

## **Rosche, Kimberly FLNR:EX**

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Monday, September 12, 2016 2:14 PM  
**To:** 'Jared Wright (jwright@ubcm.ca)'  
**Subject:** 2016-09-12 PUDAC draft minutes  
**Attachments:** PUDAC2016-09-07-Minutes.docx

Hi Jared---This is what I recorded.

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

# Provincial Urban Deer Advisory Committee Meeting Minutes

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**Date:** September 7, 1:30 p.m.-3:30 p.m.

**Location:** Teleconference

Phone in: s.15

Participant ID: s.15

**Invitees:**

Jared Wright, UBCM - in attendance

Doug Patemen, Town of Princeton - in attendance

Nils Jensen, District of Oak Bay- in attendance

Laurey-Anne Roodenburg, City of Quesnel- in attendance

Jeff Morgan, Fish and Wildlife Branch (FLNRO) - in attendance

Sean Pendergast, Fish and Wildlife – Regional Operations (FLNRO) - in attendance

Irene Teske, Fish and Wildlife – Regional Operations (FLNRO)-regrets

Holger Bohm, Fish and Wildlife – Regional Operations (FLNRO) - in attendance

Mike Badry, Conservation Officer Services (MoE) - in attendance

Leonard Sielecki, MOTI - in attendance

Orlando Schmidt, MAG - in attendance

Paul de Leur, ICBC- in attendance

Sara Dubois, BC SPCA - in attendance

**Chair:** Jeff Morgan

**Primary Objective:** To set firm direction for the finalization of the TOR for the PUDAC and the program plan for the PUDOCs Program.

**Agreements**

1. Alternates – Committee members should/can assign alternates who would attend PUDAC meetings in their absence.
2. Delegates – From time to time, and based on consensus within the Committee, individual experts or representatives of other groups will be invited to make presentations to the PUDAC.
3. Meetings - It is anticipated that the PUDAC will convene 1 face-to-face meeting and 2 conference calls per year. In the 2016/17 fiscal the meeting frequency may be higher due to start-up work. In future years some face-to-face meetings may be scheduled to coincide with UBCM conventions. However, it is anticipated that many face-to-face meetings will be held in Richmond at the UBCM office.



4. Urban deer conflict – is defined as the conflict that can arise due to the presence of deer in areas of high to medium human densities (e.g. urban, semi-rural) where the use of traditional wildlife management tools (e.g. hunting) cannot be used.
5. The Provincial Government will establish a single website which will act as a depository for information on Urban Deer Policy, SOPs, programming etc..
6. The Chair will represent the PUDAC in the media. Individual organizations will be expected represent themselves in the media when commenting on finalized government policies or decisions but they should not be releasing or commenting on draft products or the workings of the PUDAC.
7. Within the TOR the last bulleted objective should be removed.
8. Funding through the Provincial Urban Deer Cost-Share Program should be made available to support some infrastructure (e.g. fences) projects however, such work should be ranked as a lower priority when compared to direct population management activities.
9. In future fiscal years the Provincial Urban Deer Operational Cost-Share Program's call for proposals should go out in early spring in order for municipalities to effectively plan and budget for projects and the review period should require one month.
10. Cost-share funding levels for culls will be at set rate per animal culled and these rates will attempts to cover 50% of the costs. All other cost-share funding proportions will be at the discretion of the program's expense authority.
11. Cost-sharing projects with other 3rd parties is viewed as beneficial provided the project has the approval of the relevant local government and provided the relevant local government is responsible for the submission of the funding application and the management of the project's budget. In this circumstance, the local government could be eligible for funding even though it might not be making direct financial contributions to the project.

## **Actions**

1. In opening paragraph of the Program Plan, provide language which balances (e.g. community responsibility for managing urban deer conflict). Jeff Morgan
2. Investigate opportunities for the cost-share program to carry-over unused funding. Jeff Morgan
3. Within the 'call for proposals' makes reporting expectations very clear and include an example template. Jeff Morgan
4. The PUDAC will form a sub-committee that will help to provide an evaluation on the Provincial Urban Deer Cost-Share Program proposals. This sub-committee will report to the PUDAC (Sean Pendergast, Laurey-Anne Roodenburg, Jeff Morgan, Sarah Dubois, Paul de Leur and Mike Badry are willing to participate on the sub-committee as is Leonard Sielecki pending manager approvals).

5. Committee member travel – Both FLNR and UBCM will inquire as to the ability of funding to be made available to support the travel of non-agency PUDAC members?
6. Mike Badry (MoE - COS) and Jeff Morgan (FLNR) to consider the best long-term urban-deer webpage location.

### **Announcements**

1. Funding can sometimes be available for roadway infrastructure through ICBC and MOTI programs.

### **Next Steps**

The TOR and the Program Plan will be updated to reflect the above and other more minor comments received. The penultimate drafts will be submitted back to the PUDAC and FLNR Executive for review (in parallel) by September 23<sup>rd</sup>.

**From:** Morgan, Jeff A FLNR:EX  
**To:** Teske, Irene FLNR:EX  
**Subject:** 2016-09-14 RE: final minutes of first PUDAC meeting  
**Date:** Wednesday, September 14, 2016 10:41:00 AM

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Jeff Morgan  
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Resource Stewardship Division  
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**From:** Teske, Irene FLNR:EX  
**Sent:** Wednesday, September 14, 2016 10:23 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** RE: final minutes of first PUDAC meeting  
Ok I will send those out.

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, September 14, 2016 11:18 AM  
**To:** Teske, Irene FLNR:EX  
**Subject:** RE: final minutes of first PUDAC meeting  
Yes he did partially,

The draft mins were attached to the calendar invite. They were unchanged so are now final...

Jeff Morgan  
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**From:** Teske, Irene FLNR:EX  
**Sent:** Wednesday, September 14, 2016 10:14 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** final minutes of first PUDAC meeting  
Hi Jeff

Hope that Holger was able to attend Sept 7 conference call.

Please send final minutes of first meeting to me. I would like to pass along to EK communities.

Also let me know if you need anything from me.

Take care

*Irene E. Teske, RPBio*

*Wildlife biologist*

*Ministry of Forests, Lands and Natural Resource Operations*

*205 Industrial Road G*

*Cranbrook, BC V1C 7G5*

*250-489-8551 office*

## **Rosche, Kimberly FLNR:EX**

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Friday, September 23, 2016 3:12 PM  
**To:** Badry, Micheal J ENV:EX; Bohm, Holger FLNR:EX; Doug Pateman (dpateman@princeton.ca); Jared Wright (jwright@ubcm.ca); Laurey Roodenburg (lroodenburg@quesnel.ca); Nils B. Jensen ; Paul de Leur ; Pendergast, Sean FLNR:EX; Sara Dubois (sdubois@spca.bc.ca); Schmidt, Orlando AGRI:EX; Schwantje, Helen FLNR:EX; Sielecki, Leonard E TRAN:EX; Teske, Irene FLNR:EX  
**Subject:** 2016-09-23 PUDAC TOR and Cost-Share Program Plan  
**Attachments:** PROVINCIAL URBAN DEER ADVISORY COMMITTEE-TOR(2).docx; Urban\_Deer\_Program\_Plan(2).docx

Hello Everyone,

Please find attached what I hope are the penultimate versions of our PUDAC TOR and Cost-Share Program Plan. I hope to have captured our discussions and satisfied the comments that have been received. Please identify any errors, omissions, or opportunities for improvements and get your comments in to me next week.

FYI the Call for Proposals (to be developed next) will contain the Evaluation Criteria with the scoring system and the Application and Reporting Templates/Outlines.

Have a good weekend.

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
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# PROVINCIAL URBAN DEER ADVISORY COMMITTEE

## TERMS OF REFERENCE

September 2016

### Background

Deer have become increasingly common in urban environments throughout southern BC, especially in the Kootenay/Boundary, Okanagan and Vancouver Island Regions. This may be due to the dispersal of deer into urban environments or conversely the expansion of urban environments into more rural areas. Attractants, ranging from highly nutritious plants to foods deliberately set out for wildlife also serve to influence deer numbers in urban and sub-urban environments. Urban deer come into conflict with people by attacking pets and, more rarely, people. Urban deer also browse on landscape and garden vegetation, defecate, create hazards for motorists and they may possibly influence rates of transmission for some diseases (e.g. Lyme disease). At the same time, urban deer can be highly regarded. Many people enjoy viewing them and others are highly concerned for their welfare. This dichotomy has created significant management challenges in many communities in British Columbia. In the past, the provincial government has supported local governments through:

- Participation on community-based deer management committees,
- The provision of technical advice,
- The development of hunting regulations and the issuance of permits to manage deer populations within or near urban areas, and
- The loaning of available equipment to communities.

In January of 2015, the provincial government and the Union of BC Municipalities (UBCM) collaborated in the delivery of an Urban Deer Workshop. At the conclusion of the meeting, it was agreed that a Provincial Urban Deer Advisory Committee should be struck. It was also agreed that the UBCM would lead in the preparation of a local government Recommendations Package for the Provincial Government's consideration. This package reaffirmed the need for a provincial body with the following recommendation, "A provincial advisory committee on deer management should be created."

Further, it identified that, "a structured approach to ongoing dialogue on deer management would be beneficial for affected communities. This recommendation draws from the Minister's commitment to an annual meeting, which in the past has been referred to a 'task team' and an 'advisory committee.' Any advisory committee would complement the implementation of the other identified recommendations around resources, processes, roles and responsibilities, communication and education."

Government's response was "The provincial government is fully supportive of the formation of a Provincial Urban Deer Advisory Committee that would provide advice and share information on the resourcing, processes, roles and responsibilities, communication and educational materials and processes that relate to urban deer management."

**Purpose:**

The purpose of the Provincial Urban Deer Advisory Committee (PUDAC) is to provide consistent and authoritative support to all local governments in BC that contend with urban deer conflict.

Urban deer conflict is defined as the conflict that can arise due to the presence of deer in areas of high to medium human densities (e.g. urban, suburban, semi-rural) where the use of traditional wildlife management tools such as hunting is not appropriate.

The committee will convene representatives of organizations with authorities that relate to the management of urban deer and will enable all organizations to: 1) share, maintain, disseminate and develop information, 2) clarify and harmonise roles and responsibilities, and 3) to develop effective working relationships and partnerships.

**Objectives:**

The objective of the PUDAC will be to:

- clarify the roles and responsibilities of all levels of government, agencies, and other organizations;
- guide the development and dissemination of provincial level information and education materials;
- advise the provincial government on the development and implementation (e.g. funding decisions) of a 'Provincial Urban Deer Operation Cost Share Program';
- provide information on policy, legislation, regulations, management practices communications, public engagement and legal issues to all local governments that are contending with urban deer conflict; and
- provide advice on provincial government change priorities relating to all of the above.

**Scope:**

The scope of the PUDAC will be to develop and provide consistent, authoritative and provincial-level support to local governments that are managing and/or addressing urban deer (mule deer, black-tailed deer and white-tailed deer) issues in BC. The PUDAC will offer information and advice to local governments and it will be called upon to evaluate funding proposals however, it will not publically critique or comment on any local government management actions. The PUDAC's term is indefinite. However, as the committee matures, and as

information needs stabilize, the need for meetings, communications etc. may become less frequent and more focused on improving systems, processes and materials as issues arise.

### **Composition:**

The PUDAC will contain representatives from the following organizations, agencies, levels of government. The number of representatives for each is provided in brackets.

FLNR, Fish and Wildlife Branch (1)

FLNR, Regional Operations (2)

Ministry of Environment (1)

UBCM (1)

Ministry of Transportation—possible—to be invited

ICBC—to be invited

Ministry of Agriculture—possible—to be invited

Society for the Prevention of Cruelty to Animals (1)

Local Governments (3)

FLNR will provide the Chair.

From time to time, and as required, delegates from organizations such as WildSafe BC or the Urban Wildlife Stewardship Society may be invited by the PUDAC (based on consensus) in order to make presentations and provide information.

Local government representatives will be appointed through a UBCM Executive President's Committee process and they will be expected to provide views that are representative of the entire province.

All organizations may appoint an alternate to participate in meetings in the event of a regular member's absence.

From time to time the committee may break out into task-oriented subcommittees (e.g. Urban Deer Operational Cost-share Program proposal evaluation process).

### **Communication**

Communications regarding committee management, meeting etc. will be managed by a dedicated FLNR staff person through e-mail. The dissemination of finalized products (e.g. information and educational materials) will be posted a provincial government website.

The minutes of the PUDAC meetings will be considered confidential until they are finalized. Once finalized the minutes may be made available to the public. The minute will record action

items, announcements, agreements and clarifications. They will not attempt to characterize conversations that occur.

Only the Chair will be allowed to speak to the media on the PUDAC's behalf. The Chair will not represent the other organizations and instead will provide information on the functions and status of the committee only.

Organizations that have representation on the PUDAC, in their individual capacity, are free comment on management actions or products (e.g. policy, education materials) relating to urban deer. Despite the above all organizations that have representation on the PUDAC are expected to support the committee in both function and reputation.

### **Decision Making**

The PUDAC will operate in an advisory capacity and strive to provide consensus based advice to decision makers in all participating organizations. If consensus is not achieved, the PUDAC will document and advance both congruence and dissent to the appropriate decision maker.

### **Meeting Logistics**

The PUDAC will meet 3 times per year. One meeting will be face to face and the others will be via conference calls. Most face to face meetings will be held in Richmond (UBCM venue). Depending on logistics, some meetings may be coordinated with the UBCM Conventions. When the UBCM is hosting, FLNRO will provide the lunches.



# Program Plan for the Provincial Urban Deer Operational Cost Share Program

## 1. Introduction

Deer have become increasingly common in urban environments throughout southern BC, especially in the Kootenay/Boundary, Okanagan and Vancouver Island Regions. This may be due to the dispersal of deer into urban environments or conversely the expansion of urban environments into more rural areas. Attractants, ranging from highly nutritious plants to foods deliberately set out for wildlife also serve to influence deer numbers in urban and sub-urban environments. Urban deer come into conflict with people by attacking pets and, more rarely, people. Urban deer also browse on landscape and garden vegetation, defecate, create hazards for motorists and they may possibly influence rates of transmission for some diseases (e.g. Lyme disease). At the same time, urban deer can be highly regarded. Many people enjoy viewing them and others are highly concerned for their welfare. This dichotomy has created significant management challenges in many communities in British Columbia. In the past, the provincial government has supported local governments through:

- Participation on community-based committees,
- The provision of technical advice,
- The development of hunting regulations and the issuance of permits to manage deer populations within or near urban areas, and
- The loaning of available equipment to communities as required.

In January of 2015, the provincial government and the Union of BC Municipalities (UBCM) collaborated in the delivery of an Urban Deer Workshop. At the conclusion of the meeting, it was agreed that a Provincial Urban Deer Advisory Committee should be struck. It was also agreed that the UBCM would lead in the preparation of a local government Recommendations Package for the Provincial Government's consideration. This package contained three recommendations that were related to the call for the provincial government provide funding for urban deer management actions. These three recommendations follow.

### **Recommendation 1: The provincial government should offer funding to address deer management issues.**

Similar to the wildfire management funding program or the BearSmart program, the provincial government should provide financial support to communities who are facing urban deer management issues. The Province could support an urban deer management program administered by a neutral third party, such as Wildsafe BC, with program funds going towards school education programs, fencing, or deer culls. Only communities that have undertaken some work on urban or rural deer management should be eligible for the fund (i.e. the community has an education program, an urban or rural deer committee, changed bylaws, etc.).

### **Recommendation 2: The provincial government should fund research on new deer management tools.**

Local governments are currently funding research on deer management options such as hazing, relocation, and contraceptives. The provincial government should assist in funding these technical and complicated scientific studies on deer management practices.

**Recommendation 6: The provincial government should create criteria and overarching policy for regional FLNRO managers, and ensure equal funding between regions.**

The goal of this recommendation is to reduce the amount of discretion applied by the Regional managers so that deer management is addressed in an equitable and consistent manner across the province.

FLNR's response (summarized) was: The Ministry of Forests, Lands and Natural Resource Operations supports the creation of a cost-share partnership initiative that would help local governments to address urban deer issues. The details and structure of the cost-share opportunity will be developed by FLNR with input from the Provincial Urban Deer Advisory Committee. The province is prepared to commit up to \$100,000 per year toward such partnerships (unused funds will not be carried over fiscal years). The details and structure of the cost-share opportunity will be developed by FLNR with input from the Provincial Urban Deer Advisory Committee. It is anticipated that this initiative will involve eligibility criteria and a system for prioritizing projects that would be applied equally to the entire province. Research activities that are supported by the provincial government would also be eligible for cost-share-support. Funding would depend on program and annual priorities and on funding availability.

## **2. Principles**

The *Provincial Urban Deer Operational Cost Share Program* will:

- Provide cost-share support to local governments and partners that have invested in operational deer management, research activities, or strategic infrastructure that are in pursuit of objectives developed through a community-based planning process,
- Fund the development education or communication materials that are provincial in scope,
- Fund the purchase of government equipment that can then be loaned to local governments,
- Require that the projects have the endorsement of local government (councils or boards) or Indian Bands where the activities will take place,
- Require that the projects undertake works in accordance with an approved permit issued under the *Wildlife Act*,
- Expect statutory decision makers to ensure all human safety, animal welfare and public engagement considerations have been addressed,
- Establish criteria to evaluate project proposals each year,
- Rely on the Provincial Urban Deer Advisory Committee to provide input into the evaluation process, and
- Develop and maintain a reporting and monitoring systems in order to evaluate success, maintain communications and improve practices.

## **3. Objectives**

- To encourage effective community-based urban deer planning and communications,
- To support high-value projects that will effectively manage urban deer,

- To provide learning opportunities through scientifically rigorous operational trials,
- To effectively partner with local government in the delivery of urban deer management actions,
- To recognize community-based planning objectives and assist local governments to achieve their objectives,
- To foster a standardized and structured approach to management actions, reporting and monitoring in order to learn from past practices and continuously improve 'best practices',
- To encourage effective communications and information transfer between the provincial and local governments,
- To develop effective education materials, and
- To acquire and then loan specialized deer capture equipment to local governments.

#### **4. Program Management and Financial Considerations**

FLNR will provide up to \$100,000 in cost-share funding per fiscal year. This funding will remain under the control of FLNR. In order to access funding, local governments will be required to complete standardized 'project plan' templates and submit them to the Provincial Urban Deer Advisory Committee for evaluation.

The Fish and Wildlife Management Branch will ask the Provincial Urban Deer Advisory Committee to evaluate all proposals based on an established system\*. The evaluations will be used to provide advice to the Fish and Wildlife Management Branch. Within funding limitations, and based on the proposal prioritization, funding commitments will be made by the Fish and Wildlife Management Branch.

The Fish and Wildlife Branch will be responsible for the final funding allocations and will notify the successful and unsuccessful communities according to established timelines. Funding allotments, and general conditions and timelines will be communicated through a conditional funding agreement.

The applicant will be required to confirm that it can meet the expressed expectations and is prepared to accept to funding that is offered by signing the conditional funding agreement.

The Fish and Wildlife Branch and local government (or lead local government-in the case of a multi-jurisdictional project) will then develop and enter into a contract.

Once the works specified in the contract's 'Schedule A' have been completed, the local government will invoice the Fish and Wildlife Branch. Invoices will be received no later than March 15 in any given year.

Once the invoice has been received and the services described in Schedule A are recognized as having been completed, the Fish and Wildlife Branch will make payment to the local government.

#### **5. Funding**

The *Provincial Urban Deer Operational Cost Share Program* will provide financial support to local governments that have undertaken activities to manage deer populations within their jurisdiction. Eligible activities will include direct operational management activities, research trials, or anti-deer structures (e.g. fencing, cattle guards etc.). The funding could also be used by FLNR (regional

Operations) to purchase equipment (e.g. traps) that could then be loaned to local governments or it could be used to develop education or communications material that are provincial in scope.

All project proposals from local governments must pursue objectives that are contained within a community-based planning process. Further, multi-year approvals may be made but will be subject to appropriation.

### **5.1 Funding for Operational Activities**

‘Operational activities’ are those that are intended to directly manage individual deer or deer populations and that are known to be effective in achieving immediate objectives while managing all associated risks. Presently, culling (capture and bolt gun) is the only direct activity that is considered ‘operational’. Culling operations in the interior of BC will be supported at a rate of \$200.00 for each deer that is culled. In coastal BC, culls will be supported at a rate of \$300.00 for each deer that is culled. This support is intended to match the local government’s operational costs associated with culling on a 50/50 basis. Cost-share funding support for management activities will be capped at \$20,000 per local government, per year.

### **5.2 Funding for Research Activities**

‘Research activities’ are defined as trial-based activities that are intended to directly or indirectly manage individual deer or deer populations. Trial-based activities are those that have not been yet been demonstrated to be effective in achieving objectives and managing associated risks in the BC context. Activities such as hazing, translocation and immuno-contraception are some examples that would fall into this category. Funding support for research will not be based on formulae. Rather, they will be based on the value of the research, funding partner commitments and an evaluation of competing priorities. All research activities must be scientifically rigorous and will be evaluated according separate criteria. Cost-share funding support for research will generally be capped at \$20,000 per project, per year. This funding will be subject to discretion of the Fish and Wildlife Branch and multi-year arrangements may be possible.

### **5.3 Funding for Strategic Anti-deer Infrastructure**

Strategic anti-deer infrastructure is defined as physical barriers that will prevent or impede the movement of deer into urban and sub-urban areas (with high density housing) and associated facilities where they are likely to come into conflict with people. Infrastructure projects would involve only those techniques that are known to be effective in achieving objectives while managing all associated risks. Examples could include the use of fencing and cattle guards in strategic locations along roadways, at important green-belt pinch points or around waste disposal facilities. If the project proposes to use infra-structure that is not known to be effective in achieving objectives while managing all associated risks then the project might fall within the research category. Cost-share funding support for infrastructure will be capped at \$20,000 per local government per year but the amounts allocated to local governments will be subject to discretion of the Fish and Wildlife Branch.

## 5.4 Funding for Communications, Education and Equipment

Program funding may be used to support the development of communications and educational materials that are provincial in scope and currently not available. The *Provincial Urban Deer Advisory Committee* will be tasked with proposing priority communications and submitting this to the Fish and Wildlife Branch. Similarly, at the discretion of the Fish and Wildlife Branch, funding may be used to purchase provincial government equipment (e.g. traps) that could then be loaned to local governments that are engaged in deer management actions.

### Project Evaluation Criteria

Detailed evaluation criteria for the funding categories will be developed by government, with input from the PUDAC. In order to be eligible for funding, projects will require endorsement by the appropriate local government, permitting to be in place (or approvals assured) and they must be compliant with all applicable laws and by-laws. All project proposals must pursue objectives generated through a well described community-based planning process that is endorsed by the appropriate local government. All proposals will commit to monitoring and reporting requirements. Standardized monitoring and reporting requirements will be established by government, with input from the PUDAC. All non-research proposals will be evaluated on the following general criteria:

- Probability of achieving the stated objective,
- The value of the stated objective,
  - Impact,
  - Duration,
- Ability of the project to manage associated risks\*,
  - Animal welfare,
  - Human safety,
  - Environmental,
- Contributions from other funding partners, and
- Linkage to multi-jurisdictional initiatives.

All research proposals will be evaluated on the following additional general criteria:

- The management value of the stated research question,
- Probability of generating meaningful results,
  - Research design,
  - Funding commitment,
  - Management (e.g. committee) structure,
- Ability of the project to manage associated risks\*,
  - Animal welfare,
  - Human safety,
  - Environmental, and
- Contributions from other funding partners.

Once the PUDAC Proposal Review Subcommittee has evaluated the proposals, the evaluations will be made available to the Fish and Wildlife Branch to support its funding allocation decision making processes.

\*If an established risk threshold cannot be achieved, the project will not be funded.

## **6. Communications**

All project funding proposals, decisions, and subsequent reports will be made available to the public through a government website.

## **7. Immediate Deliverables and Timelines:**

The following tasks and timelines have been established to finalize the TOR for the PUDAC and the program plan for the PUDACS Program and to implement the PUDACS Program in the 2016/17 fiscal.

- **July 29, 2016:** Send out e-mail to the members PUDAC that announces the membership, the committee's immediate goals and timelines and provides important materials for review.
- **Aug 15-19, 2016:** Innaugural meeting with an intent to clarify immediate goals and to set direction for the fianalization of the TOR for the PUDAC and the program plan for the PUDACS Program.
- **September 6-9, 2016:** Second meeting with an intent set firm direction for the finalization of the TOR for the PUDAC and the program plan for the PUDACS Program.
- **September 23, 2016:** Penultimate Drafts of the TOR and Program Plan are submitted to ADM RSD for approval.
- **October 3, 2016:** call for Provincial Urban Deer Operation Cost-Share Program proposals go out (for 2016/17 fiscal).
  - Funding criteria, eligibility and formulas communicated, application templates (operational, research trial, infrastaructure) and reporting templates provided.
- **November 4, 2016:** Deadline for local governments to submit their project proposals.
- **November 18, 2016:** PUDAC Review of Proposals Completed.
- **November 25, 2016:** Branch notifies local governments of their available funding allotments (through 'agreements in principle').
- **December 16, 2016:** Branch enters into financial agreements with successful local governments.
- **March 15, 2017:** Deadline for local governments to submit invoices and project completion reports the Branch.
- **March 31, 2016:** Deadline for Fish and Wildlife Branch to have made all payments when services and project completion reports are "received".

- **Winter 2016/17:** Develop and disseminate a public communications document that describes the urban deer management challenge, community based planning processes, management tools and administrative processes.
- **Winter 2016/17:** Develop the following documents;
  - Roles and responsibilities of agencies, organizations and local governments in the management of urban deer
  - Best Practices in the direct management of urban deer
  - Procedure on the issuance of urban deer management permits

## **Rosche, Kimberly FLNR:EX**

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Saturday, September 24, 2016 12:10 PM  
**To:** Schwantje, Helen FLNR:EX  
**Subject:** 2016-09-24 RE: PUDAC TOR and Cost-Share Program Plan

Thanks Helen,

I see you as the PUDAC's 'expert on standby' (who will be kept in the loop). There will be the need to develop technical/scientific products, or to discuss them (e.g. Sara), and when that happens we will seek your advice/involvement (in PUDAC and in the Urban Deer Working Group).

Does that work?

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
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**From:** Schwantje, Helen FLNR:EX  
**Sent:** Friday, September 23, 2016 9:17 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** Re: PUDAC TOR and Cost-Share Program Plan

Jeff  
Haven't heard from you re any specifics with regard to me and my role in this other than the Sarah email so I assume there isn't anything you need me for re PUDAC  
Hope all is well  
Helen

On Sep 23, 2016, at 3:11 PM, Morgan, Jeff A FLNR:EX <[Jeff.Morgan@gov.bc.ca](mailto:Jeff.Morgan@gov.bc.ca)> wrote:

Hello Everyone,

Please find attached what I hope are the penultimate versions of our PUDAC TOR and Cost-Share Program Plan. I hope to have captured our discussions and satisfied the comments that have been received. Please identify any errors, omissions, or opportunities for improvements and get your comments in to me next week.

FYI the Call for Proposals (to be developed next) will contain the Evaluation Criteria with the scoring system and the Application and Reporting Templates/Outlines.

Have a good weekend.

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations



Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

**From:** [Morgan, Jeff A FLNR:EX](#)  
**To:** [Badry, Micheal J ENV:EX](#); [Bohm, Holger FLNR:EX](#); [Doug Pateman \(dpateman@princeton.ca\)](#); [Jared Wright \(jwright@ubcm.ca\)](#); [Laurey Roodenburg \(lroodenburg@quesnel.ca\)](#); [Nils B. Jensen](#) ; [Paul de Leur](#) ; [Pendergast, Sean FLNR:EX](#); [Sara Dubois \(sdubois@spca.bc.ca\)](#); [Schmidt, Orlando AGRI:EX](#); [Schwantje, Helen FLNR:EX](#); [Sielecki, Leonard E TRAN:EX](#); [Teske, Irene FLNR:EX](#)  
**Subject:** 2016-09-26 PUDAC Meeting  
**Attachments:** [PUDAC Minutes 2016-08-15.docx](#)  
[PUDACAgenda2016-09-07.docx](#)  
[Urban Deer docs feedback.msg](#)  
[comments to draft urban deer documents.msg](#)

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Hello Everyone,

Please find attached the draft minutes for the Aug 15th meeting and the agenda for our September 7th meeting.

For your information the BC Urban Ungulate Conflict Analysis and the BC Urban Ungulate Conflict Analysis: Summary Report for Municipalities can be found at (<http://www2.gov.bc.ca/gov/content/environment/plants-animals-ecosystems/wildlife/human-wildlife-conflict/staying-safe-around-wildlife/deer-elk-and-moose-ungulates>). The links were not working last week but Mike Badry is looking in to this.

Please find Sara Dubois' and Irene Teske's comments on the TOR and the Program Plan in the attached items (thank you Sara and Irene). I don't think I have received anything from anyone else. If you get a chance to send something in before our meeting tomorrow that would be appreciated, otherwise please bring your questions and insights to the meeting.

# Provincial Urban Deer Advisory Committee Meeting Agenda

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**Date:** September 7, 1:30 p.m.-3:30 p.m.

**Location:** Teleconference

Phone in: s.15 . Participant ID: s.15

**Invitees:**

Jared Wright, UBCM

Doug Patemen, Town of Princeton

Nils Jensen, District of Oak Bay

Laurey-Anne Roodenburg, City of Quesnel

Jeff Morgan, Fish and Wildlife Branch (FLNRO)

Helen Schwantje, Fish and Wildlife Branch (FLNRO)

Sean Pendergast, Fish and Wildlife – Regional Operations (FLNRO)

Irene Teske, Fish and Wildlife – Regional Operations (FLNRO)

Holger Bohm, Fish and Wildlife – Regional Operations (FLNRO)

Mike Badry, Conservation Officer Services (MoE)

Leonard Sielecki, MOTI

Orlando Schmidt, MAG

Paul de Leur, ICBC

Sara Dubois, BC SPCA

**Chair:** Jeff Morgan

**Primary Objective:** To set firm direction for the finalization of the TOR for the PUDAC and the program plan for the PUDOCS Program.

**Topics:**

1. Introductions
2. Review Minutes (Aug 15<sup>th</sup>)
  - a. Action Items
3. Confirm Agenda
4. Review/Revise TOR - Discuss Committee Member's Input Received
5. Review/Revise Program Plan - Discuss Committee Member's Input Received
6. Others?
7. Closing Comments - All
8. Confirm Next Steps / Wrap-up ) – Jeff Morgan

# Provincial Urban Deer Advisory Committee Meeting Agenda

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**Date:** August 15, 10:00 a.m.-12:00 p.m.

**Location:** Teleconference

Phone in: s.15

Participant ID:s.15

**Invitees:**

Jared Wright, UBCM

Doug Patemen, Town of Princeton

Nils Jensen, District of Oak Bay

Laurey-Anne Roodenburg, City of Quesnel

Jeff Morgan, Fish and Wildlife Branch (FLNRO)

Helen Schwantje, Fish and Wildlife Branch (FLNRO)

Sean Pendergast, Fish and Wildlife – Regional Operations (FLNRO)

Irene Teske, Fish and Wildlife – Regional Operations (FLNRO)

Mike Badry, Conservation Officer Services (MoE)

Leonard Sielecki, MOTI

Orlando Schmidt, MAG

Paul de Leur, ICBC

Sara Dubois, BC SPCA

**Chair:** Jeff Morgan

**Primary Objective:** To become acquainted with the members of the PUDAC, review the PUDAC's immediate timelines, to provide a background on urban deer management in BC, to initiate a review of: 1) the PUDAC's TOR and 2) the Program Plan for the Urban Deer Cost-share Program.

**Topics:**

1. Introductions and Aspirations
2. Confirm Agenda
3. Background on Urban Deer Management in BC – Mike Badry
4. Immediate PUDAC Timelines – Jeff Morgan
5. Review Initiation (TOR, Program Plan) – Jeff Morgan
  - a. Identify areas that will require attention....
6. Others?
7. Closing Comments - All
8. Confirm Next Steps / Wrap-up ) – Jeff Morgan

## **Rosche, Kimberly FLNR:EX**

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Monday, September 26, 2016 11:08 AM  
**To:** Thomas, Keith D FLNR:EX  
**Subject:** 2016-09-26 RE: Urban Deer: PUDAC TOR and Cost-Share Program

Stob 80 rather...

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Monday, September 26, 2016 8:55 AM  
**To:** Thomas, Keith D FLNR:EX  
**Subject:** FW: Urban Deer: PUDAC TOR and Cost-Share Program

Hello Keith,

I hope you had a great summer.

You will find attached the Urban Deer Program Plan. I'm hoping all the funding categories are okay by you.

Also, I'm hoping we have the \$100K (Stob 60 primarily) set aside somewhere.....

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

## **Rosche, Kimberly FLNR:EX**

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, October 12, 2016 10:40 AM  
**To:** Badry, Micheal J ENV:EX; Bohm, Holger FLNR:EX; Doug Pateman (dpateman@princeton.ca); Jared Wright (jwright@ubcm.ca); Laurey Roodenburg (lroodenburg@quesnel.ca); Nils B. Jensen ; Paul de Leur ; Pendergast, Sean FLNR:EX; Sara Dubois (sdubois@spca.bc.ca); Schmidt, Orlando AGRI:EX; Schwantje, Helen FLNR:EX; Sielecki, Leonard E TRAN:EX; Teske, Irene FLNR:EX  
**Subject:** 2016-10-12 PUDAC - September Minutes  
**Attachments:** PUDAC Minutes 2016-09-07.docx

Hello All,

Please find attached the September Minutes (Thanks Jared).

I also hope to get the finalized TOR and Program Plan to you this week.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

**Date: September 7, 1:30 p.m. - 3:30 p.m.**

**Location: Teleconference**

Phone in: s.15

Participant ID: s.15

**Invitees:**

Jared Wright, UBCM – in attendance

Doug Patemen, Town of Princeton – in attendance

Nils Jensen, District of Oak Bay – in attendance

Laurey-Anne Roodenburg, City of Quesnel – in attendance

Jeff Morgan, Fish and Wildlife Branch (FLNRO) – in attendance

Mike Stalberg, Fish and Wildlife Branch (FLNRO) – in attendance (Jeff to confirm)

Helen Schwantje, Fish and Wildlife Branch (FLNRO) – regrets (Jeff to confirm)

Sean Pendergast, Fish and Wildlife – Regional Operations (FLNRO) – in attendance

Irene Teske, Fish and Wildlife – Regional Operations (FLNRO) – regrets

Holger Bohm, Alternate for Irene Teske (FLNRO) – in attendance

Mike Badry, Conservation Officer Services (MoE) – in attendance

Leonard Sielecki, MOTI – in attendance

Orlando Schmidt, MAG – in attendance

Paul de Leur, ICBC – in attendance

Sara Dubois, BC SPCA – in attendance

**Chair: Jeff Morgan**

**1. Introduction:**

- The Committee members introduced themselves.

**2. Minutes**

- The minutes from the August 15, 2016 teleconference were received. No errors or omissions were noted.

**3. Agenda Confirmation**

- The agenda was agreed to as presented.

#### **4. Terms of Reference Review**

- Committee members confirmed that PUDAC is purely an advisory group, and the Province will take the recommendations of the group back for consideration.
- Committee members discussed the proposed Terms of Reference.

##### **4.1 Alternates**

- Committee members agreed that an alternate may attend when the primary member is not able to attend.

##### **4.2 Delegates**

- Committee members agreed that delegates may be invited to attend a meeting where:
  - The invitation has been agreed to by the Committee
  - The delegate will be providing expertise on an issue of relevance to the Committee

##### **4.3 Meeting Frequency and Location**

- Committee members agreed that two conference calls and one face to face meeting per year would be reasonable.
- Richmond determined as the most convenient location, Jared Wright offered the UBCM boardroom in Richmond for meeting space.
- First face-to-face meeting to be scheduled for early in 2017.

##### **4.4 Scope**

- Committee members discussed what constitutes an “urban deer”.
- Noted that local government boundaries are not necessarily an appropriate division between urban and rural.
- Municipalities are impacted by adjacent areas.
- Urban areas may be defined as areas where hunting is not a viable option.
- Jeff Morgan to wordsmith a definition.

##### **4.5 Communications**

- Committee members agreed that communications about PUDAC and how the group functions should come from the Chair.
- Other committee members can speak on behalf of their group or community, but not on behalf of PUDAC.

##### **4.6 Objectives**

- Committee members agreed communications would include information and educational materials.
- Consulting with other organizations/groups is a practice and not an objective.



*ACTION: Chair to update terms of reference and circulate penultimate draft concurrently to the ADM Resource Stewardship Division and the Committee members by September 23, 2016.*

## **5. Program Work Plan Review**

- Committee members reviewed the funding program.

### **5.1 Committee Member Travel**

- Discussion on whether each committee member should pay own travel costs. Provincial agencies and UBCM participants to pay own costs. Question whether local governments should pass on costs to local taxpayers when representing the local government perspective across the province.
- UBCM and FLNRO to go back to their respective Executives to identify if funding is available for local government travel costs.

### **5.2 Funding Infrastructure**

- Discussion about whether infrastructure should be eligible for PUDAC funding, noted high cost of infrastructure work relative to \$100,000 budget.
- Committee members agreed that infrastructure may be considered for funding.
- Discussion of additional funding sources for infrastructure including ICBC preventative programs and MOTI programs for reducing deer vehicle collisions in communities with Provincial highways.
- *ACTION: Paul de Leur and Leonard Sielecki to advise PUDAC on what funding programs are available from their agencies.*

### **5.3 Timing**

- Committee members agreed that the call for proposals should go out each year in April, local governments can build tentative approvals into budgets.
- Will aim for a one month turn around for answers to proposals.
- *ACTION: Jeff Martin to advise if PUDAC can carry over unused funds.*

### **5.4 Sub-Committee**

- Committee members agreed that a sub-committee will do the vetting and ranking of proposals, but the recommendations will come back to the full committee for decision.
- Laurey-Anne Roodenburg, Paul de Leur and Leonard Sielecki (subject to Ministry approval) to serve on the sub-committee.

### **5.5 Housing of Information**

- Committee members agreed that the Province will host PUDAC information on-line. To be determined whether the website will be on MoE, FLNRO or joint site.

## 5.6 Cost Sharing

- Discussion on whether local governments would be required to contribute a portion of funds for each proposal or could partner with other groups for lg share of funds.
- Committee members agreed that community groups can partner with local governments, but the local government has to advance the proposal.
- Cost-sharing percentages may vary by type of expense e.g. infrastructure vs. research vs. operational cull. No decision made on specific percentages.

*ACTION: Chair to update Program Plan and circulate penultimate draft concurrently to the ADM Resource Stewardship Division and the Committee members by September 23, 2016.*

## 6. Adjournment

## **Rosche, Kimberly FLNR:EX**

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Monday, October 17, 2016 4:19 PM  
**To:** Badry, Micheal J ENV:EX; Bohm, Holger FLNR:EX; Doug Pateman (dpateman@princeton.ca); Jared Wright (jwright@ubcm.ca); Laurey Roodenburg (lroodenburg@quesnel.ca); Nils B. Jensen ; Paul de Leur ; Pendergast, Sean FLNR:EX; Sara Dubois (sdubois@spca.bc.ca); Schmidt, Orlando AGRI:EX; Schwantje, Helen FLNR:EX; Sielecki, Leonard E TRAN:EX; Teske, Irene FLNR:EX  
**Subject:** 2016-10-17 Costs Share Program Plan and Costs Share Application Guide  
**Attachments:** Urban\_Deer\_Program\_Plan(3).docx; Urban\_Deer\_Program-Program and Application Guide 2016.docx

Hello Everyone,

If you can spare any time between now and next Monday, please review the Program Plan and the Application Guide. They both are attached and both need more work ( could use extra eyes and thoughts when it comes to evaluation criteria --there will always be some subjectivity here).

I'll arrange a PUDAC meeting for next Monday morning (24<sup>th</sup>) for those who can attend. We will need to have these completed by the morning of October 25<sup>th</sup>.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

# Program Plan for the Provincial Urban Deer Operational Cost Share Program

## 1. Introduction

Deer have become increasingly common in urban environments throughout southern BC, especially in the Kootenay/Boundary, Okanagan and Vancouver Island Regions. This may be due to the dispersal of deer into urban environments or conversely the expansion of urban environments into more rural areas. Attractants, ranging from highly nutritious plants to foods deliberately set out for wildlife also serve to influence deer numbers in urban and sub-urban environments. Urban deer come into conflict with people by attacking pets and, more rarely, people. Urban deer also browse on landscape and garden vegetation, defecate, create hazards for motorists and they may possibly influence rates of transmission for some diseases (e.g. Lyme disease). At the same time, urban deer can be highly regarded. Many people enjoy viewing them and others are highly concerned for their welfare. This dichotomy has created significant management challenges in many communities in British Columbia. In the past, the provincial government has supported local governments through:

- Participation on community-based committees,
- The provision of technical advice,
- The development of hunting regulations and the issuance of permits to manage deer populations within or near urban areas, and
- The loaning of available equipment to communities as required.

In January of 2015, the provincial government and the Union of BC Municipalities (UBCM) collaborated in the delivery of an Urban Deer Workshop. At the conclusion of the meeting, it was agreed that a Provincial Urban Deer Advisory Committee should be struck. It was also agreed that the UBCM would lead in the preparation of a local government Recommendations Package for the Provincial Government's consideration. This package contained three recommendations that were related to the call for the provincial government provide funding for urban deer management actions. These three recommendations follow.

### **Recommendation 1: The provincial government should offer funding to address deer management issues.**

Similar to the wildfire management funding program or the BearSmart program, the provincial government should provide financial support to communities who are facing urban deer management issues. The Province could support an urban deer management program administered by a neutral third party, such as Wildsafe BC, with program funds going towards school education programs, fencing, or deer culls. Only communities that have undertaken some work on urban or rural deer management should be eligible for the fund (i.e. the community has an education program, an urban or rural deer committee, changed bylaws, etc.).

### **Recommendation 2: The provincial government should fund research on new deer management tools.**

Local governments are currently funding research on deer management options such as hazing, relocation, and contraceptives. The provincial government should assist in funding these technical and complicated scientific studies on deer management practices.

**Recommendation 6: The provincial government should create criteria and overarching policy for regional FLNRO managers, and ensure equal funding between regions.**

The goal of this recommendation is to reduce the amount of discretion applied by the Regional managers so that deer management is addressed in an equitable and consistent manner across the province.

FLNR's response (summarized) was: The Ministry of Forests, Lands and Natural Resource Operations supports the creation of a cost-share partnership initiative that would help local governments to address urban deer issues. The details and structure of the cost-share opportunity will be developed by FLNR with input from the Provincial Urban Deer Advisory Committee. The province is prepared to commit up to \$100,000 per year toward such partnerships (unused funds will not be carried over fiscal years). The details and structure of the cost-share opportunity will be developed by FLNR with input from the Provincial Urban Deer Advisory Committee. It is anticipated that this initiative will involve eligibility criteria and a system for prioritizing projects that would be applied equally to the entire province. Research activities that are supported by the provincial government would also be eligible for cost-share-support. Funding would depend on program and annual priorities and on funding availability.

## **2. Principles**

The *Provincial Urban Deer Operational Cost Share Program* will:

- Provide cost-share support to local governments and partners that have invested in operational deer management, research activities, or strategic infrastructure that are in pursuit of objectives developed through a community-based planning process,
- Fund the development education or communication materials that are provincial in scope,
- Fund the purchase of government equipment that can then be loaned to local governments,
- Require that the projects have the endorsement of local government (councils or boards) or Indian Bands where the activities will take place,
- Require that the projects undertake works in accordance with an approved permit issued under the *Wildlife Act*,
- Expect statutory decision makers to ensure all human safety, animal welfare and public engagement considerations have been addressed,
- Establish criteria to evaluate project proposals each year,
- Rely on the Provincial Urban Deer Advisory Committee to provide input into the evaluation process, and
- Develop and maintain a reporting and monitoring systems in order to evaluate success, maintain communications and improve practices.

## **3. Objectives**

- To encourage effective community-based urban deer planning and communications,
- To support high-value projects that will effectively manage urban deer,

- To provide learning opportunities through scientifically rigorous operational trials,
- To effectively partner with local government in the delivery of urban deer management actions,
- To recognize community-based planning objectives and assist local governments to achieve their objectives,
- To foster a standardized and structured approach to management actions, reporting and monitoring in order to learn from past practices and continuously improve 'best practices',
- To encourage effective communications and information transfer between the provincial and local governments,
- To develop effective education materials, and
- To acquire and then loan specialized deer capture equipment to local governments.

