



CITY OF CHESTERFIELD

PUBLIC HEALTH & SAFETY
COMMITTEE MEETING

MONDAY, March 5, 2018
4:30 PM

CONFERENCE ROOM 102-103

AGENDA

I. APPROVAL OF MINUTES

Meeting of July 17, 2017

II. WHITE BUFFALO INC. DEER DISTANCE SAMPLING POPULATION SURVEY

The committee will discuss the Deer Sampling Population survey, and plans for future action.

III. OTHER

IV. NEXT MEETING

V. ADJOURN

Note: The Public Health & Safety Committee will consider and act upon the matters listed above and such other matters as may be presented at the meeting and determined to be appropriate for discussion at that time.

MEMORANDUM

DATE: July 18, 2017
TO: Mike Geisel, City Administrator
FROM: Chief Ray Johnson
SUBJECT: PUBLIC HEALTH & SAFETY COMMITTEE

The Public Health and Safety (PH&S) Committee met on Monday, July 17, 2017. Those in attendance included Chairperson Barry Flachsbart Councilmember - Ward I, Councilmember Guy Tillman, Ward II, Councilmember Dan Hurt, Ward III, Councilmember Tom Michelle Ohley, Ward IV, Mayor Bob Nation, Councilmember Barb McGuinness, Ward I, Chief Ray Johnson and City Administrator Mike Geisel. Those also in attendance included City Attorney Chris Graville, Captain Ed Nestor. Several citizens were also in attendance

The meeting was called to order at 5:03 PM, by Chairperson Barry Flachsbart.

I. Approval of Minutes – May 22, 2017 Meeting

Councilmember Tillman noted an error in the minutes. Page one, Section II. It should read: Councilman Tillman was appointed to be the liaison to CAPY. Councilmember Tillman motioned and Councilmember Ohley seconded to approve the amended minutes. The motion carried 4-0.

II. Body Worn Cameras

Chief Johnson updated the Committee members on a nationwide grant program offered by Axon Company to provide, free of any charges, body worn cameras to police departments for one year. City Council has approved participation by the Chesterfield Police Department. Chief Johnson reported that he, along with other Police Department staff, have met with Axon representatives and it is expected that all police officers will have the cameras before the end of the year. All data secured by these cameras will belong to the City of Chesterfield. At the end of the year, Axon will then comply with and participate in the City's bidding process to provide body worn cameras.

Councilmember McGuinness inquired if the cameras provide facial recognition information. Chief Johnson replied that the cameras only film video.

Councilmember Hurt asked if there is a defined protocol developed for the use of the body worn cameras. Chief Johnson noted that the Police Department currently has several cameras in use by officers and the Department has been developing regulations during this trial period. He informed the Committee members that Axon will also provide professional input. Some guidelines are in effect but a Police Department General Order will be developed and issued. Councilmember Hurt requested that City Council be kept informed as development occurs.

III. Clarkson Valley Police Services

Chief Johnson informed the Committee members that the Police Department took over police services for Clarkson Valley at 12:00 Midnight on July 1st. The implementation of services went very well. Chief Johnson noted that he has been in touch with Mayor Douglas of Clarkson Valley and the City Clerk several times since July 1st and he and Captain Nestor recently attended a Clarkson Valley City Council meeting where all present voiced their pleasure with the delivery of services.

IV. Proposition P

Upon introduction of this topic, Mayor Bob Nation informed all present that this is a financial issue and will be discussed in meetings of the Finance & Administration Committee.

Councilmember Flachsbart asked the Committee members to consider allowing those citizens present to speak regarding Proposition P.

Councilmember Tillman motioned to allow those present to speak and the Committee will then pass on their comments to the Finance & Administration Committee. Councilmember Flachsbart seconded. The motion carried 4-0. Councilmember Flachsbart also invited those present to speak at the City Council meeting following this meeting.

Mr. Howard Curtis addressed the Committee. Mr. Curtis is a current member of the Police Personnel Board, and a 20 year resident of the City of Chesterfield. Mr. Curtis expressed concern regarding the difficulty of hiring police officers recently and the number of officers leaving the Department. He also noted officer dissatisfaction with the administration of the City's salary and benefit plan. He encouraged that money from Proposition P be directly utilized to support the Police Department.

