(9)

University of Montana
Missoula, Montana 59801
(406) 243-0211

April 5, 1974

Dean I. McT. Cowan
Faculty of Graduate Studies
University of British Columbia
Vancouver, Canada V6T 1W5

Dear Dr. Cowan:

Dr. Craighead informed me that he recently discussed with you some problems concerning the use of his unpublished data in the report which your committee is preparing for the National Academy of Sciences. One of the problems has been the unrealistic deadline set by the Department of the Interior for the completion of your report.

Dr. Craighead informed me that you expressed no objection if he or I contacted Dr. Handler, President of the National Academy of Sciences, and asked for an extention of the report deadline. He has asked me to make this request in his behalf; but after reviewing the entire situation with scientific members of my staff, we concluded that we should ask Dr. Handler to examine the entire contract and the purposes and intent of the contract to determine if the academic and scientific rights of the Craigheads might possibly be compromised by the use of their data and concepts in the technical section of the committee's report.

Sincerely yours,

Robert T. Pantzer
President

das:

XC: Dr. Philip Handler
Dr. John J. Craighead

MONTANA COOPERATIVE WILDLIFE RESEARCH UNIT

UNIVERSITY OF MONTANA
MONTANA FISH AND GAME COMMISSION
WILDLIFE MANAGEMENT INSTITUTE
FISH AND WILDLIFE SERVICE, UNITED STATES DEPARTMENT OF THE INTERIOR

UNIVERSITY OF MONTANA

MISSOULA, MONTANA 59801

May 23, 1974

Dr. Russell B. Stevens, Exec. Sec.
Division of Biological Sciences
National Research Council
Assembly of Life Sciences
National Academy of Sciences
2101 Constitution Avenue
Washington, D. C. 20418

Dear Dr. Stevens:

My colleagues and I carefully considered your letter of May 15. We are as anxious as the committee to move ahead. We appreciate your assurances of primary publication rights. We infer from your letter of May 15 that Dr. Donal Farner has judged that publication of the committee's report, if actually necessary, will in no way jeopardize this basic right of scientists.

We request that the committee cite as "in press" the conclusions as well as the data of our May 1974 manuscript. Since the committee will be basing its report largely on our unpublished and "in press" data, we would appreciate this assurance in writing. Our central concern and objective for 15 years of research has been the same as the committee's recent mandate, i.e., an evaluation of the population dynamics of the Yellowstone grizzlies. We anticipate that our manuscript will be "in press" prior to consummation of the committee's report. We will be prepared to mail our May 1974 manuscript to the committee on or about May 26.

I will indicate to Dr. Streeter that my colleagues and I will permit citation of our 1967, 1973, and May 1974 manuscripts immediately upon receipt of your letter.

Very sincerely,

John J. Craighead

John J. Craighead, Leader
Mont. Coop. Wildl. Res. Unit

JJC:gs

XC: Dr. Phillip Handler, Dr. I. McT. Cowan
Dr. Robert Streeter, Dr. Frank C. Craighead Jr.
Mr. Joel Varney

University of Montana
Missoula, Montana 59801
(406) 243-0211

April 15, 1974

Dr. Philip Handler, President
National Academy of Sciences
2101 Constitution Avenue
Washington, D. C. 20418

Dear Dr. Handler:

The undersigned constitute an ad hoc faculty committee recognized by President Robert Pantzer of the University of Montana. The function of this committee is to review and advise President Pantzer on the problems the Craigheads have encountered in their research in Yellowstone National Park. Another function is to keep abreast of the correspondence between Dr. John Craighead and the NAS-NRC Committee which the National Academy of Sciences has authorized to investigate the problem.

After years of research, the Craigheads have indicated that the management and preservation of the grizzly bear in the Yellowstone ecosystem is a serious problem requiring a prompt solution. Their research has shown that the grizzly bear reproduces very slowly and, in the Yellowstone ecosystem, bear mortality has been especially high during the past few years. Therefore, the survival of the grizzly bear seems to be imperiled.

The Craigheads have 15 years of data to substantiate their position. They have been able to publish only a portion of their findings due to the long period of field investigations and the tremendous mass of data accumulated. They have, however, prepared numerous reports which the NAS-NRC Committee is now using as a basis for their study. We recognize the need for a committee to study the situation, as a service to the resource and to the scientific community, but we see no need for the committee to publish anything other than a brief statement of conclusions and management suggestions. The grizzly bear population situation is either serious or it is not serious. Furthermore, after having investigated this situation in great detail, we conclude Dr. Craighead has shown willingness to cooperate with the NAS-NRC Committee. He is, however, reticent to provide data in addition to that already in the Committee's hands since it has been impossible to obtain assurance these and other unpublished data will not be published in the final committee report. If these data were published by the committee, it would preempt interpretation and publication of these data by Craighead/associates.

It appears to us that the important objective of this NAS investigation

is to obtain the truth and to protect the scientific and academic freedom of the researchers. We believe that the full report of the NAS-NRC Committee, which relies heavily on the unpublished Craighead data already in their hands, should be kept absolutely confidential pending publication of the original data, findings, and interpretations by the original researchers. Our concern is one based primarily on an NAS-NRC Committee taking an investigator's data, and possibly his conclusions, and publishing them before this investigator has an opportunity to publish his own work. We are sure you appreciate the nature of the problem involved here.

Sincerely yours,

R. A. Solberg

Richard A. Solberg, Professor of Botany and Dean, College of Arts and Sciences

Robert P. Banaugh

Robert P. Banaugh, Professor and Chairman of Computer Science

Franklin Sogandares-Bernal

Franklin Sogandares-Bernal, Professor of Microbiology

Fred Shafizadeh

Fred Shafizadeh, Professor of Chemistry and Director of Wood Chemistry Laboratory

Carl L. Larson

Carl L. Larson, Professor of Microbiology and Director, Stella Duncan Memorial Laboratories

H. Richard Fevold

H. Richard Fevold, Professor of Chemistry

Mitsura J. Nakamura

Mitsura J. Nakamura, Professor and Chairman of Microbiology

James A. Walsh

James A. Walsh, Professor and Chairman of Psychology

Richard N. Ushijima

Richard N. Ushijima, Professor of Microbiology

das:
xc: Dr. Robert Pantzer

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

DEPARTMENT OF GEOSCIENCES
TEL. (602) 884-2442

April 23, 1974

Dr. Philip Handler, President
Natural Research Council
National Academy of Sciences
2101 Constitution Avenue
Washington, D.C. 20418

Dear Dr. Handler:

I am presuming on my great regard for the National Academy of Sciences and for my long service to it as a member of the National Committee of the International Geophysical Year, Director of the U.S. I.G.Y. Antarctic Program and Chairman of the Committee on Polar Research for several years, to explore a matter with you, not concerned with polar programs, but with what seems to me to be one of scientific ethics in which the good name of the Academy may be at stake.

The matter has been ably brought to your attention by President Robert T. Pantzer of the University of Montana in his letter of April 4, 1974 and has been further documented by a letter to you from an ad hoc faculty committee of the University under date of April 15, 1974. I believe both letters give accurate appraisals of the situation.

I am speaking now from a long and intimate acquaintance with the Craighead brothers and their scientific qualifications. I have known them for more than thirty years and have made many trips into the wilderness with them. I have been with the Craigheads in Yellowstone Park several times and have observed their work there with the grizzly bear.

As a member of the National Science Board I made the motion to approve the NSF grant with which the Craighead grizzly bear project began and I have kept in touch with it ever since. The Craighead's continuing research has received grants from other agencies than NSF and the support of qualified teams of scientists.

When the Craighead brothers began their research with the grizzly bear in Yellowstone Park some fifteen years ago they received the friendliest cooperation from Superintendent Garrison. A building unused by the Park was loaned to them for their laboratory. Obviously this superintendent recognized the benefits that would accrue to the Park from encouraging the kind of

research the Craigheads had in mind.

