



New Hampshire Fish and Game Department

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Glenn Normandeau
Executive Director

February 14, 2017

His Excellency, Governor Christopher T. Sununu
and the Honorable Council
State House
Concord, New Hampshire 03301

REQUESTED ACTION

Authorize the New Hampshire Fish and Game Department to amend an existing Sole Source Cooperative Project Agreement (CPA) with the University of New Hampshire (Vendor No. 177867) to conduct a research project in support of moose management by extending the project end date from December 31, 2018 to June 30, 2020 at no additional cost to the state. This CPA was originally approved by Governor and Council on July 24, 2013, item #38, and amended by Governor and Council on September 16, 2015, item #55. Funding 100% federal.

EXPLANATION

Moose are an invaluable ecological, economic, and recreational resource in New Hampshire. Understanding these population metrics is essential to science-based population management. This project provides the Department with current data on moose productivity and mortality rates through the intensive tracking of radio collared cow moose and calves. These data are essential to New Hampshire's moose management program. They will provide information necessary to make informed management decisions regarding regional moose population declines; they will facilitate more precise achievement of moose population objectives through moose permit issuance and; they will potentially provide a methodology for predicting and mitigating high mortality events in the future.

During the past 4 winters (2014-2017) a total of 182 moose were captured and collared (122 calves and 60 cows). Subsequent monitoring has continued to indicate relatively high calf mortality. The vast majority of this mortality has been consistent with severe infestation of winter tick. Since a key objective of this project is to assess the impacts of weather on tick abundance and moose mortality, a range of fall, winter and spring weather conditions as well as their hypothesized effect on ticks and moose is essential to evaluate these relationships. This request seeks to extend the research project from its current ending date (December 30, 2018) to June 30, 2020. Cost savings associated with reduced capture and collaring costs and the availability of University sponsored student assistantships have made it possible to extend these research efforts at no additional cost to the state. This would permit 1 additional year of moose capture and collaring in the winter of 2018 as well as subsequent monitoring. Extension of this research will increase the sample sizes and serve to increase the range of variation of the factors which are believed to influence tick abundance and moose mortality aiding in the development of models to predict future winter tick related mortality and productivity impacts.

Respectfully submitted,

Glenn Normandeau
Executive Director

Kathy Ann LaBonte, Chief
Business Division

AMENDMENT #02 to
COOPERATIVE PROJECT AGREEMENT
between the
STATE OF NEW HAMPSHIRE, DEPARTMENT OF FISH AND GAME
and the
University of New Hampshire of the UNIVERSITY SYSTEM OF NEW HAMPSHIRE

The Cooperative Project Agreement, approved by the State of New Hampshire Governor and Executive Council on 7/24/13, item # 38, for the Project titled “**Productivity and Mortality of Moose in Northern New Hampshire**,” Campus Project Director, **Pete Pekins**, is and all subsequent properly approved amendments are hereby modified by mutual consent of both parties for the reason(s) described below:

Purpose of Amendment (Choose all applicable items):

- Extend the Project Agreement and Project Period end date, at no additional cost to the State.
- Provide additional funding from the State for expansion of the Scope of Work under the Cooperative Project Agreement.
- Other: Expand the Scope of Work under the Cooperative Agreement at no additional cost to the State.

Therefore, the Cooperative Project Agreement is and/or its subsequent properly approved amendments are amended as follows (Complete only the applicable items):

- Article A. is revised to replace the State Department name of _____ with _____ and/or USNH campus from _____ to _____.
- Article B. is revised to replace the Project End Date of **12/31/18** with the revised Project End Date of **06/30/20**, and Exhibit A, article B is revised to replace the Project Period of **08/01/13 – 12/31/18** with **08/01/13 – 06/30/20**.
- Article C. is amended to expand Exhibit A by including the proposal titled, “ _____ ,” dated _____.
- Article D. is amended to change the State Project Administrator to _____ and/or the Campus Project Administrator to _____.
- Article E. is amended to change the State Project Director to _____ and/or the Campus Project Director to _____.
- Article F. is amended to add funds in the amount of \$ _____ and will read:
Total State funds in the amount of \$ _____ have been allotted and are available for payment of allowable costs incurred under this Project Agreement. State will not reimburse Campus for costs exceeding the amount specified in this paragraph.
- Article F. is amended to change the cost share requirement and will read:
Campus will cost-share _____ % of total costs during the amended term of this Project Agreement.
- Article F. is amended to change the source of Federal funds paid to Campus and will read:
Federal funds paid to Campus under this Project Agreement as amended are from Grant/Contract/Cooperative Agreement No. _____ from _____ under CFDA# _____. Federal regulations required to be passed through to Campus as part of this Project Agreement, and in accordance with the Master Agreement for Cooperative Projects between the State of New Hampshire and the University System of New Hampshire dated November 13, 2002, are attached

to this document as **revised** Exhibit B, the content of which is incorporated herein as a part of this Project Agreement.

