

LEGISLATIVE FINANCE-HOUSE / SENATE FINANCE COMM. FILES 8879

HB 481 cont. - HB 484 1111 1111 535 126

ALASKANS FOR JUNEAU
P.O. Box 22428
Juneau, AK 99801
463-5065

PETITION ON RECYCLING

We the undersigned believe that the U.S. government and, more specifically, the government of the State of Alaska should develop policies that would encourage, and provide initiatives for the development of the recycling industry within our state and our nation. Also, all communities and cities, because of the diversity throughout our state and nation, should be encouraged to research and establish specific recycling programs for their particular areas.

A viable and efficient recycling program would provide new jobs, add to our economic stability and diversity, encourage new technologies, and begin to establish that we, as Alaskans and U.S. citizens, are serious about our commitment towards ~~the~~ economy that is compatible with a healthy global environment.

DATE	NAME (please print)	ADDRESS
2/14/90	John Howe	6087 Thane Rd. 9980
2/14/90	Dana Ford	3181 Nowell Ave Juneau Ak 99801
2/14/90	BETHANA F MITCHELL	3181 NOWELL AV JUNEAU 99801
2/14/90	David Sause	126 W. 7th Juneau AK 99801
2-14-90	GAIL SAUS	Box 33201 Juneau Ak 99803
2-14-90	Carol Youngquist	995 Mendenhall Penn Rd Juneau 99801
2-14-90	CRAIG YOUNGQUIST	995 Mendenhall Pen Rd Juneau 99801
2-14-90	LAURIE FERGUSON CRAIG	10825 Glacier Hwy / PO Box 33306 / WU 99803
2/14/90	Janis Pohl	PO Box 22316 Juneau AK 99802
2/14/90	BILL LEIGHTY	Box 020993 Juneau, AK 99802
	Cliff Motzer	600 No Douglas Juneau AK
2/14/90	Nanelle McCarthy	6749 Sherri St. Juneau 99802
2-14-90	Shar La Chapelle	638 Gold St. Juneau 99801
2-14-90	Martha Moore	412 Gastineau Ave Apt 2 Juneau 99801
2-14-90	Ellen Z. Ferguson	7925 N. Douglas Hwy. Juneau 99801

FISCAL NOTE

REQUEST:

Revision Date: _____ Agency Affected: Office of the Governor
 Title: "An Act relating...: establishing BRU: Executive Operations
a waste reduction and recycling task force..."
 Sponsor: Rep. Finkelstein, et al Components: _____
 Requestor: _____

EXPENDITURES/REVENUES: (Thousands of Dollars)

OPERATING	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96
PERSONAL SERVICES						
TRAVEL						
CONTRACTUAL	5.0	5.0				
SUPPLIES						
EQUIPMENT						
LAND & STRUCTURES						
GRANTS, CLAIMS						
MISCELLANEOUS						
TOTAL OPERATING	5.0	5.0				

CAPITAL						
---------	--	--	--	--	--	--

REVENUE						
---------	--	--	--	--	--	--

FUNDING: (Thousands of Dollars)

GENERAL FUND	5.0	5.0				
FEDERAL FUNDS						
OTHER						
TOTAL	5.0	5.0				

POSITIONS:

FULL-TIME	-	-				
PART-TIME						
TEMPORARY						

ANALYSIS : (Attach a separate page if necessary)

See attached analysis

Prepared by: Michael A. Nizich, Director *Maw*
 Division: Administrative Services Phone: 465-3616
 Date: 2/21/90

Approved by Commissioner: Garrey Peska, Chief of Staff
 Agency: Office of the Governor Date: 2/21/90

Distribution (by preparer) :

- Legislative Finance
- Legislative Sponsor
- Requestor
- Office of Management and Budget
- Impacted Agency(ies)

HB 481 Analysis

Analysis assumes travel and per diem costs and staff needs for task force meetings will be provided by the participating agencies. Fiscal note provides for contractual costs for required legislative reports in 1991 and 1992 only.

CONTRACTUAL 5.0

Professional services for report writing	3,000
Advertising, Printing & Binding:	
Report printing	2,000

HB

481

SENATE FINANCE COMMITTEE REPORT

DATE: 4/21/90

FURTHER: _____

DATE TURNED INTO OFFICE: 5/5/90

The Finance Committee considered

CSHB 481 (Finance) am

"An Act relating to state procurement of recycled paper and other products and to the state's use of paper; relating to the disposition of state property that is recyclable; establishing a waste reduction and recycling task force; and providing for an effective date."

and recommended:

replace with _____ CS _____
 or adopt _____ CS _____

same title
 new title
 technical title change (HB only)

attached amendment(s)

_____ letter of intent adopted

do pass

do not pass

no recommendation

individual recommendations

further referral to _____

ATTACHES NEW FISCAL NOTE(S):

Dept/Date:

fiscal note(s) _____

zero fiscal note(s) _____

appropriation-no fiscal note

APPROVES PREVIOUS:

Dept/Date:

fiscal note(s) DOA 4/11/90

16.8

zero fiscal note(s) _____

HFC/ Gov 3/12/90

SIGNING DO PASS:

OTHER RECOMMENDATIONS:

True/Leave

[Signature]

1. John [Signature] DO PASS

2. [Signature] NO PASS

Co-Chairs: Signatures and Recommendations

FISCAL NOTE

REQUEST:

Revision Date: _____ Agency Affected: Administration
 Title: An Act relating to State procurement BRU: General Services and Supply
of recycled paper and other products . . .
 Sponsor: Finkelstein Components: Purchasing, Central Duplication
 Requestor: _____

EXPENDITURES/REVENUES: (Thousands of Dollars)

OPERATING	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96
PERSONAL SERVICES	0	0	0	0	0	0
TRAVEL	0	0	0	0	0	0
CONTRACTUAL	2.5	0	0	0	0	0
SUPPLIES	14.3	14.3	14.3	14.3	23.8	23.8
EQUIPMENT	0	0	0	0	0	0
LAND & STRUCTURES	0	0	0	0	0	0
GRANTS, CLAIMS	0	0	0	0	0	0
MISCELLANEOUS	0	0	0	0	0	0
TOTAL OPERATING	16.8	14.3	14.3	14.3	23.8	23.8
CAPITAL	0	0	0	0	0	0
REVENUE	0	0	0	0	0	0

FUNDING: (Thousands of Dollars)

GENERAL FUND	16.8	14.3	14.3	14.3	23.8	23.8
FEDERAL FUNDS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	16.8	14.3	14.3	14.3	23.8	23.8

POSITIONS:

FULL-TIME	0	0	0	0	0	0
PART-TIME	0	0	0	0	0	0
TEMPORARY	0	0	0	0	0	0

ANALYSIS: (Attach a separate page if necessary)

This bill has a minimal impact on the purchasing activities of the Division of General Services and Supply, but is estimated to increase the contract cost paid for paper by Central Duplication and used by the executive branch. No impact is expected during FY 90. (See Attached Analysis)

Prepared by: Robert J. Link *R. J. Link*
 Division: General Services and Supply

Phone: 465-2250
 Date: 4/1/90

Approved by Commissioner: Frank S. Baxter *Frank S. Baxter*
 Agency: Department of Administration

Date: 4/11/90

Distribution (by preparer):
 Legislative Finance
 Legislative Sponsor
 Requestor
 Office of Management and Budget
 Impacted Agency(ies)

Adopted

CONTINUATION of FISCAL NOTE ANALYSIS

For HB 481

We have no way to be certain how much paper is purchased by all agencies this bill would cover. Based on annual consumption records for various writing and printing paper master contracts, we estimate approximately \$1.3 million is purchased per year by the executive branch through bid contracts. In general, we believe that copy paper, bond paper, and ruled tablet type paper accounts for about \$650,000. Laser and computer paper constitutes another \$650,000.

Other types of paper products such as envelopes and janitorial total approximately .5 million.

For FY 91, 92, 93, and 94, Section 1 of this bill would require that 15 percent of all paper purchased to have recycled content, if available, and if the paper would not be more expensive than nonrecycled paper after application of a 10 percent preference. Section 2 of the bill will increase the quantity of paper requiring recycled content to 25 percent in FY 95 and thereafter.

Assumptions:

* Estimated annual cost of paper \$1,900,000

* FY 91-94 \$1,900,000 x 15% = \$285,000

If recycled paper is available and within 5 percent of nonrecycled, the cost impact of the product preference is estimated to be \$285,000 x 5% = \$14,250.

* FY 95 and beyond \$1,900,000 x 25% = \$475,000

If recycled paper is available and within 5 percent of nonrecycled, the cost impact of the product preference is estimated to be \$475,000 x 5% = \$23,750.

The increased cost to the State for purchase of paper with recycled content during the first four years of the preference at 15 percent recycled content is estimated to be \$14,250. Costs will increase to approximately \$23,750 per year beginning in FY 95. This preference could apply to other products beyond paper.

Section 4 of the bill will require the Department to develop the required amount of recycled content a product must have to qualify for the preference. The Department of General Services and Supply would enter into a consortium with other states through the National Association of State Purchasing Officials (NASPO) to commission ASTM to develop recycled paper specifications for states. Alaska's share of the one time cost would be \$2,500.

Section 6 of the bill will require State agencies to use both sides of paper when feasible. This should result in savings of paper, but there is no way to accurately predict the cost savings from the use of both sides of paper.

A S S U M P T I O N S
ANNUAL PAPER PRODUCT COSTS

	PRIOR YEAR COSTS	ESTIMATED ANNUAL COSTS
Xerox and Bond	\$425,000	\$600,000
Legal Pads	35,000	50,000
Pleading Paper	20,000	20,000
Computer Paper	204,000	300,000
Laser Paper	305,000	350,000
Card Stock	43,000	43,000
Envelopes	82,000	85,000
Janitorial	240,000	240,000
Food Service Paper	150,000	150,000
Boxes	20,000	25,000
	<hr/> \$1,569,000	<hr/> \$1,863,000

FISCAL NOTE

REQUEST:

Revision Date: 3/12/90 Agency Affected: Office of the Governor
 Title: "An Act relating... establishing a waste reduction and recycling task force..." BRU: Executive Operations
 Sponsor: Rep. Finkelstein et al Components: _____
 Requestor: _____

EXPENDITURES/REVENUES: (Thousands of Dollars)

OPERATING	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96
PERSONAL SERVICES						
TRAVEL						
CONTRACTUAL						
SUPPLIES						
EQUIPMENT						
LAND & STRUCTURES						
GRANTS, CLAIMS						
MISCELLANEOUS						
TOTAL OPERATING	-0-	-0-	-0-	-0-	-0-	-0-
CAPITAL	-0-	-0-	-0-	-0-	-0-	-0-
REVENUE	-0-	-0-	-0-	-0-	-0-	-0-

Adopted

FUNDING: (Thousands of Dollars)

GENERAL FUND	-0-	-0-	-0-	-0-	-0-	-0-
FEDERAL FUNDS						
OTHER						
TOTAL	-0-	-0-	-0-	-0-	-0-	-0-

POSITIONS:

FULL-TIME	-0-	-0-	-0-	-0-	-0-	-0-
PART-TIME						
TEMPORARY						

ANALYSIS : (Attach a separate page if necessary)

Prepared by: House Finance Committee Phone: 465-3727
 Division: Co-Chairman Ron Larson *Ronald J. Larson* Date: 3/12/90
Co-Chairman Lyman Hoffman
 Approved by Commissioner: *Lyman Hoffman* Date: 3/12/90
 Agency: _____

Distribution (by preparer):

- Legislative Finance
- Legislative Sponsor
- Requestor
- Office of Management and Budget
- Impacted Agency(ies)

Amended: 4/4/90
Offered: 3/13/90
Referred: Rules

6-1988H

Original sponsor(s): REP. FINKELSTEIN, Menard, Navarre, Ulmer, Brown,
Boyer, Koponen, Boucher, Ellis, M.Davis, Swackhammer, Kubina, Goll

1 IN THE HOUSE BY THE FINANCE COMMITTEE

2 CS FOR HOUSE BILL NO. 481 (Finance) am

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 SIXTEENTH LEGISLATURE - SECOND SESSION

5 A BILL

6 For an Act entitled: "An Act relating to state procurement of recycled
7 paper and other products and to the state's use of
8 paper; relating to the disposition of state property
9 that is recyclable; establishing a waste reduction
10 and recycling task force; and providing for an effective
11 date."

12 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

13 * Section 1. AS 36.30 is amended by adding a new section to article 1
14 to read:

15 Sec. 36.30.095. PROCUREMENT OF PAPER. Except as otherwise
16 required under AS 36.15.050 or AS 36.30.322 - 36.30.338, when a state
17 agency purchases paper, at least 15 percent of the quantity purchased
18 must be recycled paper unless the commissioner of the department in
19 which the agency is located makes a written finding that recycled
20 paper is not available for the purchase or that, after application of
21 the procurement preference under AS 36.30.339, the recycled paper is
22 more expensive than the nonrecycled paper. If the agency is not
23 located in a department, the procurement officer for the agency shall
24 make the written finding. If the agency is located in the Office of
25 the Governor, the governor shall make the written finding.

26 * Sec. 2. AS 36.30.095 is repealed and reenacted to read:

27 Sec. 36.30.095. PROCUREMENT OF PAPER. Except as otherwise
28 required under AS 36.15.050 or AS 36.30.322 - 36.30.338, when a state
29 agency purchases paper, at least 25 percent of the quantity purchased

1 must be recycled paper unless the commissioner of the department in
2 which the agency is located makes a written finding that recycled
3 paper is not available for the purchase or that, after application of
4 the procurement preference under AS 36.30.339, the recycled paper is
5 more expensive than the nonrecycled paper. If the agency is not
6 located in a department, the procurement officer for the agency shall
7 make the written finding. If the agency is located in the Office of
8 the Governor, the governor shall make the written finding.

9 * Sec. 3. AS 36.30.170(b) is amended to read:

10 (b) The procurement officer shall award a contract based on
11 solicited bids to the lowest responsive and responsible bidder after
12 an Alaska bidder preference of five percent, [AND] an Alaska products
13 preference as described in AS 36.30.322 - 36.30.338, and a recycled
14 products preference under AS 36.30.339 have been applied. In this
15 subsection, "Alaska bidder" means a person who

16 (1) holds a current Alaska business license;

17 (2) submits a bid for goods, services, or construction
18 under the name as appearing on the person's current Alaska business
19 license;

20 (3) has maintained a place of business within the state
21 staffed by the bidder or an employee of the bidder for a period of six
22 months immediately preceding the date of the bid;

23 (4) is incorporated or qualified to do business under the
24 laws of the state, is a sole proprietorship [,] and the proprietor is
25 a resident of the state, or is a partnership [,] and all partners are
26 residents of the state; and

27 (5) if a joint venture, is composed entirely of ventures
28 that qualify under (1) - (4) of this subsection.

29 * Sec. 4. AS 36.30 is amended by adding a new section to read:

1 ARTICLE 5A. PREFERENCE FOR RECYCLED PRODUCTS.

2 Sec. 36.30.339. PROCUREMENT PREFERENCE FOR RECYCLED PRODUCTS.

3 (a) In the evaluation of a bid or proposal for an agency procurement
4 of products, the agency shall decrease the bid or proposal by five
5 percent if the bid or proposal indicates that the products being
6 purchased will be recycled products.

7 (b) A decrease made under (a) of this section is in addition to
8 other preferences allowed for the procurement.

9 (c) The department shall establish the minimum percentage of
10 recycled content that will qualify a product as a recycled product
11 under (a) of this section.

12 * Sec. 5. AS 36.30.900 is amended to read:

13 Sec. 36.30.900. PRODUCT PREFERENCES [PREFERENCE FOR ALASKA
14 PRODUCTS]. This chapter does not modify AS 36.15.010 and 36.15.020
15 regarding preference for Alaska forest products, or AS 36.15.050 and
16 36.15.060 regarding preference for Alaska agricultural and fisheries
17 products, except as provided in AS 36.30.170(b) and (c) and 36.30.339.

18 * Sec. 6. AS 44.68.110 is amended to read:

19 Sec. 44.68.110. DISPOSITION OF OBSOLETE OR SURPLUS STATE PROPER-
20 TY. The Department of Administration shall take possession of obso-
21 lete or surplus property of the state, including recyclable property,
22 for which there is no immediate or prospective use, except abandoned
23 or obsolete school buildings and other school property. It shall also
24 take possession of property, including recyclable property, remaining
25 in the control of a commission or board of the state government after
26 the commission or board stops functioning. The Department of Adminis-
27 tration shall sell, lease, license, or dispose of the property on the
28 terms it considers for the best interests of the state in conformance
29 with regulations adopted under AS 36.30 (State Procurement Code). In

1 this section, "recyclable property" means property that cannot be used
2 for its intended purpose in its present form, but that can be used to
3 create new property.