When Superintendent Anderson took charge of Yellowstone Park in 1968 the policy of welcoming and encouraging research by competent workers outside the Park Service was abruptly terminated. There began a period of harassment of the Craigheads which still continues. The laboratory building used by them was needlessly destroyed. The markers which the Craigheads had placed on grizzly bears which they were studying were removed and they have been prevented from handling the bears with which they were working. It would seem that this attitude of Superintendent Anderson has been taken over at higher levels in the Department of Interior. When I look over the very considerable amount of correspondence concerning the NAS committee appointed at the request of the Secretary of the Interior it is difficult not to believe that somewhere there is a desire to downgrade and even discredit the work of the Craigheads and their colleagues.

The Department of the Interior with funding from the National Park Service apparently established the objectives for the committee including the reporting deadline. They have not or, at least should not, have authorized the NAS committee to appropriate large masses of unpublished Craighead data without safe guarding the scientific rights of the Craigheads. The Park Service has essentially no data to analyze whereas the Craigheads have fifteen years of data gathered from their intensive research project. They have not yet had time to complete the analysis of the massive amount of data collected.

It seems to me that the committee should have proceeded with the investigation, utilizing the Craighead data but agreeing that the information would be used only as background material for making judgment and recommendations. They should have encouraged the Craigheads to complete their own analyses and alter the report deadline so that this could have been accomplished. It does not seem to me that a committee of this caliber needs to document their judgment with the unpublished Craighead data which the chairman indicated early in the work of the committee was their intention. And in a letter dated March 22, 1974, Dr. I. McT. Cowan of the University of British Columbia, chairman of the Committee, stated, "The thrust of my remarks is that my committee is proceeding on the basis that any and all statements in these two reports can be used as a basis for establishing our study, and that permission will not be necessary for us to use the data in these reports as the basis for our study."

This seems to me a violation of scientific ethics. On the surface it looks as if the NAS committee plans to preempt the work of the Craigheads.

I cannot see where a long and complicated report is needed from the NAS committee. Actually all that is needed is a brief statement with a set of recommendations. If the situation is not critical then there is no justification for publishing an extensive report that has emanated almost entirely from the Craighead research effort.

I wish I could walk into your office and talk with you about this. I still remember our brief but friendly contacts after you came to the Academy and I rejoice at the progress that has been made in relaxing the operation of the Academy for the benefit of scientific research and evaluation under your leadership.

Cordially yours,

Laurence M. Gould

LMG:eg

(12)

22 April 1974

University of Montana
Missoula, Montana 59801
(406) 243-0211

Department of Zoology

Dr. Philip Handler, President
National Academy of Sciences
2101 Constitution Avenue
Washington, D. C. 20418

Dear President Handler:

Dr. John Craighead is a Professor of Zoology at this University in addition to being Leader of the Montana Cooperative Wildlife Research Unit. Because of the apparent intention of Dr. Ian McT. Cowan to include in his committee report and probably publish either a select portion or perhaps all of the unpublished Craighead data made available to the NAS select Grizzly Bear Committee, Dr. Craighead recently asked me to review his file of correspondence with and concerning this committee.

I am certain that you agree with me that it is unethical for anyone to publish without consent any unpublished data made available to the committee.

The committee should be able to reach its conclusions and refer to unpublished or in press data without actually publishing those data. Furthermore I do not believe that the National Academy of Sciences would be party to the unauthorized publication of any researchers' data.

Professor John Craighead is now hesitant to cooperate as fully with the Committee as he did at first. I believe it is time for the Academy to make a clear statement concerning this matter. Such a statement would reassure all the researchers cooperating with the Committee. Such reassurance would insure full cooperation and the best possible report from the committee.

I feel that the uniquely prestigous position of the National Academy of Sciences places the additional burden on the Academy of establishing precedents for the cooperative, ethical attitudes of American scientists.

Sincerely,

Donald A. Jenni

Donald A. Jenni
Professor and Chairman

DAJ:lp

Committee on Yellowstone Grizzlies

Dr. Ian McTaggart Cowan, Chairman
Dean, Faculty of Graduate Studies
University of British Columbia
Vancouver, B.C., Canada 604/228-2931

Dr. Douglas G. Chapman
Dean, College of Fisheries
University of Washington
Seattle, Wash. 98105 206/543-4270

Dr. Robert S. Hoffmann
Museum of Natural History
University of Kansas
Lawrence, Kans. 66044 913/864-3673

Dr. Dale R. McCullough
Associate Professor, Resource Ecology Program
University of Michigan
Ann Arbor, Mich. 48104 313/764-0458

Dr. Gustav A. Swanson
Department of Fishery and
Wildlife Biology
Colorado State University
Ft. Collins, Colo. 80521 303/491-5020

Dr. Robert B. Weeden
Professor of Wildlife Management
Department of Wildlife and Fisheries
University of Alaska
Fairbanks, Alaska 99701 907/479-7542

Staff Officer: Harvey E. Sheppard
Division of Biological Sciences
National Academy of Sciences
2101 Constitution Avenue
Washington, D.C. 20418

(7)

MONTANA COOPERATIVE WILDLIFE RESEARCH UNIT

UNIVERSITY OF MONTANA
MONTANA FISH AND GAME COMMISSION
WILDLIFE MANAGEMENT INSTITUTE
FISH AND WILDLIFE SERVICE, UNITED STATES DEPARTMENT OF THE INTERIOR

UNIVERSITY OF MONTANA

MISSOULA, MONTANA 59801

March 28, 1974

Dean Ian McT. Cowan
Faculty of Graduate Studies
University of British Columbia
Vancouver, British Columbia
Canada V6T 1W5

Dear Ian:

The two documents you refer to in your letter of March 22 are the substantive results of our analysis, and we affirm the general conclusions. I have asked you to provide me with time to update and finalize the computer analysis; following peer review of that analysis, I have requested the opportunity to publish our study before you publish your analysis of our study. You have not agreed to do this. In view of this, I presume that your study will be a judgment of our research work and conclusions, and not an analysis of our population data nor the use of our data to make an independent analysis. If, on the other hand, you intend to analyze our raw data and utilize it for publication, the question of ethics immediately arises. You will note it clearly states on our two reports that they are not to be cited or published and are privileged material.

We reserve the right to grant or not to grant permission to cite or publish material in these reports. I regret that we seem to have a misunderstanding regarding the use of our data; but hopefully, we can work out a satisfactory solution. I am deeply concerned over the contents of your letter of March 22 in which you state "The thrust of my remarks is that my Committee is proceeding on the basis that any and all statement in these two reports can be used as a basis for establishing our study, and that permission will not be necessary for us to use the data in these reports as the basis of our study."
I hope to discuss this with you and your Committee.

Very sincerely,

John J. Craighead, Leader
Mont. Coop. Wildl. Res. Unit

JJC:nlh

(8)

University of Montana
Missoula, Montana 59801
(406) 243-0211

April 4, 1974

Dr. Philip Handler, President
National Research Council
National Academy of Sciences
2101 Constitution Avenue
Washington, D. C. 20418

Dear Dr. Handler:

A proposal to form a committee on the Yellowstone grizzly bear situation was expressed in a letter to you from the Honorable Rogers C. B. Morton, Secretary of the Interior, dated February 6, 1973. The Council of the National Academy of Sciences approved acceptance of this task at its March meeting; and based on a proposal submitted to the U.S. Department of the Interior, a contract was signed on June 27, 1973, between the Department and the National Academy of Sciences. The contract sets forth the objectives of the committee.

I am concerned that the committee may be exceeding the purpose and the intent for which it was established.

In order for the committee to meet its objectives, it must rely heavily on 15 years of data accumulated by Drs. John and Frank Craighead and their colleagues. Much of this information is in progress reports that do not constitute publication and which have been labeled not for publication or citation and must, therefore, be treated as privileged information.

