

FINAL REPORT
2017 Deer Management Program
Town and Country, Missouri

by
White Buffalo, Inc.

26 January 2017

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 8th year in which a deer population management program was implemented.

METHODS

Prebaiting was conducted from 14 December 2016 – 3 January 2017. Sharpshooting efforts were conducted from 3 - 22 January 2017. Nineteen days of fieldwork were required to achieve the harvest of 225 deer.

We followed the operations protocol outlined in the contract and changes agreed to verbally prior to the onset of site preparations. Seventeen 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: 3-22 January 2017 (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. We expended 449.5 person-hours for the sharpshooting activities (225 deer harvested) resulting in 2.0 person-hours per deer harvested. This was nearly identical to the previous year's effort (2.09 person-hours per deer).

Table 1. Sex and age class of deer harvested in Town and Country, Missouri from 3-22 January 2017.

AGE	# MALE (%)	# FEMALE (%)	# COMBINED
Yearling/Adult	89 (40%)*	77(34%)	166 (74%)
Fawns	35 (15%)	24 (11%)	59 (26%)
Total	124 (55%)	101 (45%)	225 (100%)

*Thirteen adult males had shed their antlers

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

DATE	# Harvested	DATE	# Harvested	DATE	# Harvested	DATE	# Harvested
1/3/17	18	1/8/17	24	1/13/17	0	1/18/17	12
1/4/17	13	1/9/17	14	1/14/17	14	1/19/17	11
1/5/17	24	1/10/17	10	1/15/17	4	1/20/17	8
1/6/17	17	1/11/17	6	1/16/17	5	1/21/17	7
1/7/17	17	1/12/17	5	1/17/17	11	1/22/17	5

Table 3. Deer harvest by Ward

Ward	# Harvested
1	26
2	95
3	50
4	54

Pregnancy rates

It was too early in pregnancy to identify and count fetuses.

Population estimates

See attached population estimation report.

DISCUSSION

Seventeen sites were utilized as part of the 2017 Town and Country, MO deer management program. Two new sites were added to the property list to specifically address deer damage complaints by residence near Clayton and Ladue roads. Four sites were adjusted, in the same neighborhoods, to improve shooting locations. Two property owners who have historically cooperated in the program requested that we not work on their property in 2017 as the level of deer damage to their landscape plantings was reduced to a level where additional culling was not deemed necessary.

Ward 2 continued to produce the highest removal numbers accounting for 42% of the harvest, an increase of 2% over 2016. The harvest result in Ward 1 and 3 decreased to 12% and 22% respectively, from 17% and 29% the previous year. Ward 4 showed an increase in harvest success of 6%.

Harvest results from specific sites ranged from a high of 21 deer to a low of 4. Thirty-five percent of the sites had 15 or more deer culled and contributed 48% of the total. Two sites along Queeny Park, in Ward 3, contributed 40 deer to the total resulting in 18% of the harvest.

Harvest results were similar to 2016 levels and showed no decrease in operational efficiency. This indicates no diminishing returns in allocation of effort per deer harvested, at the current reduction level. We would expect to see effort per deer to increase substantially as the population level is reduced to goal density. As less deer are available more effort should be required to harvest them. Additionally, nearly all of the removal sites had significant deer activity at the completion of the 2017 program.

Weather conditions proved challenging for deer removal efforts during the 2017 project. A major ice storm, winds in excess of 40 mph, and significant temperature swings reduced some operational efficiency as deer behavior and our ability to access sites was interrupted. Dangerous ice conditions dictated we cancel one evening's operations.

Overall the program would benefit from the inclusion of access along Topping Road. During the distance sampling survey numerous deer were sighted along Topping Road and its intersecting streets which resulted in ~19% of the total observations. Additionally, access in the Manor Hill/Woodmark area would benefit the program. Numerous deer were observed in this area and are not being addressed at our sole access point along Thornhill Road.

One hundred eighty eight of the deer harvested were tagged and labeled 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.