4 * Sec. 7. AS 44.99 is amended by adding a new section to read:

5 Sec. 44.99.020. USE OF PAPER. A state agency shall use both
6 sides of paper when feasible. In this section, "state agency" means a
7 department, institution, board, commission, division, authority,
8 public corporation, or other administrative unit of the executive,
9 legislative, or judicial branch of state government, including the
10 University of Alaska, the Alaska State Housing Authority, the Alaska
11 Railroad Corporation, and legislative committees.

12 * Sec. 8. WASTE REDUCTION AND RECYCLING TASK FORCE. (a) There is
13 established in the Office of the Governor the Waste Reduction and Recycling
14 Task Force.

15 (b) The task force consists of the governor, the commissioner of
16 administration, the commissioner of community and regional affairs, the
17 commissioner of environmental conservation, the commissioner of natural
18 resources, the commissioner of transportation and public facilities, one
19 person from the judicial branch appointed by the administrative director of
20 the judicial branch, one person from the legislative branch appointed by
21 the executive director of the legislative affairs agency, two persons from
22 the legislative branch appointed by the president of the senate, and two
23 persons from the legislative branch appointed by the speaker of the house
24 of representatives. If a task force member who is appointed by a presiding
25 officer of a house of the legislature is a legislator in the Sixteenth
26 Alaska State Legislature, but is not a legislator in the same house in the
27 Seventeenth Alaska State Legislature, the appointing authority for the task
28 force member may replace the task force member with another person. A
29 member of the task force may designate another person to represent the

1 member on the task force.

2 (c) The task force shall

3 (1) identify opportunities in state government to reduce waste,
4 increase the reuse and recycling of materials, and promote the purchase of
5 materials that are made of materials that have been recycled after consumer
6 use; and

7 (2) design plans to implement the opportunities identified in
8 (1) of this subsection.

9 (d) The task force shall submit to the legislature on or before
10 April 15 of 1991 and 1992, a report containing the opportunities identified
11 under (c)(1) of this section and the plans designed under (c)(2) of this
12 section.

13 (e) The task force shall terminate April 16, 1992.

14 * Sec. 9. Sections 1 and 3 - 5 of this Act apply to procurements that
15 begin on or after the effective date of secs. 1 and 3 - 5 of this Act.

16 * Sec. 10. Section 2 of this Act applies to procurements that begin on
17 or after July 1, 1994.

18 * Sec. 11. Section 2 of this Act takes effect July 1, 1994.

19 * Sec. 12. Section 8 of this Act takes effect immediately under AS 01.-
20 10.070(c).

HB 481



Alaska State Legislature

Official Business

APR 24 1990

P.O. Box V
State Capitol
Juneau, Alaska 99811

April 24, 1990

To: Senator Rick Uehling, Co-Chair
Senator John Binkley, Co-Chair
Senate Finance Committee

From: David Finkelstein *DF*

Re: CS HB 481 (Fin) am

I would like to request that HB 481 be scheduled for hearing in your committee at your earliest convenience.

The basic provisions of the bill are:

- establish a 5% price preference for recycled products in state procurement;
- require 15% (rising to 25% in 1994) of all paper purchased by the state be recycled paper unless the agency finds that recycled paper is not available or is not within the recycled product price preference;
- create a Waste Reduction and Recycling Task Force of twelve members from all three branches of government to identify areas in state government where waste can be reduced and reuse of materials can be increased; and
- set a policy for state agencies of using both sides of a sheet of paper, where feasible.

Attachments

HB

482

HOUSE COMMITTEE REPORT

FILE

(11)

Date Referred: February 28, 1990

FURTHER REFERRALS:

Date of Committee Action: 3/14/90

The FINANCE Committee considered:

HB 482

HOUSE BILL NO. 482

EXTEND ALASKA STATE FIRE COMMISSION

"An Act relating to the Alaska State Fire Commission; and providing for an effective date."

RECOMMENDATIONS:

- be replaced with _____ the same title
- have attached amendment(s) a new title
- do pass
- do not pass
- no recommendation
- individual recommendations
- additional referral to the _____ Committee

ADOPTS: _____ letter of intent

ATTACHES NEW FISCAL NOTE(S):
(Dept)

APPROVES PREVIOUS: (Date/Dept)

- fiscal impact _____
- zero fiscal note _____
- zero with analysis _____

- fiscal note(s) 2/28/90 / H S A C M T E
- zero fiscal note(s) _____
- zero fn/analysis _____

SIGNING DO PASS:

SIGNING:
(Check approp. column)

[Signature] Swackhammer
[Signature] Koponen
[Signature] Lumer
[Signature] Phillips
[Signature] Larson
[Signature] Wallis

	Do Not Pass	No Rec	Amend
<u>[Signature]</u> Hoffman	X		
<u>[Signature]</u>		X	
<u>[Signature]</u> Brown		X	
<u>[Signature]</u> Barnes		X	
<u>[Signature]</u> Riegar		✓	

[Signature] Hoffman
 Chairman's Signature
[Signature] Carson

FISCAL NOTE

REQUEST:

Revision Date: _____
Title: Extend Alaska State Fire
Commission
Sponsor: Koponen
Requestor: Koponen

Agency Affected: Public Safety
BRU: Commissioner's Office
Components: _____

EXPENDITURES/REVENUES: (Thousands of Dollars)

OPERATING	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96
PERSONAL SERVICES	37.0	37.0	37.0	37.0	0	0
TRAVEL	12.0	12.0	12.0	12.0	0	0
CONTRACTUAL	8.4	8.4	8.4	8.4	0	0
SUPPLIES	1.1	1.1	1.1	1.1	0	0
EQUIPMENT	0	0	0	0	0	0
LAND & STRUCTURES	0	0	0	0	0	0
GRANTS, CLAIMS	0	0	0	0	0	0
MISCELLANEOUS	0	0	0	0	0	0
TOTAL OPERATING	58.5	58.5	58.5	58.5	0	0

CAPITAL	-0-	-0-	-0-	-0-	-0-	-0-
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REVENUE	-0-	-0-	-0-	-0-	-0-	-0-
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FUNDING: (Thousands of Dollars)

GENERAL FUND	58.5	58.5	58.5	58.5	-0-	-0-
FEDERAL FUNDS						
OTHER						
TOTAL	58.5	58.5	58.5	58.5	-0-	-0-

POSITIONS:

FULL-TIME	1	1	1	1	0	0
PART-TIME						
TEMPORARY						

ANALYSIS : (Attach a separate page if necessary)

Personnel - Admin Asst 1; Travel & Per diem for 1 meeting, 1 conference, 1 hearing for staff, 9 members and 5 ex officios; Contractual- communications (4.0), printing & advertising (4.0), subscriptions (.4); supplies (1.1).

Prepared by: House State Affairs
Division: _____

Phone: 465-4963
Date: Feb 27, 1990

Approved by Commissioner: [Signature]
Agency: _____

Date: Feb 27, 1990

Distribution (by preparer):

- Legislative Finance
- Legislative Sponsor
- Requestor
- Office of Management and Budget
- Impacted Agency(ies)

Adopted

BY REP. KOPONEN, Navarre, Ulmer, Grussendorf, Gruenberg

1 IN THE HOUSE

2

HOUSE BILL NO. 482

3

IN THE LEGISLATURE OF THE STATE OF ALASKA

4

SIXTEENTH LEGISLATURE - SECOND SESSION

5

A BILL

6 For an Act entitled: "An Act relating to the Alaska State Fire Commission;
7 and providing for an effective date."

8 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

9 * Section 1. AS 44.41.120(c) is amended to read:

10 (c) The commission shall meet annually and shall try to coordi-
11 nate its annual meeting with a meeting of the Alaska Fire Chiefs'
12 Association. The chair, the governor, or three members of the com-
13 mission may call a special meeting.

14 * Sec. 2. AS 44.66.010(a)(13) is amended to read:

15 (13) Alaska State Fire Commission -- June 30, 1994 [1990];

16 * Sec. 3. This Act takes effect immediately under AS 01.10.070(c).

Item 3

Alaska State Legislature
Representative Niilo Koponen

Pouch V
Juneau, Alaska 99811
(907) 465-4992

House District 21

119 N. Cushman, Suite 207
Fairbanks, Alaska 99701
(907) 456-8172

S P O N S O R S T A T E M E N T

H B 4 8 2

HB 482 would extend the Alaska State Fire Commission until 1994, rather than allowing it to sunset this year. It does, however, amend AS 44.44.120 to decrease the cost and increase coordination with fire services in Alaska.

Chapter 157, SLA 1980 established a Task Force on Fire Prevention and Control to: 1) identify fire loss problems in Alaska; 2) identify agencies involved in fire protection activities; 3) recommend modifications to improve the state's fire protection system; and 4) provide documentation to assist agencies in meeting their responsibilities. The Task Force was to submit their final report to the governor and legislature by January 1, 1983. This Task Force was not funded for their third year and terminated June 30, 1983.

A second Task Force was established in 1984 with the same objectives and given 120 days to finish their work. The second Task Force issued a report in December, 1984 detailing eight major areas of concern: 1) fire education and public awareness; 2) fire service training; 3) capital projects; 4) arson; 5) code enforcement; 6) emergency medical services; 7) wildlands fire protection; and 8) interagency planning, coordination and consolidation. Within the last category the Task Force recommended creating a State Fire Commission as a broad based policy setting group to provide direction and coordination of all the fire-related programs.

In 1986 the Alaska State Fire Commission was established (AS 44.41.100-.130) to: 1) develop a state master plan for fire prevention and provide coordination for fire-related programs; 2) establish policy guidelines for agencies with fire protection programs; 3) adopt regulations as necessary; 4) make recommendations for fire-related programs; and 5) report to the governor and legislature when requested. There was a fiscal note of \$180,000.00 funded with the bill establishing the Commission. Due to the revenue shortfall during FY 87, Governor Sheffield recommended that the funding for the Commission be eliminated, and the Commission did not begin its activities.

The Fifteenth Legislature attempted to fund the legislation through a separate account into which a tax on fire insurance premiums would be deposited. Although this device is used in most other states, it was not acceptable to the Alaska Legislature, and the responsibility for providing direction and coordination of fire-related programs was not addressed.

HB 482 cuts the number of required meetings to one a year (although others may be called in emergency). That meeting is to be coordinated with the annual meeting of the Alaska Fire Chiefs Association. Typically, the Alaska Fire Fighters Association, Fire Insurers, the Insurance Services Organization, municipal officials responsible for fire services and building codes, and etc. all meet at the same time and place or attend one or another of the above mentioned meetings. All members of the proposed Fire Commission should therefore be at the joint conference. Testimony on policy guidelines for fire protection programs, proposed regulations, the state fire protection master plan and all matters falling within the purview of the Commission can be taken up at that time. The Commission can have a short meeting at the close of the conference to make needed policy decisions.

From those proceedings, the single staff member of the commission can, under the direction of the State Fire Marshall, prepare the needed reports to the governor and the legislature. That same staff assistant, will, during the year, maintain contact with the fire and rescue services statewide. Interim meetings of the board for the purpose of discussing regulations, budget and other matters, can be held by teleconference and/or computer network, alleviating the expense and time of travel.

NK.dm

ALASKA STATE FIREFIGHTERS ASSOCIATION

P.O. Box 34324
Juneau, Alaska 99803-4324

RESOLUTION 89-3

TITLE: Support funding of Alaska State Fire Commission .

WHEREAS, the Alaska Legislature, by law, established the Alaska State Fire Commission, and

WHEREAS, the Alaska State Fire Commission has not been appointed by the Governor, and

WHEREAS, the law requires the funding of the Commission through the Department of Public Safety, and


WHEREAS, the Commission is due to "sunset" on June 30, 1990, yet the need for the work of the Commission continues to grow, and

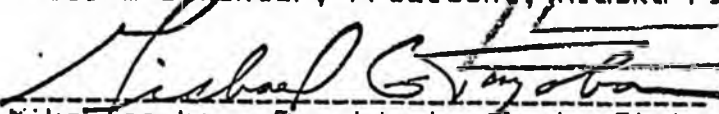
WHEREAS, the Alaska State Firefighters' Association and the Alaska Fire Chiefs' Association have for years urged the appointment and funding of the Alaska State Fire Commission so that it could carry out its mission.

THEREFORE, BE IT RESOLVED, that the Alaska State Firefighters' Association and the Alaska Fire Chiefs' Association reaffirms their commitment for funding the Alaska State Fire Commission and respectfully requests the Legislature to appropriate to the Department of Public Safety funding so the Commission can become a reality.

Recommendation:

Adoption: Pass No Pass


William Shechter, President, Alaska Fire Chiefs' Association


Mike Tagaban, President, Alaska State Firefighters' Association

Submitted by Resolutions Committee

Distribution: Governor Cowder
Governor's Special Assistant - Public Safety
Legislature
ASFA Representative John George

FISCAL NOTE

REQUEST:

Revision Date: _____ Agency Affected: Public Safety
Title: An act relating to the Alaska BRU: Commissioner's Office
State Fire Commission.
Sponsor: Representative Koponen Component: _____
Requestor: House State Affairs

EXPENDITURES/REVENUES: (Thousands of Dollars) (Inflation not included)

OPERATING	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96
PERSONAL SERVICES	99.8	103.4	107.1	111.0	115.0	119.1
TRAVEL	43.4	43.4	43.4	43.4	43.4	43.4
CONTRACTUAL	25.0	25.0	25.0	25.0	25.0	25.0
SUPPLIES	1.6	1.6	1.6	1.6	1.6	1.6
EQUIPMENT	13.5					
LAND & STRUCTURES						
GRANTS, CLAIMS						
MISCELLANEOUS						
TOTAL OPERATING	183.3	173.4	177.1	181.0	185.0	189.1

CAPITAL	0	0	0	0	0	0
---------	---	---	---	---	---	---

REVENUE	0	0	0	0	0	0
---------	---	---	---	---	---	---

FUNDING: (Thousands of Dollars)

GENERAL FUND	183.3	173.4	177.1	181.0	185.0	189.1
FEDERAL FUNDS						
OTHER/PROG RCPT						
TOTAL	183.3	173.4	177.1	181.0	185.0	189.1

POSITIONS:

FULL-TIME	2	2	2	2	2	2
PART-TIME						
TEMPORARY						

ANALYSIS: (Attach a separate page if necessary)

2/26/90 Prepared by: Gordon E. Brunton
Division: Fire Prevention
Approved by Commissioner: D.G.H. English
Agency: Department of Public Safety

Phone: 465-4331
Date: 2/26/90
Date: _____
Page 1 of 4

Position Title Administrative Officer III		No. of Positions	Range/Step 21-A	Barg. Unit GGU	
Time Status PT	Staff Months 12	Location Anchorage		Election District	
Type of Expenditure		Justification			
Amount		<p>This position will administer the Alaska State Fire Commission. Will recommend policy and operational guidelines developed by the Commission relative to all State agencies with fire protection responsibilities. Provide liasion between the Commission and Federal, State and local governments and the private sector.</p>			
1	2				3
Salary*	\$45,744				////////////////////
Benefits*	17,060				////////////////////
Premium Pay (Included in Above)	////////////////////				////////////////////
Other	////////////////////				////////////////////
Total Personal Services	////////////////////				\$62,804
Travel					3,700
Contractual					25,000
Commodities					800
Equipment		10,000			
Other					
Total Cost		102,304			
Funding Source for Total Cost					
Federal Receipts	1002				
G.F. Match	1003				
General Fund	1004	102,304			
Program Receipts/GF	1005				
I-A Receipts	1007				
CIP Receipts	1061				
Other					
* Personal Services Salary and Benefits Costs are from PACS.					

REQUEST FOR
NEW POSITION

AGENCY Department of Public Safety
 BRU Commissioner's Office
 COMPONENT _____

Page 3 of 4
 Revised Date

FY 91

Position Title Administrative Assistant I		No. of Positions	Range/Step 12-A	Borg. Unit GGU
Time Status PFT	Staff Months 12	Location Anchorage		Election District
Type of Expenditure		Justification		
		This position will provide research and clerical support for the Alaska State Fire Commission.		
1	2	3		
Salary*	\$24,864	////////////////////		
Benefits*	12,087	////////////////////		
Premium Pay (Included in Above)	////////////////////	////////////////////		
Other	////////////////////	////////////////////		
Total Personal Services	////////////////////	\$36,951		
Travel		3,700		
Contractual		-0-		
Commodities		800		
Equipment		3,500		
Other				
Total Cost		44,951		
Funding Source for Total Cost				
Federal Receipts	1002			
G.F. Match	1003			
General Fund	1004	44,951		
Program Receipts/GF	1005			
I-A Receipts	1007			
CIP Receipts	1061			
Other				
* Personal Services Salary and Benefits Costs are from PACS.				

