
| SULLIVAN | E1 | LEWIS | 424 | 9 | YES | 0 | 0 | 0 |
| THOMPSON | E1 | BLOOMFIELD | 542 | 2 | YES | 1 | 0 | 1 |
| TOWLE | E2 | VICTORY | -- | -- | NO | | | |
| TRUCOTT | D2 | SHEFFIELD | 497 | 2 | YES | 1 | 0 | 1 |
| TURGEON | M | STOCKBRIDGE | 551 | 6 | YES | 1 | 0 | 1 |
| WATERHOUSE | C | WESTFIELD | -- | 3 | NO | | | |
| WHITAKER | M | STOCKBRIDGE | 462 | 2 | YES | 1 | 0 | 1 |
| WHITE | M | STOCKBRIDGE | 497 | 2 | NO | | | |
| WILLEY | E1 | BLOOMFIELD | 490 | 3 | YES | 1 | 0 | 1 |

Weight is carcass weight completely dressed in lbs; **Total Corpora Lutea** is number of corpora lutea; **Age** is cementum age except for 0.5 is a calf aged by tooth replacement at department-operated check station; -- = unknown or missing data.