We would like to thank the following individuals and organizations for assistance provided prior to and during the culling period; Gary Hoelzer, Tom Thousand, Gene

Russo, Ed Hoebin, Tim Randick, Fred Meyland-Smith, Lynn Wright, 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: 3-22 January 2017

DATE	HARVEST #	CWD TAG #	SEX	AGE	Street Address
1/3/17	1	41	M	4.5	Muirfield
1/3/17	2	42	M	6.5	Muirfield
1/3/17	3	43	M	1.5	Muirfield
1/3/17	4		M	0.5	Muirfield
1/3/17	5	46	M	2.5	Muirfield
1/3/17	6	48	F	3.5	Muirfield
1/3/17	7	49	M	1.5	Muirfield
1/3/17	8	50	M	5.5	Muirfield
1/3/17	9	36	M	6.5	Conway Hill
1/3/17	10	37	M	1.5	Conway Hill
1/3/17	11	38	M	1.5	Conway Hill
1/3/17	12	39	M	1.5	Conway Hill
1/3/17	13	1	M	3.5	Mason
1/3/17	14	2	M	3.5	Mason
1/3/17	15	3	F	4.5	Mason
1/3/17	16	4	F	2.5	Mason
1/3/17	17	5	M	2.5	Mason
1/3/17	18	6	F	3.5	Mason
1/4/17	19	34	M	1.5	Tecumseh

1/4/17	20	35	M	1.5	Tecumseh
1/4/17	21		M	0.5	Tecumseh
1/4/17	22	33	F	1.5	Tecumseh
1/4/17	23	40	M	2.5	Tecumseh
1/4/17	24	45	M	4.5	Horton
1/4/17	25	47	M	1.5	Horton
1/4/17	26	51	M	1.5	Horton
1/4/17	27	52	M	1.5	Horton
1/4/17	28	53	M	2.5	Horton
1/4/17	29	54	M	6.5	Horton
1/4/17	30	55	M	3.5	Horton
1/4/17	31	7	M	3.5	Old Colony
1/5/17	32	31	M	4.5	Bellerive CC Grounds
1/5/17	33	32	M	1.5	Bellerive CC Grounds
1/5/17	34		M	0.5	Bellerive CC Grounds
1/5/17	35	21	F	1.5	Bellerive CC Grounds
1/5/17	36	28	M	2.5	Bellerive CC Grounds
1/5/17	37	29	M	1.5	Bellerive CC Grounds
1/5/17	38		M	0.5	Bellerive CC Grounds
1/5/17	39	22	F	1.5	Bellerive CC Grounds
1/5/17	40	30	M	3.5	Bellerive CC Grounds
1/5/17	41	8	M	1.5	Sellenrick

1/5/17	42	9	M (Shed)	1.5	Sellenrick
1/5/17	43	10	F	1.5	Sellenrick
1/5/17	44	11	F	3.5	Sellenrick
1/5/17	45		M	0.5	Sellenrick
1/5/17	46		F	0.5	Sellenrick
1/5/17	47	12	F	1.5	Sellenrick
1/5/17	48	13	M (<3")	1.5	Sellenrick
1/5/17	49	56	M	3.5	Alsace
1/5/17	50	57	M	1.5	Alsace
1/5/17	51	58	M	2.5	Alsace
1/5/17	52	44	M	3.5	Alsace
1/5/17	53	59	M	3.5	Alsace
1/5/17	54	61	M	2.5	Alsace
1/5/17	55	62	M	2.5	Alsace
1/6/17	56	23	M	1.5	Dry Ridge
1/6/17	57	25	F	1.5	Dry Ridge
1/6/17	58	14	M	1.5	Thornfield
1/6/17	59	18	F	4.5	Thornfield
1/6/17	60	20	F	2.5	Thornfield
1/6/17	61	63	M	4.5	Glaizeview
1/6/17	62	64	M	3.5	Glaizeview
1/6/17	63	65	M	1.5	Glaizeview