- Article G. is exercised to amend Article(s) of the Master Agreement for Cooperative Projects between the State of New Hampshire and the University System of New Hampshire dated November 13, 2002, as follows:

Article is amended in its entirety to read as follows:

Article is amended in its entirety to read as follows:

- Article H. is amended such that:

- State has chosen **not to take** possession of equipment purchased under this Project Agreement.
- State has chosen **to take** possession of equipment purchased under this Project Agreement and will issue instructions for the disposition of such equipment within 90 days of the Project Agreement's end-date. Any expenses incurred by Campus in carrying out State's requested disposition will be fully reimbursed by State.

- Exhibit A is amended as attached.

- Exhibit B is amended as attached.

All other terms and conditions of the Cooperative Project Agreement remain unchanged.

This Amendment, all previous Amendments, the Cooperative Project Agreement, and the Master Agreement constitute the entire agreement between State and Campus regarding the Cooperative Project Agreement, and supersede and replace any previously existing arrangements, oral and written; further changes herein must be made by written amendment and executed for the parties by their authorized officials.

This Amendment and all obligations of the parties hereunder shall become effective on the date the Governor and Executive Council of the State of New Hampshire or other authorized officials approve this Amendment to the Cooperative Project Agreement.

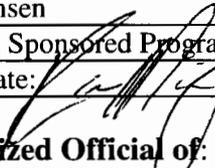
IN WITNESS WHEREOF, the following parties agree to this **Amendment #02** to the Cooperative Project Agreement.

By An Authorized Official of:

University of New Hampshire

Name: Karen Jensen

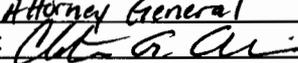
Title: Manager, Sponsored Programs Administration

Signature and Date:  2/8/17

By An Authorized Official of: the New Hampshire Office of the Attorney General

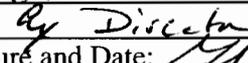
Name: Christopher G. Aslin

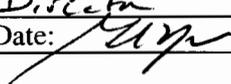
Title: Assistant Attorney General

Signature and Date:  3/7/17

By An Authorized Official of:

Name: 

Title: 

Signature and Date:  3/6/2017

By An Authorized Official of: the New Hampshire Governor & Executive Council

Name:

Title:

Signature and Date:

EXHIBIT A

- A. **Project Title:**
- B. **Project Period:** August 01, 2013 - June 30, 2020
- C. **Objectives:**
- D. **Scope of Work:** Moose capture and collaring efforts will be continued in January 2018 resulting in an additional year of monitoring and data collection associated with the project objectives.
- E. **Deliverables Schedule:**
- F. **Budget and Invoicing Instructions:**



New Hampshire Fish and Game Department

Governor & Council Approved

Date: 7-24-13

Item #: 38

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Glenn Normandeau
Executive Director

July 8, 2013

Her Excellency, Governor Margaret Wood Hassan
and the Honorable Council
State House
Concord, New Hampshire 03301

REQUESTED ACTION

Authorize the New Hampshire Fish and Game Department to enter into a Sole Source Cooperative Project Agreement with the University of New Hampshire (Vendor No. 177867) to conduct a research project in support of moose management in the amount of \$695,000 from the date of Governor and Executive Council approval through June 30, 2017. 100% Federal Funds.

Funding is available in account, Game Management, with authority to adjust encumbrances in each of the state fiscal years through the Budget Office if needed and justified:

03 75 75 751520-21580000 - Wildlife Program Management Program - Game Management

20-75000-21580000-304-500841 Research and Management

FY14	FY15	FY16*	FY17*
\$240,000	\$320,000	\$125,000	\$10,000

*Pending State Budget Approval

EXPLANATION

Moose are an invaluable ecological, economic, and recreational resource in New Hampshire. The annual estimated economic expenditure associated with New Hampshire wildlife-watching exceeds \$250 million. Because much wildlife-watching and ecotourism in New Hampshire centers on moose, it is imperative to sustain this important resource and to manage it consistent with its unique ecological, economic and recreational values. Moose are also of significant economic importance to the Fish and Game Department, generating over \$300,000 per year in direct revenue which is used for wildlife management, law enforcement and department staffing.

