

**FINAL REPORT**  
**2020 Deer Management Program**  
**Town and Country, Missouri**  
**by**  
**White Buffalo, Inc.**  
**1 March 2020**

## **INTRODUCTION**

The City of Town and Country contains a matrix of suburban and commercial development, parks, and other open-spaces. The absence of any deer management combined with fertile soils allowed the local deer population to increase to a level incompatible with some land use and human activities prior to our involvement. Although deer physical condition is not an issue, there is ongoing concern regarding numerous deer/vehicle collisions and damage to garden and landscape plantings. This is the 10th year in which a deer population management program was implemented.

## **METHODS**

Pre-baiting was conducted from 10-31 January 2020. Sharpshooting efforts were conducted from 1 – 21 February 2020. Nineteen days of fieldwork were required to achieve the harvest of 134 deer.

We followed the operations protocol outlined in the contract and changes agreed to verbally prior to the onset of site preparations. Fifteen sites were available throughout the area of operation.

## **RESULTS**

The entire data set generated from harvested deer is represented in the spreadsheet entitled "City of Town and Country - Deer Harvest: 1 – 21 February 2020 (Appendix A). The overall harvest demographics are summarized in Table 1. Harvest by day is summarized in Table 2. Harvest breakdown based on Ward is summarized in Table 3. Effort per Ward is summarized in Table 4. We expended 382 person-hours for sharpshooting activities (134 deer harvested) resulting in 2.85 person-hours per deer harvested. This was a 16% increase over the previous year's effort (2.4 person-hours per deer).

**Table 1.** Sex and age class of deer harvested in Town and Country, Missouri from 1 - 21 February 2020.

| <b>AGE</b>     | <b># MALE (%)</b> | <b># FEMALE (%)</b> | <b># COMBINED</b> |
|----------------|-------------------|---------------------|-------------------|
| Yearling/Adult | 62 (46%)          | 46 (34%)            | 108 (81%)         |
| Fawns          | 20 (15%)          | 6 (5%)              | 26 (19%)          |
| Total          | 82 (61%)          | 52 (39%)            | 134               |

**Table 2.** Number of deer harvested by day during the 19 days of field operations.

| <b>DATE</b> | <b># Harvested</b> | <b>DATE</b> | <b># Harvested</b> | <b>DATE</b> | <b># Harvested</b> | <b>DATE</b> | <b># Harvested</b> |
|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|--------------------|
| 2/1/20      | 9                  | 2/7/20      | 10                 | 2/13/20     | 8                  | 2/18/20     | 5                  |
| 2/2/20      | 17                 | 2/8/20      | 6                  | 2/14/20     | 7                  | 2/19/20     | 4                  |
| 2/3/20      | 13                 | 2/9/20      | 2                  | 2/15/20     | 6                  | 2/20/20     | 6                  |
| 2/4/20      | 1                  | 2/10/20     | 10                 | 2/16/20     | 3                  | 2/21/20     | 7                  |
| 2/6/20      | 8                  | 2/11/20     | 7                  | 2/17/20     | 5                  |             |                    |

**Table 3.** Deer harvest by Ward

| <b>Ward</b> | <b># Harvested</b> |
|-------------|--------------------|
| 1           | 14                 |
| 2           | 89                 |
| 3           | 20                 |
| 4           | 11                 |

**Table 4.** Effort by Ward

| <b>Ward</b> | <b>Percentage of Sites</b> | <b>Percentage of Seated Attempts</b> | <b>Percentage of Harvest</b> |
|-------------|----------------------------|--------------------------------------|------------------------------|
| 1           | 6.70%                      | 8.40%                                | 8.70%                        |
| 2           | 53%                        | 61%                                  | 67%                          |
| 3           | 20%                        | 13.8%%                               | 15.60%                       |
| 4           | 20%                        | 16.80%                               | 8.70%                        |

**Population estimates**

See attached population estimation report.

## DISCUSSION

Fifteen sites were utilized as part of the 2020 Town and Country, MO deer management program. Three new sites were added to the property list. One each in Wards 1, 2, and 4. One site, in Ward 4, utilized in 2019 was not used during this year's program due to development. A strategic decision was made to utilize a new site in Ward 1 proximate to a previous location. This decision resulted in a 56% increase in harvest in Ward 1. Overall we experienced slightly lower efficiency than last year. It is likely that the mild winter weather was a contributing factor to the decreased harvest numbers.

Ward 2 continued to produce the highest removal numbers accounting for 66% of the overall harvest. Harvest in Ward 3 dropped significantly in 2020. Two sites that have historically been very productive, along Queeny park, had reduced harvest in 2020. One site's harvest total dropped 80%, from 15 deer in 2019 to 3 deer in 2020. The harvest in Ward 4 decreased 54%. This drop was directly related to the development of a key property along Conway Road.