Mr. John Walters, currently the Chairman of the Police Personnel Board, read a letter signed by five members of the Police Personnel Board. He reported that, in his opinion, the morale of the Police Department has never been lower in his eighteen years of serving on the Board. This letter noted that the citizens of Chesterfield had voted in support of Proposition P and gave examples of how other municipalities are planning to spend the money from the tax increase on police (salaries, equipment, etc.). He urged the City Council to act on behalf of the Police Department regarding the upcoming revenue from Proposition P.

Ms. Debbie Donnelly, a Chesterfield citizen and member of the West County Community Action group noted how St. Louis County is planning to spend Proposition P dollars. She requested transparency of expenditures and that money directed to the City of Chesterfield be a budget line item where revenue and expenditures will be clearly available to citizens.

Mr. Walter Lantz, a Chesterfield citizen, voiced his agreement with the previous speakers and encouraged them to also speak at the City Council meeting.

Mr. Jim Moore, a Chesterfield citizen and also a member of the West County Community Action group encouraged the Committee members to use the Proposition P money for

the police and make the Proposition P money a budget line item so that it will be a transparent item for citizens to review. He commended Chief Johnson for his direction of the Police Department.

Councilmember Hurt voiced that the City Council is trying to do the right thing for the citizens and noted his efforts to restore the Police Department to its original strength after the "right sizing" of 2010. He voiced his support for the Police Department and will work to achieve the goals of the citizens of Chesterfield.

Councilmember Flachsbart urged all who spoke to keep track of how St. Louis County is spending Proposition P money as well as other municipalities. He all encouraged them to give further input on this issue as it moves to the Finance & Administration Committee.

The meeting adjourned at 5:50 PM.

Ray Johnson

From: Ryan Rodts <ryan.rodts@whitebuffaloinc.org>
Sent: Monday, January 29, 2018 6:24 AM
To: Cheryl Funkhouser; Ray Johnson
Subject: Chesterfield Deer Population Estimate
Attachments: Chesterfield Distance Sampling Report 29 Jan 2018 Submitted.doc

Chief Johnson and Captain Funkhouser,

Please find the attached Distance Sampling Survey Report (Deer Population Estimate). I will forward a copy of the report to MDC as required by the spotlighting permit.

If you have any questions regarding the findings or about the report in general please do not hesitate to contact me.

I will try to get a invoice sent out in the next few days.

Regards,

Ryan

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SUMMARY REPORT

Deer Distance Sampling Population Estimate

Chesterfield, Missouri

by

White Buffalo, Inc.

29 January 2018

Introduction/Methods

The City of Chesterfield is 33.52 mile² and is nearly bisected by Interstate 64. Missouri State Road 340 runs through the eastern portion of the community. We often delineate areas within a community to better describe deer density variability if it exists.

We used a population estimation method called Distance Sampling. This approach is based on the premise that you can determine the width of a transect traveled by creating a detection probability from the field observations (i.e., number of deer and distance from the transect). In simple terms, the software program projects the area sampled and then integrates the number of deer observed in that area to determine density.

First, we delineated a non-overlapping spotlighting route on a City road map (Figure 1). We used Officers Frank Wood and Devin Holroyd, Chesterfield Police Department, as part of the survey team. Spotlighting surveys were conducted from ~22:00 - 05:30 h on 12 - 15 January 2018. The transect was ~42.8 miles long and divided into 3 zones (Figure 2) of approximately the same area and transect length.

Zone 1 comprises the area north and east of US 40, west of Missouri 141, and south of the agricultural fields along the northern edge of the municipality. Zone 2 encompasses the area south of US 40 to the City limits and is bound to the west by Missouri 340 and to the east by Missouri 141. Zone 3 incorporates the area north and east of the municipal line extending easterly to Baxter Road and south of the airport perimeter. No sampling was conducted in the agricultural areas, highly developed shopping centers or the airport as the results would have biased the sampling efforts in the residential areas.

Two Zones were sampled each evening (~28.5 linear miles) on a rotational basis. Zones 1 and 2 were sampled on three nights (12, 13, & 15 January 2018 and 12, 14, & 15 January 2018 respectively), Zone 3 was sampled twice (13 & 14 January 2018).