It appears to me and to several scientist-members of my faculty, who have served as my sounding board, that a detailed report by this committee will "scoop" 15 years of dedicated and original research efforts by the Craighead Research Team. Dr. John Craighead has attempted to resolve this problem with the NAS Committee but without apparent success. He has agreed to provide the information requested but under terms that would protect his interests and that of his co-workers. There is no other comparable compilation of information on the population dynamics of grizzly bears. The Craighead research is unique in methodology, in long-term continuity of effort, and in biological conclusions.

We do not believe the task of the NAS committee should include interpretation and publication of unpublished data gathered by researchers at this

institution, especially when our researchers have not yet been able to finalize their own report for peer analysis. I believe that the NAS committee should not preempt, in published form, the use of these hard-gained data without first obtaining full permission of the individuals involved.

I would like to have a copy of the NAS Committee report (confidential if necessary) to see how the committee is citing the source of the many data, individual statistics, and concepts provided by the Craigheads.

A short precise judgement of the grizzly bear situation based on the committee's evaluation of the Craighead and the Park Service's data would be ethically correct and would meet the NAS study objectives.

This evaluation could then be followed up by separate in-depth publications by the Craigheads and by the National Park biologists. This would preserve scientific and academic ethics. It would also enable the scientific community to be the ultimate judge of the two research efforts and conclusions reached independently by the two groups.

Dr. Craighead has informed me that he can produce a summarized version of his grizzly bear population analysis for publication in Bio-Science or similar journals by May 30, and a completely documented manuscript for publication in Wildlife Monographs by October 1974. I urge you to extend him this courtesy and thereby protect his long-term research effort to document the ecology of a threatened and endangered species.

I have requested Dr. Craighead turn over to me all correspondence on this matter for my review. To also keep you informed, I am attaching the full correspondence between Dr. Craighead and the NAS Committee members.

Sincerely yours,

Robert T. Pantzer
President

das

Encl: Correspondence with NAS Committee
XC: Dr. I. McT Cowan
Dr. John J. Craighead

(6)

THE UNIVERSITY OF BRITISH COLUMBIA
VANCOUVER 8, CANADA V6T 1W5

FACULTY OF GRADUATE STUDIES
OFFICE OF THE DEAN

March 22, 1974

Dr. John J. Craighead, Leader
Montana Cooperative Wildlife
Research Unit
University of Montana
Missoula, Montana 59801
U. S. A.

Dear John:

Thank you for your letter of February 22. I, and I am sure the rest of the Committee, thoroughly appreciate the very heavy problem that you have in analyzing the accumulation of 15 years of very active field research. At the same time, I am sure you will realize also that certain claims have been made by yourselves and others publicly. These are not just general statements; they are rather specific statements concerning the trends in the population of grizzlies.

Such statements can only be made after a data analysis, which substantiates these statements, has been made. Therefore, it seems to us that these statements, which have been made by both sides, either are or are not substantiable by information which has been made public. We will be regarding the two specific documents which have been made available to us by your group as fully available to us for quoting and have been proceeding on this basis. Our understanding is that these are the substantial results of your analyses and, though they are not final and are subject to minor corrections, that the analyses up to this point are accurate and the statements that have been derived from them represent your considered judgment of the interpretation of those data.

The thrust of my remarks is that my Committee is proceeding on the basis that any and all statements in these two reports can be used as a basis for establishing our study, and that permission will not be necessary for us to use the ~~data~~ in these reports as the basis of our study.

Of course, where there do seem to be inconsistencies between various aspects of the reports we will check these out with you. It is in no way our intention to try and put any of the concerned and dedicated research workers that have been involved in this grizzly study in a bad public light. However,

I am sure you will realize that once major public statements have been made with reference to an animal as popular and as of great concern as the grizzly bear these have to be substantiable. It seems obvious to us that data which you have not yet analyzed could not have been used as a basis for any statements which have emanated, and that the same thing applies to data from the studies made by National Parks authorities.

All members of the Committee will be present at the wildlife conferences in Denver and this would be a useful opportunity for us to get together to discuss any substantial matters. At that time we will have our report in draft form and will have identified the most important issues which we should still try to sort out with you.

Would it be possible for you to meet the Committee on March 31 in the Denver Hilton Hotel? If this is possible would you please phone Harvey Sheppard at the National Research Council regarding the most convenient time.

Best regards.

Sincerely yours,

I. McT. Cowan, Dean
Faculty of Graduate Studies

/bt

cc Dr. Frank Craighead
Mr. Harvey Sheppard

THE UNIVERSITY OF BRITISH COLUMBIA
VANCOUVER 8, CANADA

FACULTY OF GRADUATE STUDIES
OFFICE OF THE DEAN

November 23, 1973

Dr. John J. Craighead, Leader
Montana Cooperative Wildlife
Research Unit
University of Montana
Missoula, Montana 59801
U. S. A.

Dear John:

I quite appreciate the matters raised in your letter of November 13 and the importance of them to you. I can only apologize over the neglect that led to your not being informed of the establishment of the committee, nor the names of those that had been appointed to it.

I have sent the reply enclosed on the basis of a draft from Harvey Shepherd

I shall ask the Secretary of the Committee, Mr. Russell B. Stevens, to send you a copy of the mandate or directive that is to guide the work of the National Academy meetings.

Your second question concerns the nature of our report. It is still too early for us to have formed any clear opinion as to how the report will be structured. Our present thinking is, as I outlined it in my preliminary remarks at Missoula, that we will undertake all the studies necessary for us to attempt to designate the present status of the grizzly bear population in and adjacent to Yellowstone National Park and any trends that are discernible within this population. I think it is possible that we will proceed from there to make some general recommendations with reference to any problems that we see and management measures that might be taken to alleviate these problems.

I have no way of knowing whether the report is to be published or not. However, I would assume that it will be because I am a great believer in complete public exposure of the nature of the input and the nature of the conclusions reached in reports of studies such as the one we are undertaking.

The unpublished data that we have requested and have been receiving from yourself and from others will be used with every possible discretion. At a time when our report is approaching a final stage, it seems to me that it would be most appropriate to consult with yourself and with others who have provided unpublished data for permission to publish such of it as we may find it necessary to use. This

is a matter which concerns me greatly because I am only too well aware of the prior rights to publication that accrue to the scientist who obtained the data in the first place.

We are attempting to aim for a deadline in the month of May. I think it is unlikely that we will be finished with the study and subsequent report before that time, but I think May may well be a possibility.

The help of yourself and Frank is absolutely essential to the task which we have undertaken on behalf of all of us who are concerned with the survival of a healthy population of grizzlies in your part of North America, and I know that every member of the committee appreciates the frankness with which you have discussed all relevant matters with us and the very large body of essential data which you have put at our disposal.

Best regards.

Sincerely yours,

I. McT. Cowan, Dean
Faculty of Graduate Studies

/bt

NATIONAL RESEARCH COUNCIL
ASSEMBLY OF LIFE SCIENCES

2101 Constitution Avenue Washington, D. C. 20418

DIVISION OF BIOLOGICAL SCIENCES

December 16, 1974

Dr. Frank Craighead
Environmental Research Institute
P.O. Box 156
Moose, Wyoming 83012

Dear Doctor Craighead:

I am sorry for the delay in acknowledging your letter of November 7th, but this has been an exceedingly busy time and I am still fighting deadlines.

The thoughts expressed in my letter to you are my own and do not necessarily reflect the views of the National Research Council. I think the committee did a good job with their report on the Yellowstone Grizzlies, but my personal views on the various news releases would be valueless to you. Each person must form his own judgment now that the report is generally available.

I trust that those concerned will get on with the research that needs to be done.

Best regards for the holiday season and for the New Year.

Sincerely,

Harvey Sheppard

HES:mst

Harvey E. Sheppard
Staff Officer

The National Research Council is the principal operating agency of the National Academy of Sciences and the National Academy of Engineering to serve government and other organizations

October 23, 1974

Dr. Harvey Sheppard
Staff Officer
National Research Council
Division of Biological Sciences
102 Constitution Avenue
Washington, D.C. 20415

Dear Dr. Sheppard:

I'm enclosing an article and editorial from the Jackson Hole News. As far as I know, this is the first time that a news release has come out indicating that the information in the N.A.S. Grizzly Bear Report has not been accurately described in the news releases put out by the Department of the Interior. These releases have misrepresented the body of the report as well as the conclusions and recommendations. This blatant misinforming of the public is one of the things we have been fighting for a great many years. I hope that the Academy will not let this go unchallenged but that you will look into the situation and take the appropriate action.