REQUEST FOR
NEW POSITION

AGENCY Department of Public Safety
 BRU Commissioner's Office
 COMPONENT _____

Page 4 of 4
 Revised Date

FY 91

HB

B

41

88

33

HOUSE COMMITTEE REPORT

(11)

Date Referred: February 22, 1990

FURTHER REFERRALS:

Date of Committee Action: 3/2/90

The FINANCE Committee considered:

HB 483

HOUSE BILL NO. 483

VILLAGE PUBLIC SAFETY OFFICERS

"An Act amending the definition of 'peace officer' in the Alaska Statutes to include village public safety officers."

RECOMMENDATIONS:

- [] be replaced with _____ [] the same title
- [] be replaced with _____ [] a new title
- [] have attached amendment(s)
- [] do pass
- [] do not pass
- [] no recommendation
- [] individual recommendations
- [] additional referral to the _____ Committee

ADOPTS: _____ letter of intent

ATTACHES NEW FISCAL NOTE(S):
(Dept)

APPROVES PREVIOUS: (Date/Dept)

- [] fiscal impact _____
- [] zero fiscal note _____
- [] zero with analysis _____

- [] fiscal note(s) _____
- [] zero fiscal note(s) Public Safety 2/22/90
- [] zero fn/analysis _____

SIGNING DO PASS:

SIGNING:
(Check approp. column)

[Signature] Hoffman
[Signature] Larson
[Signature] BROWN
[Signature] KOPMEN
[Signature] WUMBE
[Signature] BARNES
[Signature] SHULTZ
[Signature] PHILLIPS

	Do Not Pass	No Rec	Amend
<u>[Signature]</u> Riegee		<input checked="" type="checkbox"/>	

[Signature] Hoffman
 Chairman's Signature
[Signature] Larson

FISCAL NOTE

REQUEST:

Revision Date: _____ Agency Affected: Public Safety
 Title: Village Public Safety Officers
Added to Definition of Peace Officer
 BRU: Alaska State Troopers
 Sponsor: Representative Hoffman, etc.
 Component: Detachments
 Requestor: House State Affairs

EXPENDITURES/REVENUES: (Thousands of Dollars) (Inflation not included)

OPERATING	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96
PERSONAL SERVICES						
TRAVEL						
CONTRACTUAL						
SUPPLIES						
EQUIPMENT						
LAND & STRUCTURES						
GRANTS, CLAIMS						
MISCELLANEOUS						
TOTAL OPERATING	-0-	-0-	-0-	-0-	-0-	-0-

CAPITAL	-0-	-0-	-0-	-0-	-0-	-0-
---------	-----	-----	-----	-----	-----	-----

REVENUE	-0-	-0-	-0-	-0-	-0-	-0-
---------	-----	-----	-----	-----	-----	-----

FUNDING: (Thousands of Dollars)

GENERAL FUND	-0-	-0-	-0-	-0-	-0-	-0-
FEDERAL FUNDS						
OTHER/PROG RCPT						
TOTAL	-0-	-0-	-0-	-0-	-0-	-0-

POSITIONS:

FULL-TIME	0	0	0	0	0	0
PART-TIME	0	0	0	0	0	0
TEMPORARY	0	0	0	0	0	0

ANALYSIS: (Attach a separate page if necessary)

No fiscal impact anticipated.

Prepared by: Francis C. Allan
 Division: Alaska State Troopers
 Approved by Commissioner: J.A.H. Arthur English
 Agency: Department of Public Safety

Phone: 269-5691
 Date: 02/14/90
 Date: 2-20-90
 Page 1 of 1

Adopted

BY REP. HOFFMAN, Swackhammer, Hudson, Wallis

1 IN THE HOUSE

2 HOUSE BILL NO. 483

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 SIXTEENTH LEGISLATURE - SECOND SESSION

5 A BILL

6 For an Act entitled: "An Act amending the definition of 'peace officer' in
7 the Alaska Statutes to include village public safety
8 officers."

9 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

10 * Section 1. AS 01.10.060(7) is amended to read:

11 (7) "peace officer" means

12 (A) an [ANY] officer of the state troopers;

13 (B) a member [, MEMBERS] of the police force of a
14 municipality;

15 (C) a village public safety officer;

16 (D) a [ANY INCORPORATED CITY OR BOROUGH,] United States
17 marshal or deputy marshal; [MARSHALS AND THEIR DEPUTIES,] and

18 (E) an officer [OTHER OFFICERS] whose duty it is to
19 enforce and preserve the public peace;
20
21
22
23
24
25
26
27
28
29
H

STATE OF ALASKA



LYMAN F. HOFFMAN
CO-CHAIRMAN
HOUSE FINANCE COMMITTEE

P. O. BOX V
JUNEAU, ALASKA 99811
(907) 465-3706

HOUSE OF REPRESENTATIVES

DISTRICT 25

- AKIACHAK
- AKIAK
- ATMAUTLUAK
- BETHEL
- CHEFORNAK
- EKK
- GOODNEWS BAY
- KASIGLUK
- KIPNUK
- KONGIGANAK
- KWETHLUK
- KWIGILLINGOK
- MEKORYUK
- NAPAKIAK
- NAPASKIAK
- NEWTOK
- NIGHTMUTE
- NUNAPITCHUK
- OSCARVILLE
- PLATINUM
- QUINHAGAK
- TOKSOOK BAY
- TUNTUTULIAK
- TUNUNAK

MEMORANDUM

TO: House Finance Committee Members

FROM: Representative Lyman Hoffman *Lyman*
Co-Chairman, House Finance Committee

DATE: February 28, 1990

SUBJ: House Bill 483

I have introduced House Bill 483, "An Act amending the definition of 'peace officer' in the Alaska Statutes to include village public safety officers", because these young men and women are on the front line providing law enforcement, fire protection, and search and rescue services in rural Alaska.

VPSOs are important role models for the residents, especially children, of villages. To have a relative or local resident apply, leave home, work toward, and graduate from the Sitka Trooper Academy and then go home as a Village Public Safety Officer to keep the "peace" is a proud accomplishment. It must be realized that VPSOs replace the perception of villagers that 'peace officers' are not just troopers who usually come to the villages only when something really bad happens in the community. VPSOs are extensions of our Alaska State Troopers, we should believe in them by recognizing them as 'peace officers'.

Though the Alaska State Troopers do provide direct oversight of the VPSO corps, a single VPSO is assigned to any given village at one time. These dedicated individuals are expected to work a forty-hour week, and at any time without after-hours compensation, are expected by the residents of their assigned village and supervisors to keep the "peace". Overtime pay is not the issue on this legislation, it is to recognize the Village Public Safety Officers as 'peace officers'.

As is true elsewhere in our society, insurance and the liability costs associated with VPSOs are high and are the responsibility of the non-profits. The Alaska State Troopers have contracted with the non-profits generally holding the State harmless from liability for the negligent actions of the VPSOs. It is not entirely clear that the current contract language would fully protect the State given the decisions of the Alaska Supreme Court which limit the ability of the State to shift liability to State contractors. Insurance costs are negotiated as a reimbursable item within the Trooper/non-profits contracts, with last year's contract limited to \$800 per VPSO. In today's dynamic insurance market, this limit may be liveable one year, but totally inadequate the next year. Non-profits experience insurance cost fluctuations as much as a 100% on an annual basis, so it is difficult to assess the direction and amount of these insurance costs. However, if the non-profits could participate in the State Risk Management pool, the State could directly control insurance costs and assure the lowest coverage cost state-wide.

The intent of this legislation is to rightfully identify VPSOs as 'peace officers' and that VPSO contractors may be allowed to participate in the State Risk Management pool.

If there are any questions concerning this proposed legislation, please contact my office at your earliest opportunity.

Thank you.

BILL NO: HB 483

DATE: February 20, 1990

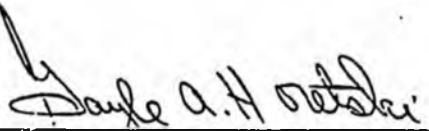
TITLE: Including Village Public
Safety Officers in the
Definition of a Peace
Officer

CONTACT: Capt. Glenn Godfrey
Alaska State Troopers
269-5647

DEPARTMENT OF
PUBLIC SAFETY

This legislation adds Village Public Safety Officers (VPSO) to the definition of "peace officer" and makes minor technical changes to existing law. This change would clarify the authority of VPSOs who are called upon to take enforcement actions. It would also improve the eligibility of VPSOs for federal and state death benefits payable to law enforcement officers killed in the line of duty.

The Department of Public Safety supports this legislation.


for Arthur English
Commissioner

POSTING PERMIT

HB HB

41841

HOUSE COMMITTEE REPORT

file

(11)

Date Referred: March 15, 1990

FURTHER REFERRALS:

Date of Committee Action: _____

The FINANCE Committee considered:

HB 484

HOUSE BILL NO. 484 FEE FOR MOOSE KILLED BY ALASKA RAILROAD

"An Act relating to destruction of moose by the Alaska Railroad."

RECOMMENDATIONS:

- [] be replaced with CS HB 484 (FIN) [] the same title
- [] have attached amendment(s) [] a new title
- [] do pass
- [] do not pass
- [] no recommendation
- [] individual recommendations
- [] additional referral to the _____ Committee

ADOPTS: _____ letter of intent

ATTACHES NEW FISCAL NOTE(s):
(Dept)

APPROVES PREVIOUS:
(Date/Dept)

- [] fiscal impact _____
- [] zero fiscal note _____
- [] zero with analysis _____

- [] fiscal note(s) _____
- [] zero fiscal note(s) Dept Fish: game 3/15/90
- [] zero fn/analysis _____

SIGNING DO PASS:

SIGNING:
(Check approp. column)

Do Not
Pass No Rec Amend

Tay Brown Brown
Walt Shultz Shultz
Robert Phillips Phillips
Ulmer Ulmer
Barnes Barnes

<u>Ronald J. Larson</u> Larson		X	
<u>Koponen</u> Koponen		X	
<u>Rieger</u> Rieger		✓	
<u>WAWIS</u> WAWIS		✓	
<u>Hoffman</u> Hoffman		✓	

Ronald J. Larson Larson
co-Chairman's signature
Hoffman Hoffman

STATE OF ALASKA
1990 LEGISLATIVE SESSION

No. 1
BILL VERSION: CSHB 484 (Trsp)
PUBLISH DATE: HOUSE 3/15/90

FISCAL NOTE

REQUEST:

Revision Date: 3/13/90
Title: Act Relating to Destruction
of Moose by the AK Railroad
Sponsor: Menard
Requestor: _____

Agency Affected: Dept. of Fish and Game
BRU: Wildlife Conservation
Components: _____

EXPENDITURES/REVENUES: (Thousands of Dollars)

OPERATING	FY 91	FY 92	FY 93	FY 94	FY 95	FY 96
PERSONAL SERVICES						
TRAVEL						
CONTRACTUAL						
SUPPLIES						
EQUIPMENT						
LAND & STRUCTURES						
GRANTS, CLAIMS						
MISCELLANEOUS						
TOTAL OPERATING	0	0	0	0	0	0

CAPITAL						
---------	--	--	--	--	--	--

REVENUE						
---------	--	--	--	--	--	--

FUNDING: (Thousands of Dollars)

GENERAL FUND						
FEDERAL FUNDS						
OTHER						
TOTAL	0	0	0	0	0	0


POSITIONS:

FULL-TIME						
PART-TIME						
TEMPORARY						

ANALYSIS : (Attach a separate page if necessary)

No FY 90 impact.

Prepared by: Molly McCammon Phone: 465-4100
Division: Commissioner's Office Date: 3/13/90

Approved by Commissioner:  Date: 3/13/90
Agency: Department of Fish and Game

Distribution (by preparer):

Legislative Finance
Legislative Sponsor
Requestor
Office of Management and Budget
Impacted Agency(ies)

Adopted

Original sponsor(s): REP. MENARD, Navarre, Brown, Ellis, Grussendorf,
Finkelstein, Donley, Goll, Jacko

1 IN THE HOUSE

BY THE FINANCE COMMITTEE

2 CS FOR HOUSE BILL NO. 484 (Finance)

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 SIXTEENTH LEGISLATURE - SECOND SESSION

5 A BILL

6 For an Act entitled: "An Act relating to destruction of moose by the
7 Alaska Railroad."

8 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

9 * Section 1. AS 42.40 is amended by adding a new section to read:

10 Sec. 42.40.445. PROTECTION OF WILDLIFE. (a) The corporation
11 shall adopt policies, procedures, and practices to limit the destruc-
12 tion of moose by operations of the railroad. The corporation shall
13 cooperate with the Department of Fish and Game to mitigate the effects
14 of the operations of the railroad on moose by granting access to
15 railroad rights-of-way to the department and its contractors. The
16 corporation shall, to the extent feasible and compatible with railroad
17 operations, provide rail transportation and use of railroad facilities
18 and equipment to the department and its contractors.

19 (b) The board shall establish a research program to investigate
20 the use of devices, substances, or procedures to reduce the destruc-
21 tion of moose by operations of the railroad.

22 (c) The board shall establish a committee to advise the corpo-
23 ration on the development of the contingency plan required under (d)
24 of this section and on policies, procedures, and practices necessary
25 to mitigate the effects of the operations of the railroad on moose.
26 The committee shall consist of

27 (1) one representative appointed by each of the following:

28 (A) the board;

29 (B) the Department of Fish and Game;

1 (C) the Department of Natural Resources; and

2 (D) the Matanuska-Susitna Borough; and

3 (2) a person residing in a community served by the railroad
4 who is appointed by the commissioner of fish and game.

5 (d) The corporation shall prepare a contingency plan to prevent
6 the destruction of moose by operations of the railroad when snow
7 conditions cause moose to use the railroad right-of-way. The contin-
8 gency plan must provide for, but is not limited to, the use of pilot
9 cars to precede trains, the scheduling of trains in a manner that
10 reduces destruction of moose, removal of saplings, seedlings, and
11 shrubs from the railroad right-of-way in areas identified by the
12 Department of Fish and Game, removal or compaction of snow to create
13 trails on both sides of and parallel to the tracks within the railroad
14 right-of-way, or other measures found to be feasible under (b) of this
15 section or recommended by the Department of Fish and Game or the
16 committee established under (c) of this section.

17 (e) If more than four moose are killed within a week by opera-
18 tions of the railroad, the corporation shall schedule trains in a
19 manner that reduces the destruction of moose and shall use pilot cars
20 to precede trains through moose concentration areas identified by the
21 Department of Fish and Game.

22 (f) The corporation shall provide for the salvage of moose
23 killed by operations of the railroad. The corporation shall cooperate
24 with the Department of Public Safety in distributing salvaged moose
25 meat to persons identified by the Department of Public Safety as
26 qualified to receive salvaged moose meat.

27 (g) A train engineer shall report immediately to the train
28 dispatcher if a train operated by the engineer strikes a moose. The
29 report must include the time and location, by railroad milepost, of

1 the moose strike. It is a class A misdemeanor for a train engineer to
2 intentionally fail to report to the train dispatcher within 24 hours
3 after the collision that a train operated by the engineer has struck a
4 moose.

5 (h) The chief executive officer of the corporation shall report,
6 or cause to be reported, to the Department of Fish and Game if a train
7 operated by the corporation strikes a moose. The report must include
8 the time and location, by railroad milepost, of the moose strike. It
9 is a class A misdemeanor for the chief executive officer of the corpo-
10 ration to intentionally fail to report, or intentionally fail to cause
11 to be reported, to the Department of Fish and Game within 48 hours
12 after the collision that a train operated by the corporation has
13 struck a moose.



Alaska State Legislature

Official Business

P.O. Box V
State Capitol
Juneau, Alaska 99811

MEMORANDUM

TO: House Finance Committee

FROM: Rep. Menard

A handwritten signature in black ink, appearing to read "Menard".