#### **4. Program Management and Financial Considerations**

FLNR will provide up to \$100,000 in cost-share funding per fiscal year. This funding will remain under the control of FLNR. In order to access funding, local governments will be required to complete standardized 'project plan' templates and submit them to the Provincial Urban Deer Advisory Committee for evaluation.

The Fish and Wildlife Management Branch will ask the Provincial Urban Deer Advisory Committee to evaluate all proposals based on an established system\*. The evaluations will be used to provide advice to the Fish and Wildlife Management Branch. Within funding limitations, and based on the proposal prioritization, funding commitments will be made by the Fish and Wildlife Management Branch.

The Fish and Wildlife Branch will be responsible for the final funding allocations and will notify the successful and unsuccessful communities according to established timelines. Funding allotments, and general conditions and timelines will be communicated through a conditional funding agreement.

The applicant will be required to confirm that it can meet the expressed expectations and is prepared to accept to funding that is offered by signing the conditional funding agreement.

The Fish and Wildlife Branch and local government (or lead local government-in the case of a multi-jurisdictional project) will then develop and enter into a contract.

Once the works specified in the contract's 'Schedule A' have been completed, the local government will invoice the Fish and Wildlife Branch. Invoices will be received no later than March 15 in any given year.

Once the invoice has been received and the services described in Schedule A are recognized as having been completed, the Fish and Wildlife Branch will make payment to the local government.

#### **5. Funding**

The *Provincial Urban Deer Operational Cost Share Program* will provide financial support to local governments that have undertaken activities to manage deer populations within their jurisdiction. Eligible activities will include direct operational management activities, research trials, or anti-deer structures (e.g. fencing, cattle guards etc.). The funding could also be used by FLNR (regional

Operations) to purchase equipment (e.g. traps) that could then be loaned to local governments or it could be used to develop education or communications material that are provincial in scope.

All project proposals from local governments must pursue objectives that are contained within a community-based planning process. Further, multi-year approvals may be made but will be subject to appropriation.

### **5.1 Funding for Operational Activities**

‘Operational activities’ are those that are intended to directly manage individual deer or deer populations and that are known to be effective in achieving immediate objectives while managing all associated risks. Presently, culling (capture and bolt gun) is the only direct activity that is considered ‘operational’. Culling operations in the interior of BC will be supported at a rate of \$200.00 for each deer that is culled. In coastal BC, culls will be supported at a rate of \$300.00 for each deer that is culled. This support is intended to match the local government’s operational costs associated with culling on a 50/50 basis. Cost-share funding support for management activities will be capped at \$20,000 per local government, per year.

### **5.2 Funding for Research Activities**

‘Research activities’ are defined as trial-based activities that are intended to directly or indirectly manage individual deer or deer populations. Trial-based activities are those that have not been yet been demonstrated to be effective in achieving objectives and managing associated risks in the BC context. Activities such as hazing, translocation and immuno-contraception are some examples that would fall into this category. Funding support for research will not be based on formulae. Rather, they will be based on the value of the research, funding partner commitments and an evaluation of competing priorities. All research activities must be scientifically rigorous and will be evaluated according separate criteria. Cost-share funding support for research will generally be capped at \$20,000 per project, per year. This funding will be subject to discretion of the Fish and Wildlife Branch and multi-year arrangements may be possible.

### **5.3 Funding for Strategic Anti-deer Infrastructure**

Strategic anti-deer infrastructure is defined as physical barriers that will prevent or impede the movement of deer into urban and sub-urban areas (with high density housing) and associated facilities where they are likely to come into conflict with people. Infrastructure projects would involve only those techniques that are known to be effective in achieving objectives while managing all associated risks. Examples could include the use of fencing and cattle guards in strategic locations along roadways, at important green-belt pinch points or around waste disposal facilities. If the project proposes to use infra-structure that is not known to be effective in achieving objectives while managing all associated risks then the project might fall within the research category. Cost-share funding support for infrastructure will be capped at \$20,000 per local government per year but the amounts allocated to local governments will be subject to discretion of the Fish and Wildlife Branch.

## 5.4 Funding for Communications, Education and Equipment

Program funding may be used to support the development of communications and educational materials that are provincial in scope and currently not available. The *Provincial Urban Deer Advisory Committee* will be tasked with proposing priority communications and submitting this to the Fish and Wildlife Branch. Similarly, at the discretion of the Fish and Wildlife Branch, funding may be used to purchase provincial government equipment (e.g. traps) that could then be loaned to local governments that are engaged in deer management actions.

### Project Evaluation Criteria

Detailed evaluation criteria for the funding categories will be developed by government, with input from the PUDAC. In order to be eligible for funding, projects will require endorsement by the appropriate local government, permitting to be in place (or approvals assured) and they must be compliant with all applicable laws and by-laws. All project proposals must pursue objectives generated through a well described community-based planning process that is endorsed by the appropriate local government. All proposals will commit to monitoring and reporting requirements. Standardized monitoring and reporting requirements will be established by government, with input from the PUDAC. All non-research proposals will be evaluated on the following general criteria:

- Probability of achieving the stated objective,
- The value of the stated objective,
  - Impact,
  - Duration,
- Ability of the project to manage associated risks\*,
  - Animal welfare,
  - Human safety,
  - Environmental,
- Contributions from other funding partners, and
- Linkage to multi-jurisdictional initiatives.

All research proposals will be evaluated on the following additional general criteria:

- The management value of the stated research question,
- Probability of generating meaningful results,
  - Research design,
  - Funding commitment,
  - Management (e.g. committee) structure,
- Ability of the project to manage associated risks\*,
  - Animal welfare,
  - Human safety,
  - Environmental, and
- Contributions from other funding partners.



Once the PUDAC Proposal Review Subcommittee has evaluated the proposals, the evaluations will be made available to the Fish and Wildlife Branch to support its funding allocation decision making processes.

\*If an established risk threshold cannot be achieved, the project will not be funded.

## **6. Communications**

All project funding proposals, decisions, and subsequent reports will be made available to the public through a government website.

## **7. Immediate Deliverables and Timelines:**

The following tasks and timelines have been established to finalize the TOR for the PUDAC and the program plan for the PUDOCs Program and to implement the PUDOCs Program in the 2016/17 fiscal.

- **July 29, 2016:** Send out e-mail to the members PUDAC that announces the membership, the committee's immediate goals and timelines and provides important materials for review.
- **Aug 15-19, 2016:** Innaugural meeting with an intent to clarify immediate goals and to set direction for the fianalization of the TOR for the PUDAC and the program plan for the PUDOCs Program.
- **September 6-9, 2016:** Second meeting with an intent set firm direction for the finalization of the TOR for the PUDAC and the program plan for the PUDOCs Program.
- **September 23, 2016:** Penultimate Drafts of the TOR and Program Plan are submitted to ADM RSD for approval.
- **October 3, 2016:** call for Provincial Urban Deer Operation Cost-Share Program proposals go out (for 2016/17 fiscal).
  - Funding criteria, eligibility and formulas communicated, application templates (operational, research trial, infrastaructure) and reporting templates provided.
- **November 4, 2016:** Deadline for local governments to submit their project proposals.
- **November 18, 2016:** PUDAC Review of Proposals Completed.
- **November 25, 2016:** Branch notifies local governments of their available funding allotments (through 'agreements in principle').
- **December 16, 2016:** Branch enters into financial agreements with successful local governments.
- **March 15, 2017:** Deadline for local governments to submit invoices and project completion reports the Branch.
- **March 31, 2016:** Deadline for Fish and Wildlife Branch to have made all payments when services and project completion reports are "received".

- **Winter 2016/17:** Develop and disseminate a public communications document that describes the urban deer management challenge, community based planning processes, management tools and administrative processes.
- **Winter 2016/17:** Develop the following documents;
  - Roles and responsibilities of agencies, organizations and local governments in the management of urban deer
  - Best Practices in the direct management of urban deer
  - Procedure on the issuance of urban deer management permits

# Program Plan for the Provincial Urban Deer Cost-Share Program

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Fish and Wildlife Branch  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations

October 2016

## 1. Introduction

Deer have become increasingly common in urban environments throughout southern BC, especially in the Kootenay/Boundary, Okanagan and Vancouver Island Regions. This may be due to the movement of deer into these environments or, conversely, development in more rural areas. Attractants, ranging from highly nutritious plants to foods deliberately set out for wildlife also serve to influence deer numbers in urban environments. Conflict arises when deer attack pets and, more rarely, people. Urban deer also browse on garden vegetation, defecate, create hazards for motorists and they may have a role in the transmission of some diseases. At the same time, urban deer are often highly valued. Many people enjoy viewing them and others are concerned for their welfare. This dichotomy has created significant management challenges in many communities in southern British Columbia. In the past, the provincial government has supported local governments through:

- Its participation on community-based committees,
- the provision of technical advice,
- the development of hunting regulations and the issuance of cull and research permits, and
- the loaning of equipment.

In January of 2015, the provincial government and the Union of BC Municipalities (UBCM) collaborated in the delivery of an Urban Deer Workshop. At the conclusion of the meeting, it was agreed that a Provincial Urban Deer Advisory Committee (PUDAC) should be struck. It was also agreed that the UBCM would lead in the preparation of a local government Recommendations Package for the Provincial Government's consideration. This package contained three recommendations that were related to a call for the provincial government to provide funding for urban deer management actions. These three recommendations follow.

**Recommendation 1: The provincial government should offer funding to address deer management issues.**

Similar to the wildfire management funding program or the BearSmart program, the provincial government should provide financial support to communities who are facing urban deer management issues. The Province could support an urban deer management program administered by a neutral third party, such as Wildsafe BC, with program funds going towards school education programs, fencing, or deer culls. Only communities that have undertaken some work on urban or rural deer management should be eligible for the fund (i.e. the community has an education program, an urban or rural deer committee, changed bylaws, etc.).

**Recommendation 2: The provincial government should fund research on new deer management tools.**

Local governments are currently funding research on deer management options such as hazing, relocation, and contraceptives. The provincial government should assist in funding these technical and complicated scientific studies on deer management practices.

**Recommendation 6: The provincial government should create criteria and overarching policy for regional FLNRO managers, and ensure equal funding between regions.**

The goal of this recommendation is to reduce the amount of discretion applied by the Regional managers so that deer management is addressed in an equitable and consistent manner across the province.

FLNR's response (summarized) was: The Ministry of Forests, Lands and Natural Resource Operations supports the creation of a cost-share partnership initiative that would help local governments to address urban deer issues. The details and structure of the cost-share program will be developed by FLNRO with input from the PUDAC. The province is prepared to commit up to \$100,000/year toward such partnerships (unused funds will not be carried over fiscal years) and this funding would be made available through an annual 'call for proposal' process.

**Principles**

The *Provincial Urban Deer Cost-Share Program* will:

- address human-deer conflict in areas where the use of traditional (e.g. hunting) deer management techniques are not appropriate,
- support communities that have invested in community-based urban deer management planning processes,
- provide cost-share support to local governments and Indian bands that are investing in operational deer management or research projects,
- fund the development of educational or information materials that are provincial in scope,

- fund the purchase of deer management equipment that can then be available to local governments and Indian bands on loan,
- require that the operational or research projects have the endorsement of local government or Indian Bands (councils, boards or chief and council) where the activities will take place,
- require projects to comply with permits issued under the *Wildlife Act* or any other statute and to address all human safety, animal welfare and public engagement considerations,
- establish criteria to evaluate project proposals,
- rely on the Provincial Urban Deer Advisory Committee (PUDAC) to provide input into the evaluation process, and
- establish and maintain a reporting and monitoring system in order to evaluate success, maintain communications and improve practices.

## 2. Objectives

The objectives of the *Provincial Urban Deer Cost-Share Program* (the Program) are to:

- encourage effective community-based urban deer planning and communications,
- support high-value projects that will effectively manage urban deer,
- provide learning opportunities through scientifically rigorous operational trials,
- partner effectively with local governments and Indian Bands in the delivery of urban deer management actions,
- recognize community-based planning objectives and assist local governments and Indian Bands to achieve their objectives,
- foster a standardized and structured approach to management actions, reporting and monitoring in order to learn from past practices and continuously improve 'best practices',
- encourage effective communications and information transfer between the provincial and local governments and Indian bands,
- develop effective education materials, and
- acquire and then loan specialized deer management equipment to local governments and Indian bands.

## 3. Program Management and Financial Considerations

The Ministry of Forests, Lands and Natural Resource Operations (FLNRO) will provide up to \$100,000 in cost-share funding per fiscal year. This funding will remain under the control of FLNRO. In order to access funding, local governments and Indian Bands will be required to

complete standardized 'project proposals' outlines and submit them to Fish and Wildlife Branch (the Branch) for evaluation.

The Branch will ask the PUDAC to review the project proposals and to provide input into the evaluation process. Based on the Branch's prioritization of the proposals and within funding limitations, funding commitments will be made by the Branch. The Branch will notify the successful and unsuccessful communities according to the timelines established in the 'Call for Proposals'. Funding allotments, and general conditions and timelines will be communicated through a conditional funding agreement.

The local government or Indian band will be required to confirm that it can meet the expressed expectations and is prepared to accept the funding. The Branch and local government or Indian Band (or lead entity-in the case of a multi-jurisdictional project) will then develop and enter into a shared-cost arrangement.

Once the works specified in the shared-cost arrangement's 'Schedule A' have been completed, the local government or Indian band will invoice the Fish and Wildlife Branch. Invoices will be received no later than March 15 in any given year.

Once the invoice has been received and the services described in the Schedule A are recognized as having been completed (i.e. received), the Branch will make payment to the local government or Indian Band.

#### **4. Funding**

The Program will provide financial support to local governments and Indian bands for 'operational projects' or 'research projects'. Outside of those envelopes, the funding could also be used by FLNRO to purchase deer management equipment (non-capital) that could then be available to local governments and Indian Bands on loan. The funding could also be used to develop provincial information or educational materials.

All project proposals must pursue objectives that have been developed through a community-based planning process. Finally, multi-year project support may be indicated but all funding in future years will be subject to appropriations.

##### **5.1 Funding for Operational Projects**

'Operational projects' are those that are intended to directly manage or deter deer populations and that are known to be effective in achieving immediate objectives while managing all associated risks. Presently, operational projects include: 1) fencing or cattle guards that block access to, or from, attractants or green belts or, 2) culling projects (capture and bolt gun). Funding support for deterrents (e.g. fencing or cattle guards) will be at discretion of the Branch.

Culling operations in the interior of BC will be supported at a rate of \$200.00 for each deer that is culled. In coastal BC, culls will be supported at a rate of \$300.00 for each deer that is culled. This support is intended to match the local government's operational costs associated with culling on a 50/50 basis. Cost-share funding support for operational projects will be capped at \$20,000/year.

## **5.2 Funding for Research Projects**

'Research projects' are defined as trial-based research that is intended to directly or indirectly manage or deter individual deer or deer populations. Trial-based projects are those that have not yet been demonstrated to be effective in achieving objectives and managing associated risks in BC. Activities such as hazing, translocation and immuno-contraception are some examples that could fall into this category. Funding support for research will not be based on formulae. Rather, they will be based on the value of the research, funding partner commitments and an evaluation of competing projects. All research activities must be scientifically rigorous and will be evaluated according to separate criteria. Cost-share funding support for individual research projects will *generally* be capped at \$20,000/ year. Funding levels will be subject to discretion of the Branch.

## **Funding for Informational/Educational Materials and Equipment**

Program funding may also be used to support the development of provincial information and educational materials that are currently not available. The PUDAC will be tasked with proposing projects and submitting them to the Branch for consideration. Similarly, at the discretion of the Branch, funding may be used to purchase deer management equipment (non-capital) that could then be loaned to local governments or Indian bands.

## **Application Outlines, Evaluation Criteria and Reporting Requirements**

The application outlines, evaluation criteria and reporting requirements differ slightly between 'operational' and 'research' projects and are detailed in the document entitled the *Provincial Urban Deer Cost-Share Program: A Program and Application Guide*.

In order to be eligible for funding, projects must pursue objectives generated through a community-based planning process (or be consistent with them) and endorsed by the appropriate local government or Indian Band. The necessary *Wildlife Act* permits must in place (or forthcoming) and the projects must comply with all applicable laws and by-laws and must commit to monitoring and reporting.

Once the PUDAC has reviewed the proposals it will provide input into the Branch's evaluation process to support its decision making.

\*If an established risk threshold cannot be achieved, the project will not be funded.

## 5. Communications

All project funding proposals, decisions, and subsequent reports will be made available to the public.

## 6. Immediate Deliverables and Timelines:

The following tasks and timelines have been established to deliver the Provincial Urban deer Costs-Share Program (PUDCSP) and to implement it in the 2016/17 fiscal.

- **October 18, 2016:** 'Program Plan' and 'Call for Proposals' documents are finalized.
  - Funding criteria, eligibility and formulas communicated, application outlines (operational or research) and reporting outlines provided in the Call for Proposals.
- **October 26, 2016:** 'Call for Proposals' go out (for 2016/17 fiscal).
- **November 18, 2016:** Deadline for local governments or Indian Bands to submit their project proposals.
- **November 25, 2016:** PUDAC review of proposals completed.
- **December 2, 2016:** Branch notifies local governments or Indian Bands of their available funding allotments (through 'agreements in principle').
- **December 16, 2016:** Branch enters into shared cost agreements with successful local governments or Indian Bands.
- **March 15, 2017:** Deadline for local governments or Indian Bands to submit invoices and project completion reports to the Branch.
- **Winter 2016/17:** Develop and disseminate a public communications document that describes the urban deer management challenge, community-based planning processes, management tools and administrative processes.
- **Winter 2016/17:** Develop the following documents;
  - Roles and responsibilities of agencies, organizations and local governments in the management of urban deer
  - Best Practices in the direct management of urban deer
  - Procedure on the issuance of urban deer management permits



## **Rosche, Kimberly FLNR:EX**

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Monday, October 17, 2016 4:19 PM  
**To:** Badry, Micheal J ENV:EX; Bohm, Holger FLNR:EX; Doug Pateman (dpateman@princeton.ca); Jared Wright (jwright@ubcm.ca); Laurey Roodenburg (lroodenburg@quesnel.ca); Nils B. Jensen ; Paul de Leur ; Pendergast, Sean FLNR:EX; Sara Dubois (sdubois@spca.bc.ca); Schmidt, Orlando AGRI:EX; Schwantje, Helen FLNR:EX; Sielecki, Leonard E TRAN:EX; Teske, Irene FLNR:EX  
**Subject:** 2016-10-17 Costs Share Program Plan and Costs Share Application Guide  
**Attachments:** Urban\_Deer\_Program\_Plan(3).docx; Urban\_Deer\_Program-Program and Application Guide 2016.docx

Hello Everyone,

If you can spare any time between now and next Monday, please review the Program Plan and the Application Guide. They both are attached and both need more work ( could use extra eyes and thoughts when it comes to evaluation criteria --there will always be some subjectivity here).

I'll arrange a PUDAC meeting for next Monday morning (24<sup>th</sup>) for those who can attend. We will need to have these completed by the morning of October 25<sup>th</sup>.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

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# 2016 Provincial Urban Deer Cost-Share Program: A Program and Application Guide

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**The Fish and Wildlife Branch  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations**

October 19, 2016

## **1. Introduction**

Since the provincial government's announcement in September of 2015 that it would make \$100,000/yr. available to help fund urban deer management projects, the Fish and Wildlife Branch (F&WBr) within the Ministry of Forests, Lands and Natural Resource Operations has been working with the Union of BC Municipalities (UBCM) to co-lead the Provincial Urban Deer Advisory Committee and to develop the *Provincial Urban Deer Cost-Share Program*. The Fish and Wildlife Branch now is putting out a 'call for proposals' to local governments and Indian Bands that are engaged in urban deer management projects (present to March 15, 2017).

In order to be eligible for funding, the proposals must fall into 'operational' or 'research' categories. They must also meet all of the criteria that are identified. Further, funding amounts may be constrained by the funding formulas and/or caps that are in place.

For further information please contact Jeff Morgan by email at [jeff.morgan@gov.bc.ca](mailto:jeff.morgan@gov.bc.ca).

## **2. Purpose**

The purpose of this program is provide local governments or Indian Bands with funds to assist them in addressing urban deer management challenges through operational or research projects. This provides an opportunity for local governments and Indian Bands to partner with the provincial government and other organizations in the delivery of urban deer management solutions, the advancement of research and information transfer.

## **3. Objectives**

The objectives of the *Provincial Urban Deer Cost-Share Program* are to:

- encourage effective community-based urban deer planning and communications,

- support high-value projects that will effectively manage urban deer,
- provide learning opportunities through scientifically rigorous operational trials,
- partner effectively with local governments and Indian bands in the delivery of urban deer management actions,
- foster a standardized and structured approach to management actions, reporting and monitoring in order to learn from past practices and continuously improve 'best practices',
- encourage effective communications and information transfer between the provincial and local governments and Indian Bands,
- develop effective education materials, and
- acquire and loan specialized deer management equipment to local governments and Indian Bands.

#### **4. Eligible Projects, Funding Formulas and Caps (FY 2016/17)**

Any local government or Indian Band that meets the following criteria is eligible for funding under this program. In 2016/17 the Program is intended to support 'shovel ready' projects that are consistent with community-based planning processes.

The *Provincial Urban Deer Cost-Share Program* will fund priority projects that:

- address human-deer conflict in areas where the use of traditional (e.g. hunting) deer management techniques are not appropriate.
- are consistent with objectives that have been developed through a community-based planning process,
- have a resolution of support from the local government's council or board or Indian Band's chief and council,
- are compliant with all applicable laws and by-laws and adequately manage all human safety, environmental and animal welfare risks,
- are in accordance with a permit issued under the *Wildlife Act*,
- are technically sound and feasible,
- scientifically rigorous (if a research project),
- commit to monitoring and reporting, and
- provide matching funds.

The program will provide financial support to approved projects that are undertaken from late fall 2016 to March 15, 2017. Eligible activities will fall into two categories which are 'Operational Projects' and 'Research Projects'.

#### **4.1. Operational Projects**

‘Operational projects’ are those that are intended to directly manage or deter deer populations and that are known to be effective in achieving immediate objectives while managing all associated risks. Presently, operational projects include: 1) fencing or cattle guards that block access to, or from, attractants or green belt corridors or, 2) culling projects (capture and bolt gun). Funding support for deterrents will be at discretion of the Branch. Culling operations in the BC Interior will be supported at a rate of \$200/ culled deer. In Coastal BC, culls will be supported at a rate of \$300/culled deer. This support is intended to match the local government’s operational costs associated with culling on a 50/50 basis. Cost-share funding support for operational projects will be capped at \$20,000/year\*.

\* Funding caps may be adjusted downwards depending on program uptake.

#### **4.2 Research Projects**

‘Research projects’ are defined as trial-based applied research that is intended to directly or indirectly manage or deter deer populations. Trial-based projects are those that are not yet known to be effective in achieving objectives and managing associated risks in BC. Activities such as hazing, translocation and immuno-contraception are some examples that could fall into this category. Funding support for research will not be based on any formulae. Rather, it will be based on the value of the research activity, partnerships and the associated funding commitments. All research projects must be scientifically rigorous and will be evaluated according to separate criteria. Cost-share funding support for individual research projects will *generally* be capped at \$20,000/ year\* however, funding levels will be subject to discretion of the Branch.

\* Funding caps may be adjusted downwards depending on program uptake.

### **5. The Application Outline**

Applications for an operational project will include:

- A cover letter that confirms that the project plan has a ‘resolution of support’ from the local government’s council or board or the Indian Band’s Chief and Council and that the project is consistent with objectives that have been developed through a community-based planning process.
- A Project Plan that includes:
  - background and a description of current issues,
  - goals and objectives,

- a description of project area or area of influence,
- works to be undertaken,
  - description of work,
  - methods/techniques that will be used,
  - risk (animal welfare, human safety, environmental) management actions,
  - timelines,
- a description of the project completion report (i.e. a commitment to the reporting expectations outlined in Appendix 1) and any monitoring follow-up reports,
- a funding request,
- a budget with a clear description of all funding partners and their contributions and any funding restrictions,
- a discussion on how the project's techniques and objectives are consistent with the appropriate community-based plan,
- confirmation that the project is compliant with all applicable laws and by-laws, and
- confirmation that the project has been permitted under the *Wildlife Act* (the permit itself or a permit number).

Applications for a research project will include:

- A cover letter that confirms that the project plan has a 'resolution of support' from the local government's council or board or the Indian Band's Chief and Council.
- A Research Project Plan that includes:
  - background and a description of current management challenges or knowledge gaps,
  - goals and objectives (especially of the projects blends operations and research)
  - a clear description of the research question,
  - works to be undertaken,
    - study design and intended analysis,
    - methods/techniques that will be used,
    - risk (animal welfare, human safety, environmental) management actions,
    - timelines,
  - a description of the research report (i.e. a commitment to the reporting expectations outlined in Appendix 1) and any monitoring follow-up reports,
  - a funding request,
  - a budget with a clear description of all funding partners and their contributions and any funding restrictions,
  - a discussion on how the project's techniques and objectives are consistent with the appropriate community-based plan,

- confirmation that the project is compliant with all applicable laws and by-laws, confirmation that the project has been permitted under the *Wildlife Act* (the permit itself or a permit number),
- a description of the research committee, and
- a description of how the research will be reported (e.g. unpublished manuscript, published, post graduate thesis) .

## 6. Project Evaluation and Rating Scheme

All Proposals must be eligible (Section 4) and provide the information in the requested format (Section 5). Operation proposals will be evaluated on the following criteria:

- Value of Project's Objectives and Current Level of Impact/Risks (all three impact/risk categories combined)
  - Garden or Crop Losses
    - Moderate level of impact (impact common but not preventing activities such as gardening or if so only on a localized basis) = 2
    - High level of Impact (impact common and preventing activities such as gardening on a widespread basis) or significant crop damage = 4
  - Domestic Animal Conflict
    - Moderate level of risk (documented but infrequent attacks on domestic animals)= 4
    - High level of risk (greater than one attack on a domestic animal/year)= 8
  - Human Safety (motor vehicle collisions, direct aggression, human health) Need help in developing definitions here.....
    - Low level of risk = 10
    - Moderate level of risk = 12
    - High level of risk = 14
- Project Subcategory
  - Deterrents to prevent ongoing or future urban deer issues = 2
  - Culling to address immediate issues with existing urban deer = 10
- The projected value of action relative to the stated objective (duration),
  - Nil (no or negligible probability the project will yield positive outcomes for over 3 years) = 0
  - Low ( $\leq 30\%$  probability the project will yield positive outcomes for over 3 years) = 1
  - Moderate ( $> 30\% - < 80\%$  probability the project will yield positive outcomes for over 3 years) = 3
  - High ( $\geq 80\%$  probability the project will yield positive outcomes for over 3 years) = 5
- Commitment to short-term and long-term monitoring and reporting

- Project commits to monitoring and reporting project outcomes upon completion of the project = 1
- Project commits to monitoring and reporting project outcomes upon completion of the project and in a subsequent follow-up reports one year after the project's completion = 3
- Project commits to monitoring and reporting project outcomes upon completion of the project and in a subsequent follow-up reports three years after the project's completion = 6
- Contributions from other funding partners
  - Project commits less than 50 % matching funding = 0
  - Project commits ≥50% matching funding = 1
  - Project commits ≥60% matching funding = 4
  - Project commits ≥70% matching funding = 6
- Linkage to multi-jurisdictional initiatives
  - Project involves one local government or one Indian Band = 1
  - Project involves two or more local governments or Indian Bands (or any combination thereof) working in a coordinated fashion = 3
  - Project involves several local governments or Indian Bands (or any combination thereof) working in a coordinated fashion and in pursuit of objectives that apply to an area that extends beyond the immediate boundaries of the proponent communities = 6

Research proposals will be evaluated on the following general criteria:

- Scientific Value of Project
  - A scientifically and technically sound applied research trial with research questions that explore novel or untested techniques in BC and that will yield results in an unpublished report = 2
  - A scientifically and technically sound applied research trial with research questions that explore novel or untested techniques in BC, that are under the guidance of a scientific committee and that will yield results in an unpublished report = 6
  - A scientifically and technically sound applied research trial with research questions that explore novel or untested techniques in BC and that are under the guidance of a scientific committee and that will yield results that will be published or used to fulfill thesis requirements of a post graduate degree = 10
- Innovation in BC
  - Limited scope or low probability of leading to the development of a new management technique = 2



- Broad scope and moderate probability of leading to the development of a new management technique = 6
- Broad scope and high probability of leading to the development of a new management technique = 10
- Value of any Ancillary Objectives (all three impact/risk categories combined)
  - Garden or Crop Losses
    - Moderate level of impact (impact common but not preventing activities such as gardening or if so only on a localized basis) = 2
    - High level of Impact (impact common and preventing activities such as gardening on a widespread basis) or significant crop damage = 4
  - Domestic Animal Conflict
    - Moderate level of risk (documented but infrequent attacks on domestic animals)= 4
    - High level of risk (greater than one attack on a domestic animal/year)= 8
  - Human Safety (motor vehicle collisions, direct aggression, human health) Need help in developing definitions here.....
    - Low level of risk = 10
    - Moderate level of risk = 12
    - High level of risk = 14
- The projected value of action relative to the stated human safety objective (duration),
  - Nil (no or negligible probability the project will yield positive outcomes for over 3 years) = 0
  - Low ( $\leq 30\%$  probability the project will yield positive outcomes for over 3 years) = 1
  - Moderate ( $> 30\% - < 80\%$  probability the project will yield positive outcomes for over 3 years) = 3
  - High ( $\geq 80\%$  probability the project will yield positive outcomes for over 3 years) = 5
- Commitment to short-term and long-term monitoring and reporting
  - Project commits to monitoring and reporting project outcomes upon completion of the project = 1
  - Project commits to monitoring and reporting project outcomes upon completion of the project and in a subsequent follow-up reports one year after the research perturbation = 3
  - Project commits to monitoring and reporting project outcomes upon completion of the project and in a subsequent follow-up reports three years after the research perturbation = 6
- Contributions from other funding partners
  - Project commits less than 50 % matching funding = 0
  - Project commits  $\geq 50\%$  matching funding = 1

- Project commits ≥60% matching funding = 4
- Project commits ≥70% matching funding = 6

## **7. Payments, Records and Accounts for Approved Projects**

In 2015/16 the Fish and Wildlife Branch will make up to \$100,000 (in total), available to local governments or Indian Bands through cost-share arrangements. The Branch will receive all project proposals and will be responsible for the final funding prioritizations and allocations.

Funding allotments, general conditions and timelines will be communicated through 'agreements in principle' (via-email). By agreeing, the successful applicant will confirm that it can meet the expressed expectations and will accept the funding.

The Fish and Wildlife Branch and local government or Indian Band (or lead entity-in the case of a multi-jurisdictional project) will then develop and enter into a 'shared cost agreement'. Once the works specified in the contract's 'Schedule A' have been completed, and a project completion report has been finalized, the local government will submit the report and an invoice the Fish and Wildlife Branch.

A statement from the Chief Financial Officer verifying the total cost of the project is required to be attached to the project completion report. When applicable, this statement will also identify other contributions such as in-kind, matching funding, and other revenue sources required in order to complete the project. The local government's or Indian Band's Chief Financial Officers will maintain acceptable accounting records that clearly disclose the nature and amounts of the different items of cost pertaining to the program activities. The Program Officer for the *Provincial Urban Deer Cost-Share Program* may require applicants to provide details of the types and amounts of all fees for contractors, consultants and in-house staff.

If any changes to a project are contemplated, the Program Officer's written approval is required to ensure the project remains consistent with the shared cost agreement.

## **8. Application Process**

### **8.1 Where to Apply**

Apply via e-mail to:

Jeff Morgan (Program Officer for the Urban Deer Cost-Share Program)  
Fish and Wildlife Branch  
jeff.morgan@gov.bc.ca

## 8.2 When to Apply

Applications should be received no later than **November 18, 2015**. Depending on program uptake, late applications may be accepted. Approvals 'in principle' may be arranged if elements of the proposal are in progress but not available at the time of application.

## 9. Timelines:

- **October 26, 2016:** Provincial Urban Deer Cost-Share Program's Call for proposals go out (for 2016/17 fiscal).
- **November 22, 2016:** Deadline for local governments or Indian bands to submit their project proposals.
- **November 25, 2016:** PUDAC review of proposals completed.
- **December 2, 2016:** Branch notifies local governments or Indian bands of their available funding allotments (through 'agreements in principle').
- **December 16, 2016:** Branch enters into agreements with successful local governments or Indian bands.
- **March 15, 2017:** Deadline for local governments to submit invoices and project completion reports to the Branch.
- **Winter 2016/17:** Develop and disseminate a public communications document that describes the urban deer management challenge, community-based planning processes, management tools and administrative processes.
- **Winter 2016/17:** Develop the following documents;
  - Roles and responsibilities of agencies, organizations and local governments in the management of urban deer
  - Best Practices in the direct management of urban deer
  - Procedure on the issuance of urban deer management permits

## Appendix 1: Report Outlines

The following are the *Provincial Urban Deer Cost-Share Program* expectations for the Operational and Research report formats.

Operational:

1. Abstract
2. Introduction/Background
3. Purpose/Objectives
4. Project Area/Area of Influence
  - a. Methods/Techniques (including risk management actions)
5. Results

6. Summary/Lessons Learned
7. Literature Cited (if applicable)

Research:

1. Abstract
2. Introduction
  - a. Background
  - b. Research Question
3. Study Area (and Area of Influence if operational goals are also involved)
4. Methods/Techniques (including risk management actions)
5. Results
6. Discussion
7. Management Implications/Summary
8. Literature Cited

# ~~Program Plan for the~~ The Provincial Urban Deer Cost-Share Program

## OVERVIEW

Ministry of Forests, Lands and Natural Resource Operations

Resource Stewardship Division

Fish and Wildlife Branch

~~Resource Stewardship Division~~

~~Ministry of Forests, Lands and Natural Resource Operations~~

October 2016

### 1. Introduction

Deer have become increasingly common in urban environments throughout southern BC, especially in the Kootenay/Boundary, Okanagan and Vancouver Island Regions. This may be due to the movement of deer into these environments or, conversely, development in more rural areas.– Attractants, ranging from highly nutritious plants to foods deliberately set out for wildlife also serve to influence deer numbers in urban environments. Conflict arises when deer attack pets and, more rarely, people. Urban deer also browse on garden vegetation, defecate, create hazards for motorists and they may have a role in the transmission of some diseases. At the same time, urban deer are often highly valued. Many people enjoy viewing them and others are concerned for their welfare.– This dichotomy has created significant management challenges in many communities in southern British Columbia.– In the past, the provincial government has supported local governments through:

- ~~its~~ participation on community-based committees<sub>7i</sub>
- the provision of technical advice<sub>7i</sub>
- the development of hunting regulations and the issuance of cull and research permits<sub>7i</sub> and<sub>i</sub>
- the loaning of equipment.

In January of 2015, the provincial government as represented by the Ministry of Forests, Lands and Natural Resource Operations (FLNRO) and the Union of BC Municipalities (UBCM) collaborated in the delivery of an Urban Deer Workshop. At the conclusion of the meeting, it was agreed that a Provincial Urban Deer Advisory Committee (PUDAC) should be struck. It was

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also agreed that the UBCM would lead in the preparation of a local government Recommendations Package for the Provincial Government's consideration. This package contained three recommendations that were related to a call for the provincial government to provide funding for urban deer management actions. These three recommendations follow are:

**Recommendation 1: The provincial government should offer funding to address deer management issues.**

Similar to the wildfire management funding program or the BearSmart program, the provincial government should provide financial support to communities who are facing urban deer management issues. The Province could support an urban deer management program administered by a neutral third party, such as Wildsafe BC, with program funds going towards school education programs, fencing, or deer culls. Only communities that have undertaken some work on urban or rural deer management should be eligible for the fund (i.e. the community has an education program, an urban or rural deer committee, changed bylaws, etc.).

Comment [TKDF1]: Is this verbatim?

**Recommendation 2: The provincial government should fund research on new deer management tools.**

Local governments are currently funding research on deer management options such as hazing, relocation, and contraceptives. The provincial government should assist in funding these technical and complicated scientific studies on deer management practices.

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**Recommendation 6: The provincial government should create criteria and overarching policy for regional FLNRO managers, and ensure equal funding between regions.**

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The goal of this recommendation is to reduce the amount of discretion applied by the Regional managers so that deer management is addressed in an equitable and consistent manner across the province.

FLNRO's response (summarized) was: The Ministry of Forests, Lands and Natural Resource Operations supports the creation of a cost-share partnership initiative that would help local governments to address urban deer issues. The details and structure of the cost-share program will be developed by FLNRO with input from the PUDAC. The province is prepared to commit up to \$100,000/year toward such partnerships (unused funds will not be carried over-between fiscal years) and this funding would be made available through an annual 'call for proposals' process.

**Principles**

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The *Provincial Urban Deer Cost-Share Program* will:

- address human-deer conflict in areas where the use of traditional (e.g. hunting) deer management techniques are not appropriate;<sub>7</sub>
- support communities that have invested in community-based urban deer management planning processes;<sub>7</sub>
- provide cost-share support to local governments and Indian bands that are investing in operational deer management -or research projects;<sub>7</sub>
- fund the development of educational or information materials that are provincial in scope;<sub>7</sub>
- fund the purchase of non-capital deer management equipment that ~~can then~~ would be available to local governments and local Indian bands on loan;<sub>7</sub>
- require that the operational or research projects ~~have the~~ be endorsed ~~by~~ by of local government or Indian Bands (councils, boards or chief and council) where the activities will take place;<sub>7</sub>
- require projects to comply with permits issued under the *Wildlife Act* or any other statute and to address all human safety, animal welfare and public engagement considerations;<sub>7</sub>
- establish criteria to evaluate project proposals;<sub>7</sub>
- rely on the Provincial Urban Deer Advisory Committee (PUDAC) to provide input into the evaluation process;<sub>7</sub> and <sub>1</sub>
- establish and maintain a monitoring reporting and reporting monitoring system in order to evaluate program success, maintain communications and improve practices.

Comment [TKDF2]: FN?

Comment [TKDF3]: FN?

## 2. Objectives

The objectives of the *Provincial Urban Deer Cost-Share Program* (the Program) are to:

- ~~encourage effective community-based urban deer planning and communications,~~
- ~~support high-value projects that will effectively manage urban deer,~~
- ~~provide learning opportunities through scientifically rigorous operational trials,~~
- partner effectively with local governments and Indian Bands in the delivery of urban deer management actions, to encourage effective community-based urban deer planning and communications;
- recognize community-based planning objectives and assist local governments and Indian Bands to achieve their objectives;<sub>7</sub>
- support high-value projects that will effectively manage urban deer;
- provide learning opportunities through scientifically rigorous operational trials;

Comment [TKDF4]: Do you need both as they seem related??

- foster a standardized and structured approach to management actions, monitoring reporting and reporting monitoring in order to learn from past practices and continuously improve 'best practices';
- encourage effective communications and information transfer between the provincial and local governments and Indian bands;
- develop effective education materials; and
- acquire and then loan specialized deer management equipment to local governments and Indian bands.

Comment [TKDF5]: I would not highlight this as an objective. You have already mentioned it in

You Need a section on Roles and responsibilities for PUDAC and Branch

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### 3. Program Management and Financial Considerations

The Ministry of Forests, Lands and Natural Resource Operations (FLNRO) will administer provide up to \$100,000 in cost-share funding per fiscal year. This funding will remain under the control of FLNRO. In order to access funding, local governments and Indian Bands will be access the funding through an annual call for "project proposals". required to complete standardized 'project proposals' outlines and submit them to Fish and Wildlife Branch (the Branch) for evaluation. The entire proposal application, evaluation and award process will be managed by the Fish and Wildlife Branch ('the Branch').

All project proposals will be reviewed by PUDAC. The Branch will ask the PUDAC to review the project proposals and to provide input into the evaluation process. Based on the Branch's prioritization of the proposals, and within funding limitations, funding commitments will be made by the Branch. The Branch will notify the successful and unsuccessful communities according to the timelines established in the 'Call for Proposals'. Funding allotments, and general conditions and timelines will be communicated through a conditional funding agreement. PUDAC's input will inform the Branch with the prioritization of the proposals. Applicants will be notified of the outcomes as per the timelines defined in the "Call for Proposals".

Prior to the release of funding, successful proponents will be required to confirm their ability to meet proposed deliverables. Once confirmed, the successful proponent will enter into a Shared Cost Arrangement (SCA) with the Province. Funding will be dispersed following successful completion, verification and invoicing for the works as defined in the SCA.

The local government or Indian band will be required to confirm that it can meet the expressed expectations and is prepared to accept the funding. The Branch and local government or Indian



~~Band (or lead entity in the case of a multi-jurisdictional project) will then develop and enter into a shared-cost arrangement.~~

~~Once the works specified in the shared-cost arrangement's 'Schedule A' have been completed, the local government or Indian band will invoice the Fish and Wildlife Branch. Invoices will be received no later than March 15 in any given year.~~

~~Once the invoice has been received and the services described in the Schedule A are recognized as having been completed (i.e. received), the Branch will make payment to the local government or Indian Band.~~

#### 4. Funding

~~The Program will provide financial support to~~cost-share with local governments and Indian bands for 'operational projects' or 'research projects'. ~~Outside of those envelopes, the funding could also be used by FLNRO.~~may use funding to purchase deer management equipment (non-capital) that could then be loaned available to local governments and Indian Bands on loan. The funding ~~could~~may also be used to develop provincial information or educational materials.

All project proposals must pursue objectives ~~that have been developed through a community-based planning process.~~ ~~Finally, in~~ Multi-year project support may be indicated but all funding in future years will be subject to appropriations.

The necessary *Wildlife Act* permits must in place (or forthcoming) and the projects must comply with all applicable laws and by-laws and must commit to monitoring and reporting.

##### ~~5.1~~ 4.1 Funding for Operational Projects

~~'Operational projects' are those that~~ are intended to directly manage or deter deer populations and that are known to be effective in achieving immediate objectives while managing all associated risks. Presently, operational projects include: 1) fencing or cattle guards that block access to, or from, attractants or green belts or, 2) culling projects (capture and bolt gun). Funding support for deterrents (e.g. fencing or cattle guards) will be at discretion of the Branch. Culling operations in the interior of BC will be supported at a rate of \$200.00 for each deer that is culled. In coastal BC, culls will be supported at a rate of \$300.00 for each deer that is culled. This support is intended to match the local government's operational costs associated with culling on a 50/50 basis. Cost-share funding support for operational projects will be capped at \$20,000/year.

##### ~~5.2~~ 4.2 Funding for Research Projects

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'Research projects' are defined as trial-based research that is intended to directly or indirectly manage or deter individual deer or deer populations. Trial-based projects are those that have not been yet been demonstrated to be effective in achieving objectives and managing associated risks in BC. Activities such as hazing, translocation and immuno-contraception are some examples that could fall into this category. Funding support for research will not be based on formulae. Rather, they will be based on the value of the research, funding partner commitments and an evaluation of competing projects. All research activities must be scientifically rigorous and will be evaluated according to separate criteria. Cost-share funding support for individual research projects will *generally* be capped at \$20,000/-year. Funding levels will be ~~subject to~~ at the discretion of the Branch.

#### **4.3 Funding for Informational/Educational Materials and Non-Capital Equipment**

Program funding may also be used to support the development of provincial information and educational materials that are currently not available. The PUDAC will be tasked with proposing projects and submitting them to the Branch for consideration. Similarly, at the discretion of the Branch, funding may be used to purchase deer management equipment (non-capital) that could then be loaned to local governments or Indian bands.

#### **5 Application Outlines, Evaluation Criteria and Reporting Requirements**

The application outlines, evaluation criteria and reporting requirements differ slightly between 'operational' and 'research' projects and are detailed in the document entitled the *Provincial Urban Deer Cost-Share Program: A Program and Application Guide*.

In order to be eligible for funding, projects must pursue objectives generated through a community-based planning process (or be consistent with them) and endorsed by the appropriate local government or Indian Band. The necessary *Wildlife Act* permits must in place (or forthcoming) and the projects must comply with all applicable laws and by-laws and must commit to monitoring and reporting.

Once the PUDAC has reviewed the proposals it will provide input into the Branch's evaluation process to support its decision making.

-\*If an established risk threshold cannot be achieved, the project will not be funded.

#### **5- 6 Communications**

All project funding proposals, decisions, and subsequent reports will be made available to the public.