Thank you.

Sincerely,

Frank Craighead

FCC/nls

THE UNIVERSITY OF BRITISH COLUMBIA
2075 WESBROOK PLACE
VANCOUVER, B.C., CANADA
V6T 1W5

FACULTY OF GRADUATE STUDIES
OFFICE OF THE DEAN

November 12, 1974

Dr. Frank C. Craighead, Jr.
P.O. Box 156
Moose, Wyoming 83012
U.S.A.

Dear Frank:

I much appreciate your note of October 28 with the enclosed clippings on the grizzly bear controversy. I was particularly interested to see that the Jackson Hole News had spotted the manipulation that was going on in the partial release of news findings by the Yellowstone National Park.

I find it most distressing that government departments cannot accept criticism and be completely honest in the releases that eminate as a consequence.

In my view, there is no possibility of Yellowstone National Park obtaining the kind of management data that it must have without undertaking a continuation of the kind of research which you and your brother did with such success over the years in which you were involved. To suggest that sufficiently accurate inventory of grizzly bears can be obtained on the basis of their individually recognizable characteristics without marking simply does not accord with the facts as they are known to myself and to both of you.

Sincerely yours,

I. McT. Cowan, Dean
Faculty of Graduate Studies

/ap

September 18, 1974

Dr. Ian McTaggart Cowan
Dean, Faculty of Graduate Studies
University of British Columbia
Vancouver, B.C., Canada

Dear Dr. McTaggar

Although the final report by the Committee On The Yellowstone Grizzlies was forwarded to the National Park Service July 24, 1974, and thereafter copies were distributed, I have just now (Sept. 13) officially received one after writing to Dr. Hester, and also to Dr. Sheppard. I am taking the opportunity to carefully read this report and make my own evaluations.

On hurriedly reading it, I am pleased to find that most of the Committee's conclusions are almost identical or very similar to those we made in the past.

At this time I'd like to refer to one glaring error that most certainly should be corrected. On page 5, the major sources of information were credited. These were indicated to have been communications and reports from the U.S. Department of the Interior. No mention at all was made of the Environmental Research Institute in Moose, Wyoming, and the State University of New York at Albany, which I represent. As a co-investigator in the grizzly bear study, and a co-author, this seems to me to be an inexcusable omission and very unscientific.

Although I have not been in contact with your Committee as has my brother, having had no correspondence with you and only one meeting, never-the-less, half the data and information supplied to you has been the result of many long years of effort on my part. I would appreciate it if this major error in quoting sources of information available to the Committee were corrected at the first possible opportunity. I would suggest sending an errata sheet to those receiving this report, similar to the one sent out by Dr. Sheppard, August 12, 1974.

Sincerely,

Frank C. Craighead



FRANK C. CRAIGHEAD JR.
P.O. BOX 156 MOOSE, WYOMING 83012

October 23, 1974

Dr. Ian McTaggart Cowan
Dean, Faculty of Graduate Studies
University of British Columbia
Vancouver, British Columbia, CANADA

Dear Dr. Cowan:

The information as well as the conclusions and recommendations of your report have been distorted and misrepresented by the news releases put out by the Department of Interior.

I am enclosing an article that has finally brought this point to the attention of the public. It may be that you will be sufficiently interested in seeing that the truth gets out that you will look into this situation. At any rate, I just wanted to let you know what's going on on case you have not already discerned it.

Sincerely,

Frank Craighead

Frank C. Craighead, Jr.

I thought you might be interested.

FCC/nls

Environmental Research Institute

HEADQUARTERS
P. O. Box 156
Moose, Wyoming
83012

Officers and Directors

President
Frank C. Craighead, Jr.

Secretary-Treasurer
Samuel Scrivener, Jr.

Frank H. Goodyear
John J. Craighead
Gerald J. Stout
Charles R. Pihl

September 18, 1974

Dr. Ian McTaggart Cowan
Dean, Faculty of Graduate Studies
University of British Columbia
Vancouver, B.C., Canada

Dear Dr. Cowan:

Although the final report by the Committee On The Yellowstone Grizzlies was forwarded to the National Park Service July 24, 1974, and thereafter copies were distributed, I have just now (Sept. 13) officially received one after writing to Dr. Hester, and also to Dr. Sheppard. I am taking the opportunity to carefully read this report and make my own evaluations.

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Sincerely,

Frank C. Craighead Jr.

Frank C. Craighead

THE UNIVERSITY OF BRITISH COLUMBIA
2075 WESBROOK PLACE
VANCOUVER, B.C., CANADA
V6T 1W5

FACULTY OF GRADUATE STUDIES
OFFICE OF THE DEAN

September 24, 1974

Dr. Frank C. Craighead
Environmental Research Institute
P.O. Box 156
Moose Wyoming 83012
U.S.A.

Dear Frank:

I'm most sorry indeed that through an oversight, the multi-based nature of the research done by yourself and your brother escaped the attention of those who drew up the list of those we were thanking for assistance during the course of our review of the grizzly bear research and management program.

I will write today to Harvey Sheppard of the N.R.C., sending him a copy of your letter requesting that an erratum slip be circulated.

I sincerely hope that you and your brother will both find that, as a result of our review, the research and management so necessary to arrange for the long-term well-being of the grizzly in the Yellowstone ecosystem will be furthered.

Best regards.

Sincerely yours,

I. McT. Cowan, Dean
Faculty of Graduate Studies

/ap

MONTANA COOPERATIVE WILDLIFE RESEARCH UNIT

UNIVERSITY OF MONTANA
MONTANA FISH AND GAME COMMISSION
WILDLIFE MANAGEMENT INSTITUTE
FISH AND WILDLIFE SERVICE, UNITED STATES DEPARTMENT OF THE INTERIOR

UNIVERSITY OF MONTANA

MISSOULA, MONTANA 59801

October 9, 1973

Dr. Frank Craighead Jr.
P. O. Box 156
Moose, Wyoming

Dear Frank:

Enclosed, are some letters ~~and what not~~ that John wasn't sure you had gotten.

Please contact John as soon as convenient.

Sincerely,

"Ginger"

"Ginger" Schwarz

gs

THE UNIVERSITY OF BRITISH COLUMBIA

VANCOUVER 8, CANADA

FACULTY OF GRADUATE STUDIES
OFFICE OF THE DEAN

September 26, 1973

Dr. John J. Craighead
Leader, Montana Cooperative
Wildlife Research Unit
University of Montana
Missoula, Montana 59801
U. S. A.

Dear Dr. Craighead:

You will be aware that I have been asked to chair a committee of the National Research Council of the United States to inquire into the present controversy regarding the management of the grizzly in Yellowstone National Park. The committee has already met once and plans to meet in Montana and in the National Park toward the end of October. At that time, we hope to be able to meet with yourself and your brother, as well as with Glen Cole and others who can be helpful to us in providing the data upon which we will have to base our study and recommendations.

It will be essential to our study that we be able to examine all the data that will permit us to examine the various hypotheses concerning the population of bears and the trends in the population, and to this end we very much hope that you will make available to us your computer model and such supporting data as will permit us to examine the nature of the input to the model and, indeed, to run our own explorations of the various assumptions, alternative inputs and related predictions.

In making this request, we are most conscious of the sensitive situation which is created. We completely support the right of the research worker to the first publication of his data. We would like to discuss this and related problems with you when we meet in late October.

In the meantime, we would very much appreciate it if we could have any data that will permit us to examine the validity of the hypothesis that food was the limiting factor affecting the size of the grizzly bear population in Yellowstone Park and that the period of critical food shortage was the June to September period during which the natural food resources were being supplemented by garbage.