Date: March 29, 1990

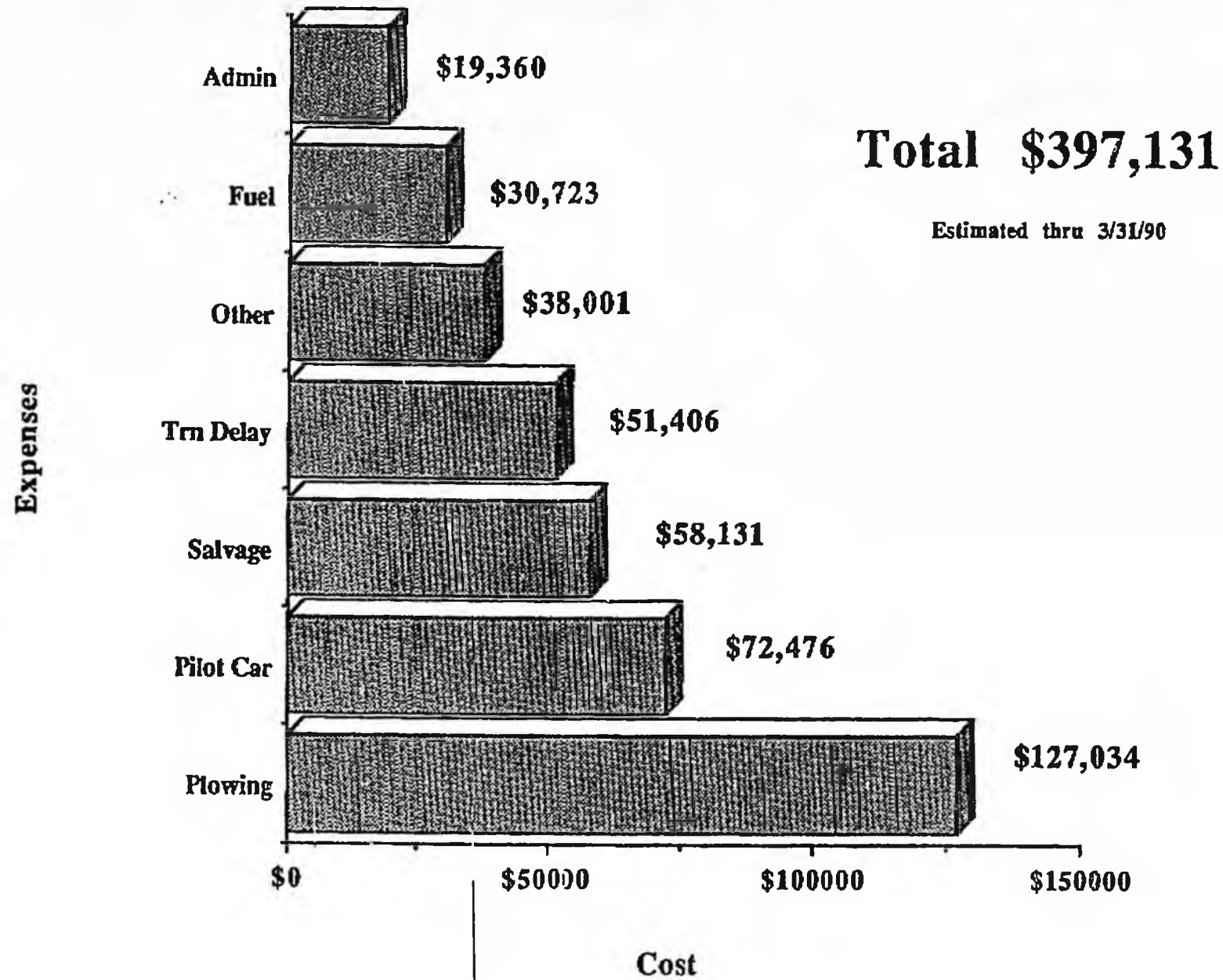
RE: HB 484, Moose Mitigation.

HB 484 is a bill to help mitigate the number of moose killed by the AK Railroad each year. The Transportation version is significantly different from my original proposal.

CSHB 484 (transportation) requires the AK Railroad to: 1) establish a research program to investigate methods for reducing moose kills on the Railroad Right of Way, 2) establish a committee made up of the R.R., the Department of Fish and Game, the Department of Natural Resources, the Matsu Borough and another community served by the R.R. to advise the corporation on the development of a contingency plan, 3) salvage moose killed by the R.R. and cooperate with the Department of Public Safety in distributing salvaged moose, 4) report moose which have been killed by the R.R. (failure to report a moose kill is a class A misdemeanor).

The most important provision of this bill is to require that the contingency plan be prepared by the R.R. and that it be implemented when the snow reaches above 24 inches. The contingency plan would provide for the use of pilot cars to precede trains, the scheduling of trains in a manner that reduces destruction of moose, removal of saplings, seedlings, and shrubs from the RR Right of Way, removal or compaction of snow to create trails along the right of way, or other measures recommended by the Department of Fish and Game or the advisory committee.

Railroad Costs for Moose Protection



ALASKA RAILROAD CORPORATION



P.O. Box 107500 • Anchorage, Alaska 99510-7500

Measures By The Alaska Railroad To Reduce Moose Mortality

Pilot car: A pilot car--a Ford Bronco equipped with rail gear which allows it to run on the rails--is being operated in front of freight trains. This has produced excellent results in driving moose away from the track. Raw data shows as many as 90 percent of the moose are frightened away. Moose contacts have been reduced substantially since this was initiated.

Creating moose paths: Wherever possible along either side of the right of way between Willow and Talkeetna, Alaska Railroad maintenance crews are cutting 13-foot wide paths parallel to both sides of the track. The snow removed while creating the paths is used to build a berm between the paths and the railroad track to serve as barricades to prevent moose from getting to the track. We have dedicated two Caterpillar tractors to the operation. The moose are using the trails that have been cut but continue to favor the railroad tracks. The Mat-Su Motor Musers, a group of volunteers on snowmachines, also have cut about 8 miles of snowmachine trails through the marshy areas where the Cats are unable to work.

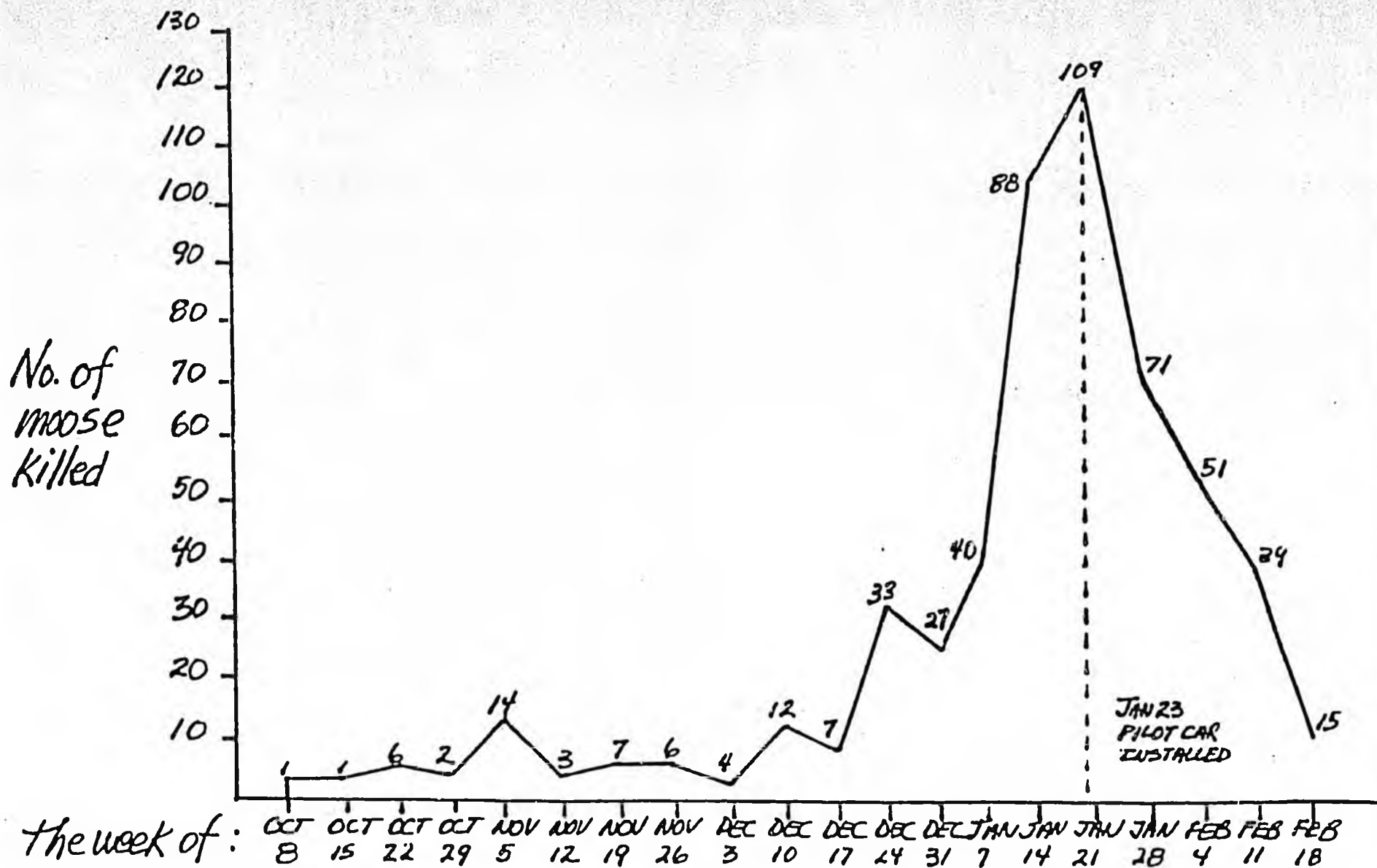
Rubber tire obstacles: At four locations between Willow and Talkeetna, a series of rubber tires have been installed between the rails, nailed to the ties. The tires create an obstacle which cause moose to leave the track. To further guide the moose, tires have been positioned up-right and at right angles to the track in these locations and funnel the moose away from the track. This method was suggested to us by a member of the public and appears to be very successful.

Ice on the ties: This also was suggested by a member of the public. Water was applied to the tracks in several locations to create a layer of ice between the rails. It was believed that the moose would avoid the icy surface and move away from the track, however this did not prove to be true. Creating the ice was extremely difficult because a heated tank car full of water had to be used to keep the water from freezing before it was applied to the ties. Soon after the ice formed a foot of snow fell in the area, covering the ice. However, before the ice was covered moose were seen walking over the icy spots, indicating the measure would not be a deterrent.

Plowing: Routine snow removal along the track includes plowing a 40-foot-wide path in the area where most moose mortality occurs. This appears to have no affect on the moose who prefer the hard-packed surface of the track rather than the plowed area, which despite the plowing remains as deep as 6 feet in some areas because of the slope of the track shoulder.

Brushing: Railroad crews cleared three locations for a total of more than seven miles of right of way last summer, removing the brush which moose find so tempting as a food source. Alaska Department of Fish and Game biologists had suggested this might remove the attraction for moose; however, in the areas where the brushing was done, moose mortality on the track actually doubled this season. We'll continue experimenting with this idea, though, and will clear additional areas this summer or fall.

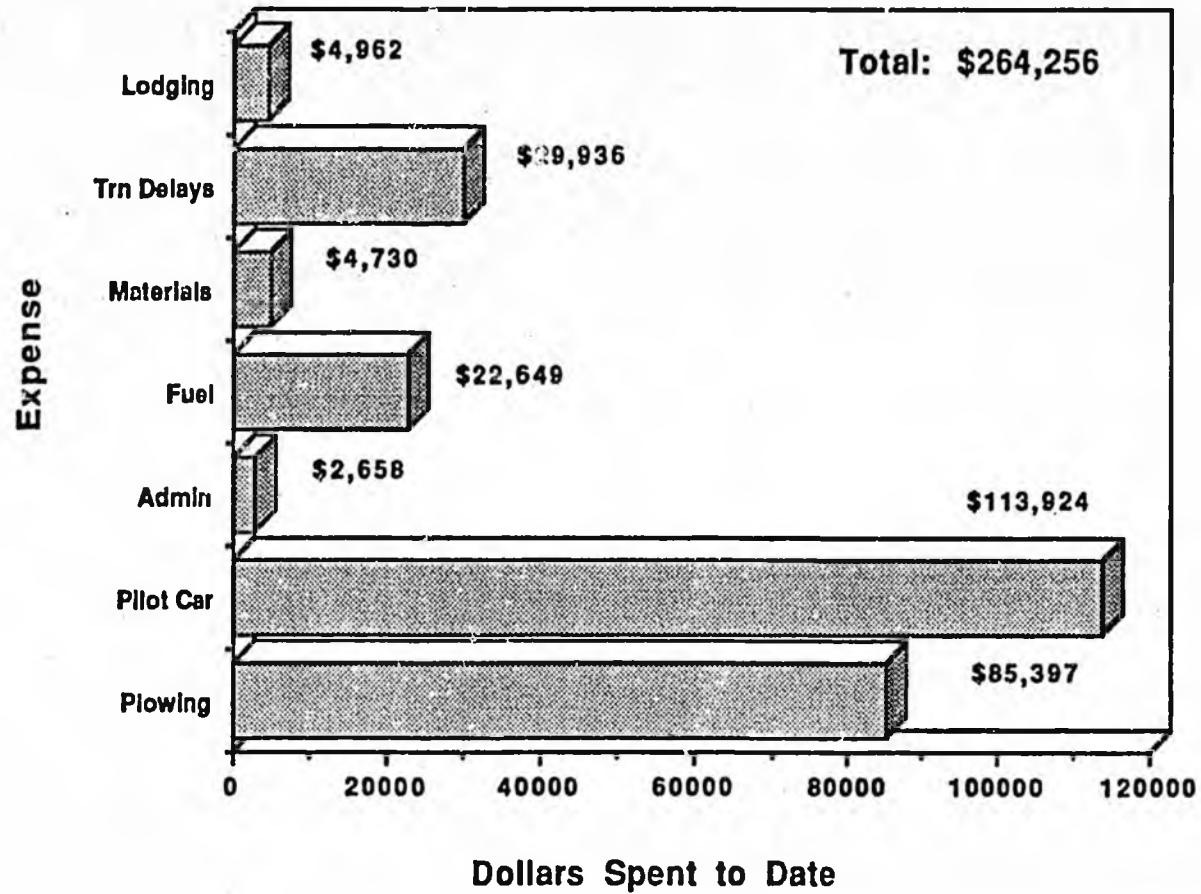
Noisemakers: The railroad has installed on several types of vehicles small high-frequency sound devices used to deter deer and other large game animals. None appears to have been effective. The railroad also hired the University of Alaska to test the affects of various sounds on moose. The \$15,000 experiment did not produce a sound which would repel the moose. We also have attempted to scare moose with more conventional sounds such as sirens and horns; the pilot car is equipped with a siren and it appears to have some effect.



Total: 536

(includes unconfirmed moose kills; actual number may be lower)

RAILROAD COST FOR MOOSE PROTECTION



January 31, 1990

The Honorable Curt Menard
Alaska State Representative
P.O. Box V
Juneau, AK 99811

Dear Representative Menard,

I attended and signed to testify at the public teleconference at the Legislative Information Office last night. However, after waiting 2 hours, a previous commitment required I leave before having the opportunity to express my concerns regarding the extremely high number of train-killed moose. I am sending you my comments via this letter.

The carnage of the moose by the Alaska Railroad must stop. Far too many animals have died as a result of being run down by trains. The Alaska Railroad has done too little, too late. Alaska Railroad has not been responsive in clearing the railbed right-of-way adequately early on in winter. Only this past week was a pilot car travelling ahead of the train to move moose off the track initiated. The Alaska Railroad admits they could begin plowing a wider path. This should have been in ACTION early on in the winter, NOT after 400 moose have been killed and reported through the media. This is a similar situation to the Exxon Valdez disaster - only until the situation becomes tragic is any action taken, and then the party responsible for the destruction bumbles around trying to shift the blame onto other parties wasting precious time that could be used to begin saving the animals' lives. There has been too much complacency in the railroad's attempt to remedy the LIVE removal of moose from the railbed. I have spoken with Alaska Railroad officials and I am not satisfied with their explanation that they are in the business to make money; it is the responsibility of ADF&G to come up with a solution; and worse, that the moose kill is simply the "cost" of doing business. That attitude is inexcusable! More needs to be done and done now.

Procedures to implement immediately:

Snow plowing at a steeper angle to allow the moose to exit from the railbed. Channel 2 News in Anchorage on Thursday, January 25, showed snow depth at 3 feet deep just a few feet from the railbed and deeper as a result of the practice of shallow-angle plowing.

Plow wide corridors on BOTH sides along the railbed to allow moose a place to step off the track. This is not currently being done by the railroad.

The Honorable Curt Menard
January 31, 1990
Page 2

Plow wide perpendicular escape corridors from the tracks, again on BOTH sides offering escape for the animals. Again, not currently being done by the railroad.

Continue to use the pilot truck ahead of trains, which has only been recently implemented as a test, as a means to scare the moose off the railbed. Do this on both northbound freight-laden trains as well as the empty southbound trains.

As soon as the snow is gone, begin brushing foliage back a distance of 200 ft.