While driving 10 mph spotters searched their respective side of the road with 400,000 candlepower spotlights. Upon sighting deer, the number in each social group, age and sex of the

individuals, and the perpendicular distance to the group was recorded. These data were then entered into a software program (Distance-Version 6.0) that estimates the deer density.

Results/Discussion

The survey team counted from 45–96 deer (15-41 groups of deer) on the 4 transect nights. Temperature, wind, and cloud cover were similar on all four sampling nights. Deer were observed from 1 (on the road) to 215 yards from the road, with most observations occurring less than 60 yards. The mean sighting distance was 55.38 yards. The average cluster size was 2.56. The complete observations sheets are attached as Appendix A.

The estimated density for the area of the municipality surveyed is ~ 24.6 deer/mile² (95% Confidence interval: 14–40 deer/mile²). Therefore, we estimate that there were ~ 461 deer (24.6 deer/mile² X 18.73 mile² = 460.8 deer) inhabiting this area with a range of 281-749 at the 95% confidence interval. Please be advised that these estimates are pre-fawning with an expected increase in May and June.

The demographics of the population were $\sim 34.6\%$ yearling and adult females, $\sim 58.9\%$ fawns, 6.5% yearling and adult males where a determination could be made during the survey. Sixty five of the observations (23%) we were unable to determine the age or sex. The relatively high number of unknown age/sex observations likely skewed the doe/fawn ratio and may account for the low percentage of yearling and adult males in the survey. We would caution against making any assumptions about actual sex age structure based on this survey alone.

Deer density estimates varied by Zone. Zone 3 had the highest deer densities at ~ 40 deer/mile², while Zone 2 had the lowest at ~ 14 deer/mile². Deer densities in Zone 1 were 25 deer/mi². Even though deer densities per Zone varied, distribution in the landscape was fairly even. In order to depict relative distribution of deer within the municipality, observations from one transect per zone was plotted (Figure 3). The pin number on the map corresponds to the number of deer observed at each location.

Integration of deer into more developed parts of the municipality is a direct result of traditional deer habitat loss and increasing deer densities. Deer utilize the forage that is available (i.e., landscape plantings) when traditional browse is not available, and seek cover in sparser, less desirable, wooded corridors as densities increase. Conflicts between humans and deer increase as they embed themselves into these more highly developed areas.

Figure 1. Chesterfield, MO Delineated Distance Sampling Route 12-15 January 2018.