Harvest results from specific sites ranged from a high of 17 deer to a low of 1. The most productive site was located in Ward 2 and contributed 13% to the total. This is departure from previous years when our most productive sites were in Ward 3.

Queeny Park continues to pose a major challenge to the reduction of deer numbers within areas of Town and Country that are located proximate to the Park. Lack of management by the County park system has created a safe haven, in which the deer are able to use the park as a refuge during the day and then transition into the adjoining residential areas at night. Three sites located proximate to the park resulted in ~22% of the total harvest.

We tagged and labeled 62 of the deer harvested for Chronic Wasting Disease (CWD) testing by Missouri Department of Conservation (MDC). This was part of a larger sampling effort by MDC to screen for the disease in areas proximate to the detection made previously in Franklin County. Only adult male deer were sampled for testing.

Looking forward, the program would benefit by obtaining additional access points in the following areas; 1) the eastern boundary of Queeny Park, 2) Amersham/Bickford/Delvin Drive, 3) Town and Country Estates, and 4) the vicinity of Clayton Road and Williamsburg Estates. This recommendation is based on the high number of deer observed in these areas during the Distance Sampling survey, in combination with a current lack of access to these areas for deer management purposes.

We would like to thank the following individuals and organizations for assistance provided prior to and during the culling period: Bob Shelton, Town and Country Police Department, Tom Thousand, Dan Coppin, Tim Randick, Erin Shank (Missouri Department of Conservation), all the cooperating homeowners, and John's Butcher Shop (venison processing for charitable donation).

## Appendix A

### City of Town and Country – Deer Harvest: 1 - 21 February 2020

| DATE   | HARVEST # | CWD TAG # | SEX      | AGE | LOCATION        |
|--------|-----------|-----------|----------|-----|-----------------|
| 2/1/20 | 1         |           | F        | 2.5 | Belcrest Ct     |
| 2/1/20 | 2         | 201       | M        | 2.5 | Belcrest Ct     |
| 2/1/20 | 3         | 202       | M        | 2.5 | Belcrest Ct     |
| 2/1/20 | 4         | 204       | M        | 1.5 | Belcrest Ct     |
| 2/1/20 | 5         | 205       | M (shed) | 2.5 | Belcrest Ct     |
| 2/1/20 | 6         |           | F        | 3.5 | Hickory Woods   |
| 2/1/20 | 7         |           | F        | 0.5 | Hickory Woods   |
| 2/1/20 | 8         |           | F        | 2.5 | Hickory Woods   |
| 2/1/20 | 9         | 228       | M        | 2.5 | Hickory Woods   |
| 2/2/20 | 10        | 206       | M        | 1.5 | Dry Ridge       |
| 2/2/20 | 11        | 207       | M (shed) | 2.5 | Dry Ridge       |
| 2/2/20 | 12        | 208       | M        | 1.5 | Dry Ridge       |
| 2/2/20 | 13        | 209       | M        | 2.5 | Dry Ridge       |
| 2/2/20 | 14        | 210       | M        | 2.5 | Dry Ridge       |
| 2/2/20 | 15        | 214       | M        | 3.5 | Dry Ridge       |
| 2/2/20 | 16        |           | F        | 1.5 | Barrett Station |
| 2/2/20 | 17        |           | M        | 0.5 | Barrett Station |
| 2/2/20 | 18        |           | M        | 0.5 | Barrett Station |
| 2/2/20 | 19        |           | F        | 0.5 | Barrett Station |
| 2/2/20 | 20        |           | M        | 0.5 | Barrett Station |
| 2/2/20 | 21        | 229       | M        | 2.5 | Barrett Station |
| 2/2/20 | 22        |           | M        | 0.5 | Barrett Station |
| 2/2/20 | 23        | 212       | M        | 1.5 | Barrett Station |
| 2/2/20 | 24        | 227       | M        | 1.5 | Barrett Station |
| 2/2/20 | 25        | 219       | M        | 1.5 | Barrett Station |
| 2/2/20 | 26        |           | F        | 4.5 | Barrett Station |
| 2/3/20 | 27        | 244       | M (shed) | 2.5 | Weidman         |
| 2/3/20 | 28        | 246       | M        | 1.5 | Weidman         |
| 2/3/20 | 29        | 247       | M (shed) | 1.5 | Weidman         |
| 2/3/20 | 30        |           | F        | 3.5 | Weidman         |
| 2/3/20 | 31        | 249       | M        | 1.5 | Weidman         |
| 2/3/20 | 32        | 250       | M        | 2.5 | Weidman         |
| 2/3/20 | 33        | 252       | M        | 2.5 | Weidman         |
| 2/3/20 | 34        | 253       | M        | 1.5 | Weidman         |
| 2/3/20 | 35        |           | F        | 1.5 | Weidman         |