Currently, multiple moose populations across their southern range are in decline including those of Minnesota, New Hampshire, and Vermont. Moose productivity and mortality has not been formally assessed in New Hampshire since 2005. Understanding these population metrics is essential to science-based population management. Given that productivity appears to have changed measurably in the past decade and that the population has declined concurrently, a precise assessment of present-day productivity and mortality and the factors driving them, is a high priority for the Fish and Game Department.

Her Excellency, Governor Margaret Wood Hassan
and the Honorable Council

July 8, 2013

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This project will provide the Department with current data on moose productivity and mortality rates through the intensive tracking of 80 to 100 radio collared moose cows and calves. These data are essential to New Hampshire's moose management program. They will provide information necessary to make informed management decisions regarding regional moose population declines; they will facilitate more precise achievement of moose population objectives through moose permit issuance and; they will potentially provide a methodology for predicting and mitigating high mortality events in the future.

Respectfully submitted,



Glenn Normandeau
Executive Director



Kathy Ann LaBonte
Chief, Business Division



New Hampshire Fish and Game Department

Governor & Council Approved

Date: 9-16-15

Item #: 53

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Glenn Normandeau
Executive Director

August 14, 2015

Her Excellency, Governor Margaret Wood Hassan
and the Honorable Council
State House
Concord, New Hampshire 03301

REQUESTED ACTION

Authorize the New Hampshire Fish and Game Department to amend an existing Sole Source Cooperative Project Agreement (CPA) with the University of New Hampshire (Vendor No. 177867) to conduct a research project in support of moose management by increasing the amount of the CPA by \$497,773 from \$695,000 to \$1,192,773 and by extending the project end date from June 30, 2017 to ~~December 31, 2018~~. This CPA was originally approved by Governor and Council on July 24, 2013, Item# 38. 100% Federal Funds.

Funds to support this request are available in the following account in State FY 2016, State FY 2017, and State FY 2018 upon the availability and continued appropriation of funds in the future operating budget, with the ability to adjust encumbrances between State Fiscal Years through the Budget Office, if needed and justified.”

03 75 75 751520-21580000 - Wildlife Program Management Program - Game Management

-75000-21580000-304-500841 Research and Management	<u>FY16</u>	<u>FY17</u>	<u>FY18</u>
	\$166,950	\$265,378	\$65,445

EXPLANATION

This is a continuation of an original Sole Source Cooperative Project Agreement. Moose are an invaluable ecological, economic, and recreational resource in New Hampshire. Moose productivity and mortality has not been formally assessed in New Hampshire since 2005. Understanding these population metrics is essential to science-based population management. This project provides the Department with current data on moose productivity and mortality rates through the intensive tracking of radio collared cow moose and calves. These data are essential to New Hampshire’s moose management program. They will provide information necessary to make informed management decisions regarding regional moose population declines; they will facilitate more precise achievement of moose population objectives through moose permit issuance and; they will potentially provide a methodology for predicting and mitigating high mortality events in the future.

In January of 2014 and 2015 a total of 87 moose were captured and collared (49 calves and 38 cows). Subsequent monitoring has indicated relatively high calf mortality in the spring of both 2014 and 2015. The vast majority of this mortality was consistent with severe infestation of winter tick. Since a key objective of this project is to assess the impacts of weather on tick abundance and moose mortality, a range of fall, winter and spring weather conditions as well as their hypothesized effect on ticks and moose is essential to evaluate these relationships. This request seeks to extend the research project from its original ending date (June 30, 2017) to December 31, 2018. This would permit 2 additional years of moose capture and collaring in the winters of 2016 and 2017 as well as subsequent monitoring. Extension of this research will significantly increase the sample size for monitoring moose mortality and productivity. It will also serve to increase the range of variation of the weather related and other factors which are believed to influence tick abundance and moose mortality, aiding in the development of models to predict future winter tick related mortality.

Respectfully submitted,

Glenn Normandeau
Executive Director

Kathy Ann LaBonte, Chief
Business Division