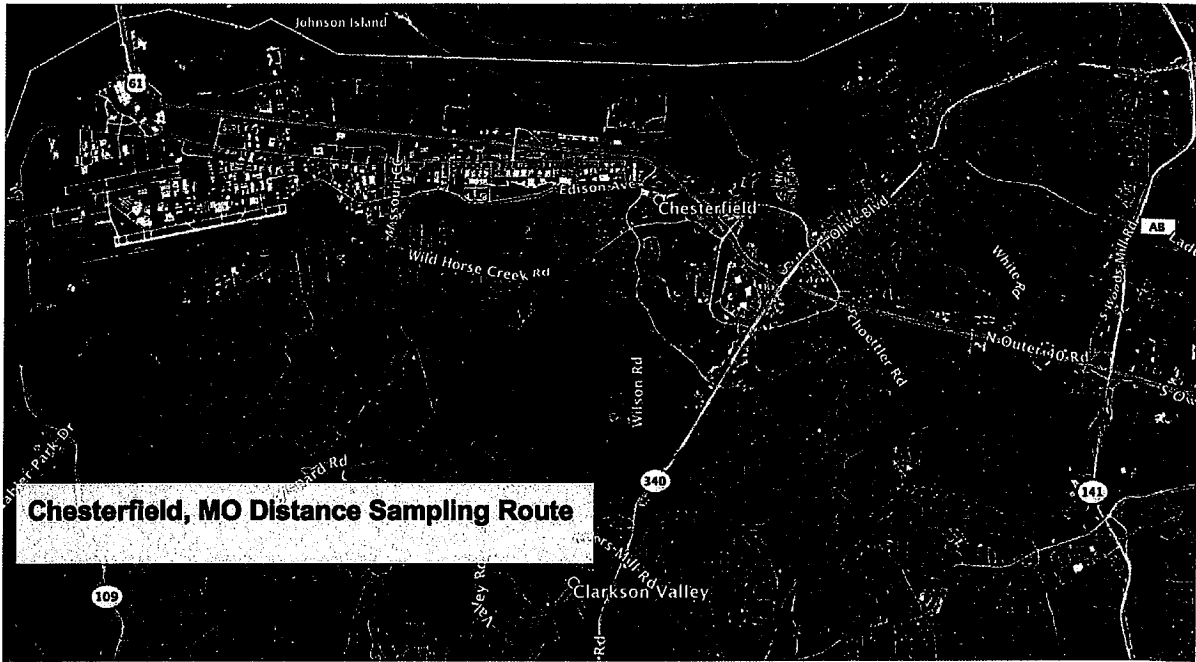


Figure 2. Chesterfield, MO Distance Sampling Zone Map

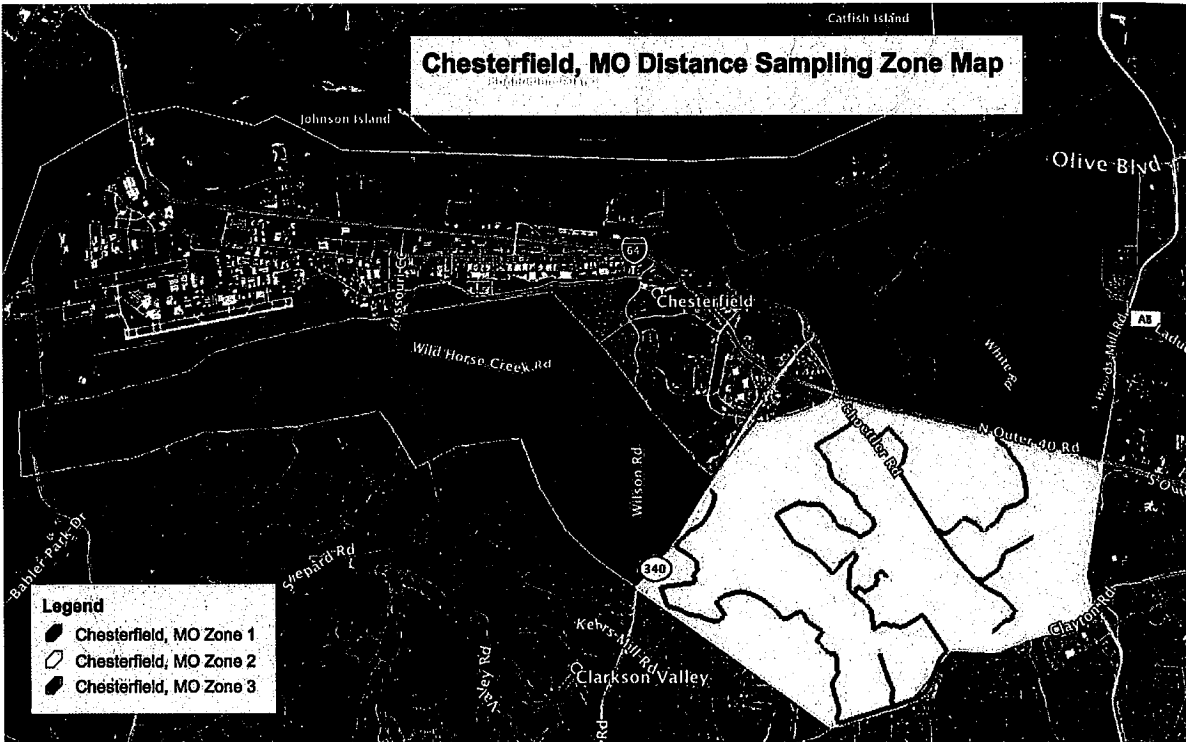


Figure 3. Chesterfield, MO deer observations 13 & 14 January 2018



Appendix A. Distance Sampling Observation Chesterfield, MO 12-15 January 2018

| Date | Number of Deer in Group | Perpendicular Distance (yd) | Location |
|---------------|-------------------------|-----------------------------|------------------------------------|
| Zone 1 | | | |
| 1/12/18 | 4 | 36 | 31 Arrowhead Estates Ln |
| 1/12/18 | 3 | 66 | Greentrails Dr South/Branchport Dr |
| 1/12/18 | 1 | 62 | 14443 White Birch Valley Ln |
| 1/12/18 | 4 | 128 | 364 Diplomat Ln |
| 1/12/18 | 5 | 50 | 14072 Cross Trails Dr |
| 1/12/18 | 1 | 78 | 14072 Cross Trails Dr |
| 1/12/18 | 2 | 64 | 14056 Cross Trails Dr |
| Zone 1 | | | |
| 1/13/18 | 3 | 14 | 22 Arrowhead Estates Ln |
| 1/13/18 | 2 | 47 | Duxbury Way/Appalachian Trail |
| 1/13/18 | 2 | 45 | 15399 Appalachian Trail |
| 1/13/18 | 2 | 44 | 1246 Hidden Oak Dr |
| 1/13/18 | 1 | 56 | 1252 Still House Creek Rd |
| 1/13/18 | 1 | 65 | 1387 Still House Creek Rd |
| 1/13/18 | 1 | 50 | Conway Rd/White Rd |
| 1/13/18 | 2 | 130 | Appalachian Trail/White Rd |
| 1/13/18 | 2 | 17 | White Rd/Rogue River Dr |
| 1/13/18 | 2 | 43 | Greentrails Dr South/Branchport Dr |
| 1/13/18 | 2 | 27 | 244 Greentrails Dr South |
| 1/13/18 | 1 | 48 | Tealcrest Dr/Greentrails Dr S |
| 1/13/18 | 1 | 44 | 14442 Corallin Dr |