Implement Permanent Solution:

Construct a "moose fence" and one-way gates from approximately milepost 180 - 240 of railroad, like the fencing along the Glenn Hwy from Muldoon to the truck weigh station north of Anchorage. Emphasize the natural corridors such as creeks and rivers to be utilized as underpasses. Build underpasses. The Glenn Hwy Project has been successful in drastically reducing, if not eliminating, moose collisions in a historic migratory route. The moose learn to use the corridor to migrate and the cows will pass this traffic pattern on to their offspring. The surviving offspring will continue to use those underpasses as migratory corridors. The moose were migrating from their summer range to winter range long before the railroad was built. However, there will be few moose left in that area at all if action is not taken immediately. Migration is natural behavior for moose - to locate better browse, for easier mobility in winter, and propagation of the species. Moose are going to and must migrate to survive -- make it safer for them.

I recently spoke with biologist with Alaska Department of Fish and Game and understand the cost of the fencing would actually be less per foot than that for the Glenn Hwy project, as the Department of Transportation & Public Facilities mistakenly ordered 4' high fencing and had to double the quantity to make the fence 8' by wiring the two sections together. Eight foot height moose fence can be ordered from Canada for less than the 4' height, and ordered in quantity, be more cost effective.

Ms. Sasha Hughes testified at last night's teleconference that her family was involved with the White Pass Railroad, and as you may recall hearing, the White Pass Railroad reduced the number of train-killed moose in Canada from a several hundred to just three. The moose fencing was financed by the Provincial Government. She said at first it seemed costly, however, not to place a dollar value on the animals, but SAVE your natural resource of these animals. The expenditure is an investment

The Honorable Curt Menard
January 31, 1990
Page 3

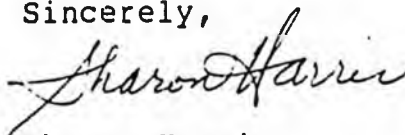
made once, not season after season with nothing to show for the money. The moose-fence is a good investment. I encourage the Alaska State Legislature to contact the Canadian Government for information on how the Alaska Railroad/State of Alaska can implement the White Pass Railroad's Moose Fencing Project here in Alaska.

Financing the fence project should be a Legislative priority. I appeal to you to introduce a bill immediately to appropriate funds to construct moose fencing along the rail corridor north of Willow through the area of high mortality on moose. However, I also feel that the Alaska Railroad should fund a portion of the project. The railroad had somewhere in the neighborhood of \$11 million in profit last year, I understand, and should be obligated to allocate a portion of the profits to fund the moose-fencing project. The Alaska Railroad is a public agency and must be responsive to the public's concerns.

Another source of funding for the moose-fencing project to consider is the Railbelt Fund. Or, perhaps a combination of Legislative appropriation, Alaska Railroad funding, and the Railbelt Fund could be arranged, but the most important object right now is to implement action to stop the horrendous moose kill.

I would appreciate hearing from you at your earliest opportunity regarding this issue.

Sincerely,



Sharon Harris
6841 E. 3rd Ave.
Anchorage, AK 99504

ALASKA RAILROAD CORPORATION

P.O. Box 107500 • Anchorage, Alaska 99510-7500

February 14, 1990

Lewis Pamplin, Director
Division of Wildlife Conservation
333 Raspberry Road
Anchorage, Alaska 99518-1599



Dear Lew,

Thank you for your letter of February 9 which reviewed our recent meeting about reducing moose mortality. I echo your sentiments that we have had a good working relationship in the past and hope this will continue as we work to resolve this issue. We appreciate your offer of personnel to assist us on various projects and will make those contacts directly as the need arises.

For the most part I agree with your synopsis of what we heard and agreed to last week; however, there are several areas where I believe clarification is needed. And, also, at your request, I will respond to your "additional" recommendations. It's probably best if I take each point as listed in your letter.

Short-term solutions:

1. Pilot cars: We're continuing this program and have begun to see increasing success when coupled with other methods of rousing moose off the tracks, such as the rubber tires between the tracks and the use of sirens on the pilot car. Right now we are using a hi-rail car primarily on the Wasilla/Talkeetna corridor because it continues to be the area of highest moose concentration. It appears that our hi-rail vehicles are the best vehicles for this program and we're outfitting several with sirens and noise-making shotgun rounds.
2. Schedules: Whenever possible we are running trains in both directions in bunches. The biggest impediments to this type of scheduling are availability of manpower and equipment, plus the constraints placed on us by safe operating practices and severe cold weather.
3. Moose trails: We're cutting these parallel trails now. However, it must be noted that it is not always feasible to plow parallel to the tracks because of streams, rock cuts and other topography.

Lewis Pamplin
February 14, 1990

4. **Perpendicular trails:** This is one of those areas where we'll be calling on your department for further assistance in marking areas for perpendicular trails away from the plowed areas.

5. **Engineer's authority:** Technically, it is our train conductors who have control of our trains. They work in conjunction with the engineers to determine when it is safe and proper to move a train. Together they have the authority to slow or stop for moose and have been doing so as evidenced by our on-time record this winter which has been severely reduced because crews are stopping for moose. There have been no orders prohibiting slowing or stopping for wildlife.

6. **Sirens:** As I mentioned under pilot cars, we will be using hi-rail vehicles for this operation and are equipping several with sirens. We welcome your staff's input on the effectiveness of sirens on moose.

7. **Rubber tires:** When we first installed the tires, the moose walked up to the tires, got off the track and walked around the tires, then returned to the track. We have modified this now and have a row of upright tires running at right angles to the tracks on either side of the tires to guide moose away from the track. We're also cutting a path at right angle to the track where we have the tires so they'll have easier walking. This method continues to hold some promise and we'll keep you posted on our success.

8. **Wing plowing:** Our maintenance department continues to wing plow up to 20 feet on either side of centerline during snow removal. It must be noted, however, that despite the plowing moose continue to use our track because there is firmer footing.

Long-term solutions:

1. We'll continue our program of seeking a solution to reducing moose mortality on our tracks.

2. Later this year we will begin brushing our right of way in selected areas to remove attractive moose browse. This program could mean considerable expense to the railroad if continued on an annual basis. Therefore, wherever possible we're hopeful we can allow the trees and shrubs to mature in forest.

3. We'll continue to research and evaluate methods and ideas submitted to us for reducing the moose kills. We'll also work with your department to seek state funding for such a program.

Lewis Pamplin
February 14, 1990

4. We have met with several organizations which are willing to work with your department to develop moose habitat away from the railroad right of way. We hope that an inter-agency program can be developed between your department and the Division of Forestry that would promote habitat enhancement. Wherever possible, the railroad would be willing to assist in such a project. With alternative food sources available, we believe there will be fewer moose stopping on our track.

5. Our mechanical engineer is reviewing methods to "soften" the impact of our locomotive coupling device upon moose in an effort to increase moose salvagability.

6. We welcome any input your staff may have on the effects of sonic devices on moose.

7. We support your idea for a test fence and will join forces with you to gain state funding for the project.

8. Any steps which can be taken to minimize moose kills on the highways is welcomed.

Solutions with no concensus or that are unlikely to work:

1. We'll defer to your department on the effectiveness of salt licks because that falls within your expertise.

2. Construction of a "food fence" is much like the loggers' proposal to develop or enhance moose habitat in the Susitna Valley. We continue to support proposals that will attract moose away from our right of way.

3. If it becomes obvious that a huge number of moose will die each year because there is no food for them, we support a special hunt to thin the herd rather than allowing them to starve or be killed by cars or trains as they search for food.

Additional recommendations:

1. Representatives from the three main departments within our operations division will be available to meet with your staff members to discuss recommendations and possible solutions to reduce moose mortality.

4

Lewis Pamplin
February 14, 1990

2. Our maintenance department will research the possibility of using a hydro-ax for brush clearing.
3. If moose kills north of Talkeetna are not reduced, we'll consider running our pilot car farther north.

I hope this lengthy letter shows our continued support for reducing the number of moose kills on the Alaska Railroad. We'll continue to work with you and your staff for solutions to this problem.

Sincerely,



F. G. Turpin
President and CEO

cc: Don Collinsworth, Commissioner, ADF&G
Arnold T. Polanchek, Vice President, Operations, ARRC

STATE OF ALASKA

M/W-MO-YER

STEVE COWPER, GOVERNOR

DEPARTMENT OF FISH AND GAME

333 RASPBERRY ROAD
ANCHORAGE, ALASKA 99518-1599
PHONE (907) 344-0541

February 9, 1990

Frank Turpin
Executive Director
Alaska Railroad Corporation
P.O. Box 107500
Anchorage, Alaska 99510-7500

Dear Mr. *Frank* Turpin:

Thank you for meeting with us on February 6 to discuss options to reduce moose kills by Alaska Railroad (ARR) trains. Although our staffs have been working on this problem for several years, it is apparent with this winter's extraordinarily high kill that we must initiate more concerted actions to minimize this serious public resource problem.

Moose populations in the Matanuska/Susitna Valley traditionally use winter ranges near the railroad/highway corridor and many moose are struck by trains and vehicles every winter. This year, the problem has been intensified because record snowfall has resulted in higher densities of moose along this corridor. Many moose killed by trains and vehicles are prime reproductive animals that would otherwise survive the winter and help rebuild the population from losses due to natural causes such as winter starvation. Therefore, reducing mortality from trains and vehicles is important to maintaining stable moose populations at current levels.

We have agreed that both ARR and the Alaska Department of Fish and Game (ADF&G) must work together closely to significantly reduce the loss of moose. Summarized below are the potential solutions we discussed and agreed to.

Short-term solutions mutually agreed to by both parties:

1. Pilot cars (chase cars) will precede north and south bound trains. The pilot cars will operate principally between Wasilla and Talkeetna, but extending operations to other areas should be considered, if necessary, over the next two months.

2. When more than one train is heading north or south, train schedules will be arranged so that they run close together. Ideally, trains running in the same direction should depart within an hour of one another.
3. Trails will be plowed parallel to and on both sides of the tracks. Exit trails will be constructed in combination with the parallel trails to provide a means for moose to easily "escape" the railbed. Biologists and railroad staff will coordinate to prioritize which areas should be plowed first and identify locations for exit trails; Carl Grauvogel will be ADF&G's principal field contact and Jim Carr will be the principal contact for ARR.
4. In some areas, perpendicular trails will be plowed to encourage moose to move away from the ROW into areas where natural feed is available. Supplemental feeding may be used on a case-by-case basis in conjunction with this kind of trail system. Department biologists will make recommendations where perpendicular trails should be constructed and identify locations for possible supplemental feeding.
5. Train engineers have the authority to slow trains as conditions warrant, especially if trains encounter groups of moose on the tracks.
6. The railroad will mount sirens on all pilot cars and most (if not all) trains. The railroad will try to determine to what extent sirens are effective. If possible, the effectiveness of sirens should be tested scientifically.
7. The railroad will nail rubber tires to railroad ties, and will attempt to evaluate whether they discourage moose from running between the rails.
8. The railroad will continue to "wing plow" up to 18 ft. either side of the track centerline.

Long-term solutions mutually agreed to by both parties:

1. Actions implemented this winter that are effective in reducing the number of moose struck by trains will be continued in future winters.
2. Next summer or fall, the railroad will begin removing all trees and shrubs within selected sections of the railroad ROW, particularly between mileposts 170-270. Department biologists will recommend areas to be brushed as well as identify areas which could be allowed to "mature" and grow out-of-reach of moose.

3. A research and development (R&D) program is needed, and it may provide the best means to develop long-term solutions for reducing moose kills. The railroad will evaluate whether it can contribute money (perhaps \$50-100,000.00) to initiate a bonafide R&D effort, but it will also assist in soliciting funds from the state legislature or private groups. An R&D program should be implemented immediately given the existing conditions.

4. The department will work with the Division of Forestry and other agencies to enhance moose habitat in areas away from the ROW. However, implementation of this option is a very long-term solution (10-20 years), and this will not totally solve the problem. If successful, habitat enhancement will increase the number of moose overall and redistribute moose densities to other areas (lower moose densities in the ROW), but it will not eliminate moose from the ROW. Because moose habitually migrate between the mountains and low valleys each year, moose will continue to use and cross the ROW on a continuing basis, even if there is little food available in the immediate vicinity of the railroad ROW.

5. Although the railroad takes a dim view of designing a device for the front of the train engine that will increase moose salvageability (because they see potential problems with meeting their operational criteria and federal railroad regulations), they will help investigate this option if money and/or personnel are available.

6. Sonic devices tested in the past have not been very effective in scaring moose; however, a more exhaustive scientific test should be conducted to determine whether such devices hold any promise.

7. If funding for a 5-mile electric fence can be obtained, the fence should be tested under "natural" conditions to determine its effectiveness.

8. The department will consult with DOT officials about the possibility of reducing highway speed limits along some state roads, and of implementing winter road maintenance procedures that minimize "entrapment" of moose by high snow berms.

Solutions with no consensus or that are unlikely to work:

1. Putting out large numbers of salt blocks.
2. Constructing a "feeding fence" away from the ROW.
3. Use of special hunts to reduce moose numbers in ROW.

Additional ADF&G recommendations:

1. The department and ARR need to immediately form a working group to consider all options that have been suggested by our respective staffs and the public to reduce moose kills. This working group should consist of 2 or 3 ADF&G biologists and an equal number of railroad employees who are intimately familiar with railroad operations and procedures. The group should be established and meet as soon as possible to identify options that are feasible and appear to hold promise for reducing moose kills. Recommendations from this group could be the basis for initiation of an R&D program. As recommendations are formulated by the group, they should be sent to you and me for review, approval, and implementation.
2. The railroad should look into the feasibility of brushing during the summer and fall using a hydro-ax; it may prove to be less expensive and more of the railroad ROW could be cleared.
3. If moose kills continue north of Talkeetna, the pilot car should be used as far north as milepost 270.

Again, thanks for your willingness to meet with us to discuss this difficult problem. I am confident that by continuing to work together we can develop cost effective means to reduce the number of moose killed this year and during future winters.

We should get together again in the next couple of weeks to discuss progress in addressing this problem and funding options. Please advise me of your thoughts on our "additional" recommendations. Thank you.

Sincerely,



Lew Pamplin
Director
Division of Wildlife Conservation

cc: Don Collinsworth, Commissioner, ADF&G
Norm Cohen, Deputy Commissioner, ADF&G
Warren Wiley, Assistant Commissioner, ADF&G
Wayne Regelin, Deputy Director, DWC
Bruce Dinneford, Acting Planning Chief, DWC
Dan Timm, Southcentral Regional Supervisor, DWC
Greg Bos, Southcentral Management Coordinator, DWC
Carl Grauvogel, Palmer Area Wildlife Biologist, DWC

Discussion: Snow in the Susitna Valley averages 3-7 feet on the level and berms from snow plowing are usually higher. High berms are a "barrier" to moose when they access the highway. Local road-service districts have exhausted their winter maintenance funds and have no money for "extra" snow-plowing work. The department would hire equipment to do these jobs. Estimated cost: 20.0 -40.0.

4. Recommendation: Clear all the trees and shrubs in the railroad right-of-way (ROW), particularly between mileposts 170-270.

Discussion: Recommendations listed above are all "short-term" solutions. Long-term permanent solutions need to be addressed. Removing brush and young trees in the ROW will eliminate the food source that, in part, attracts moose to the railroad tracks. This work can be best accomplished in the summer and early fall.

Estimated cost: \$150.0 to 195.0

5. Recommendation: Conduct research to develop devices, substances, and procedures to reduce the kill of moose on the railroad tracks.

Discussion: This recommendation is really the key to reducing the railroad moose kill. The Department, the railroad, and the public, have suggested many ways to reduce the kill, but these ideas need to be developed and tested in the railroad environment. An established research and development program is needed to accomplish this goal, and any money left over from the appropriation will be devoted to this cause.

Estimated annual cost: 50.0 to 100.0

cc Greg Bos

Steve Cowper
Governor

February 6, 1990

M/W-MO-RR

465-4100

Don W. Collinsworth W³ rose H
Commissioner
Department of Fish and Game

Briefing Memorandum:
Alaska Railroad
Moose Kills

RECEIVED

Issue

Excessive moose kills by the Alaska Railroad (ARR) and public concern about starving moose.

Problem

Extremely deep snow accumulation in the Matanuska/Susitna Valley area has resulted in extraordinary moose mortality on the ARR and on highways and secondary roads. Media coverage has intensified public attention on this loss as well as on the plight of starving moose. The public is demanding action by the railroad and the state to reduce the kill of moose by trains and highway vehicles and to feed starving moose.

Background

Cause and Level of Mortality

Lowland areas adjacent to the railroad right-of-way (ROW) in the lower Matanuska-Susitna River Valleys are particularly attractive to moose in winter because moose prefer the plant species found on abandoned homesteads for winter browse. The close proximity of moose concentrations to the railroad and local highways results in vehicular collisions with moose. Mortality is greatest when snow is deep, because moose seek out plowed or packed snow areas for travel and are attracted to forage regrowth along roads.