There are a number of other details that we would appreciate. I can summarize them as follows.

(a) What constituted a census? Was it a count of the maximum number of individually recognized bears seen during the entire summer period, assuming no mortality during the period?

(b) We gather that the bears not seen for two years were considered to be dead. In two cases, apparently, this was not true because the bears reappeared. To what extent does this alter the census figure for any one period?

(c) Since the counts were taken at artificial food sites, what evidence is there concerning the proportion of the park bears which did not come to dumps?

(d) What were the precise travel routes used while making back-country census? We would like dates and observations at precise points. What was the ratio of marked to unmarked bears in the back-country as against the ratio at the garbage dumps? Is there any evidence for a change in this ratio related to degree of distance from the garbage dumps?

(e) What was the demonstrated rate of tag loss in bears per annum? How was this determined; for instance, were individual bears tattooed at the time that they were marked? Has there been a purposeful program to remove the tag marks upon bears since the active research program was stopped? Has this been applied to bears caught specifically for the purpose of having their tags removed or has it been applied only to bears caught for transplant or sending to zoos?

(f) For each bear that was marked on the Craighead program, where was it marked; what was its age, sex, etc; where was it seen subsequently and what was its known fate, if any?

(g) There appears from data to have been heavy mortality between cub and yearling age. Are there any clues as to the cause of this? Can it be assumed that the percentages are based upon recognizable females, which were known to have had cubs but lacked yearlings? Is there any evidence of less than an entire litter being lost? Is there any evidence of the death of a female, but the survival of her cubs to yearling age?

(h) The paper by Glen Cole suggests no loss of cubs to yearling age in the last two years. We are not sure how these data were derived. Have you any comments?

(i) What is the evidence for emigration of bears from the Park versus the attractive force of the artificial food supply as a concentrator of bears from outside the Park? It could be that it was this attractive force that artificially inflated the apparent population of the bears within the Park. What evidence would permit us to examine these alternative possibilities?

(j) What has been the influence of the concentration of bears upon the deaths of young; for example is there any difference in the survival figure to yearling age for bears that were feeding at garbage dumps as opposed to those that were not feeding at garbage dumps. Have these figures significantly changed since garbage stocks were removed?

Very sincerely yours,

I. McT. Cowan, Dean
Faculty of Graduate Studies

/bt

cc Mr. Harvey E. Sheppard
National Research Council

Dr. Frank Craighead
President, Environmental
Research Institute
Albany, New York

NATIONAL RESEARCH COUNCIL

NATIONAL ACADEMY OF SCIENCES NATIONAL ACADEMY OF ENGINEERING

2101 CONSTITUTION AVENUE WASHINGTON D. C. 20418

DIVISION OF BIOLOGICAL SCIENCES

October 2, 1973

Dr. John J. Craighead
Leader, Montana Cooperative
Wildlife Research Unit
University of Montana
Missoula, Montana 59801

Dear Dr. Craighead:

I have been awaiting receipt of a copy of Dr. Ian Cowan's letter to you (of September 26) before getting in touch with you on details of the proposed meeting of the Committee on the Yellowstone Grizzlies in Missoula on Saturday, October 27. Dr. Cowan went no further in his letter than to say "toward the end of October," but when that is translated into action it turns out that the weekend of October 27-28 is the only time available when all of the members can be present. We just hope that the imposition on the Missoula people is not judged overmuch when we ask them for their time on a Saturday.

As Dr. Cowan has indicated, the Committee would like to spend time with you and your brother on the 28th, and we would greatly appreciate it, since you are "on site," so to speak, if you would look into a meeting room that would hold perhaps 8-10 persons. It would be most convenient, of course, if this were in the near vicinity of your working data files, but I leave this to your best judgment. Generally, the Committee would plan to spend two nights in Missoula (accommodations are already taken care of) and to spend the day Saturday with you and your data, and in discussions with two other Missoula-based persons (Roger Bumstead and Robert Phillips). I will be writing Mr. Bumstead and Mr. Phillips separately, but will tell them that I have asked you to check into the matter of a meeting place.

I note that Dr. Cowan directed his copy of the September 26 letter to your brother in New York, but I wonder if it should not

have gone to Moose, Wyoming. We will impose on you to keep him informed and hope that the October 28 date is possible, albeit perhaps not convenient, for him.

We will be grateful for any help you can provide in making arrangements for the Missoula phase of the Committee meeting. Please let me know right away if any insurmountable obstacles show up.

Sincerely,

R. B. Stevens

Russell B. Stevens
Executive Secretary

October 31, 1973

Dr. Harvey E. Sheppard
Division of Biological Sciences
National Academy of Sciences
2101 Constitution Avenue
Washington, D.C. 20418

COPY

Dear Dr. Sheppard:

I am enclosing the completed travel expense voucher forms for reimbursement for expenses incurred on my recent trip to Missoula.

It was a pleasure to get to know you and I look forward to a future meeting.

Sincerely,

Frank Craighead, Jr.

Encl:

FCC/pw

FORM NO. 6
AMENDED 2-70

TRAVEL EXPENSE VOUCHER

TO COMMITTEE STAFF OFFICER

NATIONAL ACADEMY OF SCIENCES • NATIONAL RESEARCH COUNCIL • NATIONAL ACADEMY OF ENGINEERING
2101 Constitution Avenue, Washington, D.C. 20418

See Instructions on Reverse Side
Please furnish all information requested—Incomplete vouchers may be returned

TO Dr. Frank C. Craighead, Jr., Sr. Research Associate, DATE Oct. 31, 1973
Name of Claimant

Atmospheric Sciences Research Center, P.O. Box 156, Moose, Wyoming 83012
Address

Committee or Office National Academy of Sciences, Committee on Yellowstone Grizzlies

PURPOSE OF TRAVEL: Include name of persons or organization visited, date and location of meeting Dr. Ian McTaggart Cowan, Committee Chairman. Meetings were 10/27/73 in Missoula, Montana.

Date and Hour of Departure ~~10/26/73 at 12:51 p.m.~~ Date and Hour of Return ~~10/29/73 at 4:28 p.m.~~

TRANSPORTATION: Attach Passenger Coupon

ITINERARY FROM City and State	ITINERARY TO City and State	Name of Line	Class of Service or Special Accommodations	Private Auto Mileage (Para 4)	AMOUNT (Para 8)
Jackson, Wyoming	Missoula, Montana	Frontier	xxx Economy class	no	$106.56 air fare

When claiming reimbursement for greater than economy class fare, please indicate reason below (Para 12)

☐ Only available ☐ Medical requirement ☐ Other no

RENTAL CAR: Attach rental invoice (Para 9) no

TAXI FARES AND PARKING no

SUBSISTENCE

HOTELS: Number of nights attach hotel receipt $

MEALS (For seven meals) $20.25

OTHER SUBSISTENCE COSTS

Total Subsistence Costs (Para 11) $20.25 ~~xxxx~~

TELEPHONE AND TELEGRAPH no

OTHER COSTS no

I certify that these charges, incurred by me, are correct and proper

SIGNATURE _____
Claimant

Total	$ 126.81
Less Advance	none
Balance Due	$ 126.81

CLAIMANT NOT TO WRITE BELOW THIS LINE

DIVISION _____ COMMITTEE OR OFFICE _____

APPROVAL: I certify that the above travel was duly authorized and I approve claim for payment

FOR DIVISION _____ FOR COMMITTEE OR OFFICE _____

ACCOUNT / FUND Type	Number	Sub	Object Class	Amount	Obligation Amount	Obligation Number