#### **6- 7 Immediate Deliverables and Timelines:**

Comment [TKDF6]: Elsewhere

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The following tasks and timelines have been established to deliver the Provincial Urban deer Costs-Share Program (PUDCSP) and to implement it in the 2016/17 fiscal.

- **October 18, 2016:** 'Program Plan' and 'Call for Proposals' documents are finalized.
  - Funding criteria, eligibility and formulas communicated, application outlines (operational or research) and reporting outlines provided in the Call for Proposals.
- **October 26, 2016:** 'Call for Proposals' go out (for 2016/17 fiscal).
- **November 18, 2016:** Deadline for local governments or Indian Bands to submit their project proposals.
- **November 25, 2016:** PUDAC review of proposals completed.
- **December 2, 2016:** Branch notifies local governments or Indian Bands of their available funding allotments (through 'agreements in principle').
- **December 16, 2016:** Branch enters into shared cost agreements with successful local governments or Indian Bands.
- **March 15, 2017:** Deadline for local governments or Indian Bands to submit invoices and project completion reports to the Branch.
- **Winter 2016/17:** Develop and disseminate a public communications document that describes the urban deer management challenge, community-based planning processes, management tools and administrative processes.
- **Winter 2016/17:** Develop the following documents;
  - Roles and responsibilities of agencies, organizations and local governments in the management of urban deer
  - Best Practices in the direct management of urban deer
  - Procedure on the issuance of urban deer management permits

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## Rosche, Kimberly FLNR:EX

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**From:** Thomas, Keith D FLNR:EX  
**Sent:** Tuesday, October 18, 2016 9:48 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** 2016-10-18 FW: Costs Share Program Plan and Costs Share Application Guide  
**Attachments:** Urban\_Deer\_Program\_Plan(3).docx

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Monday, October 17, 2016 4:19 PM  
**To:** Badry, Micheal J ENV:EX; Bohm, Holger FLNR:EX; Doug Pateman ([dpateman@princeton.ca](mailto:dpateman@princeton.ca)); Jared Wright ([jwright@ubcm.ca](mailto:jwright@ubcm.ca)); Laurey Roodenburg ([lroodenburg@quesnel.ca](mailto:lroodenburg@quesnel.ca)); Nils B. Jensen ; Paul de Leur ; Pendergast, Sean FLNR:EX; Sara Dubois ([sdubois@spca.bc.ca](mailto:sdubois@spca.bc.ca)); Schmidt, Orlando AGRI:EX; Schwantje, Helen FLNR:EX; Sielecki, Leonard E TRAN:EX; Teske, Irene FLNR:EX  
**Subject:** Costs Share Program Plan and Costs Share Application Guide

Hello Everyone,

If you can spare any time between now and next Monday, please review the Program Plan and the Application Guide. They both are attached and both need more work ( could use extra eyes and thoughts when it comes to evaluation criteria --there will always be some subjectivity here).

I'll arrange a PUDAC meeting for next Monday morning (24<sup>th</sup>) for those who can attend. We will need to have these completed by the morning of October 25<sup>th</sup>.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

## **Rosche, Kimberly FLNR:EX**

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, October 19, 2016 11:45 AM  
**To:** 'Paul de Leur'  
**Subject:** 2016-10-19 RE: Program Plan and Call for Proposals

Sounds good!

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Paul de Leur s.22  
**Sent:** Wednesday, October 19, 2016 11:34 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** Re: Program Plan and Call for Proposals

Hi Jeff,

I do have a meeting early monday morning, but I may finish in time for the 10:30 meeting for PUDAC. I will do my best to call in.

Regards,  
Paul de Leur, Ph.D., P.Eng.

Phone: s.22  
Email: s.22

On Oct 19, 2016, at 9:44 AM, Morgan, Jeff A FLNR:EX <[Jeff.Morgan@gov.bc.ca](mailto:Jeff.Morgan@gov.bc.ca)> wrote:

Review and comment on docs.

s.15

Page 069 to/à Page 078

Withheld pursuant to/removed as

DUPLICATE

## Rosche, Kimberly FLNR:EX

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Thursday, October 20, 2016 10:29 AM  
**To:** 'Jared Wright'  
**Subject:** 2016-10-20 RE: Costs Share Program Plan and Costs Share Application Guide

Perfect!

Thanks.

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

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**From:** Jared Wright [<mailto:jwright@ubcm.ca>]  
**Sent:** Thursday, October 20, 2016 10:05 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** Re: Costs Share Program Plan and Costs Share Application Guide

Hi Jeff,

I am unable to attend the Monday 10:30-11:30am call due to a previous commitment. However, I will have a colleague of mine listen in and take minutes if you are comfortable with that. I have some comments as well on the proposed documents that I will send along prior to Monday.

Let me know.

Cheers,

Jared

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Jared Wright  
Director of Advocacy and Government Relations  
Union of British Columbia Municipalities  
525 Government Street, Victoria, BC  
V8V 0A8  
(w) 250-387-0891  
(c) s.22

**From:** "Morgan, Jeff A FLNR:EX" <[Jeff.Morgan@gov.bc.ca](mailto:Jeff.Morgan@gov.bc.ca)>  
**To:** "Badry, Micheal J ENV:EX" <[Mike.Badry@gov.bc.ca](mailto:Mike.Badry@gov.bc.ca)>, "Bohm, Holger FLNR:EX" <[Holger.Bohm@gov.bc.ca](mailto:Holger.Bohm@gov.bc.ca)>, "Doug Pateman (dpateman@princeton.ca)" <[dpateman@princeton.ca](mailto:dpateman@princeton.ca)>, "Jared Wright (jwright@ubcm.ca)" <[jwright@ubcm.ca](mailto:jwright@ubcm.ca)>, "Laurey Roodenburg (lroodenburg@quesnel.ca)" <[lroodenburg@quesnel.ca](mailto:lroodenburg@quesnel.ca)>, Nils B. Jensen <[oakbaymayor@oakbay.ca](mailto:oakbaymayor@oakbay.ca)>, Paul de Leur s.22, "Pendergast, Sean FLNR:EX" <[Sean.Pendergast@gov.bc.ca](mailto:Sean.Pendergast@gov.bc.ca)>, "Sara Dubois ([sdubois@spca.bc.ca](mailto:sdubois@spca.bc.ca))"

<[sdubois@spca.bc.ca](mailto:sdubois@spca.bc.ca)>, "Schmidt, Orlando AGRI:EX" <[Orlando.Schmidt@gov.bc.ca](mailto:Orlando.Schmidt@gov.bc.ca)>, "Schwantje, Helen FLNR:EX" <[Helen.Schwantje@gov.bc.ca](mailto:Helen.Schwantje@gov.bc.ca)>, "Sielecki, Leonard E TRAN:EX" <[Leonard.Sielecki@gov.bc.ca](mailto:Leonard.Sielecki@gov.bc.ca)>, "Teske, Irene FLNR:EX" <[Irene.Teske@gov.bc.ca](mailto:Irene.Teske@gov.bc.ca)>

**Sent:** 10/17/2016 4:18 PM

**Subject:** Costs Share Program Plan and Costs Share Application Guide

Hello Everyone,

If you can spare any time between now and next Monday, please review the Program Plan and the Application Guide. They both are attached and both need more work ( could use extra eyes and thoughts when it comes to evaluation criteria --there will always be some subjectivity here).

I'll arrange a PUDAC meeting for next Monday morning (24<sup>th</sup>) for those who can attend. We will need to have these completed by the morning of October 25<sup>th</sup>.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000



## **Rosche, Kimberly FLNR:EX**

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Tuesday, October 25, 2016 9:56 AM  
**To:** 'Jared Wright'  
**Subject:** 2016-10-25 RE: a quick meeting this morning?

Sure I can make that work. Would prefer 11:00 a.m. though—can that work?

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Jared Wright [<mailto:jwright@ubcm.ca>]  
**Sent:** Tuesday, October 25, 2016 9:14 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** Re: a quick meeting this morning?

Yeas after 1030...want me to call?

Sent from Samsung Mobile

----- Original message -----

From: "Morgan, Jeff A FLNR:EX"  
Date: 10/25/2016 8:35 AM (GMT-08:00)  
To: "'Jared Wright ([jwright@ubcm.ca](mailto:jwright@ubcm.ca))'"  
Subject: a quick meeting this morning?

Hi Jared,

The call for proposal doc is ready.

Do you have time for a quick meeting this morning?

Sincerely,

Jeff Morgan

Fish and Wildlife Branch - Policy Manager

Resource Stewardship Division

Ministry of Forests, Lands and Natural Resource Operations

Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

# 2016/17 Provincial Urban Deer Cost-Share Program: A Program and Application Guide

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**Ministry of Forests, Lands and Natural Resource Operations**  
**Resource Stewardship Division**  
**The Fish and Wildlife Branch**

October 25, 2016

## **1. Introduction**

Since the provincial government's announcement in September of 2015 that it would make \$100,000/year available to help fund urban deer management projects, the Fish and Wildlife Branch (the "Branch") within the Ministry of Forests, Lands and Natural Resource Operations has been working with the Union of BC Municipalities (UBCM) to co-lead the Provincial Urban Deer Advisory Committee (PUDAC) and to develop the *Provincial Urban Deer Cost-Share Program*. Urban deer/human conflicts typically occur in areas of human habitation (e.g. suburbs) where management techniques such as hunting deer are not appropriate. The Branch now is putting out a 'call for proposals' to local governments and Indian Bands/First Nations that are engaged in urban deer management projects (present to March 15, 2017).

In order to be eligible for funding, the proposals must fall into 'operational' or 'research' categories and they must meet all of the identified criteria. Further, potential shared cost agreements will be constrained by funding formulas and/or caps.

All materials that are provided by local governments or Indian Bands/First Nations, and that relate to the *Provincial Urban Deer Cost-Share Program*, may be released to the public.

For further information please contact Jeff Morgan by e-mail at [jeff.morgan@gov.bc.ca](mailto:jeff.morgan@gov.bc.ca).

## **2. Purpose**

The purpose of this program is provide local governments or Indian Bands/First Nations with funds to help them address urban deer management challenges through operational or research projects. This provides an opportunity for local governments and Indian Bands/First

Nations to partner with the provincial government and other organizations in the delivery of urban deer management solutions, the advancement of research and information transfer.

### 3. Objectives

The objectives of the *Provincial Urban Deer Cost-Share Program* are to:

- encourage effective community-based urban deer planning and communications,
- support high-value projects that will effectively manage urban deer,
- provide learning opportunities through scientifically rigorous research trials,
- partner effectively with local governments and Indian Bands/First Nations in the delivery of urban deer management actions,
- foster a standardized and structured approach to management actions, reporting and monitoring in order to continuously improve 'best practices',
- encourage effective communications and information transfer between the provincial and local governments and Indian Bands/First Nations,
- develop effective information and education materials, and
- acquire and loan specialized deer management equipment to local governments and Indian Bands/First Nations.

### 4. Eligibility Criteria, Funding Formulas and Caps (FY 2016/17)

Any local government or Indian Band/First Nation that meets the following criteria is eligible for funding under this program. In 2016/17 the Program is intended to support 'shovel ready' projects that are consistent with community-based planning processes.

The *Provincial Urban Deer Cost-Share Program* will fund priority projects that:

- address human-deer conflict in areas where the use of traditional (e.g. hunting) deer management techniques are not appropriate,
- are consistent with objectives that have been developed through a community-based planning process,
- have a resolution of support from the local government's council or board or Indian Band's/First Nation's chief and council,
- are compliant with all applicable laws and by-laws and adequately manage all human safety, environmental and animal welfare risks,
- are in accordance with a permit issued under the *Wildlife Act* (or any other statute),
- are technically sound and feasible,
- are scientifically rigorous (if a research project),
- commit to reporting, and

- provide matching funds (from the local government or Indian Band/First Nation or any partners).

The program will provide financial support to approved projects that are undertaken from late fall 2016 to March 15, 2017. Eligible activities will fall into two categories which are 'Operational Projects' and 'Research Projects'.

#### **4.1. Operational Projects**

'Operational projects' are those that are intended to directly manage or deter deer populations and that are known to be effective in achieving immediate objectives while managing all associated risks. Presently, operational projects include: 1) fencing or cattle guards that block access to, or from, attractants or green belt corridors and 2) culling projects (capture and bolt gun). Funding support for deterrents will be at discretion of the Branch however, the local government or Indian Band/First Nation and any partners are expected to contribute at least 50% of the project's total budget. Culling operations in the BC Interior will be supported at a rate of \$200/ culled deer. In Coastal BC, culls will be supported at a rate of \$300/culled deer. This support is intended to match the local government's operational costs associated with culling on a 50/50 basis. Cost-share funding support for operational projects will be capped at \$20,000/year\*.

\* Funding caps may be adjusted downwards depending on program uptake.

#### **4.2 Research Projects**

'Research projects' are defined as trial-based applied research that is intended to directly or indirectly manage or deter deer populations. Trial-based projects are those that are not yet known to be effective in achieving objectives or managing associated risks in BC. Activities such as hazing, translocation and immuno-contraception are some examples that could fall into this category. Funding support for research will not be based on any formulae. Rather, it will be based on the value of the research activity, other objectives and the associated funding commitments. All research projects must be scientifically rigorous and will be evaluated according to separate criteria. Cost-share funding support for individual research projects will *generally* be capped at \$20,000/ year\* however, funding levels will be at the discretion of the Branch.

\* Funding caps may be adjusted downwards depending on program uptake.

## 5. The Application Outline

Applications for an Operational Project will include:

- A cover letter that confirms that the project plan has a 'resolution of support' from the local government's council or board or the Indian Band's/First Nation's Chief and Council and that the project is consistent with objectives that have been developed through a community-based planning process.
- A Project Plan that includes:
  - background and a description of current issues,
  - goals and objectives,
  - a description of project area,
  - works to be undertaken,
    - description of work,
    - methods/techniques that will be used,
    - risk (animal welfare, human safety, environmental) management actions,
    - timelines,
  - a commitment to the reporting expectations outlined in Appendix 1 and a description of any subsequent follow-up reports (e.g. monitoring),
  - a funding request,
  - a budget with a clear description of all funding partners and their contributions and any funding restrictions,
  - a discussion on how the project's techniques and objectives are consistent with the appropriate community-based plan,
  - confirmation that the project is compliant with all applicable laws and by-laws, and
  - **confirmation that all required permits have been obtained or have been applied for (include a copy of the permit(s) or the applications).**

Applications for a Research Project will include:

- A cover letter that confirms that the project plan has a 'resolution of support' from the local government's council or board or the Indian Band's/First Nation's Chief and Council.
- A Research Project Plan that includes:
  - background and a description of current management challenges or knowledge gaps,
  - goals and objectives (especially if the projects blends operations and research),
  - a clear description of the research question,
  - works to be undertaken,
    - study design and intended analysis,
    - methods/techniques that will be used,

- risk (animal welfare, human safety, environmental) management actions,
- timelines,
- a commitment to the reporting expectations outlined in Appendix 1 and a description of any subsequent follow-up reports (e.g. monitoring),
- a funding request,
- a budget with a clear description of all funding partners and their contributions and any funding restrictions,
- a discussion on how the project's techniques and objectives are consistent with the appropriate community-based plan,
- **confirmation that all required permits have been obtained or have been applied for (include a copy of the permit(s) or the application(s)),**
- a description of the research committee (names of the individuals, their affiliated organization and their position on the committee described), and
- a description of how the research will be reported (e.g. unpublished manuscript, published manuscript, post graduate thesis).

## 6. Project Evaluation

All Proposals must meet all of the eligibility criteria (Section 4) and provide the information in the requested format (Section 5).

Operation Proposals will be evaluated based on the following criteria:

- Value of Project's Objectives, Current Level of Impact/Risks and the Immediate need for Action (Weight 20 Points)
  - Garden or Crop Losses
  - Environmental Impacts (e.g. over-browsing in valuable ecosystems)
  - Domestic Animal Conflict
  - Human Safety (motor vehicle collisions, direct aggression, predator interactions, human health)
- The Expected Impact of the Project and its Cost-Effectiveness (Weight 20 Points)
- Contributions from funding partners (Weight 5 Points)

Research Proposals will be evaluated based on the following criteria:

- The Scientific Value of the Project and its Potential to Innovate Practices in BC (Weight 20 Points)

- The Associated Objectives - Impact of the Project and its Cost Effectiveness (Weight 20 Points)
  - Garden or Crop Losses
  - Environmental Impacts (e.g. over-browsing in valuable ecosystems)
  - Domestic Animal Conflict
  - Human Safety (motor vehicle collisions, direct aggression, predator interactions, human health)
- Contributions from funding partners (Weight 5 Points)

## **7. Payments, Records and Accounts for Approved Projects**

In 2016/17 the Fish and Wildlife Branch will make up to \$100,000 (in total), available to local governments or Indian Bands/First Nations through shared cost agreements. The Branch will receive all project proposals and will be responsible for the final funding prioritizations and allocations.

Funding allotments, general conditions and timelines will be communicated through 'agreements in principle' (via-email). By agreeing, the successful applicant will confirm that it can meet the expressed expectations and will accept the funding.

The Fish and Wildlife Branch and local government or Indian Band/First Nation (or lead entity-in the case of a multi-jurisdictional project) will then develop and enter into a shared cost agreement. Once the works specified in the contract's 'Schedule A' have been completed, and a project completion report has been finalized, the local government will submit the report and an invoice the Branch.

A statement from the local government's or Indian Band's/First Nation's Chief Financial Officer that verifies the total cost of the project must be attached to the project completion report. When applicable, this statement will also identify other contributions such as in-kind, matching funding, and other revenue sources required in order to complete the project. The local government's or Indian Band's/First Nation's Chief Financial Officers will maintain acceptable accounting records that clearly disclose the nature and amounts of the different items of cost pertaining to the project's activities. The Program Officer for the *Provincial Urban Deer Cost-Share Program* may require applicants to provide details of the types and amounts of all fees and costs (including 'in-kind') associated with contractors, consultants and in-house staff.

If any changes to a project are contemplated, the Program Officer's written approval is required to ensure the project remains consistent with the shared cost agreement.



## 8. Application Process

### 8.1 Where to Apply

Apply via e-mail to:

Jeff Morgan (Program Officer for the Urban Deer Cost-Share Program)

Fish and Wildlife Branch

jeff.morgan@gov.bc.ca

### 8.2 When to Apply

Applications should be received on or before **November 22, 2016**. Depending on program uptake, late applications may be accepted. Approvals 'in principle' may be arranged if elements of the proposal are in progress but not available at the time of application.

## 9. Timelines:

- **October 26, 2016:** Provincial Urban Deer Cost-Share Program's Call for proposals go out (for 2016/17 fiscal).
- **November 22, 2016:** Deadline for local governments or Indian Bands/First Nations to submit their project proposals.
- **November 28, 2016:** Provincial Urban deer Advisory Committee review of proposals completed.
- **December 2, 2016:** Branch notifies local governments or Indian Bands/First Nations of their available funding allotments (through 'agreements in principle').
- **December 16, 2016:** Branch enters into agreements with successful local governments or Indian Bands/First Nations.
- **March 15, 2017:** Deadline for local governments or Indian Bands/First Nations to submit invoices and project completion reports to the Branch.

## Appendix 1: Report Outlines

The following formats are to be used when preparing Project Completion Reports for projects that are funded by the *Provincial Urban Deer Cost-Share Program*.

Operational Project:

1. Abstract
2. Introduction/Background
3. Purpose/Objectives
4. Project Area/Area of Influence
  - a. Methods/Techniques (including risk management actions)

5. Results
6. Summary/Lessons Learned
7. Literature Cited (if applicable)

Research Project:

1. Abstract
2. Introduction
  - a. Background
  - b. Research Question
3. Study Area (and Area of Influence if operational goals are also involved)
4. Methods/Techniques (including risk management actions)
5. Results
6. Discussion
7. Summary/Management Implications
8. Literature Cited

## **Rosche, Kimberly FLNR:EX**

---

**From:** Curtis Helgesen <chelgesen@elkford.ca>  
**Sent:** Wednesday, October 26, 2016 1:57 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** 2016-10-26 New Intake - UBCM Deer Funding

Hi Jeff,

I was wondering what your availability might be for a few questions on a fence we are contemplating to manage the populations here in Elkford.

Let me know.

Thanks,

**Curtis Helgesen**  
**Chief Administrative Officer**  
**Director, Financial Services**

District of Elkford  
PO Box 340  
Elkford, BC V0B 1H0  
Direct: 250.865.4004  
Phone: 250.865.4000  
Fax: 250.865.4001  
Cell: s.22  
email: [chelgesen@elkford.ca](mailto:chelgesen@elkford.ca)  
[www.elkford.ca](http://www.elkford.ca)



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## **Rosche, Kimberly FLNR:EX**

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, October 26, 2016 9:57 AM  
**To:** 'Jared Wright'  
**Subject:** 2016-10-26 RE: Call for Proposals - PDF

Yes later...

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Jared Wright [<mailto:jwright@ubcm.ca>]  
**Sent:** Wednesday, October 26, 2016 9:54 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** Re: Call for Proposals - PDF

Has this been posted to your website or are we just going through us? I think its the latter.

---

Jared Wright  
Director of Advocacy and Government Relations  
Union of British Columbia Municipalities  
525 Government Street, Victoria, BC  
V8V 0A8  
(w) 250-387-0891  
(c) s.22

**From:** "Morgan, Jeff A FLNR:EX" <[Jeff.Morgan@gov.bc.ca](mailto:Jeff.Morgan@gov.bc.ca)>  
**To:** "Jared Wright ([jwright@ubcm.ca](mailto:jwright@ubcm.ca))" <[jwright@ubcm.ca](mailto:jwright@ubcm.ca)>  
**Cc:** "Clarke, Brennan GCPE:EX" <[Brennan.Clarke@gov.bc.ca](mailto:Brennan.Clarke@gov.bc.ca)>  
**Sent:** 10/25/2016 4:01 PM  
**Subject:** Call for Proposals - PDF

Hello Jared,

A few edits and in PDF format.

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

## Rosche, Kimberly FLNR:EX

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, October 26, 2016 2:26 PM  
**To:** FLNR DRMs; FLNR Fish and Wildlife Section Heads; Badry, Micheal J ENV:EX; Harrison, Scott FLNR:EX; McLean, Craig A FLNR:EX; Pendergast, Sean FLNR:EX; Schwantje, Helen FLNR:EX; Smith, Jennifer FLNR:EX; Teske, Irene FLNR:EX; Walker, Andrew FLNR:EX  
**Cc:** Ramsay, Mike K FLNR:EX; Trotter, Ward FLNR:EX  
**Subject:** 2016-10-26 Urban Deer Cost-Share - Call for Proposals  
**Attachments:** Urban\_Deer\_Program-Program and Application Guide 2016.pdf

Hello All,

You will find attached the call for proposals for the Provincial Urban Deer Cost-Share Program. It will be posted by the UBCM shortly (today hopefully). Please feel free to pass along the document to those communities you may be working with. Also, if you are aware of any Indian Bands/First Nations that are experiencing urban deer issues please direct them to this program (and yes, I fully realize many of the more remote First Nations will not be experiencing deer problems that they cannot resolve on their own).

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, October 26, 2016 10:28 AM  
**To:** Badry, Micheal J ENV:EX; Bohm, Holger FLNR:EX; Doug Pateman ([dpateman@princeton.ca](mailto:dpateman@princeton.ca)); Jared Wright ([jwright@ubcm.ca](mailto:jwright@ubcm.ca)); Laurey Roodenburg ([lrroodenburg@quesnel.ca](mailto:lrroodenburg@quesnel.ca)); Nils B. Jensen ; Paul de Leur ; Pendergast, Sean FLNR:EX; Sara Dubois ([sdubois@spca.bc.ca](mailto:sdubois@spca.bc.ca)); Schmidt, Orlando AGRI:EX; Schwantje, Helen FLNR:EX; Sielecki, Leonard E TRAN:EX; Teske, Irene FLNR:EX  
**Cc:** Trotter, Ward FLNR:EX; Ramsay, Mike K FLNR:EX; Thomas, Keith D FLNR:EX; Clarke, Brennan GCPE:EX  
**Subject:** Call for Proposals

Hello All,

You will find attached the call for proposals that the UBCM will be posting on its website today. I thank you all for your contributions---they definitely helped shape the product.

Jared can you please provide the link?

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

Page 094 to/à Page 101

Withheld pursuant to/removed as

DUPLICATE

## **Rosche, Kimberly FLNR:EX**

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, October 26, 2016 3:20 PM  
**To:** 'Jared Wright'  
**Subject:** 2016-10-26 RE Call for Proposals

Thanks Jared!

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Jared Wright [<mailto:jwright@ubcm.ca>]  
**Sent:** Wednesday, October 26, 2016 3:12 PM  
**To:** Morgan, Jeff A FLNR:EX; Badry, Micheal J ENV:EX; Bohm, Holger FLNR:EX; Doug Pateman ([dpateman@princeton.ca](mailto:dpateman@princeton.ca)); Laurey Roodenburg ([lroodenburg@quesnel.ca](mailto:lroodenburg@quesnel.ca)); Nils B. Jensen; Paul de Leur; Pendergast, Sean FLNR:EX; Sara Dubois ([sdubois@spca.bc.ca](mailto:sdubois@spca.bc.ca)); Schmidt, Orlando AGRI:EX; Schwantje, Helen FLNR:EX; Sielecki, Leonard E TRAN:EX; Teske, Irene FLNR:EX  
**Cc:** Trotter, Ward FLNR:EX; Ramsay, Mike K FLNR:EX; Thomas, Keith D FLNR:EX; Clarke, Brennan GCPE:EX  
**Subject:** Re: Call for Proposals

Hello All,

The application guide and call for proposals has gone out today via the attached newsletter article:

[http://www.ubcm.ca/EN/meta/news/news-archive/2016-archive/urban-deer-management-funding-applications-now-available.html?utm\\_source=The+Compass+-+October+26%2C+2016&utm\\_campaign=The+Compass+-+October+26%2C+2016+&utm\\_medium=email](http://www.ubcm.ca/EN/meta/news/news-archive/2016-archive/urban-deer-management-funding-applications-now-available.html?utm_source=The+Compass+-+October+26%2C+2016&utm_campaign=The+Compass+-+October+26%2C+2016+&utm_medium=email)

Kind regards,

Jared

---

Jared Wright  
Director of Advocacy and Government Relations  
Union of British Columbia Municipalities  
525 Government Street, Victoria, BC  
V8V 0A8  
(w) 250-387-0891  
(c) s.22

**From:** "Morgan, Jeff A FLNR:EX" <[Jeff.Morgan@gov.bc.ca](mailto:Jeff.Morgan@gov.bc.ca)>  
**To:** "Badry, Micheal J ENV:EX" <[Mike.Badry@gov.bc.ca](mailto:Mike.Badry@gov.bc.ca)>, "Bohm, Holger FLNR:EX" <[Holger.Bohm@gov.bc.ca](mailto:Holger.Bohm@gov.bc.ca)>, "Doug Pateman ([dpateman@princeton.ca](mailto:dpateman@princeton.ca))" <[dpateman@princeton.ca](mailto:dpateman@princeton.ca)>, "Jared Wright ([jwright@ubcm.ca](mailto:jwright@ubcm.ca))" <[jwright@ubcm.ca](mailto:jwright@ubcm.ca)>, "Laurey Roodenburg ([lroodenburg@quesnel.ca](mailto:lroodenburg@quesnel.ca))"

<lroodenburg@quesnel.ca>, Nils B. Jensen <oakbaymayor@oakbay.ca>, Paul de Leur s.22  
"Pendergast, Sean FLNR:EX" <Sean.Pendergast@gov.bc.ca>, "Sara Dubois (sdubois@spca.bc.ca)"  
<sdubois@spca.bc.ca>, "Schmidt, Orlando AGRI:EX" <Orlando.Schmidt@gov.bc.ca>, "Schwantje, Helen  
FLNR:EX" <Helen.Schwantje@gov.bc.ca>, "Sielecki, Leonard E TRAN:EX" <Leonard.Sielecki@gov.bc.ca>,  
"Teske, Irene FLNR:EX" <Irene.Teske@gov.bc.ca>  
**Cc:** "Trotter, Ward FLNR:EX" <Ward.Trotter@gov.bc.ca>, "Ramsay, Mike K FLNR:EX"  
<Mike.Ramsay@gov.bc.ca>, "Thomas, Keith D FLNR:EX" <Keith.Thomas@gov.bc.ca>, "Clarke, Brennan  
GCPE:EX" <Brennan.Clarke@gov.bc.ca>

**Sent:** 10/26/2016 10:27 AM

**Subject:** Call for Proposals

Hello All,

You will find attached the call for proposals that the UBCM will be posting on its website today. I thank you all for your contributions---they definitely helped shape the product.

Jared can you please provide the link?

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000



## **Rosche, Kimberly FLNR:EX**

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Thursday, October 27, 2016 10:57 AM  
**To:** Sielecki, Leonard E TRAN:EX  
**Subject:** 2016-10-27 RE: Follow-up - RE: Call for Proposals

Hi Leonard....thanks for the thoughts on this. I think we should consider a strategic approach. This year I think we should focus on the existing risks and opportunities regardless of pop size. Because we must address the biggest issues.

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Sielecki, Leonard E TRAN:EX  
**Sent:** Wednesday, October 26, 2016 4:42 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** Follow-up - RE: Call for Proposals

Hello Jeff:

I had an idea for a strategy for distributing the funding:

Three classes of communities to cover the range of community sizes: small (under 5,000) /medium (5,000 to 50,000) /large (50,000+)  
Three classes of projects to cover range of costs and complexity: scoping and assessment (under \$5k)/small scale mitigation (\$5k to \$10k)/large scale mitigation (\$10k+)

This would enable all types of communities to apply for funding and have the funding distributed more equitably.

Leonard

Leonard Sielecki  
Wildlife and Environmental Specialist  
BC Ministry of Transportation and Infrastructure  
PO Box 9850 STN PROV GOVT  
4B – 940 Blanshard Street  
Victoria, BC Canada V8W 9T5  
Tel: 250-356-2255  
Email: [leonard.sielecki@gov.bc.ca](mailto:leonard.sielecki@gov.bc.ca)

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, October 26, 2016 10:28 AM  
**To:** Badry, Micheal J ENV:EX; Bohm, Holger FLNR:EX; Doug Pateman ([dpateman@princeton.ca](mailto:dpateman@princeton.ca)); Jared Wright ([jwright@ubcm.ca](mailto:jwright@ubcm.ca)); Laurey Roodenburg ([lroodenburg@quesnel.ca](mailto:lroodenburg@quesnel.ca)); Nils B. Jensen ; Paul de Leur ; Pendergast, Sean FLNR:EX; Sara Dubois ([sdubois@spca.bc.ca](mailto:sdubois@spca.bc.ca)); Schmidt, Orlando AGRI:EX; Schwantje, Helen FLNR:EX; Sielecki, Leonard E TRAN:EX; Teske, Irene FLNR:EX

**Cc:** Trotter, Ward FLNR:EX; Ramsay, Mike K FLNR:EX; Thomas, Keith D FLNR:EX; Clarke, Brennan GCPE:EX

**Subject:** Call for Proposals

Hello All,

You will find attached the call for proposals that the UBCM will be posting on its website today. I thank you all for your contributions---they definitely helped shape the product.

Jared can you please provide the link?

Sincerely,

Jeff Morgan

Fish and Wildlife Branch - Policy Manager

Resource Stewardship Division

Ministry of Forests, Lands and Natural Resource Operations

Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

**Rosche, Kimberly FLNR:EX**

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Monday, October 31, 2016 3:38 PM  
**To:** 'zkirk@rdos.bc.ca'  
**Cc:** McLean, Craig A FLNR:EX  
**Subject:** 2016-10-31 Deer - Call for Proposals

Hello Zoe,

You will find attached the call for proposals that the UBCM posted last week. I wanted to make sure you were aware of this opportunity and I wanted to let you know that I am available to answer any questions that you might have. As I recall, last year you were considering some fencing work. Depending on the nature of the work, it might qualify for funding fit under this program.

If you do have any questions, please feel to contact me via e-mail or by phone.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

Page 107 to/à Page 114

Withheld pursuant to/removed as

DUPLICATE

## Rosche, Kimberly FLNR:EX

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Tuesday, November 1, 2016 12:13 PM  
**To:** 'Zoe Kirk'  
**Subject:** 2016-11-01 RE: Urban Deer - Call for Proposals  
**Attachments:** Urban\_Deer\_Program-Program and Application Guide 2016.pdf

Sorry Zoe,

Here you go...

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Zoe Kirk [<mailto:zkirk@rdos.bc.ca>]  
**Sent:** Tuesday, November 1, 2016 7:50 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** RE: Urban Deer - Call for Proposals

Hi Jeff:  
There was nothing attached to the email?

Thanks... looking forward to it 😊



**Zoe Kirk** • Public Works Projects Coordinator • WildSafeBC Community Coordinator  
Regional District of Okanagan-Similkameen  
101 Martin Street, Penticton, BC V2A 5J9  
p. 250.490.4110 • tf. 1.877.610.3737 • f. 250.492.0063  
[www.rdos.bc.ca](http://www.rdos.bc.ca) • [zkirk@rdos.bc.ca](mailto:zkirk@rdos.bc.ca)  
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---

**From:** Morgan, Jeff A FLNR:EX [<mailto:Jeff.Morgan@gov.bc.ca>]  
**Sent:** October 31, 2016 3:39 PM  
**To:** Zoe Kirk  
**Cc:** McLean, Craig A FLNR:EX  
**Subject:** Urban Deer - Call for Proposals

Hello Zoe,

You will find attached the call for proposals that the UBCM posted last week. I wanted to make sure you were aware of this opportunity and I wanted to let you know that I am available to answer any questions that you might have. As I recall, last year you were considering some fencing work. Depending on the nature of the work, it might qualify for funding fit under this program.

If you do have any questions, please feel to contact me via e-mail or by phone.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

## Rosche, Kimberly FLNR:EX

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Tuesday, November 1, 2016 4:22 PM  
**To:** Schwantje, Helen FLNR:EX  
**Subject:** 2016-11-01 RE: UWSS deer meeting

Hi Helen,

Two things:

1. Not sure what they are using on the horses....

<http://www.cbc.ca/player/play/797577283674>

2. Is the UWSS aware that the call for proposals has gone out?

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Schwantje, Helen FLNR:EX  
**Sent:** Tuesday, November 1, 2016 10:49 AM  
**To:** Morgan, Jeff A FLNR:EX; Pendergast, Sean FLNR:EX; Stalberg, Mike X FLNR:EX  
**Subject:** UWSS deer meeting

Hi

I met with Steve McKerrell, Steve Huxter s.22 and Deanna Dryhurst yesterday. Deanna is from a company that makes vaccines in Victoria (mostly for fish) and is the technical expert looking into producing Spayvac the immunocontraceptive they have proposed using on deer. There appear to be some technical and other holdups with taking over the manufacturing of Spayvac and it was quite evident that they do not feel that Mark Fraker and his colleagues have given them all the information/science they need. It was interesting that he was not there. They still are confused about the process needed to use it, both federally and provincially and were not aware there was a failed permit attempt to apply it in Oak Bay last year. I stated that I thought it was a good product (however it works, seems there is still some doubt as to the exact method) and it would have application as a wildlife management tool but only in specific situations and as part of an overall management program that may or may not include culling of deer. Including feral horses and overabundant spp elsewhere. I said I would help when and if I could but only have so much time. They seem concerned that Oak Bay has not done other steps such as public education etc. but who knows maybe they will. So overall it was OK.

Helen

---

**From:** Steve McKerrell s.22  
**Sent:** Thursday, October 27, 2016 1:13 PM  
**To:** Schwantje, Helen FLNR:EX  
**Cc:** 'Steve Huxter'; 'Deanna Dryhurst'  
**Subject:** Monday's lunch at Glo -

Hi,

Thanks for agreeing to meet with us over lunch next Monday, even though sadly Ralph will not be joining us. I made a reservation under "Steve" for 4 at 12:00.

The purpose of the meeting is to share what UWSS may be able to facilitate in development of an immuno-contraceptive as a tool for use in humane urban deer management, and hopefully acquire your advice and direction on certain aspects of the matter. As UWSS works toward supporting the creation of a well designed and properly reviewed vaccine, there could be several ways where your insight and experience would be helpful in supporting our efforts. We are also very engaged to assist in the drafting and implementation of the urban deer management process.

We see the lunch discussion as an opportunity to share thoughts on where you believe you and your team could assist, which may include:

- Helping spread the word to BC communities that a "made in BC" immuno-contraceptive vaccine for Columbian Black-Tailed Deer could soon be available
- How to best navigate through the regulatory hurdles of bringing such a product to a local trial
- Whether the province would consider assisting with permit applications
- Support to determine the best "host" for a trial
- Your thoughts on how an effective immune-contraceptive could eventually be commercialized as a veterinary drug
- And any assistance UWSS could provide with deer ecology, education, etc. specific to urban deer management

I'm certain there are many other items that will come out in our discussion.

I would like to personally declare that I am not a Director of UWSS, although I am a member of the UWSS Society. My interest is purely altruistic; volunteering my time and experience where I'm able to work toward finding a humane solution to urban deer management.

Cheers,  
Steve



## Rosche, Kimberly FLNR:EX

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Monday, November 7, 2016 2:06 PM  
**To:** 'Andrew Hunsberger'  
**Subject:** 2016-11-07 RE: Urban Deer Management Funds- City of Kelowna

Hi Andrew,

We have not posted the projects yet.

In 2015/16 We had two culls (capture and kill) and one research project on translocation. I'd be happy to discuss the types of projects that we anticipate funding in the future...

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Andrew Hunsberger [<mailto:AHunsberger@kelowna.ca>]  
**Sent:** Monday, November 7, 2016 1:23 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** Urban Deer Management Funds- City of Kelowna

Hello Jeff,

I am an Urban Forester with the City of Kelowna and I look after our natural parks and open spaces. We may be interested in accessing some of the funding made available through the Urban Deer Management Fund. Our urban deer issue is not as prevalent as other communities like Oak Bay, Cranbrook and Penticton but we do want to get ahead of the game to ensure we are doing our part as a municipality and as good stewards.

Is there a link to the types of projects that were funding in 2016?

Thanks,  
Andrew

Andrew Hunsberger, RPF  
*Urban Forest Health Technician*  
Park Services  
TEL 250 469-8599  
FAX 250 862-3335

City of Kelowna 1359 KLO, Kelowna, BC V1W 3N8 [kelowna.ca](http://kelowna.ca)

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*Join the conversation:*   

## Rosche, Kimberly FLNR:EX

---

**From:** Roseline Ferre <rferre@crd.bc.ca>  
**Sent:** Wednesday, November 16, 2016 8:15 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** 2016-11-16 RE: Urban Deer Mgmt Funding

Hi Jeff,  
Yes, I am the grants analyst.

Roseline Ferré  
Grants and Bylaws Analyst  
☎: (W) 250 - 360 - 3031  
CRD web site: [www.crd.bc.ca](http://www.crd.bc.ca)

---

**From:** Morgan, Jeff A FLNR:EX [<mailto:Jeff.Morgan@gov.bc.ca>]  
**Sent:** Tuesday, November 15, 2016 2:47 PM  
**To:** Roseline Ferre  
**Subject:** RE: Urban Deer Mgmt Funding

Hello Rosaline,

Are operating in the professional capacity as suggested by your signature below?

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Roseline Ferre [<mailto:rferre@crd.bc.ca>]  
**Sent:** Tuesday, November 15, 2016 12:40 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** Urban Deer Mgmt Funding

Hi Jeff – is it ok to submit a Board resolution after the Nov 22 application deadline?

Roseline Ferré  
Grants and Bylaws Analyst  
Finance and Technology Dept.  
Capital Regional District,  
625 Fisgard Street, PO Box 1000,  
Victoria, B.C. V8W 2S6

☎: (W) 250 - 360 - 3031  
CRD web site: [www.crd.bc.ca](http://www.crd.bc.ca)

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**Rosche, Kimberly FLNR:EX**

---

**From:** Chris Prosser <cao@invermere.net>  
**Sent:** Tuesday, November 22, 2016 10:41 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Cc:** Teske, Irene FLNR:EX  
**Subject:** 2016-11-22 Deer Management  
**Attachments:** Urban Deer Management Project Plan 2016-17.pdf

<>

Hi Jeff,

Please find attached our Deer Management Program Plan Proposal for funding under the Province program. Please let me know if you have any questions or concerns.

Regards

Chris Prosser

Chief Administrative Officer

District of Invermere

PO Box 339

914 8<sup>th</sup> Avenue

Invermere, BC V0A 1K0

Phone: 250-342-9281 ext 1225

Fax: 250-342-2934

Website: [www.invermere.net](http://www.invermere.net)

# ***Urban Deer Management Project Plan***

## ***District of Invermere***

Copyright

Prepared by:  
Chris Prosser, CAO  
District of Invermere  
PO Box 339  
Invermere, BC V0A 1K0

## **1. Introduction**

The District of Invermere, since 2006, has continued to see an increase in the urban deer population that has resulted in damage to personal property, increased costs to protect personal property, threatened public health and safety, increased risk of vehicle collisions, contributed to increased presence of predators within the District and has threatened the welfare of the deer and the public.

Deer management is often considered a topic of varied and sometimes conflicting opinions among the residents of Invermere. The issues stem from a variety of opinions of residents and in some cases the lack of adequate knowledge regarding wildlife – human conflicts. Through this process, it has become clear that a number of residents view the urban deer as pets and encourage their presence through feeding them, ignoring the bylaws and supporting the suggestion that the deer population be left alone. This in its self-propagates the problem and increases the human deer conflicts without any consideration for some form of population control to mitigate the conflicts within the community.

Residents clearly are concerned about the urban deer problem within the community and seeking some form of population control. In the residential survey conducted to assess the public perception and to collect feedback, it was overwhelming clear that residents were very concerned about the increasing deer population within the District. The comments submitted indicate a large degree of frustration from residents. They have grown increasingly tired of replacing shrubs, trees and flowers that have become the primary food source for the urban deer. As well, residents are showing increased frustration as the deer presence increases within their backyards and threatening the safety of family and pets.

Deer have become habituated to our roads, pathways, sidewalks, parks and in people's garbage. This has resulted in increased deer aggression along with subsequent increased presence of predators within the community. The ability of residents to enjoy their backyard or public spaces is slowly being eroded.

Management of urban deer requires the ongoing collaboration of all community members. The purpose of implementing deer management actions is to maximize the benefits of residents and bring deer populations within the District to a manageable level.

## **2. Project Objective**

One of the key recommendations from our Deer Management Committee Report, released in 2011, was the active removal of problematic and habituated ungulates within the urban area. In 2014/15, the District secured a three year permit to remove aggressive deer on a neighborhood complaint basis. Council directed staff to internally operate the program with our own resources to achieve the goal of removing aggressive and problem deer from targeted neighborhoods.

## **3. Work Plan**

The District receives complaints from residents regarding aggressive and problem deer within neighborhoods. These complaints are compiled and neighborhoods are identified for the removal of aggressive or problem deer.

Each fall the complaints are gathered, mapped and residents approached for the use of their property for the deer management program. In addition, each November, the District conducts an Annual Deer

Count to monitor the deer population within the community and to track changes from year to year. This Count is also used to understand the success of our deer management program.

The process includes baiting, capture and the use of clover traps, and dispatching deer with a Captive Bolt Stunner. Traps are placed on residential properties who have signed up to have problem deer removed. The sites are pre-baited and traps are set between the hours of 9pm and 5am each day.

The next morning, if a deer is trapped they move quickly and efficiently to collapse the trap, secure the deer to the ground, bolt gun the deer, erect the trap, place the deer in a sled and drag it to the truck and move on to the next site. The process takes less than five minutes. Once all traps are visited they return to the cleaning and storage site. The deer are recorded and delivered to the local Butcher for processing. The District has a standing agreement with the local Food Bank that they will pay for the meat processing.

The District currently has a valid Wildlife Act Permit (Permit # CB14-140587) that permits the program for the 2014/15 to 2016/17 seasons. The program starts December 1 and ends March 31 of each year and expires on March 31, 2017.

#### **4. Monitoring and Reporting Process**

The District annually conducts a deer count to measure the success of the program and whether or not we are seeing a decrease in urban deer. In addition, we contact complainants within the targeted area to determine if they have seen a decrease in urban deer conflicts. In the first year of the program, the targeted neighborhoods have seen a dramatic decrease in aggressive deer complaints and the input from those property owners within the targeted neighborhoods, overall numbers of deer have decreased.

All dispatch animals are recorded and an annual report submitted to the Regional Office in Cranbrook.



## 5. Budget

The proposed program utilizes internal staff with the support of the local Butcher.