1/6/17	64	68	M	2.5	Glaizeview
1/6/17	65	69	F	4.5	Glaizeview
1/6/17	66		M	0.5	Glaizeview
1/6/17	67	60	M(Shed)	4.5	Glaizeview
1/6/17	68	66	M	6.5	Glaizeview
1/6/17	69	67	M	1.5	Glaizeview
1/6/17	70	70	M	1.5	Glaizeview
1/6/17	71		M	0.5	Glaizeview
1/6/17	72		F	0.5	Glaizeview
1/7/17	73	98	F	4.5	Bellerive CC Grounds
1/7/17	74	100	F	4.5	Bellerive CC Grounds
1/7/17	75	90	F	1.5	Muirfield
1/7/17	76	88	F	2.5	Muirfield
1/7/17	77		F	0.5	Muirfield
1/7/17	78		M	0.5	Muirfield
1/7/17	79		M	0.5	Muirfield
1/7/17	80	15	M	4.5	Barrett Station
1/7/17	81	16	F	3.5	Barrett Station
1/7/17	82	17	F	2.5	Barrett Station
1/7/17	83	19	F	1.5	Barrett Station
1/7/17	84		F	0.5	Barrett Station
1/7/17	85	71	M	4.5	Barrett Station

1/7/17	86	72	M	2.5	Barrett Station
1/7/17	87	73	F	1.5	Barrett Station
1/7/17	88	74	F	3.5	Barrett Station
1/7/17	89	75	F	4.5	Barrett Station
1/8/17	90	80	M(Shed)	2.5	Clayton
1/8/17	91	79	M(Shed)	2.5	Clayton
1/8/17	92	78	M(Shed)	2.5	Clayton
1/8/17	93	77	F	1.5	Clayton
1/8/17	94	81	M(Shed)	2.5	Featherstone
1/8/17	95	83	M(Shed)	3.5	Featherstone
1/8/17	96	82	F	3.5	Featherstone
1/8/17	97		F	0.5	Featherstone
1/8/17	98		F	0.5	Featherstone
1/8/17	99	85	M(Shed)		Featherstone
1/8/17	100	89	F	6.5	Featherstone
1/8/17	101		F	0.5	Weidman
1/8/17	102	95	F	4.5	Weidman
1/8/17	103		M	0.5	Weidman
1/8/17	104	94	F	3.5	Weidman
1/8/17	105	24	M	2.5	Weidman
1/8/17	106	93	M	2.5	Weidman
1/8/17	107	92	M		Weidman

1/8/17	108	91	M	1.5	Weidman
1/8/17	109		M	0.5	Weidman
1/8/17	110		F	0.5	Weidman
1/8/17	111	27	F	4.5	Weidman
1/8/17	112	26	M	1.5	Weidman
1/8/17	113	96	M	3.5	Weidman
1/9/16	114	99	F	2.5	Dry Ridge
1/9/16	115		F	0.5	Dry Ridge
1/9/16	116	97	M	1.5	Dry Ridge
1/9/16	117	124	M	2.5	Dry Ridge
1/9/16	118	122	M	4.5	Dry Ridge
1/9/16	119	111	M	1.5	Dry Ridge
1/9/16	120	107	M	3.5	South Outer 40/Mason
1/9/16	121	108	F	3.5	South Outer 40/Mason
1/9/16	122	109	M	1.5	South Outer 40/Mason
1/9/16	123	110	M	8.5	South Outer 40/Mason
1/9/16	124	106	M		South Outer 40/Mason
1/9/16	125	76	M	3.5	South Outer 40/Mason
1/9/16	126	87	F	4.5	Thornfield
1/9/16	127		F	0.5	Thornfield
1/10/17	128	84	F	5.5	Glaizeview
1/10/17	129		F	0.5	Glaizeview

1/10/17	130	86	F	6.5	Glaizeview
1/10/17	131		M	0.5	Glaizeview
1/10/17	132		M	0.5	Glaizeview
1/10/17	133	113	M(Shed)	1.5	Mason
1/10/17	134	112	F	3.5	Mason
1/10/17	135		M	0.5	Mason
1/10/17	136	114	F	3.5	Mason
1/10/17	137	115	F	2.5	Mason
1/11/17	138	121	F	2.5	Weidman
1/11/17	139		F	0.5	Weidman
1/11/17	140		F	0.5	Weidman
1/11/17	141	123	F		Weidman
1/11/17	142	136	M	4.5	Tecumseh
1/11/17	143	137	M(Shed)	8.5	Tecumseh
1/12/17	144	127	F	6.5	Old Colony
1/12/17	145	128	F	2.5	Old Colony
1/12/17	146	139	F	3.5	Old Colony
1/12/17	147	101	F	1.5	South Outer 40/Mason
1/12/17	148	125	F	3.5	South Outer 40/Mason
1/14/17	149	129	F	1.5	Horton
1/14/17	150		M	0.5	Horton
1/14/17	151		M	0.5	Horton