| 1/13/18 | 1 | 29 | 14422 Corallin Dr |
| 1/13/18 | 1 | 45 | 14410 Corallin Dr |
| 1/13/18 | 2 | 24 | Marmont Dr/Portico Dr |
| 1/13/18 | 5 | 45 | 90 River Bend Dr |
| 1/13/18 | 2 | 79 | Ridgemeanow Dr/Crownridge Dr |
| 1/13/18 | 4 | 2 | 214 Glen Valley Dr |
| 1/13/18 | 6 | 36 | Parliament Dr/Green Trails Dr |
| 1/13/18 | 1 | 78 | 14211 Parliament Dr |
| 1/13/18 | 1 | 56 | 14173 Cross Trails Dr |
| 1/13/18 | 1 | 71 | 14165 Cross Trails Dr |
| 1/13/18 | 2 | 54 | 14056 Cross Trails Dr |
| 1/13/18 | 1 | 5 | 14056 Cross Trails Dr |
| 1/13/18 | 3 | 16 | 14056 Cross Trails Dr |
| Zone 1 | | | |
| 1/15/18 | 3 | 55 | White Rd/Rainy Lake Rd |
| 1/15/18 | 5 | 100 | Greentrails Dr South/Branchport Dr |
| 1/15/18 | 2 | 76 | 284 Greentrails Dr South |
| 1/15/18 | 3 | 25 | 14410 Corallin Dr |
| 1/15/18 | 3 | 58 | 14428 White Birch Valley Ln |
| 1/15/18 | 6 | 68 | 273 Glen Hollow Dr |
| Zone 2 | | | |
| 1/12/18 | 4 | 35 | Schoettler Rd/Chermore Dr |

| | | | |
|---------|---|-----|-------------------------------------|
| 1/12/18 | 1 | 70 | Schoettler Rd/Chermore Dr |
| 1/12/18 | 2 | 2 | 14642 Chesterfield Trails Dr |
| 1/12/18 | 3 | 38 | 14642 Chesterfield Trails Dr |
| 1/12/18 | 2 | 84 | Schoettler Valley Dr/Squires Way Dr |
| 1/12/18 | 2 | 43 | 2031 Scoettler Valley Dr |
| 1/12/18 | 3 | 119 | Cedarmill Dr/Clover Ridge Dr |
| 1/12/18 | 1 | 49 | 15046 Manor Ridge Dr |
| 1/12/18 | 4 | 53 | Clayton Rd/Claymont Estates Dr |
| 1/12/18 | 5 | 97 | 15167 Denwoods Dr |