The program has a maximum permitted amount of 60 animals to be removed from the community. In 2015/16 the District removed a total of 9 deer from the community through the process outlined above. The budget for the program is as follows:

### 2015/16 Actuals

<b>Deer Management Program</b>	<b>Actuals</b>
Labour – Staff resources for physical removal	\$13,565
Travel and Accommodations	\$442
Technical Training	\$500
Contracted Services (Butchering)	\$3,588
Internal Equipment	\$1,434
Materials and Supplies	\$7,037
<b>Total</b>	<b>\$26,066</b>

### 2016/17 Program Estimates

<b>Deer Management Program</b>	<b>Budget</b>
Labour – Staff resources for physical removal	\$15,000
Travel and Accommodations	0
Technical Training	\$500
Contracted Services (Butchering)	\$5,000
Internal Equipment	\$1,000
Materials and Supplies	\$500
<b>Total</b>	<b>\$22,000</b>

## **Appendix A – Deer Committee Recommendation Report**

**District of Invermere  
Urban Deer Management Committee  
Final Report and Recommendations  
July 2011**



## Executive Summary

The District of Invermere, since 2006, has continued to see an increase in the urban deer population that has resulted in damage to personal property, increased costs to protect personal property, threatened public health and safety, increased risk of vehicle collisions, contributed to increased presence of predators within the District and has threatened the welfare of the deer and the public.

Deer management is often considered a topic of varied and sometimes conflicting opinions among the residents of Invermere. The issues stem from a variety of opinions of residents and in some cases the lack of adequate knowledge regarding wildlife – human conflicts. Through this process, it has become clear that a number of residents view the urban deer as pets and encourage their presence through feeding them, ignoring the bylaws and supporting the suggestion that the deer population be left alone. This in its self propagates the problem and increases the human deer conflicts without any consideration for some form of population control to mitigate the conflicts within the community.

Residents clearly are concerned about the urban deer problem within the community and seeking some form of population control. In the residential survey conducted to assess the public perception and to collect feedback, it was overwhelming clear that residents were very concerned about the increasing deer population within the District. The comments submitted indicate a large degree of frustration from residents. They have grown increasingly tired of replacing shrubs, trees and flowers that have become the primary food source for the urban deer. As well, residents are showing increased frustration as the deer presence increases within their backyards and threatening the safety of family and pets.

Deer have become habituated to our roads, pathways, sidewalks, parks and in people's garbage. This has resulted in increased deer aggression along with subsequent increased presence of predators within the community. The ability of residents to enjoy their backyard or public spaces is slowly being eroded.

Management of urban deer requires the ongoing collaboration of all community members. The purpose of implementing deer management actions is to maximize the benefits of residents and bring deer populations within the District to a manageable level.

The task of the District's Urban Deer Management Committee was not of one to find consensus where all the concerns could be met, nor one to eradicate the deer population from the community. A certain number of urban deer within the community would meet the desires of the community, as residents and visitors enjoy seeing deer once and awhile within the community. Residents have accepted that as part of the environment they live in and visitors enjoy that non-aggressive wildlife can be part of the community.

The Deer Committee was tasked with identifying resident issues and concerns, researching and evaluating solutions, determining which potential solutions may work in Invermere and making recommendations to implement the proposed actions. After considering all of the potential options and reviewing the ramifications of reducing the deer population, it is clear that there is no simple solution to address the concerns of all residents. Safety, in respect to a reduction in deer human conflicts, vehicle collisions, biological carrying capacity, socio-economic carrying capacity, along with considerations for each management recommendation to solve the existing issues must be considered.

This report summarizes the following as it relates to urban deer in Invermere:

- deer are natural and are a permanent part of the community;
- deer are clearly a public health and safety problem;

- it is recognized that in order to have a manageable deer population, deer numbers must be reduced;
- to achieve this reduction, lethal and non-lethal actions are necessary;
- any management option must be safe, humane, cost effective and be achievable;
- management options must comply with all bylaws and government regulations; and
- annual evaluation of management actions must include consideration for human health and safety, biological integrity, conflict resolution, cost to implement, and social/political realities.

Invermere's Urban Deer Committee recommends to the District of Invermere that the following actions be undertaken firstly:

1. That a permanent Urban Deer Advisory Committee be established;
2. That the District, in partnership with the Province initiate a trap and cull and a relocation program to reduce the urban deer population;
3. That public education programs be initiated to provide residents solutions to deer proof their properties, mitigate deer-human conflicts and to reduce the feeding of deer;
4. That administrative processes are created to ensure that procedures are current; and
5. Annually review actions completed, status of the deer population and to determine what future deer management options are required.

Respectfully Submitted on behalf of Invermere's Urban Deer Management Committee.

Councillor Ray Brydon  
Chairperson

## **1.0 Introduction**

The District of Invermere has been experiencing a rising number of deer-human conflicts within the community since 2006. Urban mule deer population has increased due to bounty provided by residential areas and the relative protection from traditional predators. The existence of new and abundant food sources, including public feeding of deer, leads to extreme habitation and overpopulation within the community today. Due to the high deer density within the community, sightings of predators, such as cougars are increasing.

The presence of urban sprawl in certain areas of the community combined with increased activities outside of our boundaries has decreased the amount of suitable winter range to further contribute to the urban deer problem. In addition, human safety is being threatened with increased vehicle collisions and aggressive deer behaviour. Residents have stated that their pets have been attacked and have felt threatened by aggressive deer when walking or running.

The District recently adopted a Deer Feeding and Wildlife Attractants Bylaw and will be considering increased enforcement through an updated ticketing bylaw.

In response to the urban deer issue, the Province developed a report entitled "British Columbia Urban Ungulate Conflict Analysis" (March 2010). The purpose of the document was to review urban deer management options and provide mitigation recommendations. This report was sent to all communities interested and was well received.

Since September 2010, Invermere has been following other communities that initiated the implementation of a number of recommendations outlined in the report. Invermere has completed the following recommendations:

- Adoption and enforcement of no feeding deer bylaw;
- Conducting and analyzing resident surveys;
- Creating an urban deer management committee; and
- Conducting deer population inventories.

### **Invermere Urban Deer Management Committee**

In December 2010, Council adopted the Terms of Reference for the creation of an Urban Deer Management Committee and proceeded to seek residents to participate in reviewing the community's potential solutions. The committee consisted seven voting and one nonvoting member.

The Committee was composed of the following:

1. Two members from the District of Invermere Council;
2. One member from the Ministry of the Environment;
3. Four members from citizens selected "at large"; and
4. The Mayor.

All members, except for the MOE representative, were required to be residents of the District of Invermere.

The scope of the work, as outlined in the terms of reference, for the committee was to:

- Assess the results of the public survey on urban deer population;
- Coordinate a count of the urban deer population within the boundaries of the District;
- Identify acceptable options for the management of the urban deer population;
- Identify strategies for the prevention and management of human-deer conflicts;

- Present final report to Council with recommendations on management of the urban deer population.

The committee has met regularly since its appointment in January 2011. Several deer management options have been considered and innovative ideas have been presented to the committee for consideration, including education, relocation, culling, restricted hunting, sharpshooting, fertility control, hazing, and area fencing. The committee has sought the advice of the Ministry as well as the other communities that are further along the management process. A member from the Ministry has attended the majority of the meetings to provide technical advice.

### ***Resident Survey Analysis***

In January 2011, the District conducted a survey of residents to determine the public perception of the urban deer issue within the community. A comprehensive survey was mailed to 1800 property owners and was provided online through the District website. The District received 285 completed surveys.

The main concerns are as follows:

- Damage to plantings (67%)
- Aggression to pets (57%)
- Aggression to humans (54%)
- Overpopulation of the herd (48%)
- Deer/vehicle collisions (47%)

The results also indicated that 64% of respondents were concerned about the deer population in Invermere; 79% of respondents were concerned about deer aggression; 75% wished to see at least a 30% reduction in the deer population.

### ***Urban Deer Count***

One of the Committee's first tasks was to organize and conduct an urban deer count. The committee and other volunteers conducted a deer count on February 19, 2011. The District was divided into seven (7) areas. Each survey area was driven and portions walked by 2 or more people within a two (2) hour period. The deer were counted, but were not classified according to sex and age. Overall, the deer population within the District boundaries is 199 deer or 18 deer/sq km observed.

## **2.0 Urban Deer Management Options**

The Committee's approach was to outline the variety of logistically and financially feasible management options to control the urban deer population within Invermere. Each management option considered by the committee is outlined below. The Committee has provided a brief description of each management option identified and evaluated the pros and cons of each item, outlined the work completed to investigate these options and provided a final summary on each option. Recommended actions will be identified in a subsequent section of this report.

### **Relocation**

#### *What is it?*

Relocation is the process of trapping deer in an urban environment and moving them to a suitable and approved natural environment. The Province has indicated that a potential suitable location to relocate the Invermere deer exists in the Upper Kootenay River Valley.

#### *Pros:*

- It has reduced deer populations by moving them to a suitable rural area.
- This method is perceived as desirable because it is the most politically correct strategy (i.e. no killing is involved).
- Under special circumstances, may be of value for small social groups of deer that are in localized areas.
- May be of value when the deer population at the release site is below carrying capacity.

#### *Cons:*

- Relocation may be costly in comparison to the trapping and culling option.
- Survival rates are questionable with the possibility of injury and death in the process.
- Relocation leaves a false impression that the deer have not been affected by being relocated. Deer, however, may suffer from malnutrition, dehydration, decreased immunocompetence and become more susceptible to pathogens and predation if not handled properly.
- Not as humane as the public might think; not necessarily a non-lethal management option.
- Ungulates habituated to urban environments may seek out comparable residential locations from which they came.
- Groups such as the BCSPCA and PETA are concerned about this method of reduction due to mortality or injury to the animals.

#### *Discussion*

Relocation may at first glance appear to be the most humane option to reduce the urban deer population. However, capture, handling, transport and release in unfamiliar territory can result in moderate to high rates of injury and mortality. The Committee reviewed this option based upon the potential availability of an approved site within the Upper Kootenay River Valley. The MOE representative stated that this location exists and is available to the community for relocation.

The Committee is recommending that a relocation program be initiated in the spring of 2012.



## **Trap and Cull**

### *What is it?*

The process includes baiting, capture and the use of clover traps, and dispatching deer with a Captive Bolt Stunner.

### *Pros:*

- The most effective option in areas where other lethal options cannot be feasibly employed, or where individual deer are identified as a problem.
- A potential cost-effective method to reduce large numbers of deer in order to reduce the deer population to manageable numbers which would allow other non-lethal methods to be implemented.
- Moderate costs once logistics in place.
- Humane, expedient and safe.
- Meat can be processed and distributed to local food banks.

### *Cons:*

- Initial cost may be high. Requires the purchase of equipment for the program
- Requirements for facilities to dress and process deer for butchering.
- May generate public complaints.
- Requires professionally trained people.

### *Discussion:*

Helena Montana undertakes an annual deer cull using the methodology outlined above. The operations are well organized and have proven to be efficient and cost effective during the past three years. Helena followed the same process similar to the one our Deer Committee has undertaken. Based upon their review, they initiated a trap and cull program in 2008. Their program was supported and partially funded by the State of Montana.

In 2008, approximately \$35,000 was allocated for the program by the City of Helena. This funding was used to acquire the equipment necessary to begin the program. Their estimated cost is \$100/deer and incidental expenses based on an average of four deer/day. In the fall of 2008, 50 deer were culled as part of a pilot project. During the winter 2008/09, an additional 200 deer were culled.

In year two of the program, an additional \$30,000 was allocated but only \$15,000 was used to remove approximately 150 deer. The 2010/11 budget is \$15,000 with 25 deer scheduled to be removed, with an option to remove another 25, depending on weather and timing. Costs rise if the average number of deer/day is not achieved.

### *Cost Consideration*

It is important that the District understands that the cost per deer associated with a cull in Invermere will be higher than the Helena program. It is understood that wherever possible the meat from culled deer would go to food banks and people in need. In Helena, there is a nearby processing plant that charges \$10 to skin a deer and renders the meat into hamburger at a reduced rate because it is going to food banks. Their costs are paid by the individual food banks.

In Invermere, these costs are substantially higher and there is uncertainty regarding how much meat the food bank may accept. Although they appear to be receptive to using some of this meat, their space is limited for storage of deer meat within the existing food bank.

The Committee discussed this issue at great length and suggested that the District review the potential for a contract price for processing deer and that the community food bank is asked to confirm their acceptance of the meat and amount they are capable of storing.

In contrast to Helena, contract cost in Invermere may be higher to trap and cull deer and the lack of available equipment will also increase the costs. The Committee did not make a specific recommendation, but suggested that the District review all costs associated with this program before entering into a private contractual agreement. Locations need to be designated within the community to clean and hand culled deer. Public lands are available within the Industrial Park, but all locations need to be reviewed, in consultation with the contractor, the District and MOE.

Cost sharing agreements between the District and the province are recommended.

### *Process*

Traps are placed on residential properties who have signed up to have problem deer removed. Helena uses 12 Clover Traps which are baited between 8:00 and 10:00pm. The next morning, if a deer is trapped they move quickly and efficiently to collapse the trap, secure the deer to the ground, bolt gun the deer, erect the trap, place the deer in a sled and drag it to the truck and move on to the next site. The process takes less than five minutes. Once all traps are visited they return to the cleaning and storage site. The deer are cleaned, sexed, marked for site identification and stored in a cooler. Once they have several deer, they move them to a meat processing plant for skinning and butchering. The meat (hamburger) is distributed to food banks. The food bank pays for the meat preparation.

### *Administration*

The city controls this program and the Police Chief has overall responsibility for the program. A retired police officer with a background in farming is the primary contractor for the program. He has a roster of police officers to draw from to assist him. Public safety issues are minimal using this method and have achieved public support over time for the program.

### *Considerations*

This method of culling deer can initially be costly to implement depending on the facilities and equipment requirements. Helena's programs have ranged from 50 to 7 days in duration. During those days the program is labour intensive. It must also be recognized that this is an ongoing program until deer numbers are reduced to a manageable number that other methods of control can be introduced to maintain a manageable population.

The Committee is recommending that a trap and cull program, in conjunction with a relocation program, be initiated in the fall of 2011.

### **Public Education**

#### *What is it?*

Public education is a management tool to inform residents of the issues involving urban deer. It is also a process to offer non-lethal options to land owners to discourage deer or reduce incidents, such as appropriate landscaping and the use of fencing.

#### *Pros:*

- The cost associated with printing and distribution of signs, pamphlets and brochures is minimal.
- Some plants, shrubs, netting and isolating bird feeders costs are considered minimal.
- Begin a concentrated program to inform residents about deer and why the city has a problem.

- The potential solution to maintain the deer population numbers at sustainable levels within urban limits.

*Cons:*

- Eliminating food options to some deer in one area may result in site shifting in another area or residence if these measures are not followed.
- Erecting fences can be costly and may require annual maintenance.
- The complete elimination of damage is unlikely.
- Will not result in the immediate reduction of deer population.

*Discussion:*

Education material would include information on the illegality and adverse consequences of feeding deer and the risk of attracting predators. It provides an opportunity to inform residents regarding the use of repellents, unpalatable plants, use of native plants and human behaviour modifications. Public education/information also provides the District with the opportunity to inform residents what actions are to be taken and the results.

The Committee is recommending that an extensive public education program be created.

*Other Management Options Considered*

The Committee reviewed other options as well, but primarily focussed on three outlined above. Recommendations were developed for all options reviewed and are contained in the next section of this report.

The options considered by the committee include:

- Fertility control programs
- Hazing
- Controlled Public Hunting
- Sharpshooting
- Community Fencing

### **3.0 Recommendations**

The Committee reached these recommendations after much discussion and research. Council and those reading this report must realize solutions to the urban deer problem are not simple nor will they be resolved without cost. Finding professionally trained people to carry out many aspects of the recommendations, reducing liabilities and public and personal expenses are all part of making these recommendations work and be successful. These recommendations were derived from the best known information of the day and what the majority of the residents of Invermere have communicated to the committee.

#### **Recommendation #1 Relocation/Trap and Cull**

Whereas the Province has indicated that a potential location site for deer exists in the Upper Kootenay Valley;

The Deer Committee recommends:

- that the Province be the lead agency and an active participant with the District of Invermere as partners;
- that grant funding and cost sharing be requested from the Province and other levels of government;
- that the Province, in collaboration with the District of Invermere, initiate a trap and cull program beginning in the fall of 2011;
- that the Province, in collaboration with the District of Invermere, initiate a deer relocation program in the Spring of 2012;
- that the deer population within the District boundaries be reduced by 75%, based on the February 2011 by 2016 or sooner.

#### **Recommendation #2 Public Hunting**

That the Deer Committee does not recommend public hunting within the boundaries of the District of Invermere;

And that the Committee recommends increased hunting opportunities on public and private lands surrounding the District of Invermere, including limited entry hunting.

#### **Recommendation #3 Sharpshooting**

Whereas relocation/trapping and culling program may not produce adequate results to meet the target population for urban deer;

That the Deer Committee recommends seeking a qualified sharpshooter to review locations and options to conduct sharpshooting activities;

And that these locations and options are approved by Council and the RCMP.

#### **Recommendation #4 Hazing**

Whereas the Deer Committee considered hazing as an option;

That the Deer Committee not recommend Hazing as an option to manage the urban deer population at this time.

### **Recommendation #5 Fertility Control**

Whereas the Deer Committee reviewed the feasibility of fertility control products;

That the Deer Committee not recommend the use of fertility control.

### **Recommendation #6 Community Fencing**

Whereas the Deer Committee reviewed the viability of constructing a community fence on municipal boundaries as a long term solution to regulating deer numbers;

The Deer Committee recommends that the community fencing option not be considered at this time pending the outcome and success of the relocation/trap and cull program.

### **Recommendation #7 – Community Network**

The Deer Committee recommends the development of a network for communities to monitor ungulate management programs in other communities and sharing of knowledge and equipment.

The Deer Committee recommends that the Provincial Government develops a Province wide Ungulate Aware Program Coordinator to assist communities to managing urban ungulates, similar to the Bear Aware Program.

### **Recommendation #8 – Public Education**

The Deer Committee recommends the following:

- That the District provide information on landscaping, planting, reference to nurseries offering native plants, and /or deer resistant plants and shrubs, repellents, and fencing options through the creation of informational brochures and pamphlets;
- That public information on deer /ungulate problems be combined with other printed information on reducing bear problems, predator avoidance issue and other deterrents to reduce wildlife/human conflicts;
- That seasonal signs be placed at strategic points to inform residents and visitors that feeding deer is prohibited;
- That information be circulated about urban deer/ungulate management techniques and strategies as deemed necessary;
- That stronger messaging and enforcement to stop deer/ungulate feeding practices.

### **Recommendation #9 Deer Advisory Committee**

The Deer Committee recommends that the District develop a Terms of Reference to establish a permanent Deer Advisory Committee to provide advice to Council in the management of the Urban Deer/Ungulate Management Program.

### **Recommendation #10 Deer Counts**

The Deer Committee recommends that classified deer counts be conducted as per the specifications of the Province and the need of the Deer Advisory Committee.

**Appendix B – Wildlife Act Permit CB14-140587**

**Appendix C – Deer Management Annual Report**

***Urban Deer***  
***2015 Annual Report***



Submitted by: Chris Prosser, CAO

Date: October 29, 2015



## Introduction

Starting in 2014-15, the District of Invermere initiated an operational program to manage aggressive deer in targeted neighborhoods. Council directed staff to create an operational management program under an approved three (3) year permit granted from the Ministry of Forests, Lands and Natural Resources.

The program was internalized and operated with District employees who volunteered to conduct the program and attended all training. The Program was initiated in early December 2014 and ran until the middle of February 2015. All meat was delivered to a local meat cutter for processing under the requirements from the Interior Health Authority. All meat was provided to the local food bank for use in their operations within the valley community. Based on the information provided, the deer that were harvested supplied the local food bank for almost nine (9) months.

## Invermere deer cull summary 2015

Species	Total	Adult Females	Adult Males	Juvenile Females	Juvenile Males
Mule deer	26	14	6	3	3

- No white-tailed deer captured

It is estimated that 1320 lbs of meat were processed and donated to local food banks. Meat processing was paid was shared with the District and the food bank. The District paid for the cost to gut and skin the deer for processing purposes. The cost for gutting and skinning the animals totaled \$3120. All costs associated with processing the meat were covered by the Food Bank and was not disclosed to the District

The District received no interest from the local First Nations for the deer meat.

Traps were located in zones which have aggressive deer / human safety related issues.

Instead of using contractors we were able to use District staff to work on project.

Urban deer were counted on November 29, 2014 in town. The town is separated into 7 survey units and all units are counted at the same time so as to reduce double counting. A total of 160 mule deer and 5 white-tailed deer were counted. This was the highest count since November 2012 where 205 mule deer and 15 white-tailed deer were counted. We will be conducting urban deer counts annually.

## Results and Observations

The targeted approach adopted by the District appears to have succeeded in removing the most aggressive deer within those neighborhoods. Residents in those areas have disclosed that there has been a noticeable impact and a significant reduction in aggressive behavior with the remaining deer and no reported aggressive complaints received to date.

Reproductive data:

Of the 14 adult females culled, 13 were pregnant with a total of 24 fetuses. Therefore 92.9% of females were pregnant with an average of 1.7 fetus/adult female. 9/14 adult females (64%) were pregnant with multiple fetuses.

## Conclusion

The program is planned to continue beginning in December 2015 and length of the permit. The program will be operated in the same manner as 2014-15 and the District will continue to utilize our own resources to manage the deer population. This program will run in conjunction with any translocation or other permitted deer management tool.

## Appendix “A” – 2014 Deer Count Data

### Invermere Deer Count Review

1. **Date:** Saturday, November 29, 2014
2. **Time:** The count began at 9:00 A.M. and all areas were completed by 11:00 A.M.
3. **Weather:** The temperature was between  $-12^{\circ}\text{C}$  and  $-15^{\circ}\text{C}$  with cloudy skies and very light snow falling and there was about 6 inches of fresh snow on the ground which fell the previous afternoon and night. The weather on Friday, November 28, 2014 was unusual as it was nice at about  $+6^{\circ}\text{C}$  in the morning and then turned to heavy rainfall followed by about 6 inches of new snow by morning. It is believed this caused the deer not to be moving very much on Saturday morning when the count began. However, it was beneficial in locating deer tracks.
4. **Method:** The District of Invermere was divided into 7 areas (see Deer Count Areas, Leaders and Observers) and one group of volunteers drove every road and alley counting as many deer as they could locate in that area. Some locations were walked and that has been identified on the area maps used. Caution was taken not to count the same deer twice when they were located near an area boundary. This method was completed as similar as possible to the previous counts, attempting to obtain as much consistency as possible.

5. **Count:**

• Area # 1	11	White-tailed Deer	Does	Fawns	
• Area # 2	17		3	2	
• Area # 3	53	Mule Deer	Does	Fawns	Bucks
• Area #4	25		108*	32*	20
• Area #5	20	* this number is not accurate as two groups did not record fawns (all antlerless as does)			
• Area #6	30				
• <u>Area #7</u>	<u>9</u>				
• <b>Total</b>	<b>165</b>				

Comparison to previous counts:

- Feb 19/11 - 199
- Feb 4/12 - 175
- Nov 10/12 - 185
- Nov 17/12 - 220
- Nov 24/14 - 148
- **Overall Average - 182**

6. **Deer Condition:** During this count the deer appeared to be in fairly good condition and there were no dead or injured deer observed.

7. **Volunteers:** There were a total of 19 volunteers used to complete the count.
8. **Overall Summary:** The count went very well and most of the volunteers have helped on previous counts, therefore, it is believed the survey is relatively consistent. As mentioned above, it is believed the weather may have caused several deer to be missed with a rough unsupported guess at 25 % not counted.

## **Rosche, Kimberly FLNR:EX**

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**From:** Curtis Helgesen <chelgesen@elkford.ca>  
**Sent:** Tuesday, November 22, 2016 10:30 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** 2016-11-22 Grant Application

Hi Jeff,

The District of Elkford will be making a grant application for the Urban Deer Cost Share Program. I had my grant applications mixed up – thought it was due on the 23<sup>rd</sup>, but that is an infrastructure one that we have in the works. I see that this application is due today, but some extensions may be considered.

I plan to try and get most of the documentation to you today, but let me know on how flexible you are – can some information arrive later in the week?

I talked with Irene, and we discussed some of the ins and outs, but no concerns on acquiring the permit.

In a nutshell, we are going to make application for funding to cull 50 deer and will be looking for funding of \$10,000 (\$200 each). Based on our last cull, we were in the neighbourhood of approx. \$650/deer (\$26,000/39 deer).

Let me know your thoughts on the above.

Thanks,

**Curtis Helgesen**  
**Chief Administrative Officer**  
**Director, Financial Services**  
District of Elkford  
PO Box 340  
Elkford, BC V0B 1H0  
Direct: 250.865.4004  
Phone: 250.865.4000  
Fax: 250.865.4001  
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November 22, 2016

Mr. Jeff Morgan  
Program Officer for the Urban Deer Cost-Share Program  
Fish and Wildlife Branch

**Re: Provincial Urban Deer Operational Cost-Share Program Application**

The following application is a request for funding support for assistance in addressing urban deer management through operational/research activities in the City of Grand Forks.

The City has a history of urban deer problems and management activities that meet the criteria for funding under this program. A 2010 deer survey determined that 74% of respondents were in favour of management actions to reduce the herd. Council included a question on the 2014 municipal election ballot asking citizens if they were in support of a deer cull as a deer management option. The response was that 60% (895 out of 1484) of citizens that voted were in support of this initiative.

Council resolved to move forward with herd reduction as per the wishes of the majority vote of the electorate at the December 14, 2015 Regular Meeting of Council (resolution included in application).

Attached is an application for funding assistance for the operational activity of a white-tailed deer cull. The City is in the process of finalizing the details of the work plan which will be complete by the end of December.

If you have any questions or comments, please don't hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Sheets", with a stylized flourish at the end.

Dolores Sheets  
Manager of Development & Engineering  
T. 250.442.8266  
C. s.22  
E. dsheets@grandforks.ca



# **City of Grand Forks Provincial Urban Deer Operational Cost-Share Program Application 2016-2017**







# **Provincial Urban Deer Operational Cost-Share Program**

## **Project Plan and Supporting Documentation**

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### **1. Background and Description of Current Issues**

It was recognized as early as 2007 that the City of Grand Forks (the “City”) white-tailed deer population was increasing to levels resulting in conflicts and complaints from citizens. In 2010, the City produced and distributed an opinion survey about deer, and collected/summarized the results (Appendix A). A majority of those who responded (74%) answered that they would like to see management actions to reduce the herd. A subsequent ballot question during the 2014 municipal election (Appendix A) found that 60% of respondents were in favour of a deer cull as a deer management option.

To date the City and stakeholders have:

- 1) Established a Deer Committee comprised of local and provincial representatives, with a mandate to reduce the deer herd to 2007 population levels (~80 spring count and ~130 fall count) while implementing conflict reduction actions throughout the community;
- 2) Conducted spring and fall deer counts in predetermined zones within the City boundary starting in 2007 and continuing to the present;
- 3) Created and distributed a deer opinion survey and collected/summarized the results;
- 4) Collected and summarized deer mortality data on or near highways in and around the City and concluded that, on average, City crews remove between 30 and 40 dead deer from roads within the municipal boundary each year;
- 5) Collected and reviewed regional population data for deer;
- 6) Created “Urban Deer in Grand Forks” pamphlet that includes information on local issues, deer facts, recommendations for living with deer, and links to references;
- 7) Collected and reviewed literature regarding urban deer from other communities experiencing similar issues;
- 8) Developed a draft Deer Management Plan, with timelines, detailing conflict reduction, population reduction and administrative strategies to deal with the deer issue;
- 9) Gathered and organized all Deer Committee documents and completed summary report and recommendations;



- 10) Hired a WildSafeBC Coordinator every year since 2013 to promote education and ultimately reduce human-wildlife conflicts,
- 11) Updated the Deer Feeding Bylaw to allow the Bylaw Enforcement Officer to issue fines for any person who contravenes or violates any provision of the bylaw.

After consideration of the work of the committee and the results of the 2014 ballot question, it was decided by Council to dissolve the Deer Committee and move forward with herd reduction as per the wishes of the majority vote of the electorate. This resolution was decided at the December 14, 2015 Regular Meeting of Council (Appendix B).

## 2. Goals and Objectives

The primary objective of this project is to reduce urban white-tailed deer (*Odocoileus virginianus*) population levels to improve human safety and decrease the number of deer conflicts and complaints. The removal of white-tailed deer is the objective of this project, as the majority of deer complaints in the City involve them.

## 3. Project Area

The City encompasses approximately 10.4 km<sup>2</sup> of mixed high density residential, moderate density residential and low density rural residential as well as commercial, industrial and parkland. The City is currently developing the detailed work plan for this project, but consideration for trapping locations will be undertaken by the contractor with assistance from City staff and local stakeholders where necessary.

## 4. Description of Project

The proposal is to harvest up to 80 white-tailed deer per calendar year to a total of 160 white-tailed deer during the open or closed season as the Regional Manager (Ministry of Forests, Lands and Natural Resource Operations (MFLNRO), Recreational Fisheries & Wildlife Programs, Thompson/Okanagan Regions) considers it necessary for the proper management of the wildlife resource, within the City of Grand Forks municipal boundary. The right of property for the harvested animals has been transferred from the government to the permit holder and the game meat is intended to go to persons in need of sustenance.

## 5. Methods

The methods/techniques used for this project will be in compliance with approved methodology as per Appendix C of the Permit PE15-194978 capture and game meat processing guidelines.



## 6. Risk Management

The City of Grand Forks will comply with all terms of Permit PE15-194978 regarding animal welfare, human safety, environment and any other measures deemed necessary for risk management.

## 7. Schedule

As the development of the project plan is in progress, the detailed schedule is yet to be determined. However, a tentative general timeline assuming grant funding is awarded will be:

- 1) November 22, 2016: Apply for grant funding
- 2) November 24, 2016: Request for Expressions of Interest solicited from contractors to ensure contractor's capabilities as per MFLNRO
- 3) December 2, 2016: Grant awarded
- 4) December 5, 2016: Request for Quotations (RFQ) solicited from contractors
- 5) December 9, 2016: RFQ submission date
- 6) December 12, 2016: Contractor selected
- 7) Dec-Jan, 2016-17: Administration phase of contract
- 8) Jan-Mar, 2017: Operational phase of contract
- 9) April, 2017: Project Completion Reporting.
- 10) January 2018: Annual Summary Report – Population Monitoring
- 11) January 2019: Annual Summary Report – Population Monitoring

## 8. Monitoring and Reporting

The City will comply with reporting requirements as specified in Appendix A of Permit PE15-194978 and Appendix 1 of the Program Application Guide; as well as continue to support the efforts of the stakeholder group for spring and fall deer population counts in the City.

## 9. Financial

As the project plan is in progress, the detailed budget is yet to be determined. The City, however, budgeted \$30,000 for Wildlife Management in 2016. A portion of this amount, \$8,000, was committed for the hiring of a WildSafeBC coordinator. The remaining amount, \$22,000, is slated for deer herd reduction activities for 2016-17.

The City is requesting funding in the amount of \$16,000 in order to facilitate reduction of the herd to the maximum number allowed in the permit for the calendar year, 80 animals. Ministry biologists have recommended this target number in order to accomplish meaningful, longer-term herd-reduction goals. The 2016 fall count found 199 deer in the



five zones within the city. Removal of 80 deer would bring the fall count numbers down to approximately 120, which would be in line with the Deer Committee's target of reducing the herd to 2007 population levels.

Through consultation with Ministry biologists as well as other city administrators and contractors, it was determined that overall costs for contract services for the operational phase of the project will be approximately \$400 per deer. With this in mind, the forecasted budget for the project is:

		City	Prov
Contractor Services (80 @ \$400/deer):	\$32,000	\$16,000	\$16,000
Contingency (@10%):	\$3,200	\$3,200	
Project Completion Reporting & misc:	\$2,800	\$2,800	
<b>Total:</b>	<b>\$38,000</b>	<b>\$22,000</b>	<b>\$16,000</b>

## 10. Community-based Planning

The City has been involved with deer management issues since at least 2009 with the establishment of the Deer Committee. In 2010 the City completed a public survey on deer (Appendix A) and in 2014, included a ballot question during the municipal election (Appendix A) regarding opinion on a deer cull. In both instances, the majority of voters were in favour of herd reduction. The City has updated its deer feeding bylaw with fines and has worked diligently to educate the public about feeding. In 2013, and every year since, the City has hired a WildSafeBC Coordinator for public education and awareness. The position requires frequent interaction and communication with the public regarding wildlife issues in the City.

Other issues considered on the topic of deer management include damage to sensitive ecosystems and habitats in the City as well as safety. There has been noticeable impact to understory vegetation in forested riparian ecosystems and concern regarding future bank stability in these areas, for lack of next generation plant survival success rates. This has been especially noted with cottonwood trees. There are also safety concerns around motor vehicle accidents caused by deer and also the potential for interactions with aggressive deer and their natural predators.

## 11. Compliance & Permits

The City has been granted a permit by the MFLNRO (Appendix C) and will ensure compliance with all conditions within and also confirms there are no interfering bylaws or policies concerning this project.



## **12. APPENDICES**

### **A. Documentation Supporting Community-Based Planning Process**

- (i) 2010 Deer Survey Results
- (ii) 2014 Election Ballot
- (iii) 2014 Election Ballot Results

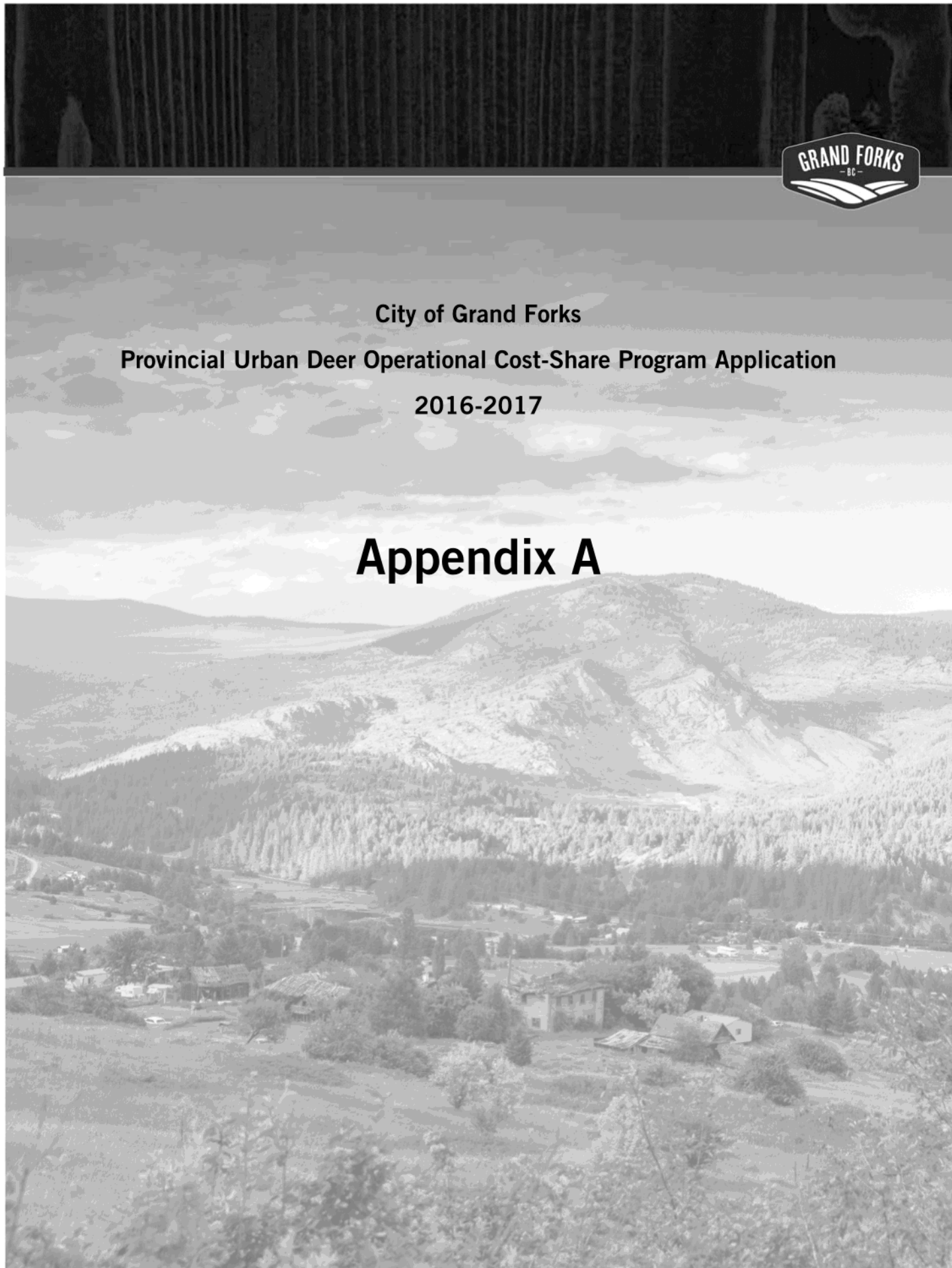
### **B. Council Resolutions**

### **C. Permit PE15-194978**



**City of Grand Forks**  
**Provincial Urban Deer Operational Cost-Share Program Application**  
**2016-2017**

# **Appendix A**



# GRAND FORKS DEER SURVEY

		Averages
1	<b>Zip Code:</b>	
a	VOH 1H0	79.21%
b	VOH 1H1	1.84%
c	VOH 1H2	16.58%
d	VOH 1H3	0.26%
e	VOH 1H4	2.11%
2	<b>Gender:</b>	
a	Male	46.79%
b	Female	53.21%
3	<b>Age:</b>	
a	18-20	0.26%
b	21-40	8.68%
c	41-60	35.53%
d	61+	55.53%
4	<b>Lived in GF:</b>	
a	1-2 years	11.02%
b	3-5 years	12.60%
c	6-10 years	10.24%
d	11-20 years	18.64%
e	21+ years	47.51%
5	<b>Concerns regarding herd</b>	
a	Deer/vehicle collisions	68.67%
b	Deer damage to gardens/flowers	66.06%
c	Human health risks	45.95%
d	Overall health/well being of herd	42.56%
e	Overpopulation of the herd	58.22%
f	Deer aggression towards humans	52.74%
g	Deer aggression towards pets	45.17%
h	No concerns	18.80%
i	Don't know	1.04%
6	<b>How much property damage by deer</b>	
a	\$0-\$150	40.82%
b	\$150-\$300	16.33%
c	\$300-\$500	19.53%
d	\$600-\$1000	15.45%
e	Other - Over \$1000	\$ 866.67
f	Other	7.87%
7	<b>Money in vehicle damage</b>	
a	Total Dollars	\$ 302,902.00
b	Average	\$ 15,145.10
8	<b>Methods used to protect property</b>	
a	fencing	76.76%
b	repellants	26.37%
c	noise	11.75%
d	other	24.02%

9	<b>Money spent to deer proof yard</b>			
a	\$0-\$200			31.41%
b	\$200-\$500			17.87%
c	\$500-\$1000			16.14%
d	\$1000-\$2000			22.19%
e	Over \$2000 average		\$	5,622.50
f	Other			12.39%
10	<b>Do you/family feed deer?</b>			
a	Yes			9.38%
b	No			90.62%
11	<b>Do you support anti feeding bylaw?</b>			
a	Yes			78.86%
b	No			21.14%
12	<b>Government Responsible</b>			
a	Municipal			15.06%
b	Provincial			13.92%
c	Both			71.02%
13	<b>Municipal tax dollars willing to spend?</b>			
a	\$0-\$1000			41.47%
b	\$1000-\$5000			16.05%
c	\$5000-\$10000			18.73%
d	\$10000+			23.75%
14	<b>Future of deer in Grand Forks</b>			
a	slight increase			0.28%
b	moderate increase			2.20%
c	substantial increase			1.65%
d	stay the same			15.70%
e	slight decrease			5.79%
f	moderate decrease			13.77%
g	substantial decrease			53.72%
h	don't know			6.89%
15	<b>Conflict Reduction Action:</b>			
a	deer resistant plantings			28%
b	repellants			16%
c	fencing			20%
d	public education			36%
16	<b>Like to see mgmt actions to reduce herd?</b>			
a	Yes			74%
b	No			26%
17	<b>How important is each consideration:</b>			
		<b>Very Important</b>	<b>Moderately</b>	<b>Not Important</b>
a	Is practical and achievable	85.00%	10.00%	5.00%
b	Offers a quick solution	39.12%	36.39%	24.49%
c	Offers a long term solution	82.03%	8.50%	9.48%
d	Minimizes costs to taxpayers	49.17%	38.54%	12.29%
e	Make harvested meat available	24.20%	26.69%	49.11%
f	Minimize animal suffering	73.00%	16.00%	11.00%
g	Minimize safety risks to humans	71.81%	19.46%	8.72%
h	Maintain a healthy deer population	47.49%	27.76%	24.75%



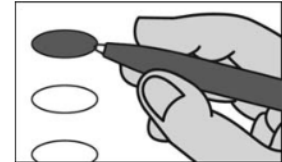


www.GrandForks.ca

# City of Grand Forks General Local Election November 15, 2014

## IMPORTANT:

To vote, use the pen provided to completely fill in the oval beside the candidate(s) of your choice.



### OFFICE OF MAYOR

Vote for ONE (1) candidate.

### OFFICE OF COUNCILLOR

Vote for no more than SIX (6)  
candidate(s).

### Opinion Poll Question

Are you in support of a deer cull  
as a deer management option in  
Grand Forks?

Yes ☐ No ☐

Peter DEMSKI ☐

Julia BUTLER ☐

Frank KONRAD ☐

Lorraine DICK ☐

Donna SEMENOFF ☐

Zak EBURNE-STOODLEY ☐

Brian TAYLOR ☐

Richard FAUSTEN ☐

Cher WYERS ☐

Chris HAMMETT ☐

Cathy KOROLEK ☐

Neil KROG ☐

Baun F. MARK ☐

Patrick J. O'DOHERTY ☐

Larry PODMOROFF ☐

Colleen ROSS ☐

Gary SMITH ☐

Teresa TAYLOR ☐

Christine THOMPSON ☐

Monique VAN EWYK ☐

Michael WIRISCHAGIN ☐

## THE CORPORATION OF THE CITY OF GRAND FORKS

**BALLOT ACCOUNT FOR 2014 LOCAL GOVERNMENT ELECTION****THIS TALLY REPRESENTS A SNAPSHOT FOR  
ADVANCE, MOBILE AND GENERAL VOTING DAY**

## OPINION POLL QUESTION

Yes	895
No	589

## MAYOR

Demski, Peter	31
Konrad, Frank	503 DECLARED
Semenoff, Donna	144
Taylor, Brian	450
Wyers, Cher	434

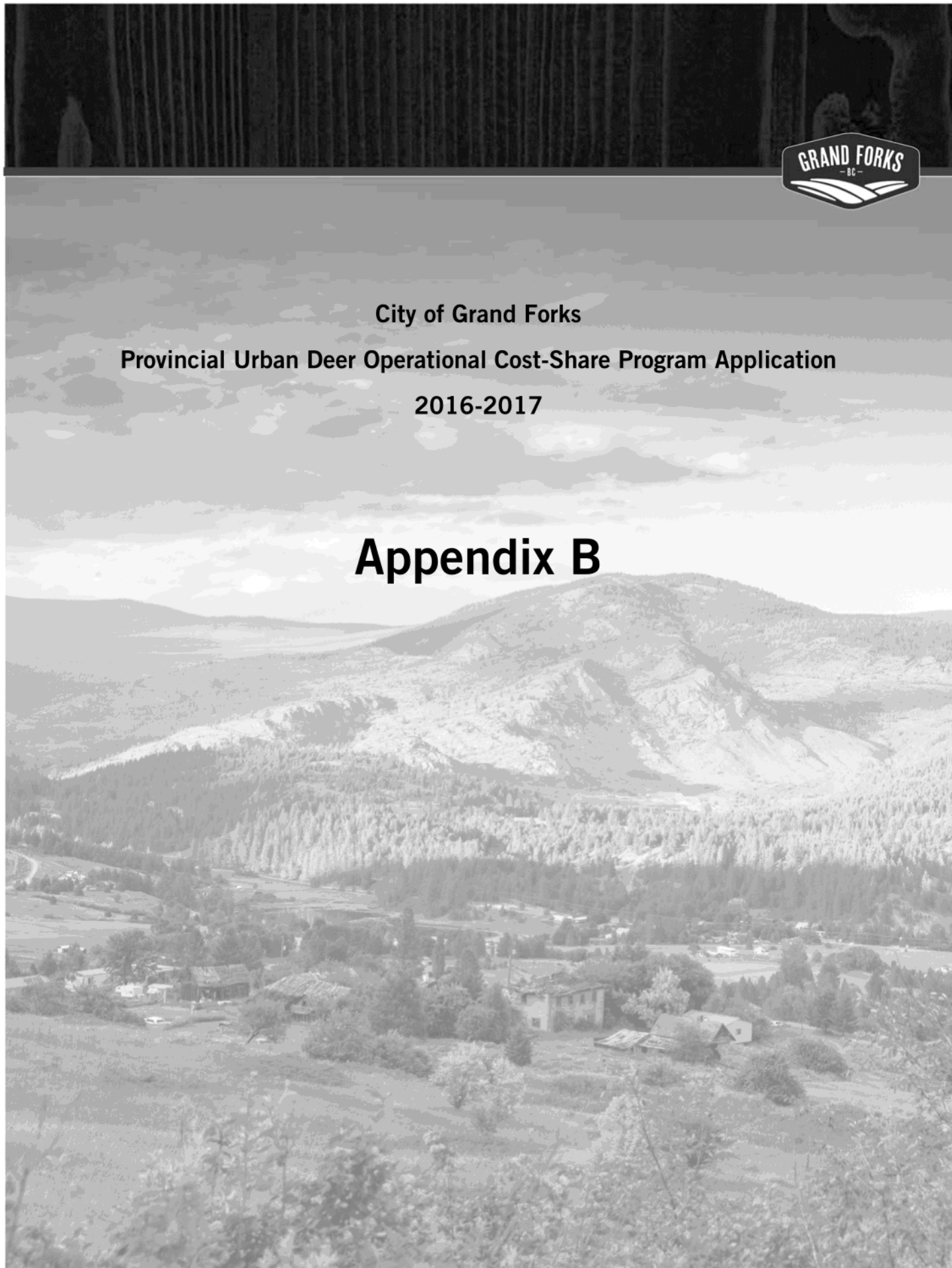
## COUNCILLOR

Butler, Julia	702 DECLARED
Dick, Lorraine	388
Eburne-Stoodley, Zak	521
Fausten, Richard	422
Hammett, Chris	546 DECLARED
Korolek, Cathy	524
Krog, Neil	592 DECLARED
Mark, Baun F	440
O'Doherty, Patrick J.	419
Podmoroff, Larry	371
Ross, Colleen	539 DECLARED
Smith, Gary	340
Taylor, Teresa	387
Thompson, Christine	676 DECLARED
Van Ewyk, Monique	215
Wirischagin, Michael	741 DECLARED



**City of Grand Forks**  
**Provincial Urban Deer Operational Cost-Share Program Application**  
**2016-2017**

# **Appendix B**





## **APPENDIX B**

### **City of Grand Forks** **Resolutions of Council, December 14, 2015**

#### a) Mayor's Verbal Report - Discussion regarding a Deer Management Committee

The Mayor advised that the current deer committee has completed its mandate; and that he would like to create a standing committee that further addresses the Deer Management Plan.