1/14/17	152	126	F	6.5	Horton
1/14/17	153		M	0.5	Horton
1/14/17	154		F	0.5	Horton
1/14/17	155		M	0.5	Horton
1/14/17	156	102	F	2.5	Clayton
1/14/17	157	103	M	2.5	Clayton
1/14/17	158	104	F	3.5	Clayton
1/14/17	159		M	0.5	Clayton
1/14/17	160		F	0.5	Clayton
1/14/17	161		F	0.5	Clayton
1/14/17	162		M	0.5	Clayton
1/15/17	163		F	0.5	Glaizeview
1/15/17	164	138	F	1.5	Glaizeview
1/15/17	165		M	0.5	Glaizeview
1/15/17	166	130	F	2.5	Glaizeview
1/16/17	167	105	F	2.5	Weidman
1/16/17	168		M	0.5	Weidman
1/16/17	169	140	F	2.5	Thornfield
1/16/17	170		M	0.5	Thornfield
1/16/17	171		M	0.5	Thornfield
1/17/17	172	131	F	2.5	Old Colony
1/17/17	173	132	M	2.5	Old Colony

1/17/17	174	133	F	1.5	Old Colony
1/17/17	175	134	F	3.5	Old Colony
1/17/17	176		F	0.5	Old Colony
1/17/17	177		M	0.5	Old Colony
1/17/17	178	116	F	2.5	South Outer 40/Mason
1/17/17	179	117	M(Shed)	2.5	South Outer 40/Mason
1/17/17	180		M	0.5	South Outer 40/Mason
1/17/17	181		M	0.5	South Outer 40/Mason
1/17/17	182	118	F	2.5	South Outer 40/Mason
1/18/17	183	135	F	2.5	Muirfield
1/18/17	184	141	F	2.5	Muirfield
1/18/17	185		M	0.5	Muirfield
1/18/17	186	142	M(Shed)	3.5	Muirfield
1/18/17	187		F	0.5	Muirfield
1/18/17	188	143	M	4.5	Muirfield
1/18/17	189	119	M		Barrett Station
1/18/17	190	120	M	3.5	Barrett Station
1/18/17	191	146	M	2.5	Barrett Station
1/18/17	192	147	F	2.5	Barrett Station
1/18/17	193		M	0.5	Barrett Station
1/18/17	194		M	0.5	Barrett Station
1/19/17	195		M	0.5	Tecumseh

1/19/17	196		M	0.5	Tecumseh
1/19/17	197	144	F	4.5	Tecumseh
1/19/17	198		M	0.5	Tecumseh
1/19/17	199		M	0.5	Tecumseh
1/19/17	200		F	0.5	Tecumseh
1/19/17	201	161	F	2.5	Tecumseh
1/19/17	202	162	F	2.5	Tecumseh
1/19/17	203	145	M	2.5	Tecumseh
1/19/17	204	148	M	2.5	Mason
1/19/17	205		F	0.5	Mason
1/20/17	206	163	F	3.5	Featherstone
1/20/17	207	164	F	6.5	Featherstone
1/20/17	208		M	0.5	Featherstone
1/20/17	209	149	F		Dry Ridge
1/20/17	210	150	F	1.5	Dry Ridge
1/20/17	211	151	M	1.5	Dry Ridge
1/20/17	212	152	F	2.5	Dry Ridge
1/20/17	213	153	F	2.5	Dry Ridge
1/21/17	214	165	F	1.5	Alsace
1/21/17	215	171	F	1.5	Alsace
1/21/17	216		F	0.5	Alsace
1/21/17	217	153	M	1.5	Horton

1/21/17	218	154	F		Horton
1/21/17	219	155	F	1.5	Horton
1/21/17	220		F	0.5	Horton
1/22/17	221	172	F	1.5	Bellerive CC Grounds
1/22/17	222	173	F	1.5	Bellerive CC Grounds
1/22/17	223	174	F	8.5	Bellerive CC Grounds
1/22/17	224		F	0.5	Bellerive CC Grounds
1/22/17	225	157	M(Shed)	1.5	Clayton