Since 1985, the average annual kill has been 237 by trains and 153 by highway vehicles on Matanuska/Susitna Valley roads. So far this winter at least 375 to 400 moose have been killed by trains, and with at least two more months of expected heavy mortality remaining, the kill will far exceed

the record of 382 in winter 1984/85. More than 150 moose have died on area roads.

Moose have been stressed this winter by extreme snow depths (in some areas greater than 8 feet) and some starvation has been reported. It is likely that many moose, particularly calves, will starve before spring. Moose are seeking out roads and trails where snow is plowed or packed down. Consequently, many are on local roads, dog mushing/ski trails, and in residential areas where their weakened condition is more visible to the general public.

Past and Current Actions

- * Historical railroad moose kill records were compiled and analyzed by our department to identify sections of track where remedial actions would be most effective and to determine if train schedules or other operating procedures could be modified.
- * A number of devices (e.g., lights, horns and other sonic devices, a cushion bumper, and a water cannon) have been considered or tested without success.
- * Wing plowing has not been effective.
- * A test in which trains were slowed to the lowest economical speed (25 mph) did not reduce the number of moose struck.
- * Clearing brush from the railroad ROW was initiated by the ARR, but an insufficient area was cleared to determine its effectiveness.
- * The feasibility of a moose-proof electrical fence has been investigated. Such a fence may have the highest potential for significantly reducing mortality, but construction costs would be high.
- * A pilot car is being used ahead of some trains to move moose off the tracks; the results have been encouraging.

- * The ARR has begun plowing an alternate trail parallel to the tracks to reduce numbers of moose on the tracks.
- * Salvage procedures by the ARR and distribution of meat to qualifying families have been improved. Options have been proposed to modify the front of locomotives, since about 40 percent of struck moose are unsalvageable. The railroad has not pursued this.
- * Through the cooperation of the Department of Public Safety, a computerized database on road-killed moose has been developed to identify road sections with high kill rates. Problem road areas can be evaluated in terms of remedial actions such as fencing, brush clearing, traffic speed control, and eliminating the use of salt in road sanding.
- * In the past, the department has discouraged supplemental winter feeding of moose because it is generally cost-prohibitive and ineffective.

Recommended short-term solutions

The following "short-term" solutions should be implemented immediately to help moose survive this winter.

1. Alaska Railroad

- a. The ARR should have a pilot car (chase car) precede every train through the high kill zone. Once chased off the tracks, moose would likely stay off for some time, especially in areas with plowed trails adjacent to the tracks.
Estimated cost: \$42.0
- b. Trails should be plowed parallel to and on both sides of the track in the high kill zone (milepost 175-260). Moose moving to the railroad ROW would encounter plowed trails first and would likely use them instead of the railroad tracks.
Estimated cost: \$41.0
- c. Trails should also be plowed perpendicular to the tracks in areas where wintering moose density is

high. Preferably, such trails should access feeding areas to encourage moose to move away from the railroad ROW.

Estimated cost: \$6.0

- d. Supplemental feed could be used to attract and hold moose away from tracks, as well as to enhance the effectiveness of trail systems in certain areas. However, since it is expensive, the department should test its effectiveness before full implementation.

Estimated cost to feed 500 moose: \$120.0

- e. The ARR should authorize engineers to slow trains below economical speeds, if necessary, especially where they encounter groups of moose on the tracks.

Estimated cost: Unknown

2. Highways

High snow berms should be cut down and perpendicular exit trails cut at regular intervals so that moose "trapped" in the highway corridor will be able to easily leave the highway. Where roads have been plowed only wide enough to allow "one way" traffic, escape trails should be plowed from the road and/or frequent pull-offs constructed to provide temporary resting places for moose. This work could be done by DOT/PF with existing equipment and personnel.

Estimated cost: Unknown

3. Other Locations

- a. Where wintering moose density is high, create a network of plowed or packed trails to assist moose in reaching natural feeding areas.

Estimated cost: \$20.0

(Also possible with volunteers)

- b. Identify state, borough, and private lands where "near-term" timber harvests have been planned. Organize volunteers or hire people to periodically

cut trees for moose browse. Cutting should be carefully controlled and confined to areas where numbers of moose are wintering in the vicinity.

Estimated cost: Volunteers

The department does not recommend supplemental feeding at specific locations since doing it on an "affordable" scale will have insignificant effects on moose survival.

Recommended Long-term Solutions:

4. Alaska Railroad Operations

- a. If any short-term solutions prove successful, incorporate them into long-term operating plans.
- b. The ARR should clear all trees and shrubs in its ROW, particularly between mileposts 170-270. Clearing should be repeated every four to seven years to prevent regrowth of attractive winter food.
Estimated cost: \$195.0
- c. The ARR should design a device for the front of the locomotive that will increase salvage of struck moose and reduce the kill-rate of those "clipped" by the train plow.
Estimated cost: Unknown
- d. The ARR should have a full-time staff person, preferably a design engineer with a working background in railroad operations, to research devices, substances, and procedures to reduce the kill of moose.
Estimated annual cost: \$100.0
- e. The department and the ARR should construct and test a five mile moose-proof electrical fence from mileposts 197 to 202. Estimated cost: \$436.4
- f. Alternate winter browsing habitat should be created to attract moose away from the ROW. When forests are cut, winter browse could be most

quickly created by immediately scarifying the area and planting nursery-grown seedlings.

Estimated cost for habitat enhancement
for 1,000 moose for 15 years: \$4.8
(\$320/moose/year)

5. Highway Operations

- a. Highway ROWs should be cleared of brush in areas with high kill rates. Warning signs, improved lighting, and other means to help identify moose from a distance at night should be erected. Fences should be used in areas where other methods are ineffective.

Estimated cost: Unknown

- b. Gravel "turnouts" should be constructed every mile or so in high kill areas to provide winter escape routes.

Estimated cost: Unknown

- c. DOT/PF should stop using salt in road sand on sections that pass through areas of moderate to high densities of wintering moose. Moose have been regularly observed kneeling and licking the salted roadbed.

Estimated cost: Unknown

6. Other Locations

- a. The state is developing a Susitna Forest Plan for managing timber harvests in the Matanuska-Susitna Valley. Habitat retention and enhancement are identified as key components. Specific plans on how reforestation is to occur have not been developed. The department should be consulted to identify areas where habitat enhancement for moose would be most beneficial. Such areas should have special treatment methods (tree planting, scarification, fertilization, etc.) to provide moose browse and timber reproduction in as short a time frame as possible, in order to attract wintering moose and reduce densities along railroad and highway corridors.

Estimated cost: Unknown

Funding

The department has no funds to implement any of the suggested solutions. Immediate actions identified under short-term solutions will require a supplemental appropriation, or the ARR could direct its own resources toward these solutions. Long-term solutions can be funded through increased funds to the Division of Wildlife Conservation, capital improvement appropriations, or both. Legislation also could require the ARR to fund such procedures, equipment, and facilities as may be necessary to significantly reduce the number of moose killed and improve the salvage of struck moose.

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

White
STEVE COWPER, GOVERNOR

333 RASPBERRY ROAD
ANCHORAGE, ALASKA 99518-1599
PHONE: (907) 344-0541

February 16, 1990

Karl E. Rye, President
Denali Resources Limited
P.O. Box 873287
Wasilla, Alaska 99687

Dear Mr. Rye:

Representative Menard provided us with a copy of your proposal to obtain a Cooperative Resource Development Agreement under AS 38.05.027 to enhance moose habitat through timber harvest programs as a means of reducing the loss of moose in the Susitna Valley highway/railroad corridor. We are also very concerned about the loss of moose and have been working with the Alaska Railroad, the Department of Natural Resources, and the Department of Transportation on both short and long-term solutions to this problem. I have enclosed a copy of a recent letter to Frank Turpin which may be of interest to you.

Creating alternative winter browse habitat to attract/hold moose away from the corridor is one option the department has considered in seeking long-term solutions to the moose kill problem. We believe this approach has merit in some areas if done properly. Timber harvesting with appropriate regeneration treatments may be the most cost-effective enhancement method available on suitable sites in the lower Susitna and Matanuska Valley, given the land ownership patterns and development that has already occurred there, the timber resources present, and interest by the industry in developing those resources. At the same time, we recognize other resource values and public interests in those areas and the potential for timber development to adversely affect some of those values/interests. The department has participated in Susitna Regional Forest Planning and the Matanuska/Susitna Borough Forest Planning efforts and has provided comments and recommendations on forest management practices that would apply to areas considered for timber harvest and habitat enhancement as a means of reducing highway and railroad-caused moose mortality.

Department staff have begun to review past and current timber sales sites in the Valley to evaluate hardwood regeneration and the production of moose forage in these areas, and we have discussed preliminary findings with Division of Forestry personnel. From these investigations, it is clear that in many

February 16, 1990

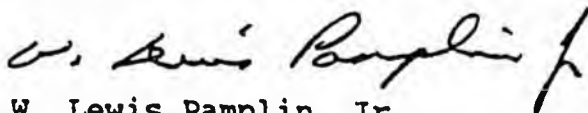
instances past practices have not resulted in adequate regeneration to support winter use by moose or even to fully replace harvested timber within a reasonable rotation period. We and Forestry staff agree that carefully prescribed scarification and/or other regeneration treatments will be necessary to ensure adequate regeneration for productive forests. The department will not support timber harvest programs that do not maintain optimum sustained yields of forest resources, including fish and wildlife. As you know, application of forest regeneration methods can increase costs of timber harvest.

Department staff are presently working with the Department of Natural Resources to develop a plan that will guide timber harvest in the Susitna Valley. The plan is scheduled to be presented for public review this spring. The department does not support the use of forest management agreements as a vehicle to enhance moose habitat.

We are presently working with other state and borough agencies to identify suitable timber harvest areas where enhancement efforts to reduce highway/railroad moose mortality can begin. Timber harvest areas cannot be expected to regenerate significant amounts of available moose forage until at least 5 years after treatment and maximum browse production would likely occur during 10-15 years after treatment. We view such an enhancement program as a long-term effort within the context of a broader Susitna Valley moose habitat enhancement program integrated into the Susitna Regional Forest Plan.

We suggest that you contact the Division of Forestry and the Matanuska Susitna Borough regarding timber harvest opportunities on both existing and upcoming state and borough timber sales. We will continue to work with the Division of Forestry on short-term solutions to help moose this winter as well as timber harvesting plans and practices which will benefit moose habitat over the long-term. We appreciate your interest in the Susitna Valley moose population and your desire to offer positive contributions.

Sincerely,



W. Lewis Pamplin, Jr.
Director
Division of Wildlife Conservation

Enclosure

cc: Representative Curt Menard
Representative Ramona Barnes
Norman Cohen, Deputy Commissioner, ADF&G
Bob Dick, Director, Division of Forestry
Wayne Regelin, Deputy Director, Division of Wildlife
Conservation

Mr. Karl E. Rye

3

February 16, 1990

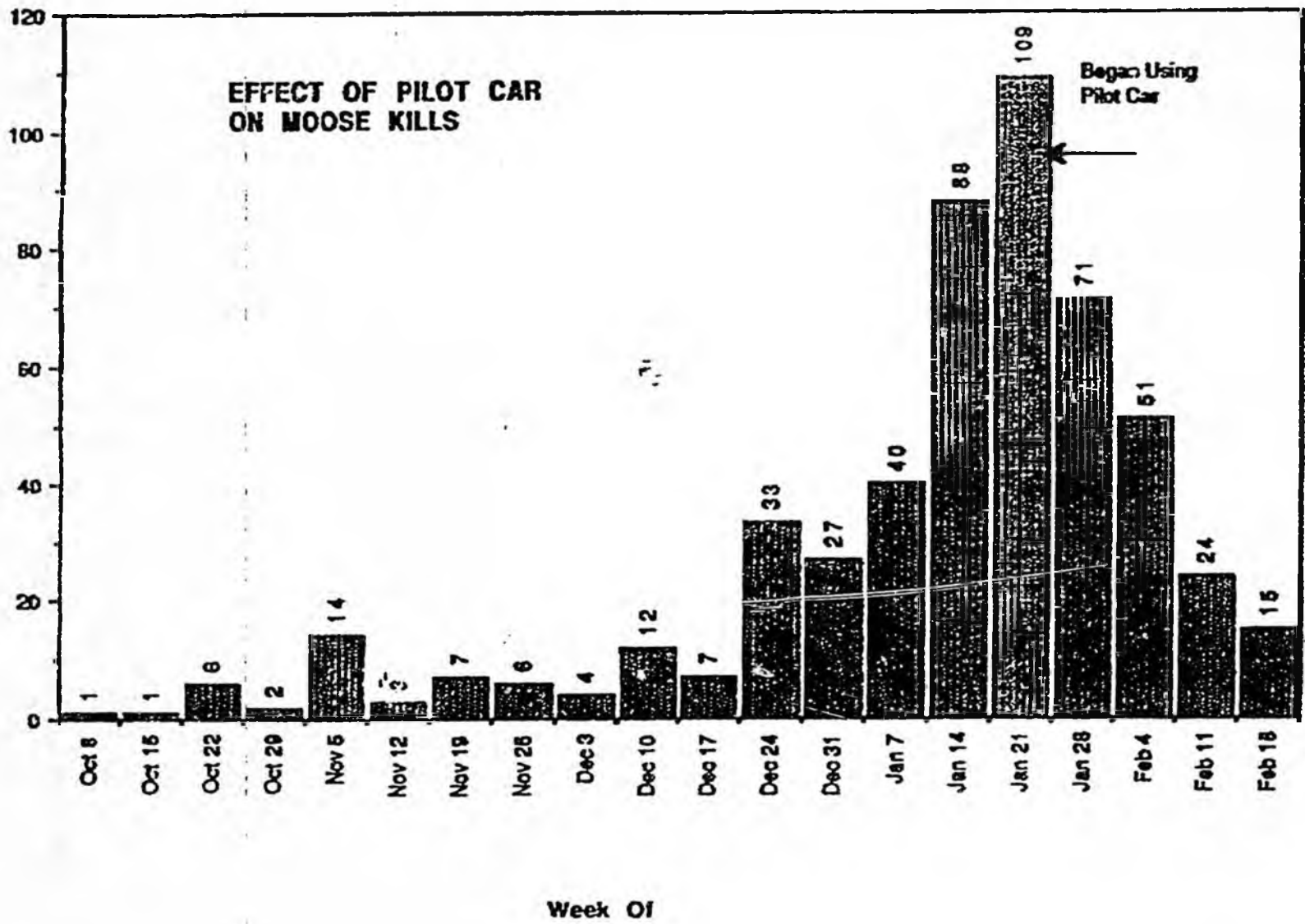
Frank Rue, Director, Division of Habitat
Dan Timm, Southcentral Regional Supervisor, Division of
Wildlife Conservation
Lance Trasky, Regional Supervisor, Division of Habitat

**Alaska Railroad Corporation
Moose Mortality Report**

Railroad Moose Mortality Since State Ownership
(for the period October 1 through April 30)

1989-1990	536 (as of Feb. 26)
1988-1989	242
1987-1988	329
1986-1987	126
1985-1986	21
1984-1985	316