Council ensued in a discussion on how the plan would move forward. The Chief Administrative Officer suggested that Council could consider that Staff puts forward a report that gathers the information on ways to proceed, and present back to Council. Council discussed that the Deer Committee had already performed that task and there should be no need to repeat the process.

#### **MOTION: THOMPSON / ROSS**

**RESOLVED THAT Council dissolves the current Deer Committee and further that the City operationalizes, the referendum question as per the wishes of the majority vote of the electorate at the 2014 Local Government Election.**

CARRIED UNANIMOUSLY.

#### **MOTION: THOMPSON / BUTLER**

**RESOLVED THAT Council releases the information regarding the Deer Management Program moving forward, from In-Camera.**

CARRIED.



**City of Grand Forks**  
**Provincial Urban Deer Operational Cost-Share Program Application**  
**2016-2017**

# **Appendix C**



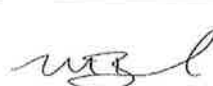
**WILDLIFE ACT  
PERMIT PE15-194978**

<b>PERMIT HOLDER</b>	Corporation of the City of Grand Forks 7217 4 <sup>th</sup> Street Grand Forks BC V0H 1H0  ATTENTION: s.22 PHONE: EMAIL s.22
	Dolores Sheets 250-442-8266 dsheets@grandforks.ca

**IS AUTHORIZED UNDER** s. 2(c)(iii), 2(p) and 2(w) of the *Permit Regulation*, B.C. Reg. 253/2000,

<b>TO</b>	Hunt, trap or kill up to 80 White-tailed deer per calendar year to a total of 160 <b>White-tailed Deer</b> ( <i>Odocoileus virginianus</i> ) during the open or closed season as the regional manager considers it necessary for the proper management of the wildlife resource.  The right of property in up to 160 dead <b>White-tailed Deer</b> ( <i>Odocoileus virginianus</i> ) is transferred from the government to the permit holder.  Possess and distribute <b>White-tailed Deer</b> ( <i>Odocoileus virginianus</i> ) game meat to persons in need of sustenance.
-----------	--

**SUBJECT TO THE FOLLOWING:**

<b>TERMS OF PERMIT</b>	This permit is only valid within the municipal boundaries of the City of Grand Forks, British Columbia.  The permit holder must comply with the terms in Appendix A.	
<b>COMPLIANCE ADVISORY</b>	Failure to comply with any term of this permit is an offence under the <i>Wildlife Act</i> , and may result in any or all of prosecution, suspension of the permit, cancellation of the permit, ineligibility for future permits, and denial of future permit requests.	
<b>PERIOD OF PERMIT</b>	This permit is only valid during the winters from 2015/2016 until 2019/2020 from inclusive dates of November 9 to <b>March 31</b> .	
<b>DATE OF ISSUE</b>	November 9, 2015	
 <b>SIGNATURE OF ISSUER</b>	Michael Burwash Deputy Regional Manager Recreational Fisheries & Wildlife Programs Thompson/Okanagan Regions	<b>PERMIT FEE</b> \$100.00  <b>HCTF SURCHARGE</b> \$10.00

## APPENDIX A TERMS OF PERMIT

### PERMIT PE15-194978

#### REPORTING REQUIREMENTS:

1. The permit holder must maintain an accurate up to date record of the wildlife hunted, trapped or killed under the permit, which includes the following information:
  - a) the common name of the wildlife;
  - b) the location\* where the wildlife was taken;
  - c) the date the wildlife was hunted, trapped or killed;
  - d) the sex and age class of the wildlife taken;
  - e) fate of wildlife (destroyed or released)
  - f) the ID number of the deer (number which serves as a unique identifier);
  - g) the use of the carcass (First Nations, Food Bank, other or landfill)

\*approximate address, nearest street intersection

**NOTE:** A blank reporting form (Appendix D) is attached to the end of this permit for your convenience.

3. The permit holder must submit the original record referred to in paragraph 1 and 2 to FrontCounter BC, Ministry of Forests, Lands and Natural Resource Operations **within 21 days** after the expiry of the permit.
4. The permit holder must produce a copy of the record referred to in paragraph 1 on the demand of an officer.
5. The permit holder must keep an accurate up to date record of contact information of each First Nations person or agency and/or Food Bank accepting game meat and the approximate amount (lbs or kg) of game meat distributed to each individual and/or agency and produce this record on demand of an officer.
6. The permit holder must prepare and submit an annual summary report outlining results of urban deer population monitoring for 2 years after the expiration of the permit.

#### GENERAL CONDITIONS:

1. The permit holder must comply with all laws applicable to the activities carried out under this permit.
2. This permit extends to the permit holder's employees, volunteers or contractors **ONLY** when they are engaged in the direct performance of their duties on behalf of the permit holder.
3. The permit holder must ensure that each person authorized by this permit carries a copy of this permit on their person when conducting the activities under this permit.
4. The permit holder must ensure that each person undertaking activities authorized by this permit follows the approved methodology attached in Appendix C.
5. The permit holder must ensure that each contractor under this permit holds a valid British Columbia hunting licence.
6. The permit holder must not authorize to act under this permit any person who has been convicted of an offence under the Wildlife Act in the previous 5 years, unless the permit holder first obtains prior written approval from the regional manager.

7. The permit holder must ensure that each person harvesting white-tailed deer under the authority of this permit ensures that game meat deemed unsuitable for human consumption by the permit holder is disposed of in a landfill specified for this purpose and also must ensure that it is disposed of in a manner that does not endanger humans or the environment.
8. The permit holder must ensure that each person authorized to undertake activities under this permit takes all reasonably necessary steps to ensure that public safety is not jeopardized and fish or wildlife habitat is not damaged by any action taken under authority of this permit.
9. The permit holder must ensure that each person authorized to undertake activities under this permit ensures that the wildlife are treated as humanely as possible during all phases of the project.





## **APPENDIX B ADVISORY**

### **PERMIT PE15-194978**

#### **GENERAL**

- It is the permit holder's responsibility to be aware of all applicable laws and the limits of this permit. For example, this permit does not give the permit holder authority to access or travel through any private land without permission from the landowner
- The Province is not liable for any illness contracted through wildlife handling. It is the responsibility of the permit holder to inform themselves of possible health hazards, and to ensure that all reasonably necessary safety measures are undertaken.
- If applicable, the permit holder is responsible for renewing his or her own permit. The issuer is not obliged to send a reminder notice.

#### **LEGISLATION**

Here are some, but not all, relevant excerpts from the **Wildlife Act**:

##### **Property in wildlife**

- 2 (1) Ownership in all wildlife in British Columbia is vested in the government.
- (2) A person does not acquire a right of property in any wildlife except in accordance with a permit or licence issued under this Act or the *Game Farm Act* or as provided in subsection (3) of this section.
- (3) A person who lawfully kills wildlife and complies with all applicable provisions of this Act and the regulations acquires the right of property in that wildlife.
- (4) If a person by accident or for the protection of life or property kills wildlife, that wildlife, despite subsection (3), remains the property of the government.
- (5) Despite anything in this Act, no right of action lies, and no right of compensation exists, against the government for death, personal injury or property damage caused by
- a) wildlife, or
  - b) an animal that escapes or is released from captivity or is abandoned
- in British Columbia.

##### **Hunting and licences**

- 11 (1) A person who hunts wildlife commits an offence unless the person holds all of the following:
- a) a hunting licence issued to the person under this Act;
  - b) any limited entry hunting authorization that is required by regulation;
  - c) any other licence that is required by regulation;
  - d) any other permit that is required by regulation
- 11 (8) A person commits an offence if the person traps fur bearing animals unless he or she holds a trapping licence.

##### **Import and export of wildlife**

Last Updated: 10-13-11

Page 4 of 16

**21** (1) Except as authorized by a permit issued under this Act or under the Convention on International Trade in Endangered Species of Wild Fauna and Flora, a person commits an offence if the person

- a) imports into British Columbia live wildlife, or the egg of a wildlife species, or
- b) exports out of British Columbia wildlife or parts of them, or the egg of a wildlife species.

#### **Trafficking in wildlife**

**22** A person who traffics live wildlife or wildlife meat, except as authorized by regulation or a permit, commits an offence.

#### **Possession of wildlife**

**33** (2) A person commits an offence if the person has dead wildlife or a part of any wildlife in his or her possession except as authorized under a licence or permit or as provided by regulation.

#### **Documents not transferable**

**81** Except as authorized by regulation or as otherwise provided under this Act, a licence, permit or limited entry hunting authorization is not transferable, and a person commits an offence if the person

- a) allows his or her licence, permit or limited entry hunting authorization to be used by another person, or
- b) uses another person's licence, permit or limited entry hunting authorization.

#### **Failure to pay fine**

**85** (1) This section applies if a person

- (a) fails to pay, within the time required by law, a fine imposed as a result of the person's conviction for an offence under this Act or the Firearm Act, and
- (b) has been served with notice of this section.

(2) In the circumstances referred to in subsection (1),

- (a) the person's right to apply for or obtain a licence, permit or limited entry hunting authorization under this Act is suspended immediately and automatically on the failure to pay the fine,
- (b) all licences, permits and limited entry hunting authorizations issued to that person under this Act are cancelled immediately and automatically on the failure to pay the fine,
  - (b.1) the person must not apply for employment as an assistant guide,
  - (b.2) the person must not guide as an assistant guide, and
- (c) the person commits an offence if, before that fine is paid, the person
  - (i) applies for, or in any way obtains, a licence, permit or limited entry hunting authorization under this Act,
  - (ii) does anything for which a licence, permit or limited entry hunting authorization under this Act is required,
  - (iii) applies for employment as an assistant guide, or
  - (iv) guides as an assistant guide.

#### **Production of licence or permit**

**97** If a person who is required to hold a licence, permit or limited entry hunting authorization issued under this Act

- a) fails to produce it for inspection to an officer on request, or
- b) fails or refuses to state his or her name and address to an officer on request,

the person commits an offence.

## **REGULATIONS**

This excerpt from the **Permit Regulation**, made under the Wildlife Act, is relevant:

**8** A person who holds a permit under the Act or the Permit Regulation commits an offence if he or she fails to comply with a term of the permit.

### **Application of section 33 (2) of the Act**

- 15** (1) For the purposes of section 33 (2) of the Act, it is not an offence for a person to possess  
(g) dead wildlife or wildlife parts under a permit issued under section 2 (p) or (x) if the person has the permit in his or her possession.

This excerpt from the **Wildlife Act Commercial Activities Regulation**, made under the Wildlife Act, is relevant:

### **Trafficking prohibited**

**2.09** (1) A person commits an offence by trafficking in dead wildlife or a part of wildlife

- (4) Subsection (1) does not apply to  
(d) dead wildlife or a part of wildlife respecting which a permit has been issued under section 2 (p), (x) or (y) of the Permit Regulation, B.C. Reg. 253/2000, if the person who has the right of property or possession in the wildlife or part retains the permit as evidence of that right.

BRITISH  
COLUMBIA

## APPENDIX C APPROVED METHODOLOGY

### PERMIT PE15-194978

The primary objective of the urban deer cull under this permit is to reduce urban white-tailed deer population levels to improve human safety and decrease the number of aggressive deer conflicts and complaints. The removal of white-tailed deer is the objective of this project, as the majority of deer complaints in this community involve them. Modified Clover traps must be located in urban areas dominated by white-tailed deer, especially where complaints and conflicts of deer have occurred.

#### **CAPTURE GUIDELINES**

- Wildlife will be captured using modified, baited Clover traps and killed humanely by trained and experienced individuals with a captive bolt guns. Modified Clover traps and bolt guns are provided by the Ministry of Forests, Lands and Natural Resource Operations.
- Authorized contractors will be required to complete a 1-2 day training course on correct captive bolt gun and modified Clover trap use, along with training and guidance on inspecting, handling and preparing game carcasses for human consumption. Instruction will be provided by the Ministry of Forests, Lands and Natural Resource Operations Regional staff, the Wildlife Veterinarian and staff of Interior Health (refer to Appendix E and F) when possible.
- Ministry of Forest Lands Natural Resource Operations has final approval of contractor's capabilities.
- Contractors must follow the *Standards for the Donation of Game Meat* attached in Appendix E and *Wildlife Fact Sheet: Meat Spoilage and Proper Field Dressing of Wild Game* in Appendix F and *Guidelines for the Safe Transportation of Carcasses, Poultry and Meat Products*.  
<http://www.bccdc.ca/NR/rdonlyres/61C0B237-8884-4D64-A4A0-139B8CE46471/0/GuidelinesfortheSafeTransportationofCarcassesPoultryMeatProducts.pdf>
- The City of Grand Forks is to provide planned trap locations to the Kootenay-Boundary Conservation Officer Service (COS) prior to the planned trapping taking place so that COS and possibly the RCMP can provide necessary support, if required;
- Regular communication, at least 2x per week, between municipal and provincial representatives and contractors must be maintained during trapping process to ensure ongoing dialogue on the achievement of the primary objective.
- Potential trap sites should be established by placing only bait (cut apples/Corn/Oats/barley/alfalfa) in the weeks prior to anticipate trapping. During this bait conditioning period contractors should visit bait sites at least every 72 hours and only establish clover traps once white-tailed deer have habituated to the site.

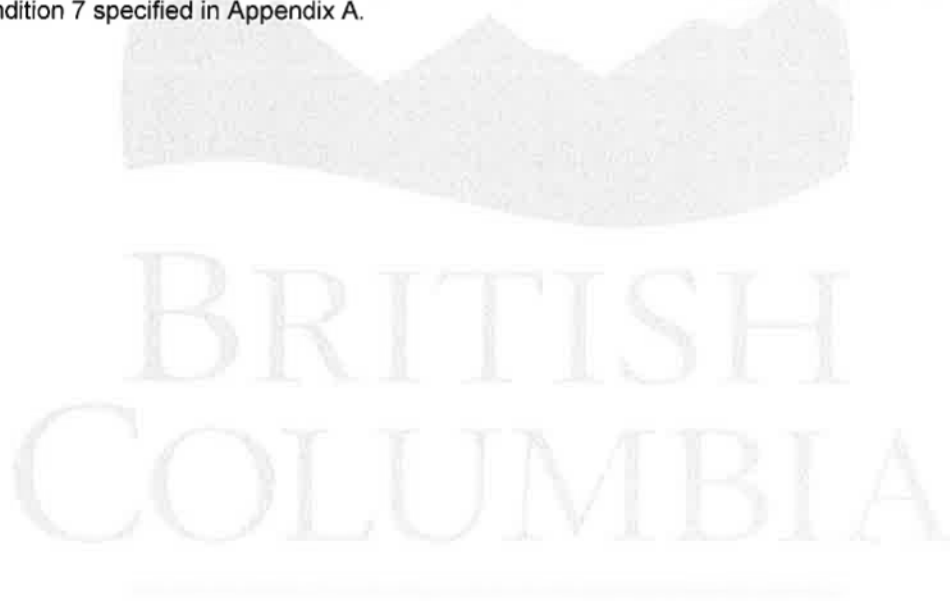
#### **Method of capture:**

- Trap sites will be established on private or municipal property with permission from landowner.
- To reduce stress of deer, capture of deer will take place when dark prior to daylight; traps will be locked either open or closed during daylight hours;
- At least two (2) contractors or a contractor and wildlife officer under the Wildlife Act will quickly collapse each Clover trap with the deer inside, restrain the animal and dispatch the animal immediately and humanely with a captive bolt gun;
- They will then promptly re-establish the trap from its collapsed state, open the gate and move the deer into a plastic sled for transfer to a waiting vehicle; the deer must not be visible while in the vehicle;
- Killed deer must be bled as soon as possible (within 15 minutes) of using the bolt gun;
- Bleeding method will be instructed by Ministry staff prior to trapping process (refer to Appendix E and F);
- Deer must be bled into a container to maintain a clean site and the animal will be transported in a vehicle for dressing, chilling and processing as soon as possible;

- Contractors will then move onto the next trap location;

### **GAME MEAT PROCESSING GUIDELINES:**

- Field dressing site and methods must be discussed and approved by MFLNRO staff prior to the start of trapping project (refer to Appendix E and F).
- Killed deer will be transported to an Interior Health approved cut-and wrap facility with hide on (Appendix G); field dressing must be done within 1 hour of death and a qualified meat cutter must be used to process meat.
- Inspection of game meat will take place during field dressing and meat processing to determine human consumption suitability. All carcasses must be processed in a cut-and-wrap facility approved by the Regional Health Authority in accordance with the Meat Inspection Regulation, Food Premises Regulation and the provincial *Guideline for Cutting and Wrapping of Uninspected Meat and Game in Approved Food Premises* (Appendix G); Skins and carcass parts will be saved for First Nations use, if requested;
- Heads of adult deer will be saved, appropriately labeled and bagged and transported to Penticton MFLNRO for Chronic Wasting Disease sampling when possible;
- Acceptable game meat will be distributed to local First Nations or provincially permitted Food Banks;
- Meat not suitable for human consumption will be processed for disposal according to general condition 7 specified in Appendix A.



**PERMIT PE15-194978**

- Signature of Permit Holder

Date \_\_\_\_\_

FrontCounter BC  
Ministry of Forests, Lands and Natural Resource Operations  
441 Columbia Street Kamloops BC V2C 2T3

**Last Updated: 10-13-11**

Page 9 of 16

[illegible]

# APPENDIX E

## PERMIT PE15-194978

### STANDARDS FOR THE DONATION OF GAME MEAT

#### Introduction

The Ministry of Forests, Lands and Natural Resource Operations (FLNRO) may permit B.C. communities to cull game animals within their jurisdiction and to donate the meat. These standards apply to situations in which wild ungulates are culled for management purposes and meat is subsequently made available through a donation system.

All meat derived from these culls has been processed by approved facilities and must be donated to individuals or families for their personal consumption only, or to food bank intermediaries.

#### Background

Economically disadvantaged individuals and families may have challenges in obtaining high quality and nutritious food. Donated food, particularly the high protein and low fat meat obtained from game animals, can greatly increase the diversity and nutritional quality of recipients' diets. As such, the benefits of donating wild game meat to economically disadvantaged individuals and families can outweigh any disadvantages or costs such a program may entail.

Consumers of donated game meat may lack the knowledge necessary to ensure the meat is safe for human consumption. To reduce the risk to human health presented by unsuitable meat, parasites or diseases, donation programs for culled game meat should be delivered by personnel trained and experienced in assessing game meat quality that follow the standards in this document.

Donation of game meat must comply with those sections pertaining to sanitation and food hygiene of the Meat Inspection Regulation and the Food Premises Regulation.

When culled game animal carcasses and meat are made available through a donation system, the following standards apply. These standards do not apply to uninspected meat from domestic farm animals or from game animal carcasses from hunts. The Meat Inspection Regulation applies to all domestic farm animal slaughter, except those intended for personal consumption by the animal's owner, their immediate household and immediate family.

#### Definitions

**Wild ungulates** – include deer, elk or moose only. These are also referred to as "game animals" or "game meat" in this document.

**Food bank** – means a non-profit organization that

- a) operates with the exclusive intent of feeding the hungry, and
- b) receives, holds, packages, repackages or distributes food to be consumed off the premises but does not process food.

**Food premises** – means any place where food intended for public consumption is sold, offered for sale, supplied, handled, prepared, packaged, displayed, served, processed, stored, transported or dispensed.

**Cull** – means the hunting or humane killing of game animals as a means of population management or control that is authorized by a permit obtained from the Ministry of Forests, Lands and Natural Resource Operations.

**Animal** – is defined in the Meat Inspection Regulation as "an animal raised for food." This definition does not apply to wild game animals or their meat.

**Zoonotic organisms** – are organisms carried by animals that can cause disease in humans.

**Training program** – is a one-day workshop conducted by the Ministry of Forests, Lands and Natural Resource Operations that provides individuals with the knowledge needed to examine, handle and prepare game carcasses for human consumption, and to understand the risk presented by the contamination of meat and the presence of zoonotic organisms. Individuals will receive a letter of recognition upon completion of the training program.

### **Standards**

- Donated game meat must be from carcasses that are inspected in the field by individuals who have completed the Ministry of Forests, Lands and Natural Resource Operations training program, and have determined the meat to be fit for human consumption. The training program provides individuals with the knowledge required to inspect, handle and prepare game carcasses for human consumption, and to understand the food safety risks presented by contamination and/or the presence of zoonotic organisms.
- Animals must be killed humanely and exsanguinated (bled) as soon as possible after death. Internal organs must be removed as quickly as possible (field dressed) to allow rapid cooling of the carcass.
- To limit carcass contamination, it is recommended that the hide be left intact for transport and that all steps are taken to promote cooling of the carcass. These steps are outlined in the *Wildlife Health Fact Sheet: Meat Spoilage and Proper Field Dressing of Wild Game*.
- Carcasses must be transported to a cut-and-wrap facility approved by the regional Health Authority, and received as soon as possible.
- All carcasses must be processed in an approved cut-and-wrap facility in accordance with the Meat Inspection Regulation, Food Premises Regulation and the provincial *Guideline for Cutting and Wrapping of Uninspected Meat and Game in Approved Food Premises*. The operator of the approved cut-and-wrap facility will also inspect the game carcasses to ensure they are not diseased, unwholesome, spoiled or otherwise unfit for human consumption.
- A carcass must be clearly labeled as "Not Government Inspected - Not for Resale" or other similar words to the satisfaction of an Environmental Health Officer, in accordance with the *Guideline for Cutting and Wrapping of Uninspected Meat and Game in Approved Food Premises*. A carcass may also require additional labeling information, including the type of animal, date of cull and harvest area. This should be confirmed with your regional Health Authority.
- Game meat must be properly chilled to and held at 4°C (40°F) or colder, or frozen at -18°C (0°F) or colder until pickup by or delivery to the designated recipient.
- Game meat must always be protected from contamination and be handled, prepared, stored and transported in a sanitary manner.
- The transportation and transfer of ownership of game carcasses must comply with all directions detailed within a permit issued by the Ministry of Forests, Lands and Natural Resource Operations.
- Game meat will not be donated to soup kitchens, charitable organizations or any facility in which compliance with the Food Premises Regulation is required. The use of wild game meats is contrary to the Food Premises Regulation, which requires that foods come from an "approved source" (meat must be slaughtered in a federally or provincially inspected facility).

### **Safety Precautions**

Live and dead wild game animals can carry organisms including viruses, bacteria and parasites that could cause illness in humans. Precautions to minimize the human health risks to those handling or consuming game meat must be taken at all stages, including:

- Documenting and physically identifying carcasses with abnormalities.
- Using basic personal protective equipment (e.g., gloves and protective clothing) when handling live animals and carcasses.
- Proper handling of carcasses to prevent contamination, especially from gastrointestinal or fecal matter.
- Washing hands and exposed portions of arms thoroughly before and after handling carcasses or meat, and always before eating.



- Ensuring proper food handling and preparation techniques are used. These include:
  - **Separate** – prevent contact between raw meats and ready-to-eat foods
  - **Chill** – keep meat at or below 4 °C (40 °F)
  - **Cook** – make sure all meat is cooked to 74 °C (165 °F)
  - **Clean** – wash hands and equipment after use

Further detail on potential pathogens and specific safety precautions is found in the references below:

*Diseases You Can Get from Wildlife and Meat Spoilage and Proper Field Dressing of Wild Game – Wildlife Health Fact Sheet.*

If you need clarification, please contact your regional Health Authority.

## References

B.C. *Food Safety Act*, Meat Inspection Regulation. B.C. Reg. 349/2004

B.C. *Public Health Act*, Food Premises Regulation. B.C. Reg. 210/99

B.C. *Wildlife Act*, RSBC 1996, c 488

*Guideline for Cutting and Wrapping of Uninspected Meat and Game in Approved Food Premises*: Retrieved from:

*Diseases You Can Get from Wildlife: A Field Guide for Hunters, Trappers, Anglers and Biologists*. Retrieved from: [http://www.env.gov.bc.ca/wld/documents/wldhealth/diseases\\_from\\_wildlife\\_safetymanual.pdf](http://www.env.gov.bc.ca/wld/documents/wldhealth/diseases_from_wildlife_safetymanual.pdf)

*Meat Spoilage and Proper Field Dressing of Wild Game – Wildlife Health Fact Sheet*. Retrieved from: <http://www.env.gov.bc.ca/wld/wldfact.html>

British Columbia Centre for Disease Control. August 2012. *Guidelines for the Safe Transportation of Carcasses, Poultry and Meat Products*. Retrieved from: <http://www.bccdc.ca/NR/rdonlyres/61C0B237-8884-4D64-A4A0-139B8CE46471/0/GuidelinesfortheSafeTransportationofCarcassesPoultryMeatProducts.pdf>

**APPENDIX F**  
**WILDLIFE HEALTH FACT SHEET**  
**MEAT SPOILAGE AND PROPER FIELD DRESSING OF WILD GAME**  
**PERMIT PE15-194978**

This fact sheet gives an overview of a condition known as **meat spoilage** or **bone-sour meat** and how to avoid it. This is one of the most common complaints of meat quality by hunters but it is easy to avoid.

The terms above refer to meat from harvested wild game that undergoes bacterial growth after death leading to unpleasant changes in colour, texture and smell that can put human health at risk. Hunting can occur during warmer weather which further predisposes to meat spoilage and more effort is needed to avoid meat wastage and reduce the potential risk to public health. Even under cold weather conditions, larger animals like bison, moose, and elk, can spoil within hours unless the animal is cooled by proper field dressing, including hide removal. Although most hunters are well aware of how to avoid meat spoilage, there are many new hunters in BC and some may not have this basic information.

Hunting is an important part of big game management in BC and reducing waste and maximizing the use of the harvested meat is key to keeping hunting and eating game meat safe. Proper field dressing techniques can almost completely prevent meat spoilage and are easy to do if a few simple rules and principles and some simple equipment are used.

**Rules:**

1. Cool the animal immediately
2. Keep it clean
3. Keep it dry, well ventilated and cool!

**Equipment needed:**

- Paper towels for drying
- Rubber/latex gloves for your protection
- Sharp knives for skinning, boning and basic hunting knives
- Saw/hatchet to split and quarter the animal.
- Cheese cloth type bags to cover the animal to keep flies off, for boned meat or quarters
- Ropes and pulleys for hanging the carcass and meat
- Cover cloth or natural material to exclude birds and small animals
- Bleach, disinfectant to wash up
- Coolers or ice containers

**Basic Field Dressing Techniques:**

1. Recover your animal after shooting as quickly as possible.
2. Go ahead and take photographs but get to work on the animal quickly to ensure good meat quality.
3. Cool the carcass/meat as quickly as possible, heat supports the growth of bacteria that are responsible for meat spoilage or decomposition.
  - a. Cool means you need to reduce the temperature from 100 F down to 70 or 80 F as quickly as possible in the first hour and then continue the cooling process.
  - b. The first hour is critical because bacteria grow very well at 90-100 F.
  - c. Hang the carcass from a tree if you can to speed up the cooling process.
4. Wear disposable or clean gloves when field dressing.
5. Make sure the animal is bled out, cut the throat to ensure it is complete.
6. Make sure any tools, knives, axes or saws you use are clean. Rinse off your tools frequently in a bleach solution while you are gutting, skinning and cutting up your animal.
7. Remove the internal organs, they will hold heat for a long time if left inside. Remove the windpipe and esophagus, these parts are key sites for meat spoilage.
8. Ensure good ventilation to speed up heat loss. Prop open the body cavity with a small stick to allow air movement.

9. Use paper towels to wipe out the carcass and scrape or trim away blood clots or areas of tissue damage from around wounds to avoid contamination.
10. Skin the animal as quickly as possible, especially in warm weather.
11. Keep exposed meat as dry as you can; moisture increases the chance of bacteria growing.
12. Protect the carcass from flies, feces or debris from the environment. The best way to keep flies away is to pack meat in good-quality cloth game bags. Some prefer cotton or canvas bags, while some prefer cheesecloth that will allow air flow. Make sure it fits loosely around the meat.
  - a. The objective is to keep the meat cool, dry and loosely packed so that it stays cool while transported.
  - b. If you spend the night outdoors, hang the meat in a tree, so that it will stay cool and dry and away from scavengers.
  - c. If the weather is warm, cover loosely with the game bags and include ice containers when you are ready to transport it. Using plastic bags or tarps to wrap a carcass is not advised since they hold heat, allowing bacteria to grow and leading to meat spoilage. Move the meat to a cool site, preferably cold storage or a butcher for cutting, as quickly as possible.

You will not get a replacement licence if your meat was spoiled or became contaminated as a result of improper handling of the meat.

\*\*\*If you harvest a large ungulate, it should be split down the spine as soon as practical to assist in cooling the thickest part of the animal (this has been an area of spoilage for Roosevelt Elk).

\*\*\*If a large ungulate must be left overnight in the bush due to unforeseen reasons, the animal should be completely skinned (after gutting) and be kept off the ground (ie. with logs) so air can circulate to aid in cooling the carcass.

There are many resources within the hunting community with further information on methods of field dressing. Just remember the basics, be safe and enjoy your hunt and your memories in the field and in the dining room! Feel free to call with your questions.

Dr. Helen Schwantje, Wildlife Veterinarian  
Email: [helen.schwantje@gov.bc.ca](mailto:helen.schwantje@gov.bc.ca) Phone: 250-953-4285

Wildlife Health website: <http://www.env.gov.bc.ca/wld/wldhealth.html>  
Chronic Wasting Disease website: <http://www.stopchronicwastingdisease.ca>

## APPENDIX G

### GUIDELINE FOR CUTTING AND WRAPPING OF UNINSPECTED MEAT AND GAME IN APPROVED FOOD PREMISES

#### PERMIT PE15-194978

##### INTRODUCTION

The following guideline provides recommendations on the cutting and wrapping of uninspected meat and game in approved food premises (e.g., butcher shops).

Uninspected meat and game is defined as:

- Meat from an animal that was slaughtered by its owner or a third party in an unlicensed facility and is intended for personal consumption by the owner.
- Meat from a Class D or Class E provincially licensed slaughter establishment.
- Game meat that is slaughtered outside of a Class A or Class B licensed slaughter establishment.

This guideline has been developed to ensure that inspected meat in BC is not contaminated.

##### GUIDELINE

An approved food premises that provides cut-and-wrap services for uninspected meat and/or game should be able to demonstrate compliance with the general sanitation provisions of the Food Premises Regulation. In addition, an approved food premises should also provide evidence that the following criteria have been provided for in order to ensure the safe operation of their facility.

- 1) A carcass presented to the premises should be clean and wholesome, and protected from contamination. Uninspected meat should not be accepted into a premises if it is contaminated or is otherwise unfit for human consumption,
- 2) It is recommended that a carcass is presented to the premises with the hide on in a timely fashion. Leaving the hide on can help to limit carcass contamination during transport.

When a carcass is delivered with the hide on, it is important that the operator of the premises is properly trained or experienced in skinning, splitting and cleaning carcasses. Many operators provide a skinning and splitting service for carcasses with the hide on. This should be confirmed with the premises prior to delivery.

It is also important that the carcass is kept clean and well protected during transport to the premises, in accordance with the sanitary and food hygiene requirements found in the *Guidelines for the Safe Transportation of Carcasses, Poultry and Meat Products*,

- 3) Only cut-and-wrap can be done on uninspected meat and game in the premises. Other types of processing are not permitted,
- 4) Uninspected meat and meat product derived from an uninspected carcass must be clearly labeled with the name and contact information of the owner of the carcass or meat, and must be identified as "Not Government Inspected - Not for Resale" or other similar words to the satisfaction of an Environmental Health Officer.
- 5) Uninspected meat and meat products should be segregated from inspected meat at all times, including by providing either a separate cooler or a cooler equipped with floor to ceiling screens,
- 6) Processing of uninspected meat and meat products should not take place at the same time when inspected meat or meat products are being processed,
- 7) All equipment and utensils used in the processing of uninspected meat and meat products should be cleaned, washed and sanitized immediately upon completion of the processing of the uninspected meat, and prior to being used for the processing of inspected meat,

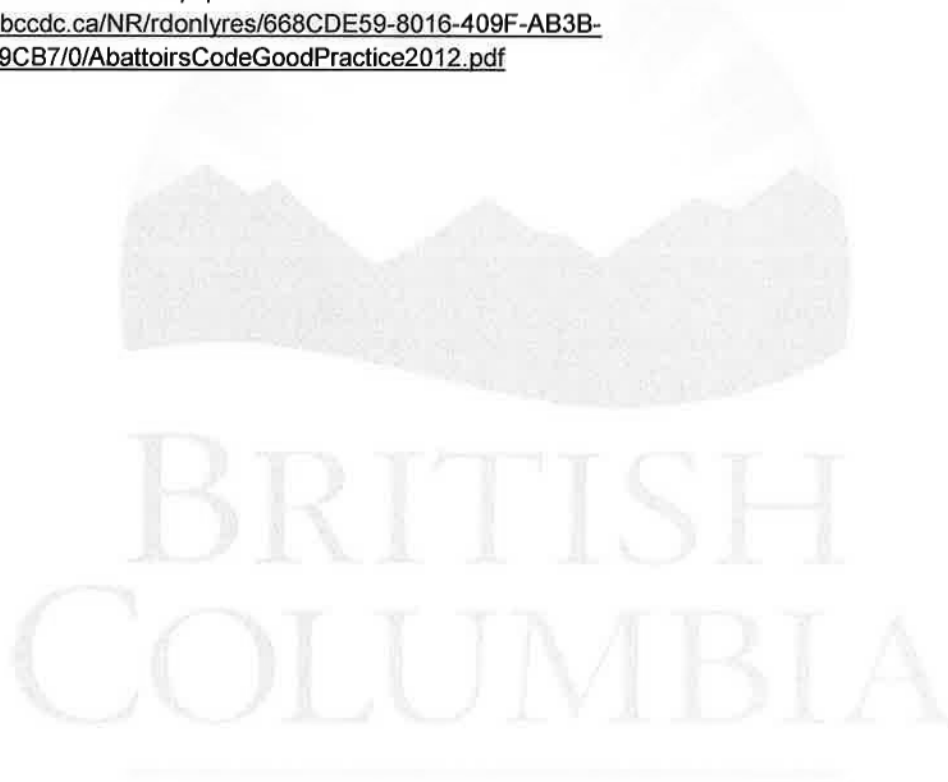
- 8) All animal waste and drainage from the operation of the premises should be disposed of in a sanitary manner. In general, the sanitary and food hygiene outcomes for the disposal of animal waste and drainage found in the *Abattoirs Code of Good Practice – Critical Design, Operational and Equipment Guidelines for Licensed Abattoirs* should be followed,
- 9) The operator should supply a written food safety and sanitation plan that demonstrates how the above criteria will be effectively implemented and controlled.

## REFERENCES

B.C. *Public Health Act*, Food Premises Regulation. B.C. Reg. 210/99

British Columbia Centre for Disease Control. August 2012. *Guidelines for the Safe Transportation of Carcasses, Poultry and Meat Products*. Retrieved from: <http://www.bccdc.ca/NR/rdonlyres/61C0B237-8884-4D64-A4A0-139B8CE46471/0/GuidelinesfortheSafeTransportationofCarcassesPoultryMeatProducts.pdf>

British Columbia Centre for Disease Control. August 2012. *Abattoirs Code of Good Practice – Critical Design, Operational and Equipment Guidelines for Licensed Abattoirs*. Retrieved from: <http://www.bccdc.ca/NR/rdonlyres/668CDE59-8016-409F-AB3B-CE61C0869CB7/0/AbattoirsCodeGoodPractice2012.pdf>



## Rosche, Kimberly FLNR:EX

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Tuesday, November 22, 2016 2:22 PM  
**To:** 'Dolores Sheets'  
**Subject:** 2016-11-22 RE: PUDOCSP\_Application Package\_GF.pdf

Thank You Delores.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Dolores Sheets [<mailto:dsheets@grandforks.ca>]  
**Sent:** Tuesday, November 22, 2016 2:20 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Cc:** Graham Watt  
**Subject:** PUDOCSP\_Application Package\_GF.pdf

Hi Jeff,

Attached is the City of Grand Forks application for funding under the Provincial Urban Deer Operational Cost-Share Program.

If you have any questions or require further information, please don't hesitate to contact me.

Take care,

DD

Dolores Sheets  
Manager of Development & Engineering  
City of Grand Forks, B.C.  
Ph: 250-442-8266  
Cell: s.22  
Email: [dsheets@grandforks.ca](mailto:dsheets@grandforks.ca)

## **Rosche, Kimberly FLNR:EX**

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Tuesday, November 22, 2016 12:09 PM  
**To:** Teske, Irene FLNR:EX  
**Subject:** 2016-11-22 RE: Urban Deer Cost-Share - Call for Proposals

noted

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

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**From:** Teske, Irene FLNR:EX  
**Sent:** Tuesday, November 22, 2016 11:47 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** RE: Urban Deer Cost-Share - Call for Proposals

Hi Jeff

May I add 1 or 2 carry blankets to the list = \$500 each ?

Thank you

Irene

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Thursday, November 10, 2016 10:22 AM  
**To:** Teske, Irene FLNR:EX  
**Subject:** RE: Urban Deer Cost-Share - Call for Proposals

Hi Irene,

The expenditure that fit under the program are;

- Repair traps if required = \$2000
- Purchase trapping supplies such as triggers, plastic bags, fishing line etc., if required = \$1000

Once we know the costs of the local government projects we will be able to consider equipment purchase/repair. I should be able to confirm what can be directed to these costs items in early January.

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Teske, Irene FLNR:EX  
**Sent:** Thursday, November 3, 2016 10:09 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** Urban Deer Cost-Share - Call for Proposals

Hi Jeff

I would like to apply for a contingency fund of \$5200 for the following:

- Contract Ron Kerr to train any new cull contractor working in Region 4 (Cranbrook possibly) = 4 days at \$300 per day = \$1200
- Repair traps if required = \$2000
- Purchase trapping supplies such as triggers, plastic bags, fishing line etc., if required = \$1000
- Pay COS overtime for night patrols to deter vandalism = \$1000

Region 4 does not have a budget for Urban Deer this year.

Please let me know if I need to write and submit a formal proposal.

Thank you

Irene

*Irene E. Teske, RPBio  
Wildlife biologist  
Ministry of Forests, Lands and Natural Resource Operations  
205 Industrial Road G  
Cranbrook, BC V1C 7G5  
250-489-8551 office*

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, October 26, 2016 3:26 PM  
**To:** FLNR DRMs; FLNR Fish and Wildlife Section Heads; Badry, Micheal J ENV:EX; Harrison, Scott FLNR:EX; McLean, Craig A FLNR:EX; Pendergast, Sean FLNR:EX; Schwantje, Helen FLNR:EX; Smith, Jennifer FLNR:EX; Teske, Irene FLNR:EX; Walker, Andrew FLNR:EX  
**Cc:** Ramsay, Mike K FLNR:EX; Trotter, Ward FLNR:EX  
**Subject:** Urban Deer Cost-Share - Call for Proposals

Hello All,

You will find attached the call for proposals for the Provincial Urban Deer Cost-Share Program. It will be posted by the UBCM shortly (today hopefully). Please feel free to pass along the document to those communities you may be working with. Also, if you are aware of any Indian Bands/First Nations that are experiencing urban deer issues please direct them to this program (and yes, I fully realize many of the more remote First Nations will not be experiencing deer problems that they cannot resolve on their own).

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations



**From:** Morgan, Jeff A FLNR:EX

**Sent:** Wednesday, October 26, 2016 10:28 AM

**To:** Badry, Micheal J ENV:EX; Bohm, Holger FLNR:EX; Doug Pateman ([dpateman@princeton.ca](mailto:dpateman@princeton.ca)); Jared Wright ([jwright@ubcm.ca](mailto:jwright@ubcm.ca)); Laurey Roodenburg ([lroodenburg@quesnel.ca](mailto:lroodenburg@quesnel.ca)); Nils B. Jensen ; Paul de Leur ; Pendergast, Sean FLNR:EX; Sara Dubois ([sdubois@spca.bc.ca](mailto:sdubois@spca.bc.ca)); Schmidt, Orlando AGRI:EX; Schwantje, Helen FLNR:EX; Sielecki, Leonard E TRAN:EX; Teske, Irene FLNR:EX

**Cc:** Trotter, Ward FLNR:EX; Ramsay, Mike K FLNR:EX; Thomas, Keith D FLNR:EX; Clarke, Brennan GCPE:EX

**Subject:** Call for Proposals

Hello All,

You will find attached the call for proposals that the UBCM will be posting on its website today. I thank you all for your contributions---they definitely helped shape the product.

Jared can you please provide the link?

Sincerely,

Jeff Morgan

Fish and Wildlife Branch - Policy Manager

Resource Stewardship Division

Ministry of Forests, Lands and Natural Resource Operations

Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

**Rosche, Kimberly FLNR:EX**

---

**From:** Warren Jones <WJones@oakbay.ca>  
**Sent:** Tuesday, November 22, 2016 8:20 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Cc:** 'Kristy'  
**Subject:** 2016-11-22 Urban Deer Cost-Share Program  
**Attachments:** Deer Management Funding Application - Oak Bayl.pdf

Dear Mr. Morgan,

On behalf of the District of Oak Bay and the Urban Wildlife Stewardship Society I am pleased to submit the attached application to the Provincial Urban Deer Cost-Share Program. At its meeting held November 21, 2016 the Council for the District of Oak Bay resolved:

*"That Council apply to the Ministry of Forests, Lands and Natural Resource Operations for a matching grant of up to \$20,000 to implement a deer management strategy substantially in the form of the program and application prepared by the Urban Wildlife Stewardship Society."*

I can confirm that the District of Oak Bay has committed up to \$20,000 in matching funds to advance the project.