|         |    |     |          |      |                 |
|---------|----|-----|----------|------|-----------------|
| 2/3/20  | 36 |     | M        | 0.5  | Buckland Hall   |
| 2/3/20  | 37 | 241 | M        | 1.5  | Buckland Hall   |
| 2/3/20  | 38 |     | F        | 4.5+ | Buckland Hall   |
| 2/3/20  | 39 |     | M        | 0.5  | Buckland Hall   |
| 2/4/20  | 40 | 221 | M        | 1.5  | Tecumseh        |
| 2/6/20  | 41 |     | M        | 0.5  | Old Colony Ln   |
| 2/6/20  | 42 | 254 | M        | 2.5  | Old Colony Ln   |
| 2/6/20  | 43 | 260 | M        | 3.5  | Old Colony Ln   |
| 2/6/20  | 44 | 268 | M        | 1.5  | Old Colony Ln   |
| 2/6/20  | 45 |     | F        | 1.5  | Thornhill Drive |
| 2/6/20  | 46 | 240 | M        | 1.5  | Thornhill Drive |
| 2/6/20  | 47 | 236 | M        | 2.5  | Thornhill Drive |
| 2/6/20  | 48 |     | M        | 0.5  | Thornhill Drive |
| 2/7/20  | 49 |     | F        | 4.5+ | Thornfield Ln   |
| 2/7/20  | 50 |     | F        | 3.5  | Thornfield Ln   |
| 2/7/20  | 51 |     | F        | 2.5  | Thornfield Ln   |
| 2/7/20  | 52 |     | F        | 1.5  | Thornfield Ln   |
| 2/7/20  | 53 | 239 | M        | 2.5  | Thornfield Ln   |
| 2/7/20  | 54 | 234 | M        | 4.5  | Thornfield Ln   |
| 2/7/20  | 55 |     | F        | 1.5  | S Forty Drive   |
| 2/7/20  | 56 |     | F        | 3.5  | S Forty Drive   |
| 2/7/20  | 57 |     | M        | 0.5  | S Forty Drive   |
| 2/7/20  | 58 | 274 | M        | 2.5  | S Forty Drive   |
| 2/8/20  | 59 |     | F        | 2.5  | Buckland Hall   |
| 2/8/20  | 60 | 269 | M        | 3.5  | Hickory Woods   |
| 2/8/20  | 61 |     | F        | 2.5  | Hickory Woods   |
| 2/8/20  | 62 |     | F        | 3.5  | Hickory Woods   |
| 2/8/20  | 63 | 286 | M (shed) | 1.5  | Hickory Woods   |
| 2/8/20  | 64 |     | F        | 2.5  | Hickory Woods   |
| 2/9/20  | 65 | 235 | M        | 2.5  | Glaizeview Rd   |
| 2/9/20  | 66 | 226 | M        | 1.5  | Glaizeview Rd   |
| 2/10/20 | 67 |     | F        | 4.5+ | Thornhill Drive |
| 2/10/20 | 68 |     | M        | 0.5  | Thornhill Drive |
| 2/10/20 | 69 |     | M        | 0.5  | Thornhill Drive |
| 2/10/20 | 70 |     | F        | 4.5+ | Thornhill Drive |
| 2/10/20 | 71 |     | F        | 0.5  | Thornhill Drive |
| 2/10/20 | 72 |     | F        | 1.5  | Thornhill Drive |
| 2/10/20 | 73 | 278 | M        | 2.5  | Bellerive       |
| 2/10/20 | 74 | 285 | M        | 1.5  | Bellerive       |
| 2/10/20 | 75 | 289 | M        | 1.5  | Bellerive       |
| 2/10/20 | 76 |     | F        | 3.5  | Bellerive       |
| 2/11/20 | 77 | 294 | M        | 3.5  | S Forty Drive   |
| 2/11/20 | 78 |     | F        | 1.5  | S Forty Drive   |
| 2/11/20 | 79 |     | F        | 1.5  | S Forty Drive   |
| 2/11/20 | 80 | 332 | M        | 1.5  | Old Colony Ln   |
| 2/11/20 | 81 | 290 | M        | 1.5  | Old Colony Ln   |