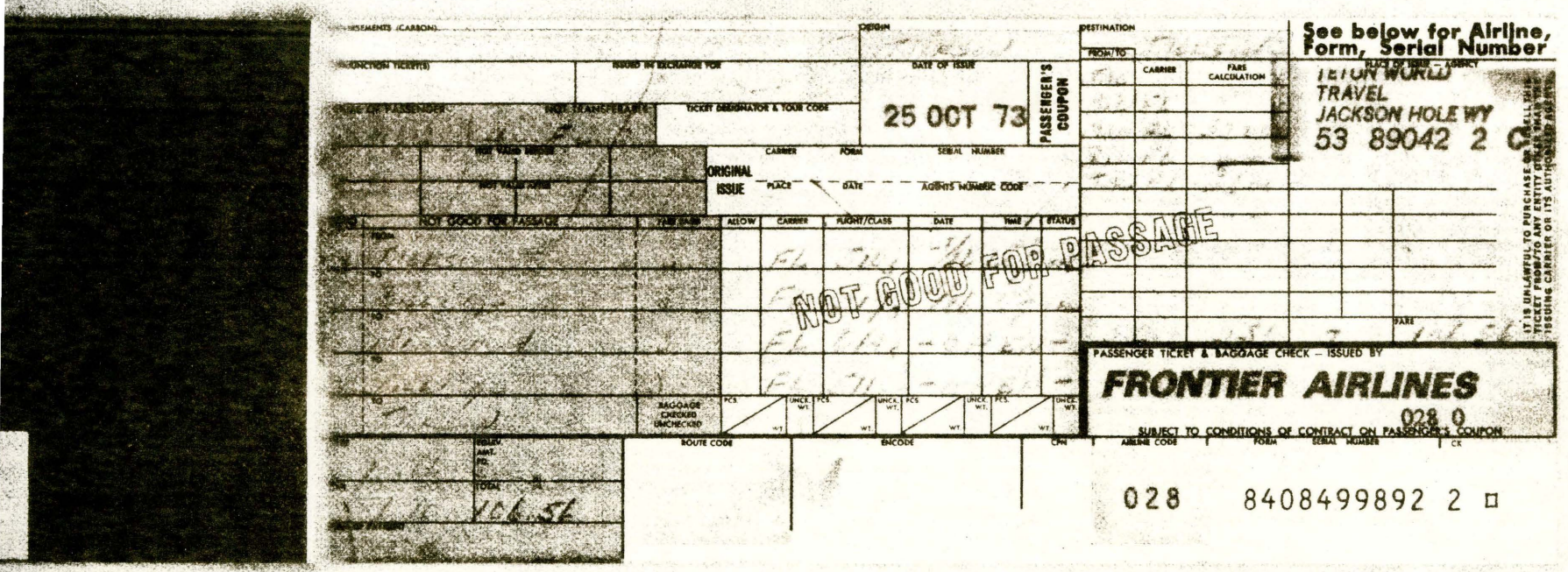
FOR ACCOUNTING OFFICE USE ONLY

Special Approvals _____

Audited _____ Date _____

Approved _____ Date _____

Check No. _____ Date _____



ISSUED IN EXCHANGE FOR

DATE OF ISSUE
25 OCT 73

PASSENGER'S COUPON

TICKET DESIGNATOR & TOUR CODE

ORIGIN

DESTINATION

FROM/TO

CARRIER

FARE CALCULATION

See below for Airline, Form, Serial Number

TETON WORLD
TRAVEL
JACKSON HOLE WY
53 89042 2 C

NOT VALID BEFORE

NOT VALID AFTER

ORIGINAL ISSUE

CARRIER FORM SERIAL NUMBER

PLACE DATE AGENT'S NUMERIC CODE

NOT GOOD FOR PASSAGE

ALLOW CARRIER FLIGHT/CLASS DATE YEAR STATUS

NOT GOOD FOR PASSAGE

FARE

PASSENGER TICKET & BAGGAGE CHECK — ISSUED BY

FRONTIER AIRLINES

028 0

SUBJECT TO CONDITIONS OF CONTRACT ON PASSENGER'S COUPON

AIRLINE CODE FORM SERIAL NUMBER CK

028 8408499892 2 □

BAGGAGE CHECKED UNCHECKED

PCS. UNCK. WT. PCS. UNCK. WT. PCS. UNCK. WT. PCS. UNCK. WT.

WT. WT. WT. WT.

ROUTE CODE ENCODE CPN

TOTAL

106.52

Frank C

THE UNIVERSITY OF BRITISH COLUMBIA

VANCOUVER 8, CANADA

FACULTY OF GRADUATE STUDIES
OFFICE OF THE DEAN

October 30, 1973

Dr. John J. Craighead
Leader, Montana Cooperative
Wildlife Research Unit
University of Montana
Missoula, Montana 59801
U.S.A.

Dear John:

It was very good of you and your brother to spend a long and useful day with us last Saturday. Arising out of our discussions with you and later with Cole and his colleagues in Yellowstone Park there are a number of questions on which we would very much appreciate specific details. Several of these we have already discussed with you and you agreed to let us have the information but I thought it better to summarize everything in one place for both our references.

The questions are these:

1) We would very much appreciate the details concerning the trial runs on population estimates that you did using the Peterson index and the Schnabel index.

2) There seems to be a discrepancy between figures you have and the figures Cole has concerning the bears killed inside and outside the park by years. The discrepancy regarding inside the park is very small and amounts to I think one bear in one year, however, the discrepancy for mortalities occuring outside the park is sufficiently large to be important. For instance, in 1971, you record 12 bears killed in Wyoming; Cole's records cover only 6. In the same year your records show 22 killed in Montana; the information Cole has shows just 20. Could you give us the precise details concerning the mortalities in each of these years and places as you have them?

3) We would much appreciate a list covering all the years of your study showing frequencies of litters of 1, 2 and 3 offspring. We would appreciate having this only for individually different bears for any one year.

4) Your chart of the full breeding history of 15 identifiable females is a rich source of very important data. I understood you to say that you have approximately a total of 30 individualized histories. If it is not too difficult to assemble the data we would very much appreciate having access to this.

cont'd.

5) There is a discrepancy in the notes taken by some of us concerning your estimate of the number of females breeding at 2 year intervals and 3 year intervals. This we can obtain from your chart of breeding histories. However, we would appreciate a statement from you concerning the summarized figure for the proportion of females of breeding age known to be breeding, that is, to have produced cubs in any one year.

6) The ratios of marked to unmarked animals definitely identified in each category during back country surveys. The evidence of the known marked to unmarked ratio as taken from bears shot outside the park is 16% lower than the average figure (39%) of marked to unmarked bears within the park. This is extremely important in making any adjustments that may have to be made in estimating the population. Is it possible from your data to develop a marked to unmarked ratio in concentric circles around the known marking site for each bear? Say we took the circles as 10 miles apart or 20 miles apart, whatever your data will support. It would be extremely useful to know whether there is any evidence that can be derived in this way of a decrease in the % of marked bears related to distance away from the original marking site.

7) I think we will all agree that it is impossible to get accurate sex ratios of adult bears by the techniques of marking and subsequent field evaluation. However, you can be absolutely certain of the sex ratios of cubs handled by you and of yearlings handled by you. Looking back through your data you may find that there are 2 year olds that had a behavioural history which enabled you to identify supportable sex ratios on the basis of animals that you had marked as cubs or yearlings. Beyond that age it seems to me that the very strong evidence from all other studies of bears is that the males occupy larger home ranges and move more than females and are thus going to be over-represented in any sampling program.

It may be possible to get at the data in a round about way working from the known ages of your sample of adult bears, but even this will tend to be somewhat biased. The maximum age situation for each of the groups could provide us with a clue if we assumed a steady mortality rate through the years of adult activity, but the numbers involved are so small.

I welcome your comments on this matter of adjustments that should be made in the observed sex ratio when one is estimating the population. Another way of approaching it might be to run a Schnabel index on the 2 sexes separately rather than on the total population.

I am sure that you will agree that even minor alterations in ratio figures can make a very great deal of difference when we are considering a population of relatively small size and mortality rates at the level that they have been observed.

cont'd.

8) Inasmuch as you said that you have been unable to get hold of the actual details of tagged bears which had been removed from the population in the last few years I am sending you a copy of the list given to us by Glen Cole.

9) Do you have any probability figures for any individual bear being seen at the dump subsequently to its being originally marked?