Zone 2

| | | | |
|---------|---|-----|--|
| 1/14/18 | 2 | 68 | 1472 Chesterfield Trails Dr |
| 1/14/18 | 4 | 54 | 14573 Britannia Dr |
| 1/14/18 | 4 | 40 | Schoettler Rd/Windsor Valley Ct |
| 1/14/18 | 2 | 50 | Schoettler Rd/Windsor Valley Ct |
| 1/14/18 | 3 | 197 | Schoettler Rd/Beatrice B.Hagen Mem. Dr |
| 1/14/18 | 2 | 215 | Schoettler Rd/Beatrice B.Hagen Mem. Dr |
| 1/14/18 | 2 | 96 | 14867 Sycamore Manor Dr |
| 1/14/18 | 1 | 16 | 15460 Highcroft Dr |
| 1/14/18 | 2 | 165 | Cedarmill Dr/Twingate Dr |
| 1/14/18 | 3 | 135 | Cedarmill Dr/Twingate Dr |
| 1/14/18 | 3 | 46 | 15579 Summer Lake Dr |
| 1/14/18 | 3 | 4 | 15079 Manor Creek Dr |
| 1/14/18 | 2 | 15 | 14949 Manor Ridge Dr |
| 1/14/18 | 3 | 3 | Baxter Rd/Baxter Village Dr |
| 1/14/18 | 1 | 85 | 620 Claymont Estates Dr |
| 1/14/18 | 1 | 72 | 2126 Park Forest Dr |

Zone 2

| | | | |
|---------|---|----|----------------------------|
| 1/15/18 | 4 | 97 | 14529 Amstell Ct |
| 1/15/18 | 3 | 96 | 14565 Harleston Village Dr |
| 1/15/18 | 3 | 98 | 14836 Sycamore Manor Dr |
| 1/15/18 | 5 | 71 | 1926 Schoettler Valley Dr |
| 1/15/18 | 2 | 82 | Cedarmill Dr/Twingate Dr |
| 1/15/18 | 1 | 16 | 1800 Summer Lake Dr |
| 1/15/18 | 3 | 20 | Baxter Rd/Manor Creek Dr |
| 1/15/18 | 2 | 50 | 15058 Manor Ridge Dr |

Zone 3

| | | | |
|---------|---|-----|---|
| 1/13/18 | 4 | 52 | Wilson Farm Dr/Wilson Ridge Ln |
| 1/13/18 | 2 | 46 | Wilson Rd/Chamfers Farm Rd |
| 1/13/18 | 1 | 51 | Wilson Rd/Chamfers Farm Rd |
| 1/13/18 | 4 | 5 | 29 Chesterfield Lakes Rd |
| 1/13/18 | 2 | 35 | 36 Chesterfield Lakes Rd |
| 1/13/18 | 3 | 98 | 1216 Wilson Rd |
| 1/13/18 | 4 | 70 | Wild Horse Creek Rd/Riverdale Dr |
| 1/13/18 | 3 | 16 | Wild Horse Creek Rd/Carriage Crossing Ln |
| 1/13/18 | 2 | 142 | 1309 Carriage Crossing Ln |
| 1/13/18 | 2 | 69 | 1317 Carriage Crossing Ln |
| 1/13/18 | 6 | 63 | 17303 Countryside Manor Pkwy |
| 1/13/18 | 3 | 89 | Countryside Manor Pkwy/Country Lake Est. Dr |
| 1/13/18 | 1 | 67 | 17918 Bonhomme Ridge Ct |
| 1/13/18 | 1 | 45 | Chesterfield Oaks Dr/Wild Horse Creek Rd |