Thank you for your attention and consideration. Please contact me at 250 598-3311 or [wjones@oakbay.ca](mailto:wjones@oakbay.ca) should you require further information.

Regards,  
Warren Jones

Warren Jones  
Director of Corporate Services  
District of Oak Bay  
2167 Oak Bay Avenue  
Oak Bay, BC V8R 1G2



November 20, 2016

Mr. Jeff Morgan  
Program Officer for the Urban Deer Cost-Share Program,  
Fish and Wildlife Branch,  
Ministry of Forests, Lands and Natural Resource Operations,  
Resource Stewardship Division  
Victoria, BC

Dear Mr. Morgan,

Please find attached a joint application from the Municipality of Oak Bay and the Oak Bay/Victoria-based Urban Wildlife Stewardship Society (UWSS), for a 2016-2017 research project under the Provincial Urban Deer Cost-Share Program.

The purpose of this submission is to acquire provincial funding for the management of urban deer in the district of Oak Bay. Oak Bay council has committed \$20,000 for this project, and will work in partnership with the Urban Wildlife Stewardship Society to achieve project objectives.

On November 14, 2016 Oak Bay Council passed a motion that:

*"Oak Bay submit an application to the BC Ministry of Lands, Forest, and Natural Resources (to meet the November 22, 2016 deadline) for matching funds of up to \$20,000 to contract with the Urban Wildlife Stewardship Society to develop and implement a deer-reduction plan based on fertility control."*

As a result, Oak Bay staff asked the Urban Wildlife Stewardship Society, a small not-for-profit group of scientists, wildlife managers, educators and citizens, to implement an immuno-contraception research project in collaboration with Oak Bay.

The goal of the project is to demonstrate that an urban deer population and human-deer conflict can be reduced in a scientific, evidence-based approach, in a cost-effective, widely-supported way using humane, non-lethal methods, specifically fertility control. It is expected that this project would result in an urban deer management program that would set a standard and serve as an effective, innovative template for the region, province and beyond with potential uses for other wildlife species.

At present, there is little scientific information or understanding of the urban deer population in Oak Bay. Permanent habitat, range, roaming patterns and population numbers were not accurately or systematically measured by the Capital Regional District as part of the Regional Deer Management Strategy.

Determining the population of deer in Oak Bay, within defined confidence limits, is a critical first step in urban deer research and management. Estimates of population size, roaming patterns and rate of growth that are scientifically based, rather than based on anecdotal public perception, are the only credible and scientifically defensible estimates upon which sound research and management decisions can be based.

Estimating populations will provide a realistic baseline, from which the District will be able to set manageable and measurable population reduction objectives and equally important, enable an accurate and therefore credible assessment of the effectiveness of treatments in reducing population numbers. According to the provincial government's 2010 *BC Urban Ungulate Conflict Analysis*, "management goals and measureable responses prior to project implementation" and baseline data allow outcomes to be "evaluated objectively." As a result, these steps are a vital aspect of this research project.

The timing of an immuno-contraception project is critical to the viability and success of the entire program. The ideal time to inoculate does in order to impact spring births is summer and early fall, prior to rutting season. It is also necessary for a month or more to pass post-vaccination to allow for the formation of sufficient levels of anti-PzP antibody titers. As the rut has already occurred for 2016, we recommend that immuno-contraception occur in summer 2017, before the next rut.

We have therefore divided this project into two phases. This application is for Phase 1, the research stage for this fiscal year, and we will apply to the Provincial Urban Deer Cost-Share Program for the operational stage of immuno-contraception in phase 2 in Spring 2017.

The goal for both partners (Oak Bay and the UWSS) is the development and implementation of an efficacious and successful scientific deer management and reduction project. By funding a comprehensive, rigorously conducted research project that will provide invaluable information not only for the District but for regions beyond, Oak Bay is setting the standard for humane, cost-effective, non-lethal management of indigenous, urban deer.

The UWSS is very pleased to implement this research project in Oak Bay with the support of Council. Due to the very tight timeline between the Oak Bay motion and the deadline for this application, there may be some gaps which we will be happy to address if the provincial committee has any questions. We also have not had time to apply for any permits that may be necessary but, if they are required, we will complete the applications expeditiously.

Thank you for your consideration,

Sincerely,

Kristy Kilpatrick

UWSS, president

## **Background:**

Management of urban deer is a significant challenge across North America. Culling deer in such situations has proven highly divisive. Peer reviewed literature suggests that treating approximately 30% of female deer with an immuno-contraceptive can result in a 50% population decline within 5 years, without the need to cull.

In February and March of 2015, Oak Bay Municipality undertook a lethal cull as part of the CRD Regional Deer Management Strategy. The lead-up and aftermath of the cull were extremely divisive in the Oak Bay Community, and the Urban Wildlife Stewardship Society was formed to identify alternative ways to manage human-deer conflict.

The Urban Wildlife Stewardship Society (UWSS), created in April, 2015, is a small not-for-profit society constituted under the BC Society Act. The members of the society are primarily residents of Oak Bay and include educators, biologists, public servants and other professionals.

In December 2015/January 2016, the UWSS developed a five-point comprehensive urban deer management proposal that includes an immuno-contraceptive component.

The purpose of the UWSS proposal was to outline a new comprehensive approach to deer management for Oak Bay. The society believes that completing the comprehensive program outlined in the proposal would result in an urban deer management regime that would set a standard and serve as an effective template for the province and beyond with potential uses for other species.

This application includes the elements specific to a research project on immuno-contraception. The goal is to achieve the project objectives, in a scientifically credible manner.

If the Oak Bay/UWSS research project meets its objectives, it will provide a significant contribution to the understanding of effective urban deer management. In addition, the information gathered on population size, trends and urban deer ecology will add to our knowledge of this species.

With Oak Bay and the UWSS working together along with other partners such as the University of Victoria and a local lab, there is a great deal of opportunity to achieve these significant goals. Together with Oak Bay, we are looking forward to “undertaking [a] collaborative, community based, co-management process” (*Summary Report for Municipalities, 2010*) to urban deer issues in Oak Bay.

## Current Management Challenges:

In the late winter of 2014-15, Oak Bay Municipality undertook a lethal cull under the CRD Regional Deer Management Strategy. The cull was primarily based on complaints and anecdotal information. The cull was very divisive, and since that time, Oak Bay has continued to struggle with whether or not to manage the deer population, and if so, how.

In September 2016, Oak Bay undertook a Community Satisfaction Survey, administered by phone to 400 households. There were three questions on deer:

- 1. Do you feel there is an overpopulation of deer in the district of Oak Bay?*
- 2. On a scale of 1-4 with 1 being strongly opposed and 4 being strongly supportive, would you support an increase in property taxes to fund efforts to reduce the deer population in the District of Oak Bay?*
- 3. Again, on a scale of 1-4, with 1 being strongly opposed and 4 being strongly supportive, do you support a deer cull in the District of Oak Bay, assuming this was the **only** option available to the District in order to reduce the deer population?*

*Note: the word “cull” refers to a humane killing.*

The results of the survey indicate that the Oak Bay community continues to be divided on the issue of deer. Essentially the results show that of the 400 respondents, there is a 50/50 split for and against culling (on the understanding that a cull would be the only option available).

Although it has not been conclusively determined, there is a sense that Oak Bay may be getting close to its cultural carrying capacity with respect to urban deer. There continues to be human-deer conflict in Oak Bay and adjacent municipalities, yet based on the recent survey, at least half of Oak Bay does not support a cull. However, vehicle-deer collisions, damage to gardens, and deer behaviour during fawn and rutting season continue to be of concern.

Oak Bay has many pockets of environment that are desirable to deer – golf courses, creek draws, both developed and undeveloped parks such as Uplands Park, edge habitat, lush lawns, flower and vegetable gardens and fruit trees. Some Oak Bay gardeners are frustrated with plant damage due to deer browsing annuals, perennials and young trees in their gardens. Plants that in the past have not appeared to be desirable to deer now appear to be part of their diet.

Fifty deer carcasses have been collected in Oak Bay this year. This number has risen significantly since 2008 when there were no reported deer deaths, however it has remained within a range of between 35-50 since 2012. In 2014, the number of deer conclusively killed in vehicle-deer collisions was 17. Driving, particularly at dawn and dusk, is a worry to some residents for fear of being involved in a collision. Speeding in areas where deer are known to be or in high-kill areas as determined by the collection of carcasses, continues to be a concern.

Other human-deer conflict continues to be primarily in the form of fear of deer aggression towards people and domestic animals. A persisting concern of Oak Bay residents appears to be the defensive reaction of does when they perceive their young to be in danger during fawning season, deer reacting to the presence of leashed or unleashed dogs, and the unpredictable behaviour of bucks during the rut in late fall.

All of these issues – garden damage, vehicle-deer collisions, and defensive behaviour of deer, continue to be a challenge to manage in Oak Bay.

### **Knowledge Gaps:**

At this time there is little understanding of the size, composition or habits of the deer population of Oak Bay. It isn't clear why the deer are where they are – anywhere from close proximity to deer habitat such as golf courses or parks, through to busy streets leading into downtown with very little nearby green space.

We also don't have a reliable estimate of the deer population. The most recent deer inventory showed a high of 55 deer, based on a count that was done over three weeks in late October and early November 2015. This inventory was conducted by paid counters from the University of Victoria, Camosun College, Urban Wildlife Stewardship Society, and the CRD with the following methodology:

*All the streets in Oak Bay were driven. Each route was alternately driven in each direction. The Victoria Golf Club was counted using optics (binoculars/spotting scope) and a golf cart. Four dawn and dusk counts were completed. Provincial staff interpret results for a driving count by considering the highest count of all the repetitions as the overall result. The high count was 55 deer. Of those, 14 were counted on the Victoria Golf Club grounds. The overall count is equivalent to finding one deer every two kilometers. Most animals appeared to be in good condition with few injuries observed. More females than males were observed with approximately 60% female and 40% male. As the count was completed using a different methodology than in 2014, the results are not comparable. The exact location of the deer varied from one count to the next.*

Knowing the size of the deer population in Oak Bay, within defined confidence limits, is a critical first step in the management (of any species). Estimates of population size and trends that are scientifically based, rather than anecdotal, are the only credible and defensible estimates upon which sound management can be based. Estimating the population would enable the establishment of a realistic population objective for the municipality, and, allow for an assessment of the effectiveness of treatments in reducing that population.

Estimating wildlife abundance from an unmarked (or partially marked) population of individuals that look more or less the same is difficult. How does one distinguish between one animal 20 times, and 20 different animals? New statistical techniques have been developed that use data from remote camera trapping to estimate population size from repeated photographs. This technique has been field tested for white-tailed deer in Alberta, and can be applied to black-tailed deer in Oak Bay.

## **Objectives:**

The objectives of this research project are to:

- gather scientific information that will contribute to the understanding of urban deer movement patterns and ecology;
- determine the population size and trends of Oak Bay deer;
- manage the size of the population through reducing fawn production by inoculating does with an immuno-contraceptive, and;
- showcase the potential of a community working together with a long-term vision of sustainable and ethical co-existence with wildlife

## **Research Question:**

Will injecting does with an immuno-contraceptive vaccine (which will render them infertile), result in a reduction of the deer population in Oak Bay without a cull, through the reduction of births? This broad research question will be broken down into several components:

1. *What is the deer population (total number, doe/buck ratio, fawn recruitment, distribution etc.) prior to immuno-contraception (IC)?* A scientific population assessment (e.g. moving line transects) will be done in Spring 2017, and data will be analyzed using appropriate statistical tests (e.g. Null Model method and others). This will form the baseline against which post-IC population parameters can be measured and compared.
2. *How can IC be most effective?* As project timing does not allow for a probable impact on pregnancy prevention during the Fall 2016 breeding season, IC will be applied in early Fall 2017, prior to breeding season. Results from part 1 will also inform the minimal and optimal numbers of does to be vaccinated.
3. *What is the deer population (total number, doe/buck ratio, fawn recruitment, distribution etc.) post-IC?* A repeat of the pre-IC population assessment will be done in Spring 2018. Data from pre-IC and post-IC assessments will be statistically compared to ascertain the significance of any observed differences.



4. *How can deer population assessments provide the most accurate numbers?* Field methodologies and statistical analyses depend on the assumptions that individual deer are not counted more than once. As in many other vertebrate species, many individual deer are naturally marked (scars, injuries, unique antlers or color patterns). Therefore, expanding UWSS' photo-identification catalogue with the aid of both hand-held and motion-capture cameras will help eliminate ambiguous data points and make population estimates more reliable.
5. *How can we further our understanding of urban deer behavioral ecology?* Data collected in parts 1, 3 and 4 can potentially provide additional information on home ranges, mortalities, group associations and interactions, as well as reactions to anthropogenic factors like traffic and deterrents. As with part 4, photo-ID is crucial in order to link specific individuals to locales, behavioral repertoires, or other individuals. In particular, infra-red motion-capture cameras will be mounted in high-sightings/high incident areas to aid in this objective. In addition, an opportunistic carcass analysis program could be initiated (and included in the permit application) for additional information, i.e. likely cause of death, cross-reference with photo-ID catalogue, tooth extraction for age estimate, hair sample for potential future DNA analysis.

## **Works to be Undertaken:**

The proposed programme would be undertaken in 2 phases; both to be conducted by UWSS, with The District of Oak Bay acting in an oversight role.

### **Phase One: Research Project**

Since the rutting season is near the end for 2016, the current window for contracepting deer has passed for this year. The perceived success of the entire program would be at risk if an immuno-contraception program were to be undertaken now as most of the does are very likely already pregnant. To properly prepare an immuno-contraception program to be conducted next summer, UWSS proposes the Research Phase One portion include a deer count to be conducted similar to what the Township of Esquimalt is about to undertake, what was suggested to Oak Bay council by UWSS in early 2016, and what was proposed by the District of Oak Bay prior to the cull. In addition, a GPS deer tracking program and a population model is being proposed.

## **Deer count**

A count of the resident Columbian Black-tailed deer (*Odocoileus hemionus columbianus*) in the District of Oak Bay would be conducted as one step in providing urban deer data to better understand and to help determine a relative population density. To accomplish this, volunteers, University of Victoria and Camosun College graduate students and independent contractors would be utilized.

Ungulates are usually most active during the periods around dawn and dusk and at night, and are least active during daylight hours. That pattern, coupled with the observation that animals are usually less mobile and wary at night, suggests that direct count methods are likely to be most efficient and accurate during early morning, late evening or during the night. To gather the most credible count data efficiently and effectively the District of Oak Bay would be divided into 3 counting zones. A series of 5-6 counts during January 2017 would take place around sunrise and sunset and be completed within 2 hours. The counters would be divided into teams of 2, using one team per zone. The teams would consist of a driver and a spotter/recorder. Teams would be instructed on how to determine the sex of the deer; which should be quite accurate given the antler growth at the proposed time of the year. There would also be instructions given on how to correctly fill out the Deer Count Sheet, and mark waypoints on the GPS. Drivers would be instructed to drive between 10-15km/h while counting so that deer would not be missed due to speed. The drivers would be given a map with a predetermined route, set out by the Team Lead, to minimize route crossover and duplication. The route would cover all the arterial and collector streets within each particular zone. Teams would be directed to only count the deer that were seen in the forward 180 degrees of their field of vision so that deer would not be double counted. Wherever possible, high resolution photographs of each deer would be taken for use in the existing Oak Bay deer photo inventory. Teams would be given information sheets that they would fill out during the counting process and once all the counting trips are complete, the data from the GPS information would be compiled and plotted on a map along with a report of final count and deer densities. Results would be included in the final report to Provincial Urban Deer Cost-Share Program. The entire exercise is considered to be low risk to independent contractors, students and volunteers as well as the deer, private and public property.

## **Tracking using GPS collars**

In addition to a count, it is believed that data gathered from GPS tracking of  $\pm 10\%$  of the Oak Bay population would be useful to better evaluate the effectiveness of female deer contraception in a semi-captive area like Oak Bay. Experts suggest that bucks range over large areas while does live out their entire lives within  $<1$  square kilometer of their birthplace. There is currently no data available to support such claims regarding Black-tailed deer in an urban setting and we believe it to be valuable for a comprehensive population modeling assessment relating to any urban deer herd reduction program.

Animal selection and implementation of a GPS tracking program would focus on the two neighbourhoods with the highest number of deer- human conflicts. Up to 10 Black-tailed deer (10% of the estimated Oak Bay population) would be captured by an independent contractor, or graduate student in pre-baited clover traps, or will be immobilized using a dart. Although clover traps or drop nets could be the primary means of capture, UWSS is recommending the use of immobilization drugs administered via darting; the reasons are that:

- It can be safely carried out by skilled field operators in the areas of Oak Bay where deer congregate at the highest density (typically urban parks and open areas) since current regulatory approvals and field protocols do limit the risk of accidental exposure.
- Dart delivery systems pose low risk of exposure for non-target species.
- There is less risk of animal and human injury over physically handling an animal in a collapsed clover trap or net
- The immobilization drugs have proven effectiveness and safety eliminating the need to tag the animal regarding fitness for human consumption
- It is far more economical and requires significantly reduced human resources, neighbourhood logistics, risk management considerations; and takes less time to conduct
- It is a highly selective method to ensure the planned target mix of bucks and does, age, etc. are fitted with the Vectronic or equivalent GPS tracking collars

Telazol HCL (at 4.4 mg/kg) would be administered by a dart. Yohimbine may be administered by hand to reverse the Telazol. (Other immobilization drugs may be used with the advice of the BC Provincial Wildlife Veterinarian, Dr Helen Schwantje.)

GPS tracking collars could remain the property of the province. The proposed collars are equipped with a radio controlled remote release thus eliminating the need to recapture the animal to recover the collar. The program carries expected risks as outlined above; mitigated by trained independent contractors and biologists. UWSS would like to get the collars installed by January 2017 and would expect to collect data for at least an entire calendar year. Once the collars are installed on the selected deer, the maintenance costs of the program would be minimal as the data collection would be controlled through the GPS tracking software by graduate students.

GPS tracking data collected from the program would be used to compile maps and ongoing reports to enhance knowledge of urban deer activity in the region, and would be included in the final report to the province.

## **Population modeling**

A population model for deer in Oak Bay would be used to understand, explain and predict the numbers of deer in the District of Oak Bay. It would also be used to establish a population objective, and to provide insights on how that objective could be achieved.

An independent contractor, or graduate student, would be hired to develop a population model for deer in Oak Bay. The four necessary components of the model (birth rates, death rates, immigration and emigration) would be estimated from observations and existing data (e.g., literature, Municipal and Insurance Corporation BC (ICBC) data sources). Data from UWSS projects (e.g. photo inventory) would be used to refine the model. One could also include some minor necropsy on the carcasses collected by Oak Bay district works department. Cost would be minimal, aside from some supplies and travel expenses as it would be performed by graduate students. Data collected would greatly assist in helping to round out the profile of the population. All Population Modelling results would be compiled to improve the understanding of urban deer activity in the region which could generally be applied to urban deer in other regions and would be included in the final report to the province.

## **Immuno-contraceptives:**

After missing the opportunity to administer SpayVac to Oak Bay deer in 2015 and 2016, the window has closed on the availability of the product. IMV (the manufacturer) has declared the last remaining samples expired. Further there is no one remaining at IMV who has any expertise and/or desire to pursue the product on a commercial or research scale.

The UWSS proposes to engage a contract lab with considerable antibody/antigen manufacturing expertise, potentially in conjunction with University of Victoria, to produce a new immuno-contraceptive. The research would consist of blending PzP which is commercially available through an agreement with the US Humane Society (HSUS) and the Science and Conservation Center (the manufacturer) in Montana.

The blending with a liposome enhanced aqueous adjuvant should increase the long term effectiveness of PzP. This process would give UWSS and its independent contractors an enhanced "made in BC" vaccine for use in the summer of 2017. The product would need to be imported on a Health Canada Emergency Drug Release (EDR).

If the research proves unsuccessful, the alternative is to use ZonaStat-H, which is a proven immuno-contraceptive that is currently being used by Wild Horses of Alberta Society (WHOAS) in Alberta on wild horses under an MOU with the province. Administering the vaccine by darting as discussed previously is an important aspect of this program. A full report would be submitted to the Provincial Urban Deer Cost-Share Program upon completion of the research.

## Public Education

Public education is inherent to the goals and program objectives of UWSS. In addition to the required technical reports to the municipality and province, UWSS is committed to provide public education materials, presentations, and support on an-going basis throughout this research project, to keep the public informed of all aspects of the project.

Some examples of the work the UWSS has done to date, including public education, are:

- Creation of a Scientific Advisory Group (SAG) and research team with scientists and educators from the University of Victoria and Camosun College;
- Successfully initiated a photo inventory of Oak Bay deer – this engaged many in the community by having residents and Camosun College students take photos of deer, submitting the photos and locations to retired wildlife biologist Bryan Gates (past-president and advisor to the UWSS) for data analysis;
- Participation in a CRD inventory of deer in Oak Bay in the Fall of 2015 (see Knowledge Gaps);
- Made presentations to the CRD and other local governments to explain a humane, sustainable, and economical alternative to lethal culls which was favourably received;
- Encouraged local governments to take responsibility for public education and awareness on how to reduce human-deer conflicts;
- Designed and distributed over 550 “Caution – Expect Deer” and “Caution-Fawns Crossing” roadside signs that have been requested region-wide;
- Raised public awareness through ad campaigns in local media, media releases, interviews, op-eds and letters, on the importance of human behavior when living with wildlife in an urban area;
- Conducted three workshops on ways to reduce human-deer conflict, two in Saanich and one in Esquimalt (by request);
- Had a comprehensive and exacting public survey developed by an independent consultant (Brian Nyberg);
- Presented the survey to both Oak Bay and Esquimalt;
- Distributed the survey to 1,100 households in Esquimalt in a random pattern and had a 47% return rate (the results are being compiled by the author and will be presented in report form to the Esquimalt Committee of the Whole on December 12, 2016)
- Created an active website (<http://www.uwss.ca/>) and twitter account to provide current information on issues such as a variety of human-deer conflicts to information regarding cougar sightings;
- Received full and public endorsement from the BC SPCA for both public education/awareness and for pursuing research on immuno-contraception as an alternative to lethal culls;

## Reporting expectations

The UWSS fully commits to all reporting expectations as outlined in Appendix 1, with a description of any subsequent follow-up reports.

## Funding Request:

Oak Bay has committed \$20,000 for this research project. We are requesting the province match this amount with a commitment of \$20,000

## Budget:

	<b>PUDAC Funding Proposal</b>	<b>Nov'16</b>
		<b>2016-17</b>
<b>Population Modelling</b>		
	Report development	7,500
	necropsy data collection	1,000
	supplies	1,500
<b>GPS Tracking - 10 deer</b>		
	Labour	5,000
	10 GPS collars	8,000
	immobilization drugs	1,000
	permits	500
	data collection s'ware	1,000
<b>Deer Count</b>		
	Labour	6,000
	Student Labour (60 hrs)	1,200
	Expenses (travel related)	800
	Report development	1,000
<b>Immuno-contraceptive enhancement</b>		
	PzP & adjuvant blending evaluation	4,000
<b>Final Report</b>		1,500
<b>Total Cost</b>		<b>40,000</b>

## **Community-based Plan:**

The recent Citizen's Satisfaction and Priorities survey conducted in Oak Bay illustrated that deer management continues to be an issue in Oak Bay. Some residents are concerned with the destruction of gardens, others with vehicle-deer accidents, some feel intimidated by deer, while others value and enjoy the presence of deer in the community.

It is generally considered that the cultural carrying capacity for deer in Oak Bay may be reaching its limit, yet the 2015 lethal cull created significant controversy and divisiveness.

Oak Bay has a strong sense of community, and it is important that as such, any deer management program is inclusive and will build community rather than cause division between residents. Whether in favour of reducing the deer population or not, it is widely believed that given a choice between lethal and non-lethal means of deer reduction, most residents would choose a non-lethal method.

Immuno-contraception is a non-lethal population reduction method that has been successfully used in a variety of species. By lowering the birthrate of fawns the deer population will be gradually reduced. Stabilizing and decreasing the deer population using a non-lethal method is considered to be the most socially acceptable method of population reduction and as such would be consistent with meeting the needs of most Oak Bay residents.

In 2014-15, Oak Bay participated in the Capital Regional District Regional Deer Management Program. One of the conditions that Oak Bay required of the CRD prior to agreeing to participate in a lethal cull, was to "ensure that every possible population management option be examined and implemented prior to the decision to reduce the population". At the time, the province would only allow a lethal cull as a method of deer reduction. The province is now providing the ability to explore research options such as immuno-contraception, thereby meeting Oak Bay's original goal of investigating all options.

Oak Bay Councillor Ney, who introduced the successful motion for the UWSS to develop and implement a deer-reduction plan based on fertility control, is quoted in the local newspaper as saying "The survey showed that the community was divided around a cull and that there is no social license to carry out a lethal intervention to reduce deer. Managing the deer population with fertility control allows us to get past the "urban versus nature" divide....People in Oak Bay have said they want effective control of the deer population, and they wish to live in unison with nature. We are funding a plan that will manage the deer population in an urban setting while respecting community values".

Animal protection organizations such as the BC SPCA favour research on fertility control as a potential option for deer reduction in communities where lowering the population is determined to be necessary. As many Oak Bay residents place a high value on both companion animals and wildlife, this is an important endorsement.

Oak Bay is also a community with high levels of education that prizes good public policy based on research and evidence. Oak Bay residents will value a collaboration between the municipality, the UWSS, the University of Victoria, Camosun and other partners in a rigorously developed and implemented deer management plan that includes a scientific, evidence based, and humane method of deer reduction.

The provincial government's 2010 *BC Urban Ungulate Conflict Analysis* suggests that communities that undertake "collaborative, community based, co-management processes" result in "greater stakeholder participation and satisfaction with urban wildlife management". It is exactly this model that Oak Bay and the UWSS, along with other partnerships, propose to undertake.

### **Permits:**

We expect the following permits may be required for this project:

- Wildlife Act of British Columbia General permit application
- Fish, Wildlife and Habitat Management Branch Animal Care Application

### **Research Committee:**

Steve Huxter, Animal Behaviourist, Project Manager

Ralph Archibald, former BC Assistant Deputy Minister of Environmental Stewardship, Science Advisory Group Chair (UWSS)

Annette Dehalt, Vertebrate Biologist and Instructor (Camosun College), Research and Field Supervisor (UWSS)

Dr. Don Eastman, former Manager of Wildlife Research for BC and Adjunct Associate Professor (University of Victoria)

Dr. Jason Fisher, Wildlife Ecology Research Scientist (Alberta Innovates) and Adjunct Professor (University of Victoria)

Dr. Daniel Rondeau, Environmental and Resource Economist (University of Victoria)

Dr. David Blundon, Statistical Ecologist and Instructor (Camosun College)

Steve McKerrell, Business Advisor

Barb McKerrell, UWSS Secretary

Holly Vear, Lawyer



## How Research Will Be Reported:

The UWSS will prepare a comprehensive research report. In addition, there is the potential for a capstone project research report prepared by environmental technology students.

## References:

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Golumbia, Todd, "Capital Regional District Deer Management Pilot Project", (Terms of Reference), (2015) prepared by: Coastal Prosperity Consulting, Saanichton, B.C.

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McCance, Erin, "A Greater Winnipeg Area Human-dimensions Urban Deer Management Study," (2009) Department of Environment and Geography, University of Manitoba.

Naz RK, Saver AE. "Immuno-contraception for animals: current status and future perspective." (2015) American Journal Reproductive Immunology, (2016; 75: 426–439)

## **Rosche, Kimberly FLNR:EX**

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**From:** Susan King <Susan.King@cranbrook.ca>  
**Sent:** Tuesday, November 22, 2016 9:14 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Cc:** Chris Zettel; Susan King  
**Subject:** 2016-11-22 Urban Deer Translocation Trial Extension application  
**Attachments:** Cranbrook Translocation Trial Extension.pdf  
  
**Importance:** High

Good morning,

Attached, please find the application package for Phase 2 of the East Kootenay Urban Mule Deer Translocation Trial Extension. If any additional information is required, please let me know.

Thank you,  
Susan

**Susan King,**  
A/ Financial Analyst City of Cranbrook

Phone: (250) 489-0228 / Fax: (250) 426-4026  
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Jeff Morgan  
BC Urban Deer Cost-Share Program  
BC Ministry of Forest Lands & Natural Resource Operations  
Kamloops, BC

**File #: V4500.02**

Tuesday November 22, 2016

Re: East Kootenay Urban Mule Deer Translocation Trial Extension

Dear Mr. Morgan.

Following is a proposal the BC Urban Deer Cost-Share Program for an extension to the East Kootenay Urban Mule Deer Translocation Trial. The Cost-Share Program generously supported the original project in 2016. Funds here are to be used to renew data subscription for the GPS collars as well as additional translocation of mule deer to maintain collar sample size by re-deploying collars that have been retrieved to date from mortalities arising from the original translocation. We also wish to test a possible release location (Upper Kootenay River Valley) that did not receive any deer in 2016.

All four participating municipalities approved the translocation trial by council resolutions in late 2015 or early 2016. We understand that these resolutions remain valid for this extension request. Although captures proposed for March, 2017, will only occur in Kimberley and Cranbrook, the results can be extended to all four municipalities participating in the translocation trial.

We thank the provincial government for making this support available and the opportunity to apply for these funds. We look forward to hearing from you soon.

Regards,



Chris Zettel, Corporate Communications Officer  
City of Cranbrook

Phone: (250) 489-0238  
Cell: s.22  
Fax: (250) 426-7264  
Email: [chris.zettel@cranbrook.ca](mailto:chris.zettel@cranbrook.ca)

## East Kootenay Urban Mule Deer Translocation Trial Extension

### Summary

#### Research Project Goal:

*To test translocation of urban mule deer as a management tool to reduce urban deer levels within communities in the East Kootenay.*

#### Objectives of this proposal to extend the translocation trial:

1. Renew data acquisition and transmission of GPS collars to continue receiving data on translocated deer.
2. Re-deploy GPS collars from mule deer used in Year 1 of the project.
3. Test upper Kootenay River valley as a potential release site location.

Research Question: Is translocation of mule deer a viable, non-lethal management option for reducing urban deer populations?

#### Work undertaken:

1. Renew GPS collar data acquisition and transmission for 27 GPS collars
2. Capture, collar and translocate up to 25 deer from Kimberley and Cranbrook to upper Kootenay River valley in March, 2017. Thirteen GPS collars are anticipated to be available, all deployed on adult female mule deer. Non-collared deer to be translocated will be fawns born to those does in 2016.

#### Deliverables:

1. Report on translocation process, successes and challenges; summary of movement and mortality of collared mule deer; comparisons (where suitable and valid) with concurrent non-urban mule deer project in the East Kootenay region. (ultimately at least one paper in a peer review journal)
2. Data files (Excel spreadsheet) with information on deer captures, their condition and release locations (submitted to BC WSI system)
3. GPS collar data files (submitted to BC WSI system)

#### Permitting:

A Wildlife Permit and Animal Care Committee approval will both be acquired prior to any capture and translocation. Based on successful application for both these documents for the original translocation trial in 2016, no difficulties are anticipated in acquiring permits. All permit information will be forward to Jeff Morgan as soon as possible.

**Funding request: \$ 19,900**

**Background**

In February and March, 2016, sixty mule deer were captured and translocated from Kimberley, Invermere, Cranbrook and Elkford, British Columbia. This activity was the culmination of months of cooperation and preparation by the East Kootenay Urban Mule Deer Translocation Trial. This cooperation among municipalities, provincial government, contract biologists, animal welfare groups and local conservation organizations created a unique opportunity to test translocation as a non-lethal alternative to culling deer as a means of managing burgeoning mule deer populations in these municipalities.

**Goal of the Translocation Trial:**

*To test translocation of urban mule deer as a management tool to reduce urban deer levels within communities in the East Kootenay.*

**Objectives:**

1. *To determine the mortality rate and causes of mortality during each stage of the translocation process (capture, handling, transport and post-release).*
2. *To document movement of radio-collared translocated urban mule deer.*
3. *To compare translocated urban deer survival and movements to non-urban populations of mule deer.*

**Number of Deer Collared**

Of the 60 deer, 29 were fitted with GPS radio transmitter collars to help achieve the trial's objectives. The collars are essential to monitoring post-release movement and survival of the deer. Through mid-November, 2016, only one report has been received from a translocated deer *without* a collar (a young buck shot by a hunter in Montana just south of the Canada US border in October, 2016).

Also as of mid-November, 2016, there have been 10 known mortalities of the 29 collared deer, plus one radio collar that stopped transmitting in early June, 2016 (deer's fate is unknown). An additional 3 deer have been documented as being very aggressive in areas around Koocanusa Reservoir (including Baynes Lake community) and will likely be lethally removed in near future. This leaves 18 collared deer currently "on the air" and the number will likely reduced to 15 in the near future.

**GPS Collars**

The GPS radio collars (GlobalStar "Survey" collars, manufactured by Vectronic Aerospace Ltd., Berlin, Germany) were purchased as part of the original project. Monthly charges apply for data acquisition and transmission are a standard additional cost to the collars. The project pre-purchased 1 years' worth of data acquisition and transmission, starting approximately February 1, 2016. When mortalities occur and collars are retrieved, the transmitters can be turned off with a battery, stopping data acquisition and transmission. Vectronic re-distributes unutilized data charges to active collars such that the project's initial 1 year pre-purchase is now estimated to be extended through April, 2017 (especially if the 3 additional collared deer are killed in coming weeks). However, to collect additional data beyond that time requires renewing data

and transmission subscription via Vectronic Aerospace. Batteries in the collars are estimated to last 2 to 3 years.

#### Release Site

The initial translocation trial released deer at four sites in the East Kootenay (Figure 1). A separate location was used for each community (except for Elkford, where weather conditions forced the final day of translocation to release deer at the same spot as Kimberley). Initial criteria for release site selection was to be on provincial crown land, on mule deer winter range, >30 km from the home community and >20km from any other community. Finding these conditions was very difficult, there were very few options. The extensive movements shown by many collared deer after release made most of these criteria moot. Although, to date, only 2 deer have returned to their home community (both Invermere), many deer have moved well away from their release site and encountered other human developments from cities (e.g. Libby and Eureka, Montana) to towns and communities (e.g. Baynes Lake, BC and Yaak, MT) to semi-rural areas and developments (e.g. Rosen Lake, Oestereich R.V. campground). In many instances, deer have restored to aggressive behaviour to humans and dogs.

#### Proposal

This proposal, therefore, seeks to extend the translocation trial by

- a) Renew annual data and messaging subscription to the GPS radio collars fitted on several deer
- b) Moving additional mule deer from Kimberley and Cranbrook to:
  - i. Maintain sample size of collared deer through late winter and spring when mortality in deer is typically highest
  - ii. Test the upper Kootenay River valley (near confluence of Kootenay and Palliser Rivers as a release point for translocated mule deer in the East Kootenay.

#### Renew Data Subscription and Transmission

We will renew data with a pre-paid subscription for a full year for 27 collars. For the original translocation trial, 28 collars were purchased (1 collar has already been deployed twice). One collar was damaged beyond repair when it was retrieved, likely due to the predator chewing on it. A year pre-paid subscription is the most economical option and, if deer do die, any remaining pre-paid balance is redistributed to the other collars.

Please note that even if a decision is made to not fund additional translocations, renewing data subscription for collars still on live deer translocated in February and March, 2016, is of significant benefit. Data renewal is the only way we will reliably know if deer migrate upslope in spring, 2017. In particular 2 deer returned to Invermere in October, 2016, after spending the summer at high elevation areas west of Invermere. Two other deer that summered in the alpine have also returned to Rocky Mountain Trench valley bottom. Whether these deer continue to migrate each summer is of benefit. Similarly other deer are still at high elevation as of November 20, 2016. We presume they will eventually move to lower elevations as snow

accumulates. Whether these deer also return to high elevation areas next summer is important to know as it will suggest that they have reverted to traditional migratory mule deer behaviour.

#### Capture and Translocation

Total number of deer to be translocated in 2017 depends on two main factors:

1. Number of GPS collars available as of March, 2017 (when translocation would occur). A minimum of 10 are currently available, an additional 3 are anticipated to be retrieved in the near future.
2. Fawns born in 2016 that can be identified as belonging to targeted adult does and be safely captured will be translocated with their mother.

As in 2016, we will target adult does and their fawns. All deer will be captured by free-range darting using a dart gun and BAM-2 drug combination<sup>1</sup> which worked very effectively in 2016. Deer will be captured and moved only from Cranbrook and Kimberley. Because the objective of this extension to re-deploy GPS collars that are already purchased for the translocation trial, we are choosing to only move deer from Cranbrook and Kimberley which are in close proximity to the main staff and contractors who will conduct the captures. This will keep costs down to avoid accommodation and other travel-related expenses. It will also potentially allow us to be more flexible in the dates chosen to capture deer.

#### Staffing

Capture and translocation are to be run by:

- Ian Adams, Larix Ecological Consulting and Vast Resource Solutions
- Dave Lewis, Wildlife Contractor
- Patrick Stent, BC FLNRO
- Irene Teske, BC FLNRO
- Veterinarian: one of Dr. Amélie Mathieu, Dr. Nigel Caulkett or Dr. Bryan MacBeth.
- Local conservation organization volunteers.

All staff, including the three possible veterinarians, participated in the initial 2016 mule deer capture and translocations.

#### Release site

One area of mapped mule deer winter range that was not utilized in 2016 was the upper Kootenay River valley, upstream of Village of Canal Flats (Figure 1). There are no permanent human developments in this area (possible exception of Nipika Mountain Resort near the Kootenay National Park boundary). Although the area appears to currently be more populated with white-tailed deer (I. Adams unpubl. data), it is mapped as mule deer winter range and should be suitable for translocation. Because mule deer populations have declined in the East Kootenay, the area may be suitable for mule deer but no longer utilized. Translocation releases in this area may, therefore, have an added benefit of re-establishing a local mule deer population, if they continue to use the area post-release.

<sup>1</sup> BAM is a combination of Butorphanol tartrate, Azaperone tartrate and Medetomidine hydrochloride (<http://wildpharm.com/bam-kit.html>).

We will pre-scout a suitable release point in the vicinity of the Palliser and Kootenay River confluence within 2 weeks of capture and translocation. Factors to be considered in a release site are primarily access-driven: where a pickup truck with horse trailer can safely access at the time. This depends on snow loads, road plowing (winter forestry activity) and road conditions (neither icy nor excessively muddy).

#### Post-release monitoring /retrieval

The budget includes time and mileage to remotely monitor collared deer and retrieve collars when necessary. The collars provide an email and text alert after no movement for eight hours. To date, this has worked well and most collars have been retrieved within 24 hours of the mortality event. This greatly increased our ability to reliably attribute cause of death and collect organ tissue samples for later testing of pathogens and other data. It also matches the protocol and methods of a concurrent study on non-urban mule deer in the East Kootenay allowing for comparisons between non-urban mule deer and translocated urban mule deer, an unprecedented (to our knowledge) scientific study.

#### Reporting

Given the widespread interest in the East Kootenay Urban Mule Deer Translocation Trial, detailed and timely reporting on the project is essential. An interim report is scheduled by fiscal year end, March 31, 2017 with a full report on a complete year of data on the initial 2016 translocations by June, 2017.

That report in June will include, where appropriate, data from the 2017 translocations. However timeframe will necessarily be different between the two translocation cohorts. Additional funding to support reporting and public presentations of the translocation trial has been applied for via Columbia Basin Trust Environmental Initiatives Program. Additionally, some original financial support from the Upper Kootenay Ecosystem Enhancement Program (UKEEP) is also still available. Given the requirement of this Cost-Share Program funding to be spent by March 31, 2017, we will utilize this funding to support the interim report by March, 2017 and use the other sources (if available – success of the CBT funding is not anticipated to be known until early 2017) to support later full reporting.





MOUNTAINS OF OPPORTUNITY  
**CRANBROOK**

Copyright

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*Figure 1: Mule deer winter range (yellow) in East Kootenay region, BC. Communities in red are partners in the Trial project. Red circles are release points in 2016. Light brown areas are private land; pink areas are First Nation lands.*

Budget:

Total request is for \$19,897. Detailed budget and matching funding information is provided below.

All funds will be expended and invoiced by March 31, 2017.

Task Description	Biologist	Technician	Biologists	Veterinarian	Volunteers	GIS	Total Hours	total Cost
	I. Adams	D. Lewis	FLNRO (in kind)		Local Clubs (in kind)	Technician		
<b>Planning</b>								
Planning / Admin	6	2					8	\$ 600
Permit / Animal Care	2		4				6	\$ 150
Release Site scouting	6		6				12	\$ 450
Safety	2		2		2		6	\$ 150
<b>Field</b>								
Field mobilization	4	2	12				18	\$ 450
Site baiting					8		8	\$ -
Capture / Translocation	16	16	30	16	48	0	126	\$ 3,600
<b>Post-Release</b>								
Monitoring and communications	16						16	\$ 1,200
Collar retrieval	40						40	\$ 3,000
<b>Reporting</b>								
Data Analysis	4		8			6	18	\$ 300
Draft reporting	8		8				16	\$ 600
Final reporting	8		2			1	11	\$ 600
Subtotal Hours	112	20	72	16	58	7	285	
Rate	\$ 75.00	\$ 75.00	\$ -	\$ 75.00	\$ -	\$ 70.00		
<b>Subtotal Services</b>	\$ 8,400.00	\$ 1,500.00	in kind	\$ 1,200.00	in kind	\$ 490.00		\$ 11,100

Disbursements	Rate	Units	Total
Supplies	\$200.00	1	\$200.00
Permit	\$115.00	1	\$115.00
collar data / messaging	\$170.00	27	\$4,590.00
Drugs (BAM-2, rate is per bottle)	\$360.00	2	\$720.00
Sampling kits	\$50.00	25	\$1,250.00
Ear tags	\$2.00	25	\$50.00
trailer	\$400.00	2	\$800.00
miscellaneous	\$103.00	1	\$103.00
Mileage pre translocation	\$0.54	300	\$162.00
Mileage translocation	\$0.54	500	\$270.00
Mileage post translocation (retrieval)	\$0.54	1000	\$540.00
<b>Subtotal Expenses</b>			<b>\$8,800.00</b>

<b>Total Budget</b>	<b>\$ 19,900.00</b>
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Exclusive of any applicable taxes.

Other funding sources

In kind service:

Source	Support	Amount	Status
BC FLNRO (Kootenay Regional Staff):	In-kind	72 hours @ \$30.00/hr = \$2,160	Confirmed
Local Conservation Clubs	In-kind	58 hours @ \$15.00/hr = \$870	Requested
Upper Kootenay Ecosystem Enhancement Program (UKEEP)	Direct	Approx. \$5000	Approved
Columbia Basin Trust	Direct	\$9,400	Requested
Total		\$17,430	

**Notes:**

Columbia Basin Trust request covers reporting time (hours included here are fairly low for reporting, CBT dollars are anticipated to cover most of the reporting, with contributions from UKEEP as well. The CBT application also included funding to provide free public presentations on the project to each partner municipality in spring, 2017.

UKEEP funding is balance of award for original project. Targeting monitoring and retrieval of collars and reporting.

## **Rosche, Kimberly FLNR:EX**

---

**From:** Kristy s.22  
**Sent:** Wednesday, November 23, 2016 11:31 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** 2016-11-23 UWSS application for cost-share

Hi Jeff,

Sorry to be contacting you after the deadline for the PUDAC application – I had meant to follow up with you after our last conversation, but have only just come up for air now!

For starters, I wanted to thank you for the conversation last week. I shared the information regarding funding timing with the UWSS Board which was very helpful. We came to the decision that given that as the first phase of our program involves so much necessary research prior to the actual process of immunizing does, that the timing works in favour of the project and allows us to apply in two phases, one for this fiscal year and one for next fiscal year.

Understanding that a deer inventory on its own, without an attachment to any other project (as in the example I gave you of Esquimalt), would be unlikely to meet your criteria, you will see by our application that its part of a much broader scope in our project - we are proposing attaching GPS tracking collars on 10 deer, doing an extensive deer inventory and population model, as well as determining which would be the best vaccine to use in Oak Bay.

Thanks again for talking it through with me last week.

Best regards,

Kristy Kilpatrick

## Rosche, Kimberly FLNR:EX

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, November 23, 2016 12:30 PM  
**To:** Ramsay, Mike K FLNR:EX; Trotter, Ward FLNR:EX; Thomas, Keith D FLNR:EX  
**Subject:** 206-11-23 PUDAC funding Applications

Hello All,

This is a 'heads up'.

So far we have received 5 applications to the Provincial Urban Deer Cost-Share Program.