10) What evidence is there that the camp ground bears included or did not include a disproportionate % of 3 and 4 year old young that had been born to bears habituated to feeding on the garbage dumps? Put another way, were the camp ground bears weighted in the direction of the newly graduated young?

With very best regards.

Sincerely yours,

I. McT. Cowan, Dean
Faculty of Graduate Studies

c.c. Members of the Committee
on Yellowstone Grizzlies

/sa

Enumeration of data from Table 4 (Interim Report)

GRIZZLY BEAR REMOVALS DUE TO CONTROL IN YELLOWSTONE NATIONAL PARK, 1970-72

Date	Sex	Age[1/]	Marked	Removed from:	Action:
5/29/70	M	I	NPS-1785	Old Faithful	Unintentional
6/ 9/70	M	I	NPS-1784	Slough Cr.	INTENTIONAL
6/14/70	F	A		Grant Village	Unintentional
6/16/70	F	I		Grant Village	Zoo
6/16/70	F	I		Grant Village	Zoo
6/16/70	M	I		Grant Village	Zoo
6/18/70	F	I		Tower	Unintentional
6/28/70	M	A		Old Faithful	Unintentional
7/ 3/70	M	A	Craghd. #171; NPS-1781	Old Faithful	Zoo
7/ 4/70	M	A	NPS-1786	Grant Village	INTENTIONAL
7/ 4/70	F	I	NPS-1960	Madison	Zoo
7/ 6/70	M	I	Crghd. #247	Fishing Bridge	Zoo
7/17/70	F	I	NPS-1789	Fishing Bridge	Unintentional
7/31/70	M	I	NPS-1782	Slough Cr.	INTENTIONAL
8/11/70	F	A	Crghd. M1 (pink pndt.)	Lake	Unintentional
8/13/70	F	A	Crghd. #184 (G484)	Canyon	INTENTIONAL
9/ 7/70	F	A		Grant Village	Zoo
9/ 7/70	F	I		Grant Village	Zoo
9/14/70	F	A	Crghd. #8	Grant Village	INTENTIONAL
9/14/70	M	I		Grant Village	INTENTIONAL
1970 total = 20					
6/21/71	M	A	Crghd. G618, G363	Canyon	INTENTIONAL
7/ 7/71	M	A	NPS-1956	Fishing Bridge	INTENTIONAL
7/18/71	F	I	NPS-7121	Fishing Bridge	Unintentional
7/24/71	F	A	Crghd. G740	Canyon	Unintentional
7/29/71	F	A	Crghd.00-164; NPS-7132	Canyon	INTENTIONAL
8/ 4/71	M	A	Crghd.G356, G27	Plover Pt.	INTENTIONAL
1971 total = 6					
6/26/72	F	A	NPS-1792	Riverside Geyser	INTENTIONAL
7/14/72	M	A	Crghd. #211 (G734)	Bridge Bay	Zoo
7/17/72	M	A	NPS-7201	Bridge Bay	Unintentional
7/29/72	M	A	NPS-7122	Bridge Bay	INTENTIONAL
8/ 4/72	M	A	Crghd.tag/rope;NPS7209	Canyon	INTENTIONAL
8/16/72	M	A	Crghd. G183	Canyon	Unintentional
8/20/72	F	A	Crghd. G37	Clear Creek	Unintentional
8/24/72	F	A	NPS-7275	Fishing Bridge	Unintentional
8/24/72		I	NPS-7273	Fishing Bridge	Unintentional
1972 total = 9					

1/ I = immatures (cubs to 3-yr-olds); A = adults (4+)

MONTANA COOPERATIVE WILDLIFE RESEARCH UNIT

UNIVERSITY OF MONTANA
MONTANA FISH AND GAME COMMISSION
WILDLIFE MANAGEMENT INSTITUTE
FISH AND WILDLIFE SERVICE, UNITED STATES DEPARTMENT OF THE INTERIOR

UNIVERSITY OF MONTANA

MISSOULA, MONTANA 59801

November 13, 1973

I. McT. Cowan, Dean
Faculty of Graduate Studies
University of British Columbia
Vancouver 8, Canada

Dear Ian:

I'm sorry to be so late in answering your letter of October 30, but I have been away from the office for a number of days.

Our meeting with your committee was, I am sure, as informative for us as it was for you. We will do our best to provide you with information needed for your committee to evaluate our research effort and to critically review our population analysis. The questions you posed in your letter of October 30 will require some time to answer, but I will start on the task immediately. I am forwarding copies of your letter to other members of our research team to get the benefit of their thinking and to keep all of them informed.

I have a few questions on which I would appreciate answers but first will attempt to place some facts and events in perspective for both of our references and so that we begin a very delicate task with no misunderstandings. I think you should know that I had not been officially informed about the formation of your committee or its mandate. Your letter of September 26, 1973, asking for information was the first official notice that I received, although I had seen press releases. I tried to obtain information from my superiors in Washington, D. C., but they were unable to inform me. It was not until October 19 that I received a list of the committee members. Mr. Peterson did not contact me when he conferred with other participants involved in this inquiry.

Therefore:

1. Please supply me with the mandate to the committee or a copy of the mandate or directive that you have received from the National Academy of Sciences.

This information has been requested by my colleagues in the grizzly bear research, and I too need to know the mandate of your investigation. Please do not interpret this as a reluctance to cooperate fully; it is rather a need to have more specific information so we can work cooperatively toward a common goal and at the same time I can meet my

responsibilities and obligations to my research partners and to our financial supporters.

2. I have some questions concerning the nature of your report. Is it to be published? If so, is it to be a general evaluation of our published findings and recommendations as stated in our last manuscript, titled, A Computer Analysis of the Yellowstone Grizzly Bear Population?

The unpublished data you have requested, I presume, will be used only for committee evaluation of our findings, conclusions and recommendations prior to our interpretation and publications of them in our own scientific papers. I can conceive that your committee may find it necessary to use some of our unpublished data to compare with data or conclusions of National Park Service biologists. Should this be the case and should it be necessary to publish these, I am confident that we can work out an arrangement satisfactory to all of us.

A complete understanding on these points is essential.

Sincerely,

John Craighead

John J. Craighead, Leader
Mont. Coop. Wildl. Res. Unit

XC: Members of the Committee on Yellowstone Grizzlies
Dr. Frank C. Craighead, Jr.
Joel Varney
Dr. Maurice Hornocker

JJC:gs

MONTANA COOPERATIVE WILDLIFE RESEARCH UNIT

UNIVERSITY OF MONTANA
MONTANA FISH AND GAME COMMISSION
WILDLIFE MANAGEMENT INSTITUTE
FISH AND WILDLIFE SERVICE, UNITED STATES DEPARTMENT OF THE INTERIOR

UNIVERSITY OF MONTANA

MISSOULA, MONTANA 59801

October 9, 1973

Office - 604 243-2932
2931

Home 604-224-3862

Ian McTaggart

I. McT. Cowan, Dean
Faculty of Graduate Studies
University of British Columbia
VanCouver 8, Canada

Dear Dr. Cowan:

I must conclude from your letter of September 26, 1973, that you have not received a copy of our report, A Computer Analysis of the Yellowstone Grizzly Bear Population, July 15, 1973. A copy is enclosed.

I believe that this report will answer most of the questions you have posed and will no doubt raise others. If you will provide me with the names and addresses of the other members of your committee, I will also send each a copy of our population analysis as well as copies of all of our publications that are cited in the report. I am confident that we can have a much more meaningful discussion on October 27 if you and your committee have reviewed our latest and most comprehensive treatment of thirteen years of data.

I will assemble information on those questions you have asked that are not specifically answered in our report and will be prepared to discuss these with you when we meet. Materials relating to these questions will be made available to you here rather than sent because some of the data are on large 4' x 5' maps and graphs that cannot be readily duplicated.