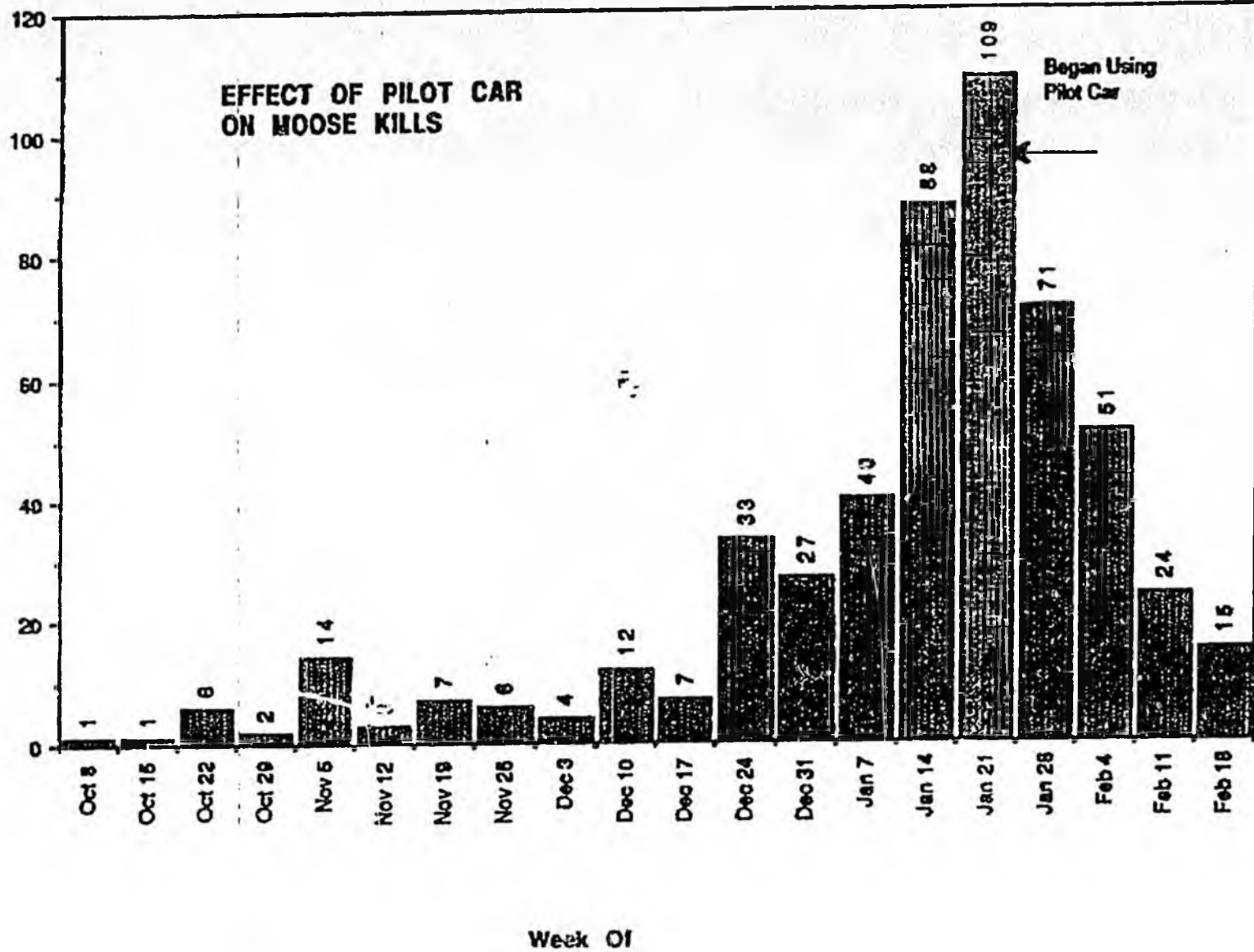
Moose Killed That Week



CORRECTION

**THIS DOCUMENT
HAS BEEN REPHOTOGRAPHED
TO ASSURE LEGIBILITY**

Moose Killed That Week



FACTSHEET: ALASKA RAILROAD PILOT CAR PROGRAM

*The Alaska Railroad pilot car's first trip was Jan. 23. Since that time, moose kills have dropped nearly 90 percent. In fact, from 5 a.m. Feb. 26 until 5 a.m. Feb. 27, no moose were killed anywhere along the Alaska Railroad's route, and the Willow to Talkeetna area has gone several consecutive nights without killing a moose.

*The car travels at an average of 35 miles per hour, staying between two and three miles ahead of the train. The moose leave the tracks and move to the adjacent paths plowed by various volunteer and military organizations using fuel supplied by the Alaska Railroad.

*The Moose Patrol is made up of railroad employees. The pilot car is equipped with shotguns to fire explosive "kracker" shotgun shells to scare the moose. The pilot car also uses powerful spotlights to spot the animals and sirens to scare them off the tracks.

*The pilot car itself is a one-ton Ford pickup equipped with special rail gear, allowing it to travel either on the tracks or on highways. Once on the tracks, the vehicle doesn't need steering, leaving both the driver and the passenger free to spot moose on each side of the tracks.

*On an average night, Moose Patrol members spot more than 50 moose. Generally the moose leave the tracks, although occasionally a moose gets stuck on bridges or refuses to move without being nudged by the pilot car.

*The snow depth in the Willow to Talkeetna area is seven to ten feet. Trails packed by tracked vehicles and snowmachines are giving the moose an alternate path to travel but these have been covered by recent snowfalls.

*The largest concentration of moose seems to be in the area of Willow north to Talkeetna, although plenty of moose are also spotted between Eklutna and Wasilla.

*The pilot car generally makes two to four trips each night between Eklutna and Talkeetna, averaging three hours each way.

#

Update: March 6, 1990

Measures by the Alaska Railroad To Reduce Moose Mortality

Pilot car: This vehicle has been operating since Jan. 23 and has been very effective as a moose deterrent. The vehicle is a 1-ton crew cab Ford pickup; two 2-member crews are rotated out on the vehicle each night. Recently white-out conditions forced the crew to stay off the tracks and, as evidence of the car's success, 13 moose were killed during the night. The success probably lies in the use of noise-making Kracker shells.

Moose paths: The Alaska Railroad's D8 and D7 are working at Kashwitna this week. By last week, about 6 miles of trail had been plowed through the snow parallel to the tracks to make a "moose sidewalk." These trails have been very effective but the work is slow because of the terrain and because nearly 3 feet of fresh snow fell late last week, covering whatever work had been done beforehand as well as any browse uncovered in the process. In some areas snow is measuring up to 10 feet deep and overnight temperatures are still dipping as much as 30 degrees below zero.

The Mat Su Motor Musers--volunteers on snowmobiles--cut about 100 miles of trail parallel and perpendicular to the track from near Nancy Lake to north of Montana Creek. These, too, were being used by the moose until the heavy snowfall covered the trails; the group re-did them three times. Some fuel and lodging was provided the group by the railroad for their assistance.

Two sets of all-terrain, tracked vehicles were being used to cut trails. Nodwells from Denali Drilling (hired by the Save the Moose Committee and provided fuel and lodging by the Alaska Railroad) and the U.S. Army's Small Unit Support Vehicles (SUSVs) cut about 7 miles of trail from south of Sunshine to the Fish Lake area. Their work also has been covered by the heavy snowfall last week. Both groups have pulled out their equipment and

(more)

Update: March 6, 1990

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(more)

Add One--Moose Measures

the Save the Moose Committee has replaced the Nodwells with a Bombardier, a wide-tracked all-terrain vehicle used for snow clearing. It is a far better machine for the task and is expected to surpass the efforts of the Nodwells and SUSVs.

The U.S. Air Force last week had two long-track snowmachines working in the area between Willow and Talkeetna. Although the equipment was very efficient, the trails are covered now.

Rubber tire obstacles: Although the tires were effective, the heavy snow covered them up. The railroad sent out a crew with an air compressor to blow the snow off the tires but heavy snow immediately recovered the tires.

Ice on the ties: This has been the least effective method tried. When the ice froze it was porous and did not appear to affect the movement of the moose.

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For additional information:

Vivian Hamilton
Corporate Communications Manager
265-2675

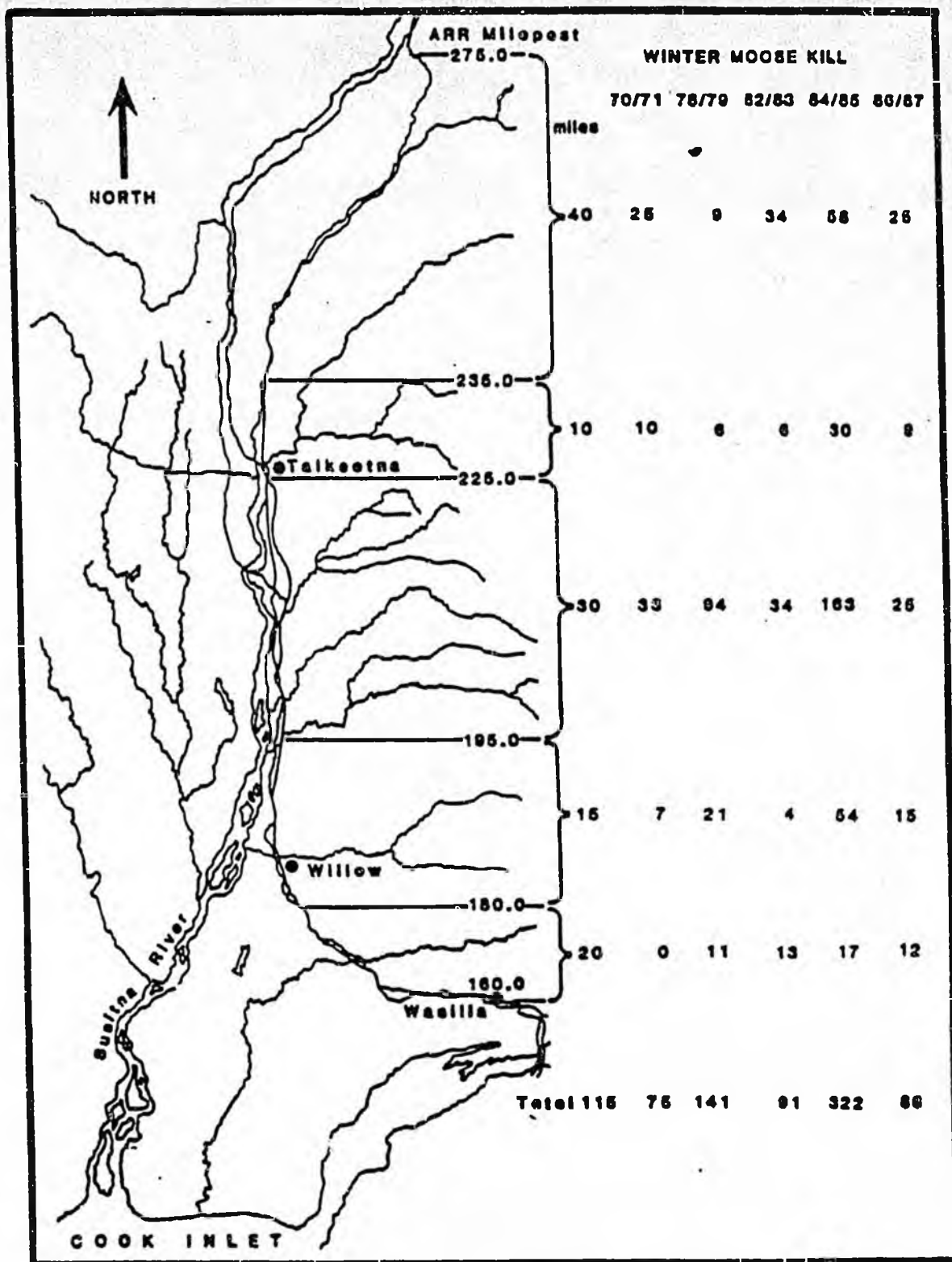


Fig. 1. Distribution and number of moose reported killed by trains in the Alaska Railroad (ARR) right-of-way between milepost 160.0 (near Wasilla) and 275.0 (near Chulitna Pass) during winter (November - April) 1970-71, 1976-79, 1982-83, 1984-85 and 1986-87.

Table 1. Number and percent of moose reported killed by collisions with trains in the Alaska Railroad right-of-way from Seward to Fairbanks by month in summer (May-October) and in winter (November-April) 1963-90.

Year	Month												Season		Total	% Total
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winter		
1963-64	-	-	-	1	3	0	2	4	3	15	16	5	4	45	49	2
1964-65	3	0	1	1	2	1	3	6	8	10	8	1	8	36	44	2
1965-66	1	1	0	1	1	1	1	6	10	9	5	2	5	33	38	2
1966-67	1	0	0	2	2	0	2	5	7	5	28	2	5	49	54	2
1967-68	1	1	0	0	0	0	3	3	7	13	4	0	2	30	32	1
1968-69	0	1	0	0	1	1	0	0	1	4	1	2	3	8	11	.5
1969-70	0	2	0	0	0	0	0	1	1	2	3	0	2	7	9	.5
1970-71	0	0	0	0	3	2	0	14	59	55	19	0	5	147	152	6
1971-72	1	0	0	1	0	1	2	4	17	36	17	10	3	86	89	4
1972-73	2	0	0	0	2	0	0	2	4	7	7	2	4	22	26	1
1973-74	0	0	1	0	1	1	0	3	2	4	6	0	3	15	18	1
1974-75	0	1	0	0	0	0	3	11	13	12	24	6	1	69	70	3
1975-76	6	0	0	0	1	1	1	2	4	7	12	3	8	29	37	2
1976-77	1	0	2	1	0	1	1	1	3	8	7	2	5	22	27	1
1977-78	4	3	0	1	1	1	1	2	5	3	1	1	10	13	23	1
1978-79	0	1	0	1	0	0	1	59	37	42	14	9	2	162	164	7
1979-80	0	0	0	1	0	0	3	6	15	11	14	3	1	52	53	2
1980-81	1	0	0	3	0	3	0	2	1	8	1	1	7	13	20	1
1981-82	1	4	2	2	2	2	3	4	15	6	3	4	13	35	48	2
1982-83	4	3	5	3	3	3	22	22	34	32	14	3	21	127	148	6
1983-84	0	3	3	1	1	2	4	10	7	23	6	4	10	54	64	3
1984-85	1	1	0	3	2	0	1	4	40	104	201	25	7	375	382	16
1985-86	3	3	4	3	7	2	1	3	3	9	5	0	22	21	43	2
1986-87	0	1	3	4	7	3	4	23	56	29	15	8	18	136	154	7
1987-88	-----	-----	12	-----	-----	1	13	81	60	98	64	13	12	330	342	14
1988-89	-----	-----	11	-----	-----	3	11	29	65	82	60	3	11	253	264	11
1989-90	-----	-----	12	-----	-----	11	28	65	270?	-----	-----	-----	-----	-----	-----	-----
Total	30	25	21	29	39	40	110	372	747	634	555	109	192	2169	2361	103
% Total	2	1	1	2	2	2	5	16	32	27	24	5	8	92	100	

Some help for the moose

This is in regard to the slaughter of moose by the Alaska Railroad.

Something must be done to slow or stop this wasteful slaughter. Following are some suggestions:

- Fine the railroad \$500 or more per animal.
- Make the railroad slow down in known high-impact areas.
- Plow a larger area along tracks for moose to get off to one side.
- Plow areas away from the tracks so that the moose have a snowless area and are not tempted to go on the track.
- Increase moose kill for cows, calves and bulls during hunting season in railroad corridor.
- Install a laser light that would warn engineer of impending collision.
- Wolf or bear howl on tape instead of a horn. These predator sounds should scare them off.
- Spray a strong repellent on tracks.
- Fence or tunnel high impact areas.
- Have a man ride shotgun with rubber bullets; scare them off.
- The vast majority of moose are killed at night in the winter. Make the railroad use daylight hours as much as possible.
- Report kills and give salvageable meat to charitable organizations.

There is no one way to stop this "wanton waste," "poaching," or whatever the Department of Fish and Game might call it. The railroad killed over 300 moose last year. With a \$500 fine per animal, the railroad would soon have new ideas.

What happened to Yankee ingenuity? Is it that no one cares?

The railroad made a lot of money last year. Let's see some of it go to a good cause. Help stop the slaughter.

— *Bill Samuelson*
William Flyter

Giants star gets \$15 million deal

Sports, B-1



3e Daily News

ANCHORAGE, ALASKA, TUESDAY, JANUARY 23, 1990

PRICE 25 CENTS

Moose dying at record rate along railway

By CRAIG MEDRED
Daily News reporter

The trains of the Alaska Railroad in the last month have been killing an average of almost 10 moose per day on the stretch of tracks between Palmer and Denali National Park and Preserve, according to officials of the railroad and the Alaska Department of Fish and Game.

Almost 50 of the animals died over the weekend, the railroad reported Monday. The total death toll for January has reached 204.

State wildlife biologist Carl Grauvogel said that is a record for the month. November and December kills bring the total death toll to almost 300 moose so far this winter.

It appears certain the railroad will set a new winter record for moose kills. The existing record is 360 dead, and records show that most moose die in the spring as snows deepen along the rails and winter-weary animals search for easy walking.

Deep snow is already being blamed for this year's carnage. Moose that stray onto tracks banked with 5-

MOOSE KILLS

- SUNDAY: 30
- JANUARY: 204
- WINTER: Almost 300
- RECORD: 360

Sources: Alaska Railroad and state Department of Fish and Game

foot or higher snow berms are unwilling to jump back into the snow to get out of the way of oncoming trains, Grauvogel said.

"There are solutions to the problem, but they're going to cost money," he said. "There are not solutions that are cost effective from the railroad's standpoint."

"I don't know the answer to it," said railroad spokeswoman Vivian Hamilton. "I really don't."

Some Alaskans are saying the answer might rest in making the state-run railroad pay.