Cranbrook -\$19,900  
Elkford - \$10,000  
Invermere - \$12,000  
Grand Forks - \$16,000  
Oak Bay- \$20,000  
**Total - \$77,900**

These are transfers and they have yet to be approved.

Roles are:

Jeff Morgan = QR  
Director = makes decisions (what should be funded)  
ADM = (signs agreement) EA

The process timelines is as follows.....

**October 26, 2016:** Provincial Urban Deer Cost-Share Program's Call for proposals go out (for 2016/17 fiscal).

- **November 22, 2016:** Deadline for local governments or Indian Bands/First Nations to submit their project proposals.
- **November 28, 2016:** Provincial Urban deer Advisory Committee review of proposals completed.
- **December 2, 2016:** Branch notifies local governments or Indian Bands/First Nations of their available funding allotments (through 'agreements in principle').
- **December 16, 2016:** Branch enters into agreements with successful local governments or Indian Bands/First Nations.
- **March 15, 2017:** Deadline for local governments or Indian Bands/First Nations to submit invoices and project completion reports to the Branch.

Sincerely,

Jeff Morgan

Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000



## **Rosche, Kimberly FLNR:EX**

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, November 23, 2016 1:36 PM  
**To:** Thomas, Keith D FLNR:EX  
**Subject:** 2016-11-23 RE: PUDAC funding Applications

Okay!

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Thomas, Keith D FLNR:EX  
**Sent:** Wednesday, November 23, 2016 1:28 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** RE: PUDAC funding Applications

Ok  
Let me know when u think when you have landed as we will have to draft the agreements and align \$

I only want to approach budgets once for \$ request

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, November 23, 2016 1:17 PM  
**To:** Thomas, Keith D FLNR:EX  
**Subject:** RE: PUDAC funding Applications

Some could possibly straggle in yet but that's the total received—deadline was yesterday.

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Thomas, Keith D FLNR:EX  
**Sent:** Wednesday, November 23, 2016 12:58 PM  
**To:** Morgan, Jeff A FLNR:EX; Ramsay, Mike K FLNR:EX; Trotter, Ward FLNR:EX  
**Subject:** RE: PUDAC funding Applications

Hi Jeff  
When will you have a final number of applications and final \$ amount, or is this it?

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, November 23, 2016 12:30 PM  
**To:** Ramsay, Mike K FLNR:EX; Trotter, Ward FLNR:EX; Thomas, Keith D FLNR:EX  
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Jeff Morgan = QR  
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Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

## **Rosche, Kimberly FLNR:EX**

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, November 23, 2016 12:00 PM  
**To:** 'Kristy'  
**Subject:** 2016-11-23 RE: UWSS application for cost-share

Thanks Christy.

Appreciated!

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Kristy s.22  
**Sent:** Wednesday, November 23, 2016 11:31 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** UWSS application for cost-share

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Understanding that a deer inventory on its own, without an attachment to any other project (as in the example I gave you of Esquimalt), would be unlikely to meet your criteria, you will see by our application that its part of a much broader scope in our project - we are proposing attaching GPS tracking collars on 10 deer, doing an extensive deer inventory and population model, as well as determining which would be the best vaccine to use in Oak Bay.

Thanks again for talking it through with me last week.

Best regards,

Kristy Kilpatrick

## Rosche, Kimberly FLNR:EX

---

**From:** Warren Jones <WJones@oakbay.ca>  
**Sent:** Tuesday, November 22, 2016 8:20 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Cc:** 'Kristy'  
**Subject:** 2016-11-25 FW application review (1)  
**Attachments:** Deer Management Funding Application - Oak Bayl.pdf

Dear Mr. Morgan,

On behalf of the District of Oak Bay and the Urban Wildlife Stewardship Society I am pleased to submit the attached application to the Provincial Urban Deer Cost-Share Program. At its meeting held November 21, 2016 the Council for the District of Oak Bay resolved:

*"That Council apply to the Ministry of Forests, Lands and Natural Resource Operations for a matching grant of up to \$20,000 to implement a deer management strategy substantially in the form of the program and application prepared by the Urban Wildlife Stewardship Society."*

I can confirm that the District of Oak Bay has committed up to \$20,000 in matching funds to advance the project.

Thank you for your attention and consideration. Please contact me at 250 598-3311 or [wjones@oakbay.ca](mailto:wjones@oakbay.ca) should you require further information.

Regards,  
Warren Jones

Warren Jones  
Director of Corporate Services  
District of Oak Bay  
2167 Oak Bay Avenue  
Oak Bay, BC V8R 1G2

Page 219 to/à Page 245

Withheld pursuant to/removed as

DUPLICATE



**2016/2017 Provincial Urban Deer Cost Share Program  
District of Elkford Grant Application  
Project Plan**

Submitted to: Jeff Morgan, Program Officer  
Fish and Wildlife Branch  
[Jeff.morgan@gov.bc.ca](mailto:Jeff.morgan@gov.bc.ca)

Submitted by: Curtis Helgesen, CAO  
District of Elkford  
[chelgesen@elkford.ca](mailto:chelgesen@elkford.ca)

## **Introduction**

The District of Elkford started formally in 2006 working on urban deer issues in our community with the establishment of our Deer Feeding Prohibition Bylaw. In 2010, after an increase in the number of complaints regarding the deer in our Community, Council directed that a survey be conducted to sense the pulse of the community on this urban deer issue. 433 Elkford residents responded and one of the directions was to establish a committee of citizens to examine the urban deer issue (73% supported this). The results of the survey also indicated that the community wished to see a reduction in the urban deer population – 70% wanted a moderate decrease of reducing the herd by 30%-40%.

A Citizen Committee was established in 2011 and held numerous public meetings, researched and investigated the issue, conducted deer population counts, and eventually made recommendations to Council. One of the recommendations was to apply to the Province for a permit to harvest (cull) urban deer, and another recommendation was to establish an Urban Wildlife Management Advisory Committee. Council endorsed both of these recommendations.

The Province, based on the research conducted by this committee and District staff, issued the District a permit to cull deer and to process the meat for donation to local food banks.

## **Goals and Objectives**

To conduct our 2<sup>nd</sup> urban mule deer cull to further reduce the urban deer population in Elkford. We will make application for a permit to remove up to 50 mule deer. If possible, we will try and target males as we have noticed an increased percentage of males (especially during rut), as a result of the translocation project targeting mostly females.

## **Description – Project Area**

The project area will be similar to the 1<sup>st</sup> cull that was conducted in January 2014. The area will target residential neighbourhoods within Elkford municipal boundaries where deer populations are at high levels based on our most recent deer count (Nov. 10<sup>th</sup>).

## **Operation Plan**

Upon grant approval, the District will immediately make application to the Province for the permit to cull 50 deer by March 15, 2017. We will coordinate our equipment requirements (traps, bolt gun, etc.) with Irene Teske at the Province. We will contact Interior Health to update our procedures in handling the deer meat, and we will also put into place other aspects of the project (contractor etc.).

In addition to all of the conditions that will be outlined in the Ministry Permit to cull, the following procedures will be put into place:

Contractor calls and/or coordinates with the District or Butcher to notify of number of Deer to be brought out to s.15 Contractor will not cull unless he has confirmed butcher is available at Public Works or can be there in 15 minutes or less. Deer will be bled immediately as per the Permit and will be skinned and gutted within an hour of killing. Contractor drops Deer off at trailer with Butcher. Contractor helps Butcher hang Deer if required.

Trailer to be prepared as follows:

- Trailer, cleaned and sanitized (using a bleach solution) from previous use, is moved s.15 if not already there.
- Water hose is available for washing and cleanup. Hand wash soap and towels provided s.15
- Tarp and/or plastic draped on floor and partway up wall of trailer.
- Garbage Bags and tubs are ready to receive guts – lined to avoid contents freezing to can.
- Large Garbage can is placed just s.15 for hide.
- Carcass is gutted and skinned on the hook.
- Carcass is moved to Reefer after cleaning.
- Reefer is locked when finished and temperature is verified and recorded.
- Each time the reefer is loaded with a deer carcass, the butcher will verify the temperature on the external gauge provided.
- A thermometer will be installed inside the unit as well if not provided by the supplier and will be checked when deer are placed inside.

Trailer is then cleaned for next use as follows:

- Tarp and/or plastic is removed and discarded and/or cleaned with bleach/water solution.
- Trailer is pressure washed and cleaned with bleach water solution, including hooks and doors.
- All debris and refuse placed in garbage container outside door.
- Garbage container is allowed to freeze before transport s.15 to Transfer Station.
- Trailer is parked outside until next time it is required.

Butcher allows meat to hang in reefer an appropriate time before transporting to his facility for processing into ground meat. Meat will be transported using the reefer truck (preferred) or in a manner that the processing butcher deems appropriate ensuring cleanliness and speedy transport to processing facility. Ground meat is frozen and stored in Butchers Facility, Food Bank Freezers or District Freezer at Community Conference Centre if required before distribution to Food Banks. Refrigeration will be done in a manner that ensures adequate air flow between meat packages, to ensure rapid and complete freezing. District Freezer will be used only as a last resort, this freezer is in a facility that must have foods from approved



sources (i.e. inspected) at all times. If this freezer is used, the meat will be separated and clearly labeled that all products within must not be used by the users of the kitchen.

Labeling will meet the BC CDC Standards for Donation of Culled Game Meat i.e. "Not government inspected – not for resale". This is in addition to the 'Deer' and 'Ground' stamp that is already being placed on the meat.

### **Reporting/ Funding/ Budget**

The District acknowledges the commitment to reporting requirements through the grant program and any reporting required as a result of the cull permit.

As stated in our covering letter, we are requesting \$10,000 (50 deer x \$200) to support us in this project.

Budget is as follows:

<b>Expenses:</b>	
Contractor to undertake the cull	\$24,000
Butcher	3,000
Reefer Truck Rental	3,000
Supplies and Materials	1,500
Communication	500
<b>Total Expenses:</b>	<b>\$32,500</b>
<b>Revenue:</b>	
District of Elkford	\$22,500
Province of BC	10,000
<b>Total Revenue:</b>	<b>\$32,500</b>

### **Confirmations:**

The District of Elkford continues to look at alternatives to wildlife management within our community, and maintains a strong Urban Wildlife Management Advisory Committee that supports Council in these initiatives.

The District of Elkford confirms that we will comply with all applicable laws and bylaws associated with this project.

The District of Elkford confirms that the project will not proceed without the applicable permits being obtained.

Please find attached a resolution from Council in support of this project.



Wild at heart.

District of Elkford

816 Michel Road PO Box 340 Elkford, B.C. V0B 1H0  
P. 250.865.4000 • F. 250.865.4001 • info@elkford.ca • www.elkford.ca

November 22, 2016

Jeff Morgan  
Manager of Fish and Wildlife Policy  
Fish and Wildlife Branch  
jeff.morgan@gov.bc.ca

Dear Jeff:

**Re: 2016/2017 Provincial Urban Deer Cost-Share Program Application**

The District of Elkford is pleased to submit our grant application to conduct an urban mule deer cull under this program.

Please find attached supporting documentation to support our application. As you are aware, The District of Elkford has been a leader in the on-going urban deer translocation trial project, and while we continue to monitor the results from this pilot project, we still need to address the existing population of mule deer within our community. If successful with this application, we will immediately make application with the Province for a permit to cull 50 deer.

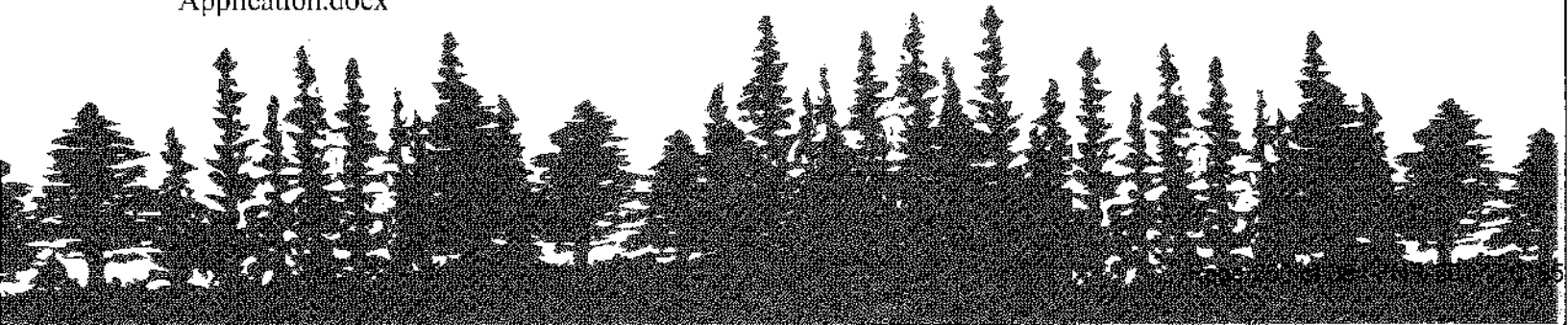
We are looking forward to a successful grant application request in the amount of \$10,000 to assist in the estimated cost of \$32,500 to cull 50 deer.

If you have any questions regarding our application, please contact myself directly at 250.865.4004.

Sincerely,

Curtis Helgeson  
CAO

H:\1855 Grants from Organizations\2017\2016 2017 Provincial Urban Deer Cost Share Grant Program - District of Elkford Application.docx





District of Elkford

816 Michel Road P.O. Box 340 Elkford, B.C. V0B 1H0  
P. 250.865.4000 • F. 250.865.4001 • info@elkford.ca • www.elkford.ca

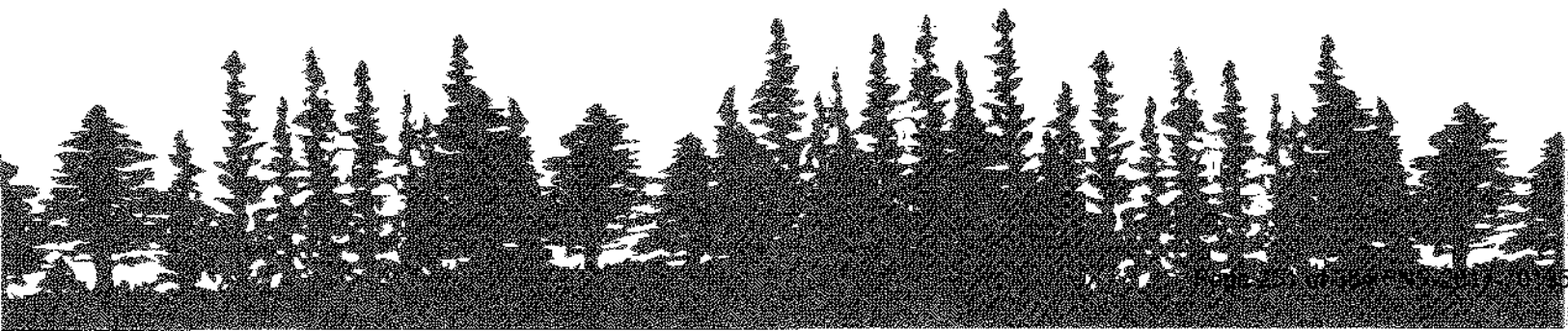
Excerpt from District of Elkford November 14, 2016 Regular Council meeting

# 18847 Moved, Seconded  
AND RESOLVED  
THAT the District of Elkford apply for the grant funding through the  
2016/17 Provincial Urban Deer Cost-Share Program to implement  
deer management techniques in Elkford.

**CARRIED**

Certified to be a true and correct copy of the resolution  
adopted at the District of Elkford November 14, 2016  
Regular Meeting of Council, dated this 22<sup>nd</sup> day of November, 2016.

  
Curtis Helgesen, Chief Administrative Officer



Page 252 to/à Page 329

Withheld pursuant to/removed as

DUPLICATE

## **Rosche, Kimberly FLNR:EX**

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Friday, November 25, 2016 1:32 PM  
**To:** 'Sara Dubois (sdubois@spca.bc.ca)'  
**Subject:** 2016-11-25 FW: application review  
**Attachments:** Cranbrook Translocation Trial Extension.pdf; 2017 Elkford Urban Deer Cull - Project Plan.pdf; Elkford Application - Cover Letter.pdf; Elkford Resolution - Grant Support.pdf; PUDOCSP\_Application Package\_GF.pdf; Urban Deer Management Project Plan 2016-17.pdf; Deer Management Funding Application - Oak Bayl.pdf; Urban Deer Cost-Share Program; Urban\_Deer\_Program-Program and Application Guide 2016.pdf

Sorry Sara,

See below.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, November 23, 2016 2:43 PM  
**To:** Paul de Leur ; Laurey Roodenburg ([lroodenburg@quesnel.ca](mailto:lroodenburg@quesnel.ca)); Sielecki, Leonard E TRAN:EX  
**Cc:** Teske, Irene FLNR:EX; Pendergast, Sean FLNR:EX  
**Subject:** application review

Hello All,

I'm sending this note on to you as 'PUDAC members who volunteered to participate in the review of the cost-share applications'. Please keep this information confidential for now.

So far we have received 5 applications to the Provincial Urban Deer Cost-Share Program (attached).

Cranbrook -\$19,900  
Elkford - \$10,000  
Invermere - \$12,000  
Grand Forks - \$16,000  
Oak Bay- \$20,000  
**Total - \$77,900**

The process timeline is as follows.....

**October 26, 2016:** Provincial Urban Deer Cost-Share Program's Call for proposals go out (for 2016/17 fiscal).

- **November 22, 2016:** Deadline for local governments or Indian Bands/First Nations to submit their project proposals.
- **November 28, 2016:** Provincial Urban deer Advisory Committee review of proposals completed.
- **December 2, 2016:** Branch notifies local governments or Indian Bands/First Nations of their available funding allotments (through 'agreements in principle').
- **December 16, 2016:** Branch enters into agreements with successful local governments or Indian Bands/First Nations.
- **March 15, 2017:** Deadline for local governments or Indian Bands/First Nations to submit invoices and project completion reports to the Branch.

Based on the fact that the five proposals easily fit within the \$100,000 that is available this year, I do not think we need to score or rank these proposals. That said, we do need to ensure they meet the eligibility requirements (found in the attached program guide). I will undertake this exercise but if you would like to review the proposals and provide me with your comments w.r.t. eligibility by this Friday, it would be appreciated. I will then collate all feedback and send back to you on Nov 28.

Please let me know if this slight modification to our process is not acceptable to you. And thanks in advance for any help you may provide.

Sincerely,

Jeff Morgan  
 Fish and Wildlife Branch - Policy Manager  
 Resource Stewardship Division  
 Ministry of Forests, Lands and Natural Resource Operations  
 Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

## Rosche, Kimberly FLNR:EX

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**From:** Sara Dubois <sdubois@spca.bc.ca>  
**Sent:** Monday, November 28, 2016 9:19 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** 2016-11-28 RE: application review

Hi Jeff,

The outstanding contingency questions I have for the cull projects in Grand Forks (white-tailed), Elkford (mule) and Invermere (mule) include:

- What happens if another deer species is trapped, will it be killed or released?
- Will females only be targeted and if so how (males let go)?

Also if municipalities have an enforceable feeding bylaw, can we request they report how many fines have been issued for feeding violations?

Invermere should also provide 2015 deer count data/summary report so that it can be compared to the 2014 data included.

Thanks,  
Sara

**Sara Dubois, PhD, RPBio**  
**Chief Scientific Officer**  
**Senior Manager, Scientific Programs**  
**BC SPCA**  
1245 East 7th Avenue  
Vancouver BC V5T 1R1  
604.647.6403 (office) • s.22 (cell)  
[sdubois@spca.bc.ca](mailto:sdubois@spca.bc.ca) • [spca.bc.ca](http://spca.bc.ca) • [wildarc.com](http://wildarc.com)



*OUR MISSION: To protect and enhance the quality of life for domestic, farm and wild animals in British Columbia.*

The BC SPCA is a not-for-profit organization reliant on donations from the public.  
Charitable Tax # BN 11881 9036 RR0001

This message and any attachments or links are for the sole use of the intended recipient(s) and may contain privileged

and confidential information. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please notify us immediately and destroy the original message. Thank you.

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**From:** Morgan, Jeff A FLNR:EX [<mailto:Jeff.Morgan@gov.bc.ca>]

**Sent:** Friday, November 25, 2016 1:33 PM

**To:** Sara Dubois

**Subject:** FW: application review

Sorry Sara,

See below.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Morgan, Jeff A FLNR:EX

**Sent:** Wednesday, November 23, 2016 2:43 PM

**To:** Paul de Leur ; Laurey Roodenburg ([lroodenburg@quesnel.ca](mailto:lroodenburg@quesnel.ca)); Sielecki, Leonard E TRAN:EX

**Cc:** Teske, Irene FLNR:EX; Pendergast, Sean FLNR:EX

**Subject:** application review

Hello All,

I'm sending this note on to you as 'PUDAC members who volunteered to participate in the review of the cost-share applications' . Please keep this information confidential for now.

So far we have received 5 applications to the Provincial Urban Deer Cost-Share Program (attached).

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Oak Bay- \$20,000  
**Total - \$77,900**

The process timeline is as follows.....

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- **December 16, 2016:** Branch enters into agreements with successful local governments or Indian Bands/First Nations.
- **March 15, 2017:** Deadline for local governments or Indian Bands/First Nations to submit invoices and project completion reports to the Branch.

Based on the fact that the five proposals easily fit within the \$100,000 that is available this year, I do not think we need to score or rank these proposals. That said, we do need to ensure they meet the eligibility requirements (found in the attached program guide). I will undertake this exercise but if you would like to review the proposals and provide me with your comments w.r.t. eligibility by this Friday, it would be appreciated. I will then collate all feedback and send back to you on Nov 28.

Please let me know if this slight modification to our process is not acceptable to you. And thanks in advance for any help you may provide.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

## Rosche, Kimberly FLNR:EX

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Monday, December 5, 2016 1:45 PM  
**To:** Thomas, Keith D FLNR:EX  
**Cc:** Ramsay, Mike K FLNR:EX  
**Subject:** 2016-12-05 FW: Summary of 2016/17 Provincial Urban deer Costs-Share Program Applications and Funding Recommendations  
**Attachments:** RE: application review

Hello Keith,

As per below, Mike Ramsay has approved the Cranbrook, Invermere, Granforks and Elkford projects.

I will work with Oak Bay to get their proposal into shape.

As per last year, can we rely on your group to get the transfers drafted?

The project details are below. Interestingly (and to save time):

- This year Cranbrook is assuming responsibility for managing the Translocation Research Trial that Elkford started.
- For its part....Elkford is initiating a cull in 2016/17.

Please let me know if you need all the proposals....

Community	Cranbrook	Oak Bay	Grand Forks	Invermere	Elkford
Category	Research	Research	Operational (cull)	Operational (cull)	Operational (cull)
Species	Mule Deer	Black-tailed deer	White-tailed deer	Mule and WTD	yes
address human-deer conflict in areas where the use of traditional (e.g. hunting) deer management techniques are not appropriate	yes	yes	yes	yes	yes
are consistent with objectives that have been developed through a community-based planning process	yes	yes	yes	yes	yes
have a resolution of support from the local government's council or board or Indian	yes	yes	yes	yes	yes

Band's/First Nation's chief and council					
are compliant with all applicable laws and by-laws and adequately manage all human safety, environmental and animal welfare risks	yes	yes	yes	yes	yes
are in accordance with a permit issued under the <i>Wildlife Act</i> <u>(or any other statute)</u>	yes	not yet	yes	yes	yes
are technically sound and feasible	yes	not yet	yes	yes	yes
are scientifically rigorous (if a research project)	yes	not yet	yes	yes	yes
commit to reporting	yes	yes	yes	yes	yes
provide matching funds (from the local government or Indian Band/First Nation or any partners)	yes	yes	yes	yes	
Project Goal relative to funding	Research Specific	Research Specific	80 deer cull * \$200=\$16,000	51 deer cull * \$200=\$16,000	50 deer cull * \$200=\$16,000
Funding Request	\$19,900	\$20,000	\$16,000	\$10,200	\$10,000
Recommendation/Action	approve	Request Change	approve	approve	approve

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Ramsay, Mike K FLNR:EX  
**Sent:** Monday, December 5, 2016 1:09 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Cc:** McNeill, Diana A FLNR:EX  
**Subject:** FW: Summary of 2016/17 Provincial Urban deer Costs-Share Program Applications and Funding Recommendations

These are approved to forward.

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Thursday, December 1, 2016 2:35 PM

To: Ramsay, Mike K FLNR:EX

Subject: Summary of 2016/17 Provincial Urban deer Costs-Share Program Applications and Funding Recommendations

Hello Mike,

In 2016 the Provincial Urban Deer Costs-Share Program Received 5 applications for funding to support urban deer management operations or research activities from Cranbrook, Elkford, Invermere, Grand Forks and Oak Bay. When combined the applications requested a total of \$76,100.

The process timeline is as follows.....

**October 26, 2016:** Provincial Urban Deer Cost-Share Program's Call for proposals go out (for 2016/17 fiscal).

- **November 22, 2016:** Deadline for local governments or Indian Bands/First Nations to submit their project proposals.
- **November 28, 2016:** Provincial Urban deer Advisory Committee review of proposals completed.
- **December 2, 2016:** Branch notifies local governments or Indian Bands/First Nations of their available funding allotments (through 'agreements in principle').
- **December 16, 2016:** Branch enters into agreements with successful local governments or Indian Bands/First Nations.
- **March 15, 2017:** Deadline for local governments or Indian Bands/First Nations to submit invoices and project completion reports to the Branch.

The five proposals easily fit within the \$100,000 that is available this year so the proposals were not scored or ranked. They were reviewed by the Provincial Urban Deer Advisory Committee's Project Review Subcommittee to ensure they met eligibility requirements. This document summarizes my review of the 5 projects and provides recommendations. A summary of the Project Review Subcommittee's feedback is also attached.

Community	Cranbrook	Oak Bay	Grand Forks	Invermere	Elkford
Category	Research	Research	Operational (cull)	Operational (cull)	Operational (cull)
Species	Mule Deer	Black-tailed deer	White-tailed deer	Mule and WTD	yes
address human-deer conflict in areas where the use of traditional (e.g. hunting) deer management techniques are not appropriate	yes	yes	yes	yes	yes
are consistent with objectives that have been developed through a community-based planning process	yes	yes	yes	yes	yes
have a resolution of support from the local government's council or board or Indian Band's/First Nation's chief and council	yes	yes	yes	yes	yes

are compliant with all applicable laws and by-laws and adequately manage all human safety, environmental and animal welfare risks	yes	yes	yes	yes	yes
are in accordance with a permit issued under the <i>Wildlife Act</i> ( <u>or any other statute</u> )	yes	not yet	yes	yes	yes
are technically sound and feasible	yes	not yet	yes	yes	yes
are scientifically rigorous (if a research project)	yes	not yet	yes	yes	yes
commit to reporting	yes	yes	yes	yes	yes
provide matching funds (from the local government or Indian Band/First Nation or any partners)	yes	yes	yes	yes	
Funding Request	\$19,900	\$20,000	\$16,000	\$10,200	\$10,000
Recommendation/Action	approve	Request Change	approve	approve	approve

Please consider approving the four projects that meet the eligibility requirements. I will work with Oak Bay to help them meet the criteria.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

## **Rosche, Kimberly FLNR:EX**

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Monday, November 28, 2016 4:45 PM  
**To:** 'Paul de Leur '; 'Laurey Roodenburg (lroodenburg@quesnel.ca)'; Sielecki, Leonard E  
TRAN:EX; Pendergast, Sean FLNR:EX; Teske, Irene FLNR:EX; Sara Dubois  
(sdubois@spca.bc.ca)  
**Subject:** RE: application review

Hello everyone,

5 applications to the Provincial Urban Deer Cost-Share Program were received.

Cranbrook -\$19,900  
Elkford - \$10,000  
Invermere - \$12,000  
Grand Forks - \$16,000  
Oak Bay- \$20,000  
**Total - \$77,900**

Based on the fact that the five proposals easily fit within the \$100,000 that is available, the proposals did not have to be scored or ranked. They do have to meet eligibility requirements. As a member of the Provincial Urban Deer Advisory Committee's 'Project Review Subcommittee' you were asked to provide comments relating to project eligibility. Your comments have been **summarized** and are tracked here.

### **Irene Teske, Wildlife Biologist, FLNR**

Oak Bay Proposal:

- Deer count budget is \$6000. All other communities use volunteers to count deer in communities using a very similar methodology. I suggest that this cost be reduced to \$1000 if they are paying for contractor to statically analyze or model count data. If only counting deer then cost should be \$0 like all other communities.
- If they immobilize deer they should take samples, document health and condition, and attach ear tags.
- Suggest they work very closely with the Provincial Veterinarian on all aspects of this project.

All other proposals appear good.

### **Sara Dubois, Senior Manager, Scientific Programs BCSPCA**

The outstanding contingency questions I have for the cull projects in Grand Forks (white-tailed), Elkford (mule) and Invermere (mule) include:

- What happens if another deer species is trapped, will it be killed or released?
- Will females only be targeted and if so how (males let go)?

Also if municipalities have an enforceable feeding bylaw, can we request they report how many fines have been issued for feeding violations?

Invermere should also provide 2015 deer count data/summary report so that it can be compared to the 2014 data included.

### **Paul de Leur, Manager, Road Improvement Program, ICBC**

I just completed a quick review of the 5 applications to PUDAC. I believe that they are consistent with the Program. 3 proposals are essentially culls (Elkford, Grand Forks and Invermere), one proposal involves tagging with transmitters + relocation (Cranbrook) and the final proposal involves sterilization (Oak Bay). It seems to me that the better projects from a research perspective are Cranbrook and Oak Bay, but the other 3 likely could have the greatest impact.

**Laurey-Anne Roodenburg, Councillor, City of Quesnel and President, North Central Local Government Association (NCLGA)**

Having read over Elkfords' application, the only thing I see is that they have not applied for the permits required yet. My understanding is that they had to have them in place at time of application.  
Great applications btw. Impressed with the work these communities are doing.

**Jeff Morgan, Policy Manager Fish and Wildlife Branch, FLNRO**

All projects generally meet the criteria requirements though some expenses (e.g. inventory may not be eligible). Most current, deficiencies should be easy to resolve with the communities.

One area of concern is the availability and efficacy of immunocontraceptive drugs. The project hinges on this and as such we will have to seek clarification. Otherwise research dollars (spent on preparation) could be stranded.

Please let me know if you disagree with any of the summaries.

I will work with the communities to improve the applications and provide clarifications around any details relating to the eligibility. It will then be up to the Director of the Fish and Wildlife Branch to determine how much will be spent on each project.

Thanks for your input.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

Page 341 to/à Page 342

Withheld pursuant to/removed as

DUPLICATE



## Rosche, Kimberly FLNR:EX

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**From:** Schwantje, Helen FLNR:EX  
**Sent:** Tuesday, December 6, 2016 11:22 AM  
**To:** Wilton, William FLNR:EX  
**Cc:** Pendergast, Sean FLNR:EX; Stalberg, Mike X FLNR:EX; Morgan, Jeff A FLNR:EX  
**Subject:** 2016-12-06 RE: PUDAC application

Jeff is dealing with this now and there will be more discussion. Thanks Billy.

---

**From:** Wilton, William FLNR:EX  
**Sent:** Tuesday, December 6, 2016 11:03 AM  
**To:** Schwantje, Helen FLNR:EX  
**Cc:** Pendergast, Sean FLNR:EX; Stalberg, Mike X FLNR:EX; Morgan, Jeff A FLNR:EX  
**Subject:** RE: PUDAC application

Hi Helen,

I have a couple of bullets here but I think that the tone of your email is pretty clear with or without them. Perhaps my questions have been answered at a different forum so my apologies if this has been covered elsewhere.

- Am I understanding this be a \$40k seed project whereby the proponent also wishes FLNR to provide \$20k plus an in-kind donation of the labour, equipment and drugs necessary to capture the deer? This seems like a huge investment given how little understanding is being demonstrated and how many corners look to be cut in the proposal.
- Why only collaring bucks if they only wish to target does for the immuno-treatment?
- Do I understand correctly that the proposal is to capture the deer at a time of year when it is more challenging... why not fall winter where it would be easier to attract them?
  - UWSS would like to commence the program in late spring/early summer. At this time of the year there are plenty of other food choices, making attracting the deer more challenging
- What time-frame is being proposed to capture 80-90% of the deer? Seems far-fetched even without a requirement to mark the deer.
- My impression is that contraceptive programs need to be coupled with population reduction programs to be effective? Is there a proposal to continue the population reduction work?
- Other than to try a new thing, what are the proponents trying to address for Oak Bay? How many years of treatments before the effects on the deer population are noticed by Oak Bay. Am I looking too far into the future?



**Billy Wilton**  
Wildlife Biologist | Fish & Wildlife Section  
Ministry of Forests, Lands and Natural Resource Operations  
(250) 751-3213

---

**From:** Schwantje, Helen FLNR:EX  
**Sent:** Tuesday, December 6, 2016 10:23 AM  
**To:** Pendergast, Sean FLNR:EX; Stalberg, Mike X FLNR:EX; Wilton, William FLNR:EX; Morgan, Jeff A FLNR:EX  
**Subject:** FW: PUDAC application

Good morning gentlemen  
This is what I am planning to send the Oak Bay group

Last chance for comments.

H

Hi Steves,

My apologies for the delay again in my reply. I've inserted answers in capitals below and hope that it clarifies things a bit better. Feel free to ask more.

Helen

**From:** Steve McKerrell s.22

**Sent:** Wednesday, November 23, 2016 2:27 PM

**To:** Schwantje, Helen FLNR:EX

**Cc:** 'Steve Huxter'

**Subject:** PUDAC application

Hi Helen,

Thanks for your note. I have delayed a response to you until we had time to gather as much news and information as possible. Much has happened since we last met and we would greatly value your thoughts and comments on any or all of the points below. Oak Bay council approved the proposal from UWSS and has applied for \$20K in matching funds through PUDAC. We had < a week to produce the proposal on our own so it's a bit cobbled together but hopefully adequate for the purpose. Needless to say, UWSS is quite excited about the possibility of helping to launch an immuno-contraceptive vaccination program in Oak Bay with the support of both the Province and the District. The benefits of a successful program are broad reaching for other communities with urban deer issues as well as potential scalability to other wildlife. I have tried to outline below the details and challenges of what UWSS has proposed in the PUDAC application.

GPS Tracking:

UWSS proposes attaching collars to 10 deer (5 bucks/5 does) within the District of Oak Bay for a period of up to 18-24 months. NOT SURE OF THE PURPOSE OF THE COLLARS, IS THIS FOR A MARK RECAPTURE STUDY TO ESTIMATE NUMBERS BETTER?

The proposed collar (Vectronic or equivalent) would use GPS tracking and would include a vhf controlled release so the animal would not need to be immobilized a 2<sup>nd</sup> time to retrieve the collar. The GPS tracking collars could remain the property of the province once the research portion of our project is complete.

Where we require advice and direction for the tracking program:

- Would the FLNRO help us to collar the animals through the engagement of Conservation Officers, and provide the requisite drugs? COS WILL NOT AS THIS IS NOT SOMETHING THEY HAVE THE MANPOWER FOR, WE HAVE A PRECEDENT THAT WILDLIFE WORKED WITH COMMUNITIES IN THE KOOTENAY REGION TO ASSIST THEIR TRANSLOCATION RESEARCH BUT THIS IS UP TO REGIONAL CAPACITY....
- Would you be game to be personally involved? I AM NOT PHYSICALLY ABLE THIS WINTER TO DO MUCH AND OUR REGIONAL CAPACITY IS LIMITED, ESPECIALLY SINCE THE BIOLOGISTS ALL LIVE IN NANAIMO BUT YOU CAN ASK THEM
- Is Telazol the drug of choice for this application and is it necessary to tag the animals "unfit for human consumption" after administration of the drug? THIS IS NOT AN APPROPRIATE DRUG COMBINATION BY ITSELF FOR DEER. YOU WILL NEED HELP TO DEVELOP A FULL RESEARCH PLAN FOR THE ANIMAL CARE AND HANDLING. IN ADDITION, DEER TREATED WITH VACCINES WILL NEVER BE SUITABLE FOR HUMAN CONSUMPTION, DEER DRUGGED MAY BE AFTER A DRUG APPROPRIATE WITHDRAWAL PERIOD

- If warning tagging is recommended is it a valid argument that, due to location within Oak Bay, it is extremely unlikely the treated deer would ever be hunted or food in the region; so perhaps we could get a waiver? NO, ALL MUST BE MARKED, THIS IS A LEGAL REQUIREMENT
- Or would it be possible to issue a formal Notice to Hunters that deer within the south west region of the CRD may have been treated with certain immobilization drugs whose safety is unknown? (How different is it from DFO's biotoxin closures?) NO
- Further it is believed that only the bucks roam any significant distance, so would it be reasonable to only tag the bucks? NO DATA THAT BUCKS ROAM SIGNIFICANT DISTANCES – SOME EARLY WORK IN NANAIMO WITH 1 – 5 MONTHS DATA ON BUCKS. THE PRELIMINARY RESULTS SHOW AN AVERAGE RANGE WIDTH OF 1.7 KM (0.8 TO 2.4 K) AND FOR 4 DOES, AN AVERAGE OF 1 KM (0.7 – 1.7 KM). OAK BAY MAY BE DIFFERENT BUT ITS UNLIKELY AND ONLY ONE WAY TO FIND OUT IE. TO COLLAR THEM.

#### Immuno-contraception:

Part of this years' PUDAC funding will help UWSS et al, decide which vaccine to propose for use in Oak Bay. There has been communication between UWSS and Wild Horses of Alberta Society (WHOAS) who currently has a 5 year MOU (attached) with the province of Alberta to vaccinate wild horses on open ranges in southern Alberta using a dart delivery method. They are using ZonaStat-H which they purchase directly from The Science and Conservation Centre in Montana; importing it on a Health Canada EDR. We have yet to establish if they required an ESC to undertake the vaccination program under which they have vaccinated 65+ horses to date. The Vet is Dr. Bruce Stover at U of Calgary ([bruce.stover@ucalgary.ca](mailto:bruce.stover@ucalgary.ca)). The vaccine appears to have a good track record with few contraindications other than the need to administer multiple doses.

THIS IS A VERY DIFFERENT SITUATION AS HORSES ARE NOT CONSIDERED FOR HUMAN CONSUMPTION, IN THIS CASE YOU NEED DEER INFORMATION AND IS IT FEASIBLE TO REPEAT THE DOSE IN DEER ON AN ANNUAL BASIS?  
IF A VET IS IMPORTING THE DRUG YOU DO NOT NEED A ESC, ONLY AN EDR

The options we have included in the PUDAC application are to use the ZonaStat-H as is, or have a local lab (IPA is going through and IPO, so they don't want their name on anything at this time; but they remain very interested) combine the raw PzP with a liposome rich aqueous adjuvant in an attempt to replicate what was believed to extend the efficacy of the immune-contraceptive to 3+ years. As you are aware, there is controversy that it may have been the impurities or even the effect of the Freund's (Incomplete or Complete) adjuvant that facilitated the extended contraception time. Either way, UWSS is proposing using the Pneu-Dart or equivalent with marker/injection darts delivered by an air projector, rather than trapping the animals and hand injecting the vaccine. THIS WILL NOT BE ADEQUATE DUE TO NEED FOR PERMANENT MARKING, AGAIN, DEER ARE CONSIDERED A FOOD ANIMAL  
IT IS UP TO YOU RE CHOICE, WE WOULD LIKE TO PROVIDE INPUT BUT YOU NEED TO BE PROVIDING THE PROS/CONS AND COSTING AND WHAT YOU WISH TO USE

The thought process on free range darting for your advice and direction:

- Clover trapping is effective although it is expensive (IT IS ONLY EXPENSIVE IN TIME), time consuming and only targets the animals who are attracted to the trap; capturing the same deer twice becomes more difficult (IF DEER IS ALREADY MARKED THEN BOOSTERS COULD BE GIVEN BY DART – IF THE MUNICIPALITY WILL ALLOW THIS). As well, during the 2015 cull operation, raccoons and rats were tripping the clover traps, requiring resetting and lost opportunities for a capture.
- UWSS would like to commence the program in late spring/early summer. At this time of the year there are plenty of other food choices, making attracting the deer more challenging
  - A well designed darting program would significantly increase the % of treated animals hoping to reach 80-90%; bucks in traps are a waste of time, money and add risk to both the animal and humans. DESIGN A PROGRAM, BUT IS IT OK WITH THE MUNICIPALITY?

- Darting would better support a multiple dosing program, if required, and would lower the cost from \$1000/doe to
- The darts would use a marking dye to identify already treated does. DOES MUST BE PERMANENTLY MARKED, DYE IS NOT PERMANENT
- The big hurdle is getting Health Canada to accept the EPA toxicology position (attached) on tagging the treated doe “unfit for human consumption” after administration of the immune-contraceptive SORRY, THEY WILL NOT BE SUITABLE FOR HUMAN CONSUMPTION – WOULD YOU EAT?
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I AM NOT CLEAR WHAT YOUR PLAN IS – YOU MUST CATCH AND PERMANENTLY MARK ANY TREATED ANIMALS FOR THE FIRST DOSE

If any of the above work is going to take place, we would also need (appreciate) the support of PUDAC, FLNRO and other provincial ministries to secure the requisite permits: General Wildlife and Animal Care, EDR, ESC (if required), etc. I have decades of experience with Health Canada on the consumer OTC side, but have no contacts at VDD

AS THE PROPONENT, YOU NEED TO WRITE AND APPLY FOR THE PERMITS, PERSONAL CONTACTS WITH HEALTH CANADA/VDD ARE NOT USEFUL, THE PROCESS IS THE PROCESS - AS WAS DONE IN THE KOOTENAYS WHERE A BIOLOGIST WAS HIRED TO MANAGE THE TRANSLOCATION PROJECT

I realize this is a lot to digest, however once you have had a chance to consider the material, we would love to get your take on what is being proposed. We would be happy to provide lunch at Glo in trade for some of your wisdom, at your convenience.

Many thanks,

Cheers,  
Steve

## **Rosche, Kimberly FLNR:EX**

---

**From:** Schwantje, Helen FLNR:EX  
**Sent:** Tuesday, December 6, 2016 10:23 AM  
**To:** Pendergast, Sean FLNR:EX; Stalberg, Mike X FLNR:EX; Wilton, William FLNR:EX; Morgan, Jeff A FLNR:EX  
**Subject:** 2016-12-06 FW: PUDAC application

Good morning gentlemen  
This is what I am planning to send the Oak Bay group

Last chance for comments.

H

Hi Steves,  
My apologies for the delay again in my reply. I've inserted answers in capitals below and hope that it clarifies things a bit better. Feel free to ask more.  
Helen

**From:** Steve McKerrell s.22  
**Sent:** Wednesday, November 23, 2016 2:27 PM  
**To:** Schwantje, Helen FLNR:EX  
**Cc:** 'Steve Huxter'  
**Subject:** PUDAC application

Hi Helen,

Thanks for your note. I have delayed a response to you until we had time to gather as much news and information as possible. Much has happened since we last met and we would greatly value your thoughts and comments on any or all of the points below. Oak Bay council approved the proposal from UWSS and has applied for \$20K in matching funds through PUDAC. We had < a week to produce the proposal on our own so it's a bit cobbled together but hopefully adequate for the purpose. Needless to say, UWSS is quite excited about the possibility of helping to launch an immuno-contraceptive vaccination program in Oak Bay with the support of both the Province and the District. The benefits of a successful program are broad reaching for other communities with urban deer issues as well as potential scalability to other wildlife. I have tried to outline below the details and challenges of what UWSS has proposed in the PUDAC application.

GPS Tracking:

UWSS proposes attaching collars to 10 deer (5 bucks/5 does) within the District of Oak Bay for a period of up to 18-24 months. NOT SURE OF THE PURPOSE OF THE COLLARS, IS THIS FOR A MARK RECAPTURE STUDY TO ESTIMATE NUMBERS BETTER?

The proposed collar (Vectronic or equivalent) would use GPS tracking and would include a vhf controlled release so the animal would not need to be immobilized a 2<sup>nd</sup> time to retrieve the collar. The GPS tracking collars could remain the property of the province once the research portion of our project is complete.