Very Sincerely,

John Craighead

John J. Craighead, Leader
Mont. Coop. Wildl. Res. Unit

JJC:gs

THE UNIVERSITY OF BRITISH COLUMBIA
VANCOUVER 8, CANADA V6T 1W5

FACULTY OF GRADUATE STUDIES
OFFICE OF THE DEAN

January 31, 1974

Dr. John Craighead
Montana Cooperative Wildlife Research Unit
The University of Montana
Missoula, Montana 59801
U. S. A.

Dear John:

I am sorry to have been so long in replying specifically to your letter of December 19, but I wanted to hold my reply until the Committee had had a chance to discuss the contents of your letter. We did this at our most recent meeting in Seattle about a week ago.

In the view of the Committee they have undertaken a commitment to analyze and report upon all data available, and to have this report completed by the end of May, 1974. The controversy has reached levels of bitterness which are creating very unfortunate consequences in many parts of the world and we feel that it is important that we have our report ready as quickly as possible.

I am sure you will accept our view that the only basis upon which we, or anyone else, can form conclusions are data analyzed and exposed to the critical scrutiny of one's peers. With this in view, therefore, we will reach our judgment on the basis of data which have been made available to us in published form or in direct response to our queries directed to yourself and to Glen Cole.

Naturally, we want to reach the best possible decision and if there are important bits of evidence which have not been brought to our attention, but are in a form in which analysis can be undertaken and the results entered into our conclusion, these indeed will be most helpful.

The Committee has decided that it would like to submit the analytical section of its report to yourself and to Glen Cole so that each of you may study it in detail and with great care, and make any substantive input that you feel would be helpful. I am sure that you will appreciate

our view that we cannot reach conclusions beyond available data so that if either of you are going to request us to change any of our findings it will be necessary to present the data which clearly supports the change requested.

I am sure you will appreciate our request that this preliminary draft of our report remain in strictest confidence.

In the meantime you will be hearing from Mr. Sheppard with regard to some special points, and you may also get specific requests for assistance from one or two other members of the Committee. Each of us have undertaken to draft a separate section of the report so that we can make progress on it rapidly.

With best regards.

Sincerely yours,

I. McT. Cowan, Dean
Faculty of Graduate Studies

/bt

THE UNIVERSITY OF BRITISH COLUMBIA

VANCOUVER 8, CANADA

FACULTY OF GRADUATE STUDIES
OFFICE OF THE DEAN

November 23, 1973

Dr. John J. Craighead, Leader
Montana Cooperative Wildlife
Research Unit
University of Montana
Missoula, Montana 59801
U. S. A.

Dear John:

I quite appreciate the matters raised in your letter of November 13 and the importance of them to you. I can only apologize over the neglect that led to your not being informed of the establishment of the committee, nor the names of those that had been appointed to it.

I shall ask the Secretary of the Committee, Mr. Russell B. Stevens, to send you a copy of the mandate or directive that is to guide the work of the National Academy meetings.

Your second question concerns the nature of our report. It is still too early for us to have formed any clear opinion as to how the report will be structured. Our present thinking is, as I outlined it in my preliminary remarks at Missoula, that we will undertake all the studies necessary for us to attempt to designate the present status of the grizzly bear population in and adjacent to Yellowstone National Park and any trends that are discernible within this population. I think it is possible that we will proceed from there to make some general recommendations with reference to any problems that we see and management measures that might be taken to alleviate these problems.

I have no way of knowing whether the report is to be published or not. However, I would assume that it will be because I am a great believer in complete public exposure of the nature of the input and the nature of the conclusions reached in reports of studies such as the one we are undertaking.

The unpublished data that we have requested and have been receiving from yourself and from others will be used with every possible discretion. At a time when our report is approaching a final stage, it seems to me that it would be most appropriate to consult with yourself and with others who have provided unpublished data for permission to publish such of it as we may find it necessary to use. This

is a matter which concerns me greatly because I am only too well aware of the prior rights to publication that accrue to the scientist who obtained the data in the first place.

We are attempting to aim for a deadline in the month of May. I think it is unlikely that we will be finished with the study and subsequent report before that time, but I think May may well be a possibility.

The help of yourself and Frank is absolutely essential to the task which we have undertaken on behalf of all of us who are concerned with the survival of a healthy population of grizzlies in your part of North America, and I know that every member of the committee appreciates the frankness with which you have discussed all relevant matters with us and the very large body of essential data which you have put at our disposal.

Best regards.

Sincerely yours,

I. McT. Cowan, Dean
Faculty of Graduate Studies

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THE UNIVERSITY OF BRITISH COLUMBIA

VANCOUVER 8, CANADA

FACULTY OF GRADUATE STUDIES
OFFICE OF THE DEAN

November 23, 1973

Dr. John J. Craighead
Leader, Montana Cooperative
Wildlife Research Unit
University of Montana
Missoula, Montana 59801
U. S. A.

Dear John:

I have been in touch with Harvey E. Sheppard of the Biological Sciences Division of the National Research Council concerning one or two queries raised in your letter to me of November 13. The National Academy of Sciences does not ordinarily issue "formal" mandates or directives to its committees. The committee on the Yellowstone grizzlies was proposed in a letter to Dr. Philip Handler, President of the National Academy of Sciences, from the Honourable Rogers C. B. Morton, Secretary of the Interior, dated February 6, 1973. The Council of the National Academy of Sciences approved acceptance of this task at its March meeting, and, based on a proposal submitted to the U.S. Department of the Interior, a contract was signed on June 27, 1973 between the Department and the National Academy of Sciences.

The contract sets forth the objectives of the committee as follows:

"The National Academy of Sciences, through its division of Biology and Agriculture, NRC, will establish a committee to study and evaluate data on population dynamics of the grizzly bears in Yellowstone National Park, and to make recommendations as to the scientific and technical implications of those data. The study has two objectives:

(a) To evaluate existing data and assess the impact of part policies on the grizzly population.

(b) To provide, if available data warrant, guidance to the National Park service for the future that will ensure the integrity of the Yellowstone grizzly bear population."

This constitutes the official charge to the committee. Within that charge the committee has substantial freedom to conduct its affairs as it sees best. The committee is to submit its report in six copies to the contractor by May 31, 1974. The NAS customarily releases the findings of its studies 30 days after delivery to the contracting agency.

Whether or not the report is formally published will in large measure be up to the National Park service. Such reports are often made available to the public through the National technical information service, or by some other appropriate means.

You will note that the formal contract refers specifically to the Yellowstone National Park. It is the view of the committee that restriction within those geographic boundaries would be inappropriate and would inhibit the committee from reaching adequate conclusions with reference to the entire population. Thus, we will do the best we can to gather such data as are available from the adjacent areas under the jurisdiction of the several states, or of the United States Forest Service, and include these within our analyses. I hope this clarifies certain of the questions that you quite naturally had in your mind.

You will have recently received a letter from Richard Knight and with it a series of comments arising from a study of your data and analyses by the biologists at Yellowstone National Park. They raise some interesting questions which are very important to all of us in reaching a full understanding of the data and the inferences that can be drawn from them.

I would much appreciate your sending me your comments on these questions.

Best regards.

Sincerely yours,

I. McT. Cowan, Dean
Faculty of Graduate Studies
and Chairman of Grizzly
Bear Committee

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MONTANA COOPERATIVE WILDLIFE RESEARCH UNIT

UNIVERSITY OF MONTANA
MONTANA FISH AND GAME COMMISSION
WILDLIFE MANAGEMENT INSTITUTE
FISH AND WILDLIFE SERVICE, UNITED STATES DEPARTMENT OF THE INTERIOR

UNIVERSITY OF MONTANA

MISSOULA, MONTANA 59801

November 29, 1973

Dr. Frank C. Craighead, Jr.
P.O. Box 156
Moose, Wyoming

Dear Frank:

Please read these letters of November 23 from Dr. Cowan and send me your comments in writing, and if possible, also to Joel.

Kindest personal regards.

Sincerely yours,

John J. Craighead, Leader
Mont. Coop. Wildl. Res. Unit

JJC:Gnh

Enclosures