Zone 3

| | | | |
|---------|---|---|---------------------------|
| 1/14/18 | 2 | 8 | Wilson Rd/ Wilson Farm Dr |
|---------|---|---|---------------------------|

| | | | |
|---------|---|----|--|
| 1/14/18 | 6 | 4 | Wilson Rd/ Wilson Farm Dr |
| 1/14/18 | 3 | 82 | 16305 Wilson Farm Dr |
| 1/14/18 | 3 | 16 | 16434 Wilson Farm Dr |
| 1/14/18 | 1 | 13 | 16469 Wilson Farm Dr |
| 1/14/18 | 4 | 2 | 1888 Stenton Path |
| 1/14/18 | 1 | 70 | Wilson Rd/Wilson Manor Dr |
| 1/14/18 | 1 | 20 | 16847 Wild Horse Creek Rd |
| 1/14/18 | 1 | 29 | Riverdale Dr/Wild Horse Creek Rd |
| 1/14/18 | 1 | 55 | 1332 Carriage Crossing Ln |
| 1/14/18 | 1 | 15 | 1369 Carriage Crossing Ln |
| 1/14/18 | 5 | 45 | 1415 Carriage Crossing Ln |
| 1/14/18 | 5 | 29 | 17329 Countryside Manor Pkwy |
| 1/14/18 | 3 | 1 | 1470 Country Lake Estates Dr |
| 1/14/18 | 3 | 46 | 1478 Country Lake Estates Dr |
| 1/14/18 | 3 | 58 | Greystone Manor Pkwy/Grey Abbey Ct |
| 1/14/18 | 3 | 68 | 17883 Bonhomme Fork Ct |
| 1/14/18 | 1 | 49 | 17865 Bonhomme Fork Ct |
| 1/14/18 | 1 | 38 | Greystone Manor Pkwy/Wild Horse Creek Rd |
| 1/14/18 | 2 | 61 | 17842 Wild Horse Creek |
| 1/14/18 | 3 | 62 | Fick Farm Rd/Old Wild Horse Creek Rd |

Ray Johnson

From: Erin Shank <Erin.Shank@mdc.mo.gov>
Sent: Monday, February 05, 2018 11:05 AM
To: Ray Johnson
Cc: Mike Geisel
Subject: RE: Question...White Buffalo Survey

Hi Chief Johnson,

I had a chance to review the report and was somewhat surprised at the densities—I thought they would be higher. But that's good news. The deer densities observed in Chesterfield are similar to communities like Ladue and Manchester, and lower than other communities experiencing severe deer damage issues such as Sunset Hills and Town & Country (prior to their current management strategy).

At these levels, it's my opinion that Chesterfield should be able to control the growth of the deer herd through archery hunting if the city is willing to recruit and promote the practice with key landowners. Properties with large acreage, drainages that act as wildlife corridors, and common ground areas are frequently the most productive for deer harvest by archery hunters.

Obtaining a special permit to cull deer out of season and/or using bait is also an option for Chesterfield. Missouri Department of Conservation (MDC) will issue such a permit to Chesterfield if the city has a deer management plan in place. I can help Chesterfield draft a management plan and am happy to discuss this further with you if you'd like to pursue this option.

Let me know if I can provide any additional information. Thanks for your efforts to conduct the survey, it's valuable information for the community when making decisions about deer management.

Erin

Erin Shank
Wildlife Biologist
Missouri Department of Conservation
Powder Valley Conservation Nature Center
11715 Cragwold Road
St. Louis, MO 63122
314-301-1506 x4207
Erin.Shank@mdc.mo.gov

From: Ray Johnson [<mailto:RJohnson@chesterfield.mo.us>]
Sent: Tuesday, January 30, 2018 2:43 PM
To: Erin Shank <Erin.Shank@mdc.mo.gov>
Cc: Mike Geisel <mgeisel@chesterfield.mo.us>
Subject: Question...White Buffalo Survey

Erin....by now you should have received a copy of the Deer Distance Sampling report for Chesterfield from White Buffalo. One question; now that we have the count on the

population density (they indicate 24.6 per sq mi).....my understanding is that number would be used to determine the number of deer which could be harvested by means of a controlled shoot. If so, I assume you guys (DNR) will be the ones to make that determination.....any idea how long before we would be advised of that number? And, any other info we would need to assist our council in determining what action if any they wish to pursue??? Thanks!!

Chief Ray Johnson
Chesterfield Police Dept.

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