"Public pressure made Exxon spend billions of dollars," said Jean Lee, who has a cabin along the tracks north of Anchorage. "The public has got to do some-

Please see Back Page. MOOSE



The Associated Press photos

Soviet army tanks.

en secession

towns and cities in Azerbaijan, which has a population of more than 7 million. It has set

suspending the state of emergency imposed on Baku Friday by Gorbachev.

gency
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MOOSE: Trains killing at record pace

Continued from Page A-1

thing about this. The public has to be aware.

"We were up there over the weekend ... and my husband had a scanner, and we were listening to the railroad. Even the train men were getting upset (about the number of dead moose)."

Thirty of the big animals were run down on Sunday, Hamilton said.

"Our crews are not happy about it," she said. "It's not a pleasant thing for them to do."

The railroad has tried tactics to minimize the kill, Hamilton added. Efforts have been made to plow wider than the tracks to give the moose a shallow-snow area toward which to flee, and trains have been slowing down, even stopping at times, to give moose an opportunity to get off the tracks.

"Other than stopping trains altogether, I don't know what else we could do," Hamilton said, and the trains can't be stopped.

"We have a lot of customers," she said. "A lot of customers would be without freight."

She also questioned why the railroad should be charged for the moose it kills.

"Are they going to do the same thing for motorists?"

Hamilton asked. Motor vehicles collide with an estimated 800 moose in Alaska in deep-snow winters.

"We don't have the funds to pay that," Hamilton added. "It would increase the cost of doing business."

And it isn't like the railroad is intentionally killing moose, she said.

But some are concerned that the willows that grow in the railroad right of way create an attractive nuisance that lures moose near the tracks.

Grauvogel was reluctant to talk about this issue because of fears he could damage what he considers a good working relationship with the railroad; but he noted that moose kills have declined in areas where the railroad has cleared large areas on either side of the tracks.

"The areas they brushed out last year, they did an excellent job," Grauvogel said. "They took the food back to the tree line," and most of the moose stayed back there, too.

Brushing more areas won't save all the moose, Grauvogel added, but it could help save some. The big problem, he said, is that brushing should have been done over the summer.

"You can't do much in the winter," Grauvogel said.

Snow in the Lakeetna ar-

ea is now about 6 feet deep, and it just keeps coming. Train crews have had a tough time keeping the tracks clear of snow. Moose are a secondary priority. Lee said that has to change.

"All anyone says is 'There's nothing we can do,'" Lee said. "That's what everybody says. 'There's nothing we can do.' I just get angrier and angrier."

Train crews are trying, Hamilton said. Some have slowed so much in the effort to avoid killing moose that they have been unable to make the Anchorage to Fairbanks run in under 12 hours, Hamilton said, forcing the railroad to make emergency crew changes to comply with federal laws on train operations.

Section crews have also been working hard to retrieve all the moose carcasses. Edible portions are donated to charity. Inedible portions are saved for a state project to feed wolves in the Tok area this spring.

Still it is not enough, Lee said. A 50-year-old, who has been visiting the family cabin along the tracks 190 miles north of Anchorage for 36 years, she has never witnessed anything like the carnage this year.

"My husband works for the labor union, and he's not an environmentalist," she said. "But he agrees something's got to be done."

FILE

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Moose leath toll ops 500

roup hopes to cut umber of train kills

CRAIG MEDRED

News reporter

The death toll of moose crushed by the
e-owned locomotives of the Alaska
road has now surpassed 500, the most
n, and a grassroots organization has
eed to halt the carnage.

A group called Save the Moose plans to
n a rescue on Friday, said Charles
Wareham, a volunteer coordinator
the vice president for operations at
com. The first priority will be to
te moose trails in the snow-clogged
tna Valley to lure moose away from
railroad tracks.

Wareham said the railroad can't do
nything on its own.

"They're not equipped to gear up and
ond to this problem quickly enough,"
aid. "Already there's been 500 moose
ed by the railroad, and they're still
ing them."

Railroad officials have reduced the
y moose kill from approximately 12
day to about four per day, but that is
a lot of moose, said Carl Grauvogel,
ate wildlife biologist.

At the present rate, the railroad could
another 300 moose by April. That
uld bring the total winter kill to
roximately 800 animals — nearly
ce the old record of 460.

Heavy snows are largely to blame.
w has driven the moose down out of
mountains and concentrated them in
Susitna River lowlands, through
ch run the railroad and the George
ks Highway.

Nature itself is doing a lot of killing



Please see Back Page, **MOOSE**

A moose runs down the tracks to try to get away from an oncoming train near

MOOSE: Grassroots group has three-part plan to keep animals alive

Continued from Page A-1

there. Moose are starving to death or dying from exhaustion in snow that reaches to their shoulders. The railroad deaths simply add to a bad situation, Grauvogel said.

"It is pretty grim," Wareham said. "We're gonna have a massive winter kill this year no matter what we do. Up north there, there's areas where there are over 100 inches of snowpack. You're talking about 9 feet of snow."

"In those deep snow areas where the moose walk, they leave a big, U-shaped furrow in the snow."

"I've tried walking out there just to see what it's like," Grauvogel said. "You spend about 5 minutes in that snow and you're just exhausted."

Moose face the same situation, and after nearly exhausting themselves in snow, those that stumble onto the plowed railroad tracks aren't eager to leave. Grauvogel said state biologists and railroad officials have tried everything they can think of to secure the animals off the tracks before the trains catch and crush them. Nothing works well.

About the only real solution is to plow or pack alternative trails for moose parallel to the tracks. Grauvogel said the railroad has started doing that with some success. Moose that encounter those trails follow them, instead of going onto the tracks.

Wareham said. Save the Moose is going to expand the trail-building effort. Two

tracked vehicles will start making trail on Friday, he said, and the Army has been asked to help out with additional teams of tracked vehicles.

"That's piece number one (of the moose-saving plan)," Wareham said. "Piece number two is we'll take that same equipment and run spurs off of that walkway. Wherever we can get permission, we'll run those walkways into areas of natural browse."

Where private landowners are agreeable, or where the state says it's OK, Valley loggers will go into the browse areas and chop down birch and aspen trees.

"They're going to go in and knock over some trees so the moose can eat some of the tree tops," he said. "Fi-

nally, as a third piece, in the built up area here in the Valley where people have moose in their backyards and around their cabins and everything, up to about 500 moose could conceivably be fed with a supplemental feeding program."

Save the Moose, a coalition of hunters, outdoorsmen and others interested in assisting the moose, is working on a plan to purchase moose food in bulk and supply it to volunteers who would do the actual feeding.

"It's gonna cost probably \$250,000 for this feeding program and for this trail program," Wareham said. The state House Resources Committee has approved legislation appropriating that much money for a moose rescue, but no one should

count on that, Wareham said.

Even if the legislature approves the money, "It's not going to get here in time to solve this problem," he said, so the group is soliciting contributions.

Both the Alaska Department of Fish and Game and the railroad have backed the efforts of Save the Moose.

Biologists especially hope these efforts can save pregnant moose. The survival of these animals may be vital to rebuilding the moose population over the next few years.

Grauvogel said the deep snows have already killed most of the calves born last spring, and bulls that used a lot of energy fighting over cows during the fall rut are in trouble.

"I've made a couple flights, and we see a quite a few dead moose," Grauvogel said. "The snow measures 5 to 7 feet on the level out there. Moose aren't moving around as much as they were. They're really keying on trails."

Once the trails along the train tracks are done, he said, he'd like to see people begin putting in trails from the tracks to old homesteads where regrowth forest provides good moose browse.

People might be able to save some moose by doing that, Grauvogel said, but trails won't alter the brutal realities of nature. Moose die from snow and cold every winter. The unusual conditions this year are likely to kill thousands.

And the winter is far from over.

24 of 1-100 2-2-70

OUTDOORS

Record moose suffering deadly winter

By DELIA DORRAN

Frontierman staff

An average of 10 moose nightly are being hit by trains due to deep snow and no escape pathways, according to game biologists and Alaska Railroad officials.

"Railroad kills are going to set a record," said state game biologist Carl Grauvogal. As of 5 a.m. Wednesday, approximately 360 moose had fallen victim to trains. Of those collisions, 250 occurred since Jan. 1.

Vehicle collisions with moose don't number as high, with

around 150 reported so far this year.

The trains are a reluctant weapon of a villainous winter with deep snow and unforgiving pathways. Grauvogal related several officials receiving reports of starving calves and moose lingering near homes. Area residents want to do something about the situation and Grauvogal hopes to provide opportunities soon.

"Usually we don't get a rash of those calls until March or late March," explained Grauvogal.

A growing number of starving

calves have officials and the public alarmed and working on possible action. We're definitely working on the department (Fish and Game) coming out with options for involvement," he said.

"We might only save a few hundred, but that's very important," added Grauvogal.

Along the Parks Highway through Willow, a moose calf has wandered near mile 68 for over a week and is being fed hay by concerned residents.

Gene Newman, owner of Newman's Hilltop Service, notes the

severity of the moose/snow problem. "It's a concern shared by everyone. They've definitely been a problem," said Newman.

Grauvogal expects the calf survival rate to be below 50 percent in areas north of Willow, and, "only so-so in the Palmer-Wasilla area."

Two containers full of dead moose sit by the railroad tracks in Willow. The moose were hit by trains but were unsalvageable for human consumption, according to Vivian Hamilton of the Alaska Railroad Corp.

Hamilton explained the moose will be stockpiled until spring when they will be used for predator research by the Dept. of Fish and Game. Game researchers are trying to develop a solution, using the dead moose, to increase calf survival rates.

Rep. Curt Menard has called an emergency meeting of the House Resources Committee to address the record number of train-killed moose. Scheduled for Jan. 30 at 7 p.m. the meeting will be teleconferenced and public testimony will be taken at the Legislative Information Office in Wasilla.



Method sought to reduce kills

By BILL KELDER
Times Valley Bureau

WASILLA — Over the past five years, the Alaska Railroad Corp. has tried everything from guns with blanks to ultrasonic whistles to get moose off the railroad's tracks before an oncoming train hits and kills them.

"We do not like being printed up every winter as moose killers, and have been working with the state Department of Fish and Game and the University of Alaska to develop a technique that will keep moose off the railroad tracks before they get hit by an oncoming train," said Vivian Hamilton, the railroad's director of communications.

"Unfortunately, nothing we have tried thus far has worked," she said. "We are open to suggestions, but we recommend that people with ideas they think will work first run them by the Department of Fish and Game. We cannot use any method the department has not first approved," Hamilton said.

Among the methods tried:

- The railroad invested \$15,000 through the University of Alaska Fairbanks to develop ultrasonic, or high pitched, whistles to try to get moose off the tracks. The effort was fruitless as the moose never responded to the ultrasonic whistles.

- Sirens, like those on fire trucks, were used on trains to try to scare the moose off the tracks. The moose were scared alright, but ran down the tracks instead of getting off them.

- Guns with blanks were fired from trains approaching moose on the tracks. The results were the same as in the siren tests.

- The Fish and Game Department, using a locomotive loaned by the railroad, tried using slower speeds as a way to avoid moose kills. When the engine's normal 50 mph speed was cut in half, there was no appreciable difference in kills.

"I think there were 19 'paper' kills at 50 mph and 18 kills at 25 mph, or maybe it was vice versa," said Fish and Game wildlife biologist Carl Grauvogel.

Grauvogel said department personnel have been meeting regularly with railroad officials for the past five years to try to find a workable solution to the moose problem.

Hamilton said some suggestions received by the railroad just are not practical.

"One group of school children in Fairbanks suggested running a helicopter in front of every train to scare the moose off the tracks," she said. "But the cost of contracting for helicopters makes that proposal unfeasible."

Other suggestions included running the trains only in daylight hours.

"First, in the winter it takes longer to run a train from Anchorage to Fairbanks than there is daylight. Second, moose get killed in the daylight and in the summer just as in the winter, though they are more prone to get off the tracks in the summer months, so the number of incidents are fewer," Hamilton said.

A suggestion to mount a water cannon on the locomotive to squirt at moose to get them to move proved technically and financially unfeasible, she said.

Another idea is to use rubber bullets to scare the moose off the track, but there is no guarantee that a moose scared by a rubber bullet in the winter will do anything other than run down the center of the tracks as it does when blanks are

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ed.
DF&G's Grauvogel said one idea is to run an electrified wire mesh down the center of the tracks between the rails. The wire would be low amperage but high voltage to possibly train the moose to avoid the tracks altogether.

"The problems would be breakage of the wires, causing a break in the current, and keeping the wires uncovered during the winter so the moose would feel the shock," he said.

"Other countries with similar winter problems, such as Canada and Sweden, have tried a number of techniques that also failed," Grauvogel said. "They finally concluded that the only effective method that would work is to put up a fence along each side of the railroad right-of-way in areas of heavy moose population. That is probably the best solution, but it, too, has drawbacks," he said.

Grauvogel said his department estimated the cost of building an electric fence along the 60-mile stretch from Willow to Chase was \$3.5 million, including an \$863 per mile maintenance cost for the first three years of operation.

He said such a fence would not be continuous for 60 straight miles, and would have guided openings through which moose would be "ushered" out if they wandered into a fenced area by following the railroad tracks.

One problem with the electric fence idea is people — snowmobilers, cross-country skiers, trappers and others who come across a barrier are not going to be pleased, Hamilton said.

She said other problems with the fence idea are jurisdictional.

"Who pays for the fence, its maintenance and the power needed for the electricity," she asked. "There is also a big question of liability. Who is responsible if a person or their pet gets shocked by the fence? How high could the cost of damages go in the case of a lawsuit?"

Grauvogel said one long-term solution might be to develop moose habitat areas away from the railroad's right-of-way, gradually training the moose to winter in the habitat areas. That might be done in conjunction with planned timber harvests, he said.

"It is important to point out that no economically feasible method or technique to keep moose off the railroad tracks is going to be 100 percent effective," Grauvogel said. "Some moose, winter or summer, are simply going to be walking down the tracks when a train comes and get hit and killed."

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Moose grow weary, hungry as heavy snow buries fo

By JOSEPH DITS
Times Writer

Moose in Cantwell and Trapper Creek are giving up. Many of them are kneeling down on the roads and dying from starvation.

Heavy snowfalls a week and a half ago buried most of the edible foliage, forcing moose into some of the biggest herds seen in years along the roadways and railroad tracks, say Alaska State Troopers.

Radio dispatchers for the area say they have been fielding twice as many moose calls as last winter.

And troopers issued warnings about the fatigued wildlife and icy snow-packed roads last week to drivers on roads north of Trapper Creek. They suggest travelling 45 mph or slower.

"Citizens have been up here 21 years

and say they've never seen it like this," said Trooper Roger Ellis of Cantwell, who said he was counting 15 to 20 moose per mile last week.

But Roberta Winfield, a clerk with Fish and Wildlife Protection, said the office has had no chance to tally the casualties.

"I'm spending my entire day going from one moose kill to the other, and I haven't had time to count them up," she said.

Several groups are working on possible solutions to the moose herds, said state wildlife biologist Carl Grauvogel. Thursday, road crews began to plow openings so wildlife may have "escape routes" through the high snow berms along the roads.

State and Matanuska-Susitna Borough officials are meeting with railroad

officials on more extensive plans that Grauvogel said would be announced within two weeks.

A guide and pilot counted about 90 moose and 40 caribou last week on an eight-mile stretch of the George Parks Highway centered at Cantwell. Ray Atkins, a 25-year Alaskan, said he saw about 200 moose within a couple of hundred feet of the road when he drove from Cantwell to Willow last week.

Ellis said from his Cantwell office he could see as many as 100 caribou on a nearby hill.

Palmer police Chief Ron Otte said moose-related calls hit a "frustrating" level for his dispatchers, who handle Matanuska-Susitna Borough calls north of Willow.

Palmer dispatcher Jackie Smith said the department was answering about 20

to 30 calls a day, twice as many as last winter.

In the Talkeetna area, troopers reported 20 moose shot in four days while people were defending lives and property. Compare that with the usual two or three a month.

Dispatcher Brad Ault in Talkeetna said the moose have lost their patience with humans trying to shoot them away. "They flat lay their ears down and charge you," Ault said.

The moose have become so tired, many have given up their search for new ground.

Many calves have exhausted more calories clamoring through the high snow and seeking food than they've been able to eat. Ault said three-fourths of the calls lately have regarded moose calves.

"It's breaking my heart. "I'll frankly be surprised if of them survives."

About 25 moose were starved in one week, he said.

Reports of large numbers began pouring in Jan. 10, with conditions blow in several feet. Ault said. Similar conditions during the winters of 1970-71, he said.

No significant snowfall was for this week but sub-zero temperatures were, the National Weather said. It got to a low of minus twelve Friday.

Both Ellis and Ault are sure the moose will survive the frost.

Ellis said the moose make body heat by eating more. The cold eats up all their energy.