Where we require advice and direction for the tracking program:

- Would the FLNRO help us to collar the animals through the engagement of Conservation Officers, and provide the requisite drugs? COS WILL NOT AS THIS IS NOT SOMETHING THEY HAVE THE MANPOWER FOR, WE HAVE A PRECEDENT THAT WILDLIFE WORKED WITH COMMUNITIES IN THE KOOTENAY REGION TO ASSIST THEIR TRANSLOCATION RESEARCH BUT THIS IS UP TO REGIONAL CAPACITY....
- Would you be game to be personally involved? I AM NOT PHYSICALLY ABLE THIS WINTER TO DO MUCH AND OUR REGIONAL CAPACITY IS LIMITED, ESPECIALLY SINCE THE BIOLOGISTS ALL LIVE IN NANAIMO BUT YOU CAN ASK THEM
- Is Telazol the drug of choice for this application and is it necessary to tag the animals “unfit for human consumption” after administration of the drug? THIS IS NOT AN APPROPRIATE DRUG COMBINATION BY ITSELF FOR DEER. YOU WILL NEED HELP TO DEVELOP A FULL RESEARCH PLAN FOR THE ANIMAL CARE AND HANDLING. IN ADDITION, DEER TREATED WITH VACCINES WILL NEVER BE SUITABLE FOR HUMAN CONSUMPTION, DEER DRUGGED MAY BE AFTER A DRUG APPROPRIATE WITHDRAWAL PERIOD
- If warning tagging is recommended is it a valid argument that, due to location within Oak Bay, it is extremely unlikely the treated deer would ever be hunted or food in the region; so perhaps we could get a waiver? NO, ALL MUST BE MARKED, THIS IS A LEGAL REQUIREMENT
- Or would it be possible to issue a formal Notice to Hunters that deer within the south west region of the CRD may have been treated with certain immobilization drugs whose safety is unknown? (How different is it from DFO’s biotoxin closures?) NO
- Further it is believed that only the bucks roam any significant distance, so would it be reasonable to only tag the bucks? NO DATA THAT BUCKS ROAM SIGNIFICANT DISTANCES – SOME EARLY WORK IN NANAIMO WITH 1 – 5 MONTHS DATA ON BUCKS. THE PRELIMINARY RESULTS SHOW AN AVERAGE RANGE WIDTH OF 1.7 KM (0.8 TO 2.4 K) AND FOR 4 DOES, AN AVERAGE OF 1 KM (0.7 – 1.7 KM). OAK BAY MAY BE DIFFERENT BUT ITS UNLIKELY AND ONLY ONE WAY TO FIND OUT IE. TO COLLAR THEM.

#### Immuno-contraception:

Part of this years’ PUDAC funding will help UWSS et al, decide which vaccine to propose for use in Oak Bay. There has been communication between UWSS and Wild Horses of Alberta Society (WHOAS) who currently has a 5 year MOU (attached) with the province of Alberta to vaccinate wild horses on open ranges in southern Alberta using a dart delivery method. They are using ZonaStat-H which they purchase directly from The Science and Conservation Centre in Montana; importing it on a Health Canada EDR. We have yet to establish if they required an ESC to undertake the vaccination program under which they have vaccinated 65+ horses to date. The Vet is Dr. Bruce Stover at U of Calgary ([bruce.stover@ucalgary.ca](mailto:bruce.stover@ucalgary.ca)). The vaccine appears to have a good track record with few contraindications other than the need to administer multiple doses.

THIS IS A VERY DIFFERENT SITUATION AS HORSES ARE NOT CONSIDERED FOR HUMAN CONSUMPTION, IN THIS CASE YOU NEED DEER INFORMATION AND IS IT FEASIBLE TO REPEAT THE DOSE IN DEER ON AN ANNUAL BASIS?  
IF A VET IS IMPORTING THE DRUG YOU DO NOT NEED A ESC, ONLY AN EDR

The options we have included in the PUDAC application are to use the ZonaStat-H as is, or have a local lab (IPA is going through and IPO, so they don’t want their name on anything at this time; but they remain very interested) combine the raw PzP with a liposome rich aqueous adjuvant in an attempt to replicate what was believed to extend the efficacy of the immune-contraceptive to 3+ years. As you are aware, there is controversy that it may have been the impurities or even the effect of the Freund’s (Incomplete or Complete) adjuvant that facilitated the extended contraception time. Either way, UWSS is proposing using the Pneu-Dart or equivalent with marker/injection darts delivered by an air projector, rather than trapping the animals and hand injecting the vaccine. THIS WILL NOT BE ADEQUATE DUE TO NEED FOR PERMANENT MARKING, AGAIN, DEER ARE CONSIDERED A FOOD ANIMAL  
IT IS UP TO YOU RE CHOICE, WE WOULD LIKE TO PROVIDE INPUT BUT YOU NEED TO BE PROVIDING THE PROS/CONS AND COSTING AND WHAT YOU WISH TO USE

The thought process on free range darting for your advice and direction:

- Clover trapping is effective although it is expensive (IT IS ONLY EXPENSIVE IN TIME), time consuming and only targets the animals who are attracted to the trap; capturing the same deer twice becomes more difficult (IF DEER IS ALREADY MARKED THEN BOOSTERS COULD BE GIVEN BY DART – IF THE MUNICIPALITY WILL ALLOW THIS). As well, during the 2015 cull operation, raccoons and rats were tripping the clover traps, requiring resetting and lost opportunities for a capture.
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I realize this is a lot to digest, however once you have had a chance to consider the material, we would love to get your take on what is being proposed. We would be happy to provide lunch at Glo in trade for some of your wisdom, at your convenience.

Many thanks,

Cheers,  
 Steve

## **Rosche, Kimberly FLNR:EX**

---

**From:** Christensen, Tracy E FLNR:EX  
**Sent:** Wednesday, December 7, 2016 11:44 AM  
**To:** Trotter, Ward FLNR:EX; Morgan, Jeff A FLNR:EX; Ramsay, Mike K FLNR:EX  
**Cc:** McNeill, Diana A FLNR:EX; Di Georgio, Alexis FLNR:EX  
**Subject:** 2016-12-07 226186 IN - Urban Deer Cost-share funding  
**Attachments:** 226186 IN Urban Deer Cost Share Update.docx

Try this!

---

**From:** Trotter, Ward FLNR:EX  
**Sent:** Wednesday, December 7, 2016 11:24 AM  
**To:** Morgan, Jeff A FLNR:EX; Christensen, Tracy E FLNR:EX  
**Cc:** McNeill, Diana A FLNR:EX  
**Subject:** RE: RUSH IN - Urban Deer Cost-share funding

Thanks Jeff.

Diana/Tracy once you have completed this in FWB can you send to ADMO and I will look at it at that point.  
Note—the note below went to Health...

Thanks again,

ward

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, December 7, 2016 10:49 AM  
**To:** Christensen, Tracy E FLNR:EX  
**Cc:** McNeill, Diana A FLNR:EX; Trotter, Ward FLNR:EX; Ramsay Cline, Karen HLTH:EX  
**Subject:** RUSH IN - Urban Deer Cost-share funding

Hello Tracy,

Could you please assign a Cliff # and get this into the system immediately.

I'm hoping we can get this in front of the Minister by end of day tomorrow.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000



**MINISTRY OF FORESTS, LANDS AND NATURAL RESOURCE OPERATIONS  
INFORMATION NOTE**

Date: December 7, 2016

File: 280-20

CLIFF: 226186

Previous CLIFF: 223656

**PREPARED FOR: Honourable Steve Thomson, Minister of Forests, Lands and Natural Resource Operations**

**ISSUE:** Update on the Delivery of the Provincial Urban Deer Cost-Share Program

**BACKGROUND:**

In January of 2015, the Provincial Government and the Union of BC Municipalities (UBCM) collaborated in the delivery of an Urban Deer Workshop. This led to the creation of Provincial Urban Deer Advisory Committee (PUDAC) and to a Provincial Urban Deer Operational Cost-Share (PUDOCS) Program. Under the PUDOCS Program, the Ministry of Forests, Lands and Natural Resource Operations agreed to make \$100,000/year available to local governments (municipalities, regional districts and Indian Bands) in order to share in the costs of operational deer management activities.

Under the Provincial Urban Deer Cost-Share Program, the provincial government is supporting eligible communities that are engaged in projects that focus on deer culls and research into population control methods such as relocation and immuno-contraception.

In 2015/16 an *Interim* Urban Deer Operational Cost-share Program was implemented to expeditiously support 'shovel ready' projects and it paid out \$4,000 to support the removal (culling) of 20 deer in Cranbrook and \$1,800 to support the removal of 9 deer in Invermere. An additional \$26,000 was provided to Elkford support its research trial which resulted in the capture and translocation of 60 deer from four communities (Elkford, Cranbrook, Kimberley and Invermere).

**DISCUSSION:**

In 2016/17 five communities have applied for PUDOCS funding support. They were then reviewed by the Provincial Urban Deer Advisory Committee's 'Review Subcommittee' and found to meet the program's criteria.

Upon further internal review, four of the applications can be approved for immediate funding. Successful grant applicants for this round of funding are Invermere, Grand Forks, Elkford and Cranbrook.

Grand Forks will receive \$16,000 to cull 80 deer, Invermere will receive \$10,200 to cull 51 deer and Elkford will receive \$10,000 to cull 50 deer. Cranbrook will receive a \$19,900 grant that will be used to study the feasibility of relocating urban deer. Cranbrook's project will carry on research that Elkford initiated last year.

A fifth application, from Oak Bay, involves the use of immuno-contraceptive drugs designed to prevent deer from reproducing. This is a complex undertaking that requires further research into the availability of drugs and careful planning to ensure the drugs are delivered in a humane and effective way. That stated, and as the District of Oak Bay has proposed, preliminary work could go into researching deer movements and population dynamics in Oak Bay and ministry staff have reached out to the District to refine the proposal with this focus in mind.

#### **NEXT STEPS:**

The Ministry's call for proposals was issued October 26. Grant agreements with the successful applicants will be notified by the end of this week (December 9) and 'shared cost arrangements' are scheduled to be finalized in early January. Project completion reports from the recipients are due on or before March 17, 2016.

This program is slated for discussion at the Minister's Round Table on Tuesday, December 13, 2016.

**Contact:**

*ADM: Tom Ethier  
Div: RSD  
Phone: (250) 356-0972*

**Alternate Contact:**

*Name: Mike Ramsay  
Div/Branch: RSD/ F&W  
Phone: (250) 387-3637*

**Prepared by:**

*Name: Jeff Morgan  
Branch: F&W  
Phone (250) 851-9862*

Reviewed by	Initials	Date
DM		
DMO		
A/ADM		
EXEC DIR		
PRGM Dir./Mgr.	JF	Dec 7/16

## **Rosche, Kimberly FLNR:EX**

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Wednesday, December 7, 2016 11:04 AM  
**To:** Ramsay, Mike K FLNR:EX  
**Subject:** 2016-12-07 FW: RUSH IN - Urban Deer Cost-share funding  
**Attachments:** IN Provincial Urban Deer Cost-Share Program Update.docx

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

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**Sent:** Wednesday, December 7, 2016 10:49 AM  
**To:** Christensen, Tracy E FLNR:EX  
**Cc:** McNeill, Diana A FLNR:EX; Trotter, Ward FLNR:EX; Ramsay Cline, Karen HLTH:EX  
**Subject:** RUSH IN - Urban Deer Cost-share funding

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**MINISTRY OF FORESTS, LANDS AND NATURAL RESOURCE OPERATIONS  
INFORMATION NOTE**

Date: December 7, 2016

File: 280-20

CLIFF: ????????

Previous CLIFF: 223656

**PREPARED FOR: Honourable Steve Thomson, Minister of Forests, Lands and Natural Resource Operations**

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**Contact:**

*ADM: Tom Ethier  
Div: RSD  
Phone: (250) 356-0972*

**Alternate Contact:**

*Name: Mike Ramsay  
Div/Branch: RSD/ F&W  
Phone: (250) 387-3637*

**Prepared by:**

*Name: Jeff Morgan  
Branch: F&W  
Phone (250) 851-9862*

Reviewed by	Initials	Date
DM		
DMO		
A/ADM		
EXEC DIR		
PRGM Dir./Mgr.		

## Rosche, Kimberly FLNR:EX

---

**From:** Kristy s.22  
**Sent:** Wednesday, December 7, 2016 10:53 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Cc:** wjones@oakbay.ca  
**Subject:** 2016-12-07 FW: Urban Deer Grant Application

Hello Jeff!

Thanks very much for the information that you sent to Warren which he has forwarded on to me.

Your advice is very helpful – as you know, we had little time to pull the application together and so we are quite happy to re-profile the proposal. I am sure we will want to discuss it further with you and appreciate your willingness to participate in a meeting.

The UWSS board is meeting tomorrow (Thursday) night and we will get back to you and Warren very soon to discuss how best to move forward.

Thanks again Jeff,

Kristy Kilpatrick

---

**From:** Morgan, Jeff A FLNR:EX [<mailto:Jeff.Morgan@gov.bc.ca>]  
**Sent:** December-05-16 4:08 PM  
**To:** Warren Jones  
**Subject:** RE: Urban Deer Grant Application

Hello Warren,

Your assumption is not accurate. I have reviewed your proposal and discussed it with FLNR's technical staff and I have some concerns with the proposal (as it is currently written) but am confident we can modify the proposal so that the District of Oak Bay can access PUDOCs funding this fiscal.

The basic concerns are:

1. PUDOCs does not fund inventory or local-level education, and
2. The availability of immunocontraceptives is still somewhat uncertain and this places the immediate funding (16/17) at some risk.

From a funding perspective, I believe the circumstance could be resolved by reworking your proposal and converting your deer movement (collaring) and your density/population modelling (counts and collaring) components into stand-alone research projects with their own research questions.

Please work with the UWSS to re-profile the proposal to address the above concerns (I am more than willing to discuss this or participate in any meeting you may arrange). In the meantime funding remains within the program and I look forward to working with you on this project.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Warren Jones [<mailto:WJones@oakbay.ca>]

**Sent:** Monday, December 5, 2016 10:06 AM

**To:** Morgan, Jeff A FLNR:EX

**Subject:** Urban Deer Grant Application

Hi Jeff,

As you are aware the District of Oak Bay has applied to the Province for a \$20,000 matching grant for our Urban Deer Program. The application materials suggest that applicants were to be notified on December 2<sup>nd</sup> if they were to receive any funding. We in Oak Bay do not appear to have been notified so am I correct in assuming that our application was unsuccessful? Thanks for your help.

Warren

Warren Jones  
Director of Corporate Services  
District of Oak Bay  
2167 Oak Bay Avenue  
Oak Bay, BC V8R 1G2

## Rosche, Kimberly FLNR:EX

---

**From:** Curtis Helgesen <chelgesen@elkford.ca>  
**Sent:** Wednesday, December 7, 2016 7:21 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** 2016-12-07 RE: New Intake - UBCM Deer Funding

Hi Jeff,

Any decision time frame or update on the urban deer grant program.

Thanks,

**Curtis Helgesen**  
**Chief Administrative Officer**  
**Director, Financial Services**  
District of Elkford  
PO Box 340  
Elkford, BC V0B 1H0  
Direct: 250.865.4004  
Phone: 250.865.4000  
Fax: 250.865.4001  
Cell: s.22  
email: [chelgesen@elkford.ca](mailto:chelgesen@elkford.ca)  
[www.elkford.ca](http://www.elkford.ca)



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**From:** Morgan, Jeff A FLNR:EX [<mailto:Jeff.Morgan@gov.bc.ca>]  
**Sent:** Wednesday, October 26, 2016 3:02 PM  
**To:** Curtis Helgesen  
**Subject:** RE: New Intake - UBCM Deer Funding

I'm around....

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000



---

**From:** Curtis Helgesen [<mailto:chelgesen@elkford.ca>]  
**Sent:** Wednesday, October 26, 2016 2:00 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** RE: New Intake - UBCM Deer Funding

I'm just expecting a meeting in a minute but will try you right after.

Thx

**Curtis Helgesen**  
**Chief Administrative Officer**  
**Director, Financial Services**  
District of Elkford  
PO Box 340  
Elkford, BC V0B 1H0  
Direct: 250.865.4004  
Phone: 250.865.4000  
Fax: 250.865.4001  
Cell: s.22  
email: [chelgesen@elkford.ca](mailto:chelgesen@elkford.ca)  
[www.elkford.ca](http://www.elkford.ca)



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---

**From:** Morgan, Jeff A FLNR:EX [<mailto:Jeff.Morgan@gov.bc.ca>]  
**Sent:** Wednesday, October 26, 2016 2:58 PM  
**To:** Curtis Helgesen  
**Subject:** RE: New Intake - UBCM Deer Funding

Hi Curtis----I can talk right now.

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Curtis Helgesen [<mailto:chelgesen@elkford.ca>]  
**Sent:** Wednesday, October 26, 2016 1:57 PM

**To:** Morgan, Jeff A FLNR:EX  
**Subject:** New Intake - UBCM Deer Funding

Hi Jeff,

I was wondering what your availability might be for a few questions on a fence we are contemplating to manage the populations here in Elkford.

Let me know.

Thanks,

**Curtis Helgesen**  
**Chief Administrative Officer**  
**Director, Financial Services**

District of Elkford  
PO Box 340  
Elkford, BC V0B 1H0  
Direct: 250.865.4004  
Phone: 250.865.4000  
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Cell: s.22  
email: [chelgesen@elkford.ca](mailto:chelgesen@elkford.ca)  
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## Rosche, Kimberly FLNR:EX

---

**From:** Curtis Helgesen <chelgesen@elkford.ca>  
**Sent:** Thursday, December 8, 2016 3:25 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** 2016-12-08 RE: Grant Application

Yes

**Curtis Helgesen**  
**Chief Administrative Officer**  
**Director, Financial Services**  
District of Elkford  
PO Box 340  
Elkford, BC V0B 1H0  
Direct: 250.865.4004  
Phone: 250.865.4000  
Fax: 250.865.4001  
Cell: 5.22  
email: [chelgesen@elkford.ca](mailto:chelgesen@elkford.ca)  
[www.elkford.ca](http://www.elkford.ca)



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**From:** Morgan, Jeff A FLNR:EX [mailto:Jeff.Morgan@gov.bc.ca]  
**Sent:** Thursday, December 08, 2016 4:24 PM  
**To:** Curtis Helgesen  
**Subject:** RE: Grant Application

No problem.

I assume you will be the contact/signing authority?

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Curtis Helgesen [<mailto:chelgesen@elkford.ca>]  
**Sent:** Thursday, December 8, 2016 3:15 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** RE: Grant Application

Thanks Jeff!

Much appreciated having the heads up.

Curtis

**Curtis Helgesen**  
**Chief Administrative Officer**  
**Director, Financial Services**  
District of Elkford  
PO Box 340  
Elkford, BC V0B 1H0  
Direct: 250.865.4004  
Phone: 250.865.4000  
Fax: 250.865.4001  
Cell s.22  
email: [chelgesen@elkford.ca](mailto:chelgesen@elkford.ca)  
[www.elkford.ca](http://www.elkford.ca)



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---

**From:** Morgan, Jeff A FLNR:EX [<mailto:Jeff.Morgan@gov.bc.ca>]  
**Sent:** Thursday, December 08, 2016 4:03 PM  
**To:** Curtis Helgesen  
**Subject:** RE: Grant Application

Hi Curtis,

FYI, government will be releasing an information bulletin on this in the morning.

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Thursday, December 8, 2016 2:56 PM  
**To:** 'Curtis Helgesen'  
**Subject:** RE: Grant Application

Hello Curtis,

Thank you for this application. I'm happy to report that the Fish and Wildlife Branch will be in a position to fund your application up to the requested amount (\$10,000).

I will contact you next week so that we can be in a position to draft up a shared cost agreement.

Thanks again for your efforts. I look forward to discussing your project with you next week.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Curtis Helgesen [<mailto:chelgesen@elkford.ca>]  
**Sent:** Tuesday, November 22, 2016 3:14 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** Grant Application

Hi Jeff,

As per my earlier email, please find attached the District's grant application to conduct a cull.

Let me know if you need more information. I hope I have covered everything.

Thanks,

**Curtis Helgesen**  
**Chief Administrative Officer**  
**Director, Financial Services**  
District of Elkford  
PO Box 340  
Elkford, BC V0B 1H0  
Direct: 250.865.4004  
Phone: 250.865.4000  
Fax: 250.865.4001  
Cell: s.22  
email: [chelgesen@elkford.ca](mailto:chelgesen@elkford.ca)



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## Rosche, Kimberly FLNR:EX

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**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Thursday, December 8, 2016 2:26 PM  
**To:** 'Kristy'  
**Subject:** 2016-12-08 RE: Urban Deer Grant Application

Hi Kristy,

Thank you for taking the advice in the spirit which was intended. s.22

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Kristy s.22  
**Sent:** Wednesday, December 7, 2016 10:53 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Cc:** [wjones@oakbay.ca](mailto:wjones@oakbay.ca)  
**Subject:** FW: Urban Deer Grant Application

Hello Jeff!

Thanks very much for the information that you sent to Warren which he has forwarded on to me.

Your advice is very helpful – as you know, we had little time to pull the application together and so we are quite happy to re-profile the proposal. I am sure we will want to discuss it further with you and appreciate your willingness to participate in a meeting.

The UWSS board is meeting tomorrow (Thursday) night and we will get back to you and Warren very soon to discuss how best to move forward.

Thanks again Jeff,

Kristy Kilpatrick

---

**From:** Morgan, Jeff A FLNR:EX [<mailto:Jeff.Morgan@gov.bc.ca>]  
**Sent:** December-05-16 4:08 PM  
**To:** Warren Jones <[WJones@oakbay.ca](mailto:WJones@oakbay.ca)>  
**Subject:** RE: Urban Deer Grant Application

Hello Warren,

Your assumption is not accurate. I have reviewed your proposal and discussed it with FLNR's technical staff and I have some concerns with the proposal (as it is currently written) but am confident we can modify the proposal so that the District of Oak Bay can access PUDOCs funding this fiscal.

The basic concerns are:

1. PUDOCs does not fund inventory or local-level education, and
2. The availability of immunocontraceptives is still somewhat uncertain and this places the immediate funding (16/17) at some risk.

From a funding perspective, I believe the circumstance could be resolved by reworking your proposal and converting your deer movement (collaring) and your density/population modelling (counts and collaring) components into stand-alone research projects with their own research questions.

Please work with the UWSS to re-profile the proposal to address the above concerns (I am more than willing to discuss this or participate in any meeting you may arrange). In the meantime funding remains within the program and I look forward to working with you on this project.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Warren Jones [<mailto:WJones@oakbay.ca>]  
**Sent:** Monday, December 5, 2016 10:06 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** Urban Deer Grant Application

Hi Jeff,

As you are aware the District of Oak Bay has applied to the Province for a \$20,000 matching grant for our Urban Deer Program. The application materials suggest that applicants were to be notified on December 2<sup>nd</sup> if they were to receive any funding. We in Oak Bay do not appear to have been notified so am I correct in assuming that our application was unsuccessful? Thanks for your help.

Warren

Warren Jones  
Director of Corporate Services  
District of Oak Bay  
2167 Oak Bay Avenue  
Oak Bay, BC V8R 1G2



## **Rosche, Kimberly FLNR:EX**

---

**From:** Susan King <Susan.King@cranbrook.ca>  
**Sent:** Thursday, December 8, 2016 4:14 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** 2016-12-08 RE: Urban Deer Translocation Trial Extension application

You can use me as the contact.

---

**From:** Morgan, Jeff A FLNR:EX [mailto:Jeff.Morgan@gov.bc.ca]  
**Sent:** Thursday, December 8, 2016 4:55 PM  
**To:** Susan King  
**Subject:** RE: Urban Deer Translocation Trial Extension application

Thank you!

Who will be the contact?

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Susan King [mailto:Susan.King@cranbrook.ca]  
**Sent:** Thursday, December 8, 2016 3:40 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Cc:** Chris Zettel  
**Subject:** RE: Urban Deer Translocation Trial Extension application

Hi Jeff – thanks for the good news and the funding!

David Kim, CAO for the City of Cranbrook will be the signing authority.

Susan

**Susan King,**  
A/ Financial Analyst City of Cranbrook

Phone: (250) 489-0228 / Fax: (250) 426-4026  
Email: [king@cranbrook.ca](mailto:king@cranbrook.ca)  
[www.cranbrook.ca](http://www.cranbrook.ca)

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**From:** Morgan, Jeff A FLNR:EX [<mailto:Jeff.Morgan@gov.bc.ca>]  
**Sent:** Thursday, December 8, 2016 4:25 PM  
**To:** Susan King <[Susan.King@cranbrook.ca](mailto:Susan.King@cranbrook.ca)>  
**Cc:** Chris Zettel <[Chris.Zettel@cranbrook.ca](mailto:Chris.Zettel@cranbrook.ca)>  
**Subject:** RE: Urban Deer Translocation Trial Extension application

Hello Susan and Chris,

Who will be the contact/signing authority?

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Thursday, December 8, 2016 3:08 PM  
**To:** 'Susan King'  
**Cc:** Chris Zettel  
**Subject:** RE: Urban Deer Translocation Trial Extension application

Hello Susan,

Thank you for this application. I'm happy to report that the Fish and Wildlife Branch will be in a position to fund your application up to the requested amount (\$19,900).

I will contact you next week so that we can be in a position to draft up a shared cost agreement.

FYI, government will be releasing an information bulletin on this in the morning.

Thanks again for your efforts. I look forward to discussing your project with you next week.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Susan King [<mailto:Susan.King@cranbrook.ca>]  
**Sent:** Tuesday, November 22, 2016 9:14 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Cc:** Chris Zettel; Susan King  
**Subject:** Urban Deer Translocation Trial Extension application  
**Importance:** High

Good morning,

Attached, please find the application package for Phase 2 of the East Kootenay Urban Mule Deer Translocation Trial Extension. If any additional information is required, please let me know.

Thank you,  
Susan

***Susan King,***  
A/ Financial Analyst City of Cranbrook

Phone: (250) 489-0228 / Fax: (250) 426-4026  
Email: [king@cranbrook.ca](mailto:king@cranbrook.ca)  
[www.cranbrook.ca](http://www.cranbrook.ca)

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**Rosche, Kimberly FLNR:EX**

---

**From:** Thomas, Keith D FLNR:EX  
**Sent:** Thursday, December 8, 2016 8:30 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** 2016-12-08 Urban Deer SCA info needed

Jeff  
Who will be the contact\signing authority for each of these municipalities?

Community	Cranbrook	Oak Bay	Grand Forks	Invermere	Elkford
Category	Research	Research	Operational (cull)	Operational (cull)	Operational (cull)
Project Goal relative to funding	Research	Research	80 deer cull * \$200=\$16,000	51 deer cull * \$200=\$16,000	50 deer cull * \$200=\$16,000
Funding Request	\$19,900	\$20,000	\$16,000	\$10,200	\$10,000

## Rosche, Kimberly FLNR:EX

---

**From:** Teske, Irene FLNR:EX  
**Sent:** Friday, December 9, 2016 3:19 PM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** 2016-12-09 RE: PUDOCS Program Update

Thanks Jeff

Are there funds available for my refined wish list??

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Friday, December 9, 2016 4:14 PM  
**To:** Badry, Micheal J ENV:EX; Bohm, Holger FLNR:EX; Doug Pateman (dpateman@princeton.ca); Jared Wright (jwright@ubcm.ca); Laurey Roodenburg (lroodenburg@quesnel.ca); Nils B. Jensen ; Paul de Leur ; Pendergast, Sean FLNR:EX; Sara Dubois (sdubois@spca.bc.ca); Schmidt, Orlando AGRI:EX; Schwantje, Helen FLNR:EX; Sielecki, Leonard E TRAN:EX; Teske, Irene FLNR:EX  
**Subject:** PUDOCS Program Update

Hello PUDAC Members,

5 applications were made to the Provincial Urban Deer Cost-Share Program.

Cranbrook -\$19,900  
Elkford - \$10,000  
Invermere - \$12,000  
Grand Forks - \$16,000  
Oak Bay- \$20,000  
**Total - \$77,900**

Based on the fact that the five proposals easily fit within the \$100,000 that is available, the proposals did not have to be scored or ranked. Instead the Provincial Urban Deer Advisory Committee's 'Project Review Subcommittee' provided comments relating to project eligibility. Their comments are **summarized** in the note below.

This information and a subsequent FLNR technical review allowed four projects to be approved for the amounts requested. The fifth project is the Oak Bay immunocontraception project. While it has not yet been approved, FLNR is working with the Oak Bay and its partner organization, the Urban Wildlife Stewardship Society, in order to make some proposal revisions so that the project meets the PUDOCS Program eligibility criteria.

The link below will get you to the news release on the funding.

<https://news.gov.bc.ca/releases/2016FLNR0295-002659>

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Monday, November 28, 2016 4:45 PM  
**To:** 'Paul de Leur '; 'Laurey Roodenburg ([lrroodenburg@quesnel.ca](mailto:lrroodenburg@quesnel.ca))'; Sielecki, Leonard E TRAN:EX; Pendergast, Sean FLNR:EX; Teske, Irene FLNR:EX; Sara Dubois ([sdubois@spca.bc.ca](mailto:sdubois@spca.bc.ca))  
**Subject:** RE: application review

Hello everyone,

5 applications to the Provincial Urban Deer Cost-Share Program were received.

Cranbrook -\$19,900  
Elkford - \$10,000  
Invermere - \$12,000  
Grand Forks - \$16,000  
Oak Bay- \$20,000  
**Total - \$77,900**

Based on the fact that the five proposals easily fit within the \$100,000 that is available, the proposals did not have to be scored or ranked. They do have to meet eligibility requirements. As a member of the Provincial Urban Deer Advisory Committee's 'Project Review Subcommittee' you were asked to provide comments relating to project eligibility. Your comments have been **summarized** and are tracked here.

**Irene Teske, Wildlife Biologist, FLNR**

Oak Bay Proposal:

- Deer count budget is \$6000. All other communities use volunteers to count deer in communities using a very similar methodology. I suggest that this cost be reduced to \$1000 if they are paying for contractor to statically analyze or model count data. If only counting deer then cost should be \$0 like all other communities.
- If they immobilize deer they should take samples, document health and condition, and attach ear tags.
- Suggest they work very closely with the Provincial Veterinarian on all aspects of this project.

All other proposals appear good.

**Sara Dubois, Senior Manager, Scientific Programs BCSPCA**

The outstanding contingency questions I have for the cull projects in Grand Forks (white-tailed), Elkford (mule) and Invermere (mule) include:

- What happens if another deer species is trapped, will it be killed or released?
- Will females only be targeted and if so how (males let go)?

Also if municipalities have an enforceable feeding bylaw, can we request they report how many fines have been issued for feeding violations?

Invermere should also provide 2015 deer count data/summary report so that it can be compared to the 2014 data included.

**Paul de Leur, Manager, Road Improvement Program, ICBC**

I just completed a quick review of the 5 applications to PUDAC. I believe that they are consistent with the Program. 3 proposals are essentially culls (Elkford, Grand Forks and Invermere), one proposal involves tagging with transmitters + relocation (Cranbrook) and the final proposal involves sterilization (Oak Bay). It seems to me that the better projects from a research perspective are Cranbrook and Oak Bay, but the other 3 likely could have the greatest impact.

**Laurey-Anne Roodenburg, Councillor, City of Quesnel and President, North Central Local Government Association (NCLGA)**

Having read over Elkfords' application, the only thing I see is that they have not applied for the permits required yet. My understanding is that they had to have them in place at time of application.  
Great applications btw. Impressed with the work these communities are doing.

**Jeff Morgan, Policy Manager Fish and Wildlife Branch, FLNRO**

All projects generally meet the criteria requirements though some expenses (e.g. inventory may not be eligible). Most current, deficiencies should be easy to resolve with the communities.

One area of concern is the availability and efficacy of immunocontraceptive drugs. The project hinges on this and as such we will have to seek clarification. Otherwise research dollars (spent on preparation) could be stranded.

Please let me know if you disagree with any of the summaries.

I will work with the communities to improve the applications and provide clarifications around any details relating to the eligibility. It will then be up to the Director of the Fish and Wildlife Branch to determine how much will be spent on each project.

Thanks for your input.

Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

## Rosche, Kimberly FLNR:EX

---

**From:** Dolores Sheets <dsheets@grandforks.ca>  
**Sent:** Friday, December 9, 2016 9:08 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Subject:** 2016-12-09 Re: Urban deer Project - Grand Forks

Hi Jeff,

Signing authority for this project will be:

Corporate Officer: Diane Heinrich  
Mayor: Frank Konrad

Thank you!

DD

Dolores Sheets  
Manager of Development & Engineering  
City of Grand Forks, B.C.  
Ph: 250-442-8266  
Cell: s.22  
Email: [dsheets@grandforks.ca](mailto:dsheets@grandforks.ca)

**"Morgan, Jeff A FLNR:EX" <[Jeff.Morgan@gov.bc.ca](mailto:Jeff.Morgan@gov.bc.ca)> writes:**

Hello again Dolores,  
Can I assume you will be the contact/signing authority on this project?  
Sincerely,

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Thursday, December 8, 2016 3:13 PM  
**To:** dsheets@grandforks.ca  
**Subject:** Urban deer Project - Grand Forks

Hello Dolores,  
Thank you for the urban deer application you submitted earlier on behalf of Grand Forks . I'm happy to report that the Fish and Wildlife Branch will be in a position to fund Grand Forks up to the requested amount (\$16,000). I will contact you next week so that we can be in a position to draft up a shared cost agreement.  
FYI, government will be releasing an information bulletin on this in the morning.  
Thanks again for your efforts. I look forward to discussing your project with you next week.  
Sincerely,  
Jeff Morgan



Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

**Rosche, Kimberly FLNR:EX**

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Friday, December 9, 2016 9:58 AM  
**To:** Thomas, Keith D FLNR:EX  
**Subject:** 2016-12-09 RE: Urban Deer SCA info needed

Hi Keith,

Here you go!

Is there a chance we could get the shared cost agreements out by Wednesday of next week? If not , no problem we will do in early Jan.

Community	Cranbrook	Oak Bay	Grand Forks	Invermere
Category	Research	Research	Operational (cull)	Operational
Project Goal relative to funding	Research	Research	80 deer cull * \$200=\$16,000	51 deer cull
Funding Request	\$19,900	\$20,000	\$16,000	\$10,200
Contact\Signing Authority	<b>Signing Authority:</b> <b>David Kim</b> Cranbrook City Hall 40 – 10th Avenue South Cranbrook, BC V1C 2M8 Phone: 250-426-4211 Fax: 250-426-4026  <b>Contact:</b> <b>Susan King,</b> A/ Financial Analyst City of Cranbrook Phone: (250) 489-0228 Fax: (250) 426-4026 Email: <a href="mailto:king@cranbrook.ca">king@cranbrook.ca</a>		<b>Signing Authority</b> <b>Diane Heinrich</b> Corporate Officer THE CORPORATION OF THE CITY OF GRAND FORKS 7217 - 4TH STREET, GRAND FORKS, B.C. T. 250.442.8266 F.250.442.8000  <b>Contact:</b> <b>Dolores Sheets</b> Manager of Development & Engineering T. 250.442.8266 C. s.22 E. <a href="mailto:dsheets@grandforks.ca">dsheets@grandforks.ca</a>	<b>Signing Authority</b> <b>Chris Prosser</b> Chief Administrative Officer District of Invermere PO Box 335 914 8 <sup>th</sup> Avenue Invermere, BC Phone: 250-342-1111 Fax: 250-342-1111

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

**Chan, Dean FIN:EX**

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Friday, March 24, 2017 2:25 PM  
**To:** Rosche, Kimberly FLNR:EX  
**Cc:** McNeill, Diana A FLNR:EX  
**Subject:** FW: Urban Deer SCA info needed

As requested.

Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

---

**From:** Morgan, Jeff A FLNR:EX  
**Sent:** Friday, December 9, 2016 9:58 AM  
**To:** Thomas, Keith D FLNR:EX  
**Subject:** RE: Urban Deer SCA info needed

Hi Keith,

Here you go!

Is there a chance we could get the shared cost agreements out by Wednesday of next week? If not , no problem we will do in early Jan.

Community	Cranbrook	Oak Bay	Grand Forks	Invermere	Elkford
Category	Research	Research	Operational (cull)	Operational (cull)	Operational (cull)
Project Goal relative to funding	Research	Research	80 deer cull * \$200=\$16,000	51 deer cull * \$200=\$10,200	50 deer cull * \$200=\$10,000
Funding Request	\$19,900	\$20,000	\$16,000	\$10,200	\$10,000

Contact\Signing Authority	<b>Signing Authority:</b> <b>David Kim</b> Cranbrook City Hall 40 – 10th Avenue South Cranbrook, BC V1C 2M8 Phone: 250-426-4211 Fax: 250-426-4026  <b>Contact:</b> <b>Susan King,</b> A/ Financial Analyst City of Cranbrook Phone: (250) 489-0228 Fax: (250) 426-4026 Email: <a href="mailto:king@cranbrook.ca">king@cranbrook.ca</a>		<b>Signing Authority</b> <b>Diane Heinrich</b> Corporate Officer THE CORPORATION OF THE CITY OF GRAND FORKS 7217 - 4TH STREET, GRAND FORKS, B.C. T. 250.442.8266 F.250.442.8000  <b>Contact:</b> <b>Dolores Sheets</b> Manager of Development & Engineering T. 250.442.8266 C. s.22 E. <a href="mailto:dsheets@grandforks.ca">dsheets@grandforks.ca</a>	<b>Signing Authority &amp; Contact</b> <b>Chris Prosser</b> Chief Administrative Officer District of Invermere PO Box 339 914 8 <sup>th</sup> Avenue Invermere, BC V0A 1K0 Phone: 250-342-9281 ext 1225 Fax: 250-342-2934	<b>Signing Authority &amp; Contact</b> <b>Curtis Helgesen</b> Chief Administrative Officer Director, Financial Services District of Elkford PO Box 340 Elkford, BC V0B 1H0 Direct: 250.865.4004 Phone: 250.865.4000 Fax: 250.865.4001 Cell: s.22 email: <a href="mailto:chelgesen@elkford.ca">chelgesen@elkford.ca</a>
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Jeff Morgan  
Fish and Wildlife Branch - Policy Manager  
Resource Stewardship Division  
Ministry of Forests, Lands and Natural Resource Operations  
Office: (250) 371-6347, Cell: (250) 318-5666, Fax: (250) 828-4000

**Rosche, Kimberly FLNR:EX**

---

**From:** Kristy <kilpatrick@telus.net>  
**Sent:** Friday, December 9, 2016 12:03 AM  
**To:** Morgan, Jeff A FLNR:EX  
**Cc:** XT:Archibald, Ralph FPB:IN  
**Subject:** 2016-12-09 UWSS/Oak Bay project

Hi again Jeff!

Thanks for letting me know the dates you are going to be away. We had a board meeting tonight and we're all excited at the opportunity to move forward on the project, and we're wanting to get to work on revising the proposal in order to address your concerns as quickly as possible.

Ralph is the chair of our Science Advisory Group, and he has agreed to give you a call to get some clarification on a few things as a start. He'll be phoning you tomorrow morning (Friday) and we're hoping you'll be available -that way if there are more questions we will still have a few days next week to consult with you.

Thanks again for your help on this Jeff.

Kristy

## Provincial Urban Deer Cost-Share Program Review

5 applications to the Provincial Urban Deer Cost-Share Program were recieved.

Cranbrook -\$19,900  
Elkford - \$10,000  
Invermere - \$12,000  
Grand Forks - \$16,000  
Oak Bay- \$20,000  
**Total - \$77,900**

The process timeline is as follows.....

**October 26, 2016:** Provincial Urban Deer Cost-Share Program's Call for proposals go out (for 2016/17 fiscal).

- **November 22, 2016:** Deadline for local governments or Indian Bands/First Nations to submit their project proposals.
- **November 28, 2016:** Provincial Urban deer Advisory Committee review of proposals completed.
- **December 2, 2016:** Branch notifies local governments or Indian Bands/First Nations of their available funding allotments (through 'agreements in principle').
- **December 16, 2016:** Branch enters into agreements with successful local governments or Indian Bands/First Nations.
- **March 15, 2017:** Deadline for local governments or Indian Bands/First Nations to submit invoices and project completion reports to the Branch.

Based on the fact that the five proposals easily fit within the \$100,000 that is available this year the proposals were not scored or ranked. They were reviewed to ensure they met -eligibility requirements. The Provincial Urban Deer Advisory Committee's Project Review Subcommittee was ask to provide comments relating to project eleigibility. There comments have been summarized and are tracked tracked here.

**Irene Teske, Wildlife Biologist, FLNR**

Oak Bay Proposal:

- Deer count budget is \$6000. All other communities use volunteers to count deer in communities using a very similar methodology. I suggest that this cost be reduced to \$1000 if they are paying for contractor to statically analyze or model count data. If only counting deer then cost should be \$0 like all other communities.
- If they immobilize deer they should take samples, document health and condition, and attach ear tags.

- Suggest they work very closely with the Provincial Veterinarian on all aspects of this project.

All other proposals appear good.

**Sara Dubois, Senior Manager, Scientific Programs BCSPCA**

The outstanding contingency questions I have for the cull projects in Grand Forks (white-tailed), Elkford (mule) and Invermere (mule) include:

- What happens if another deer species is trapped, will it be killed or released?
- Will females only be targeted and if so how (males let go)?

Also if municipalities have an enforceable feeding bylaw, can we request they report how many fines have been issued for feeding violations?

Invermere should also provide 2015 deer count data/summary report so that it can be compared to the 2014 data included.

**Paul de Leur, Manager, Road Improvement Program, ICBC**

I just completed a quick review of the 5 applications to PUDAC. I believe that they are consistent with the Program. 3 proposals are essentially culls (Elkford, Grand Forks and Invermere), one proposal involves tagging with transmitters + relocation (Cranbrook) and the final proposal involves sterilization (Oak Bay). It seems to me that the better projects from a research perspective are Cranbrook and Oak Bay, but the other 3 likely could have the greatest impact.

**Laurey-Anne Roodenburg, Councillor, City of Quesnel and President, North Central Local Government Association (NCLGA)**

Having read over Elkford's application, the only thing I see out of line is that they have not applied for the permits required yet. My understanding is that they had to have them in place at time of application.

Great applications btw. Impressed with the work these communities are doing.

**Jeff Morgan, Policy Manager Fish and Wildlife Branch, FLNRO**

All projects generally meet the criteria requirements though some expenses (e.g. inventory may not be eligible). Most current, deficiencies should be easy to resolve with the communities.

One area of concern is the availability and efficacy of immunocontraceptive drugs. The project hinges on this and as such we will have to seek clarification. Otherwise research dollars (spent on preparation) could be stranded.

# Summary of 2016/17 Provincial Urban deer Costs-Share Program Applications and Funding Recommendations

In 2016 the Provincial Urban Deer Costs-Share Program Received 5 applications for funding to support urban deer management or research activities from Cranbrook, Elkford, Invermere, Grand Forks and Oak Bay for a total of \$76,100.

The process timeline is as follows.....

**October 26, 2016:** Provincial Urban Deer Cost-Share Program's Call for proposals go out (for 2016/17 fiscal).

- **November 22, 2016:** Deadline for local governments or Indian Bands/First Nations to submit their project proposals.
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- **March 15, 2017:** Deadline for local governments or Indian Bands/First Nations to submit invoices and project completion reports to the Branch.

The five proposals easily fit within the \$100,000 that is available this year so the proposals were not scored or ranked. They were reviewed by the Provincial Urban Deer Advisory Committee's Project Review Subcommittee to ensure they met eligibility requirements. This document summarizes my review of the 5 projects and provides recommendations. A summary of the Project Review Subcommittee's feedback is also attached.

Community	Cranbrook	Oak Bay	Grand Forks	Invermere	Elkford
Category	Research	Research	Operational (cull)	Operational (cull)	Operational (cull)
Species	Mule Deer	Black-tailed deer	White-tailed deer	Mule and WTD	yes
address human-deer conflict in areas where	yes	yes	yes	yes	yes



the use of traditional (e.g. hunting) deer management techniques are not appropriate					
are consistent with objectives that have been developed through a community-based planning process	yes	yes	yes	yes	yes
have a resolution of support from the local government's council or board or Indian Band's/First Nation's chief and council	yes	yes	yes	yes	yes
are compliant with all applicable laws and by-laws and adequately manage all human safety, environmental and animal welfare risks	yes	yes	yes	yes	yes
are in accordance with a permit issued under the <i>Wildlife Act</i> <u>(or any other statute)</u>	yes	not yet	yes	yes	yes
are technically sound and feasible	yes	not yet	yes	yes	yes
are scientifically rigorous (if a research project)	yes	not yet	yes	yes	yes
commit to reporting	yes	yes	yes	yes	yes
provide matching funds (from the local government or Indian Band/First Nation or any partners)	yes	yes	yes	yes	
Funding Request	\$19,900	\$20,000	\$16,000	\$10,200	\$10,000
Recommendation/Action	approve	Request	approve	approve	approve

		Change			
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