|         |     |     |          |      |                 |
|---------|-----|-----|----------|------|-----------------|
| 2/11/20 | 82  | 297 | M        | 2.5  | Old Colony Ln   |
| 2/11/20 | 83  | 310 | M        | 2.5  | Old Colony Ln   |
| 2/13/20 | 84  | 316 | M        | 1.5  | Bellerive       |
| 2/13/20 | 85  | 330 | M        | 1.5  | Bellerive       |
| 2/13/20 | 86  |     | F        | 0.5  | Barrett Station |
| 2/13/20 | 87  |     | F        | 2.5  | Barrett Station |
| 2/13/20 | 88  |     | F        | 0.5  | Barrett Station |
| 2/13/20 | 89  | 299 | M        | 2.5  | Barrett Station |
| 2/13/20 | 90  |     | F        | 4.5+ | Barrett Station |
| 2/13/20 | 91  |     | M        | 0.5  | Barrett Station |
| 2/14/20 | 92  |     | F        | 2.5  | Glaizeview Rd   |
| 2/14/20 | 93  |     | M        | 0.5  | Weidman Rd      |
| 2/14/20 | 94  | 338 | M        | 2.5  | Weidman Rd      |
| 2/14/20 | 95  | 344 | M        | 2.5  | Weidman Rd      |
| 2/14/20 | 96  |     | F        | 0.5  | Weidman Rd      |
| 2/14/20 | 97  |     | F        | 4.5+ | Weidman Rd      |
| 2/14/20 | 98  |     | F        | 3.5  | Weidman Rd      |
| 2/15/20 | 99  | 218 | M (shed) | 2.5  | Dry Ridge Rd    |
| 2/15/20 | 100 | 307 | M        | 2.5  | Dry Ridge Rd    |
| 2/15/20 | 101 |     | F        | 1.5  | Dry Ridge Rd    |
| 2/15/20 | 102 | 331 | M        | 2.5  | Belcrest Ct     |
| 2/15/20 | 103 | 335 | M        | 1.5  | Belcrest Ct     |
| 2/15/20 | 104 |     | F        | 1.5  | Belcrest Ct     |
| 2/16/20 | 105 |     | F        | 2.5  | Hickory Woods   |
| 2/16/20 | 106 |     | F        | 2.5  | Hickory Woods   |
| 2/16/20 | 107 |     | F        | 1.5  | Thornhill Drive |
| 2/17/20 | 108 | 317 | M        | 1.5  | Mason           |
| 2/17/20 | 109 | 308 | M        | 1.5  | Mason           |
| 2/17/20 | 110 |     | M        | 0.5  | Mason           |
| 2/17/20 | 111 |     | M        | 0.5  | Thornfield Ln   |
| 2/17/20 | 112 |     | M        | 0.5  | Thornfield Ln   |
| 2/18/20 | 113 |     | M        | 0.5  | Alsace Ct       |
| 2/18/20 | 114 |     | F        | 2.5  | Alsace Ct       |
| 2/18/20 | 115 |     | F        | 3.5  | S Forty Drive   |
| 2/18/20 | 116 | 302 | M        | 1.5  | S Forty Drive   |
| 2/18/20 | 117 | 333 | M        | 1.5  | S Forty Drive   |
| 2/19/20 | 118 | 306 | M        | 3.5  | Bellerive       |
| 2/19/20 | 119 | 309 | M (shed) | 1.5  | Belcrest Ct     |
| 2/19/20 | 120 | 328 | M        | 1.5  | Belcrest Ct     |
| 2/19/20 | 121 |     | F        | 3.5  | Belcrest Ct     |
| 2/20/20 | 122 |     | M        | 0.5  | Thornhill Drive |
| 2/20/20 | 123 |     | F        | 4.5+ | Thornhill Drive |
| 2/20/20 | 124 |     | F        | 4.5+ | Thornhill Drive |
| 2/20/20 | 125 | 337 | M        | 1.5  | Old Colony Ln   |
| 2/20/20 | 126 |     | F        | 3.5  | Old Colony Ln   |
| 2/20/20 | 127 |     | M        | 0.5  | Old Colony Ln   |
| 2/21/20 | 128 |     | F        | 1.5  | Dry Ridge Rd    |

|         |     |     |   |      |               |
|---------|-----|-----|---|------|---------------|
| 2/21/20 | 129 |     | M | 0.5  | Dry Ridge Rd  |
| 2/21/20 | 130 | 300 | M | 2.5  | Dry Ridge Rd  |
| 2/21/20 | 131 |     | F | 2.5  | Dry Ridge Rd  |
| 2/21/20 | 132 |     | F | 3.5  | Hickory Woods |
| 2/21/20 | 133 |     | F | 3.5  | Hickory Woods |
| 2/21/20 | 134 |     | F | 4.5+ | Hickory Woods |