# Northwest Territories Mixed Economy Case Study: Dome Petroleum 1976-1979

- Changes in Skill level in northern employees
   1976 1979 (p.6)
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- Employment and Income Beaufort Sea
   Drilling Program 1976 1979 (p.9)
- Earned Income from fur sales (p.13)
- Beaufort Sea Drilling Program Training 1976-1979 (p.14)

### Reference info:

Dome Petroleum, 1979, Socio-economic overview of drilling in Beaufort, p. 1, 5-42.

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#### A. INTRODUCTION

Following the detailed review of the 1978 drilling season further detailed reviews of each season were deemed unnecessary unless some significant event occurred. Evidence gathered from the statistical record, company sources and employees and residents from the Beaufort Sea Communities indicated a general satisfaction with the operation. A mid-season tour of the communities in 1979 indicated no large formal review would be required. Two communities, Holman Island and Coppermine, were surveyed in October and November of 1979 largely confirming this view.

Meetings with individuals in both Coppermine and Holman Island revealed no new information regarding Dome/CanMar operations, which suggests that detailed reviews are no longer required. Those interviewed in Coppermine agreed but felt that the Government of the Northwest Territories should continue to monitor social and economic changes in the area, leaving the community to deal with the Company on matters related directly to Coppermine. The attitude was somewhat different in Holman where the general feeling was that visits by field workers should continue. If this was not possible one person suggested contact should be made with the community council to ascertain community views.

Because a comprehensive review of the 1979 drilling season was not undertaken this report largely utilizes statistical information whereas in previous years a substantial amount of information gathered in the field was used. This report presents a socio-economic overview of the four years of drilling in the Beaufort Sea, emphasizing economic aspects more than social.

The economic and social impact of any sizeable development is impossible to determine without detailed fieldwork over time. This has not been possible. As an alternative generally acceptable indicators have been monitored. In theory, abrupt changes in the indicators suggest economic and social change. These indicators are presented in the following pages.

#### III. Employment

In 1976, the first season of offshore work in the Beaufort Sea, 127 northerners were employed in the operation in 67 positions. By 1979, with substantial increases in the workforce in intervening years, 224 northerners were employed in 130 positions.

In 1979 the greatest portion of northern labour was drawn from Tuktoyaktuk and Inuvik (60%) with 32% coming from other Beaufort Sea Communities. Eight (8) percent were recruited from outside the area. This has generally been the recruitment pattern since 1976. (See Table 2).

The northern workforce working in the offshore operations has become progressively more skilled each year. Through formal and on the job training and as a result of experience the number of skilled and semi-skilled employees has increased from 22 in 1976 to 113 in 1979, an increase of 414%. The number of unskilled workers has remained constant at slightly over 100 persons. In 1976, 17% of the Company's northern workers were considered skilled or semi-skilled. By 1979 this proportion of the workforce had increased to 50%.

TABLE 2

BEAUFORT SEA DRILLING PROGRAM - CHANGES IN NORTHERN EMPLOYMENT LEVELS 1976 to 1978

		Number o	f Employees	and Ch	anges		
Community	1976	1977	% Change	1978	% Change	1979	% Change
Aklavik	7	22	+214	18	-18	27	+50
Coppermine	3	15	+400	18	+20	19 •	+50
Holman Island	0	4		8	+100	6	
Inuvik	15	28	+87	35	+25	54	-25
Paulatuk	3	8	+167	11	+38	11	+54
Sachs Harbour	1	5	+400	5	NC NC	8	NC
'uktoyaktuk	87	103	+18	76	-26	80	+60
ther Centres	11	9	-19	14	+56		+5
OTAL	127/67	194/97	+53 18		100000000	19 24/130	+36

NOTE: Under Total: Hires/Positions

SOURCE: Dome/CanMar

TABLE 3

CHANGES IN SKILL LEVEL OF NORTHERN EMPLOYEES - 1976 TO 1979

Skill Level		Number	of Emp	lo <b>y</b> ees in	each	Skill Le	vel	
11 - 65	1976		1977		1978		1979	
Skilled	6	(5%)	19	(10%)	33	(18%)	66	(29%)
Semi-Skilled	16	(12%)	58	(30%)	50	(27%)	47	(21%)
Unskilled	105	(83%)	117	(60%)	102	(55%)	111	(50%)
TOTAL	127	(100%)	194	(100%)	185	(100%)		(100%)

SOURCE: 1976 - Collins, Mary - 1978

1977 - Social/Economic/Cultural Report

1978 - CanMar 1979 - CanMar

During the 1976 drilling season CanMar analyzed the impact of its operation in the region and as a result a five (5) year action plan covering employment and training, local business opportunities and social and cultural considerations was drawn up. In terms of employment the company placed emphasis on increasing the level of skilled personnel while keeping the number of unskilled employees constant. As in evidence in Table 3 the objectives have essentially been met and in most instances exceeded during the 1976-1979 period.

Dome/Canmar's original objective for their northern employment program projected a 100% increase, between 1976 and 1979, in positions filled as regular complement for the majority of the season (See Table 4). During the first year of operations positions filled exceeded positions projected by twenty (20). In each succeeding year positions filled also exceeded projections.

Because of the increase in the number of skilled employees, higher wage scales, and a lengthening of the drilling season, the average seasonal earnings have increased dramatically from \$2,896 in 1976 to \$9,119 in 1979. Average weekly earnings in 1979 amounted to \$554 compared with average weekly earnings of \$348 in firms in the Northwest Territories employing 20 or more people (See Table 6).

TABLE 4

COMPARISON OF CANMAR'S 5 YEAR EMPLOYMENT

PROJECTIONS WITH ACTUAL HIRES

	Positions Projected	Positions Filled	Individuals Hired	Ratio-Hires to Positions
Skilled				
1976	6	6	6	
1977	14	19		1:1
1978	211	21	19	1:1
1979	32	40	33 66	1.6:1
Semi-Skilled				
1976	19	16	**	
1977	33	34	16	1:1
1978	36	28	58	1.7:1
1979	38	29	50	1.8:1
1980	38		47	1.6:1
	30	18 <del>5</del> 18	-	-
Unskilled				
1976	21	45	4.00	
1977	22	38	105	2.3:1
1978	23	36	117	3.1:1
1979	24	61	102	2.8:1
1980	25	n 2	111	1.8:1
W-4-7-			<del>No</del> ul	-
Totals	5723520			
1976	47	67	127	1.89-1
1977	69	97	194	2.00-1
1978	89	98	185	1.88-1
1979	94	130	224	1.72-1

SOURCE: Dome (CanMar)

TABLE 5

BEAUFORT SEA DRILLING PROGRAM
EARNED INCOME
1976-1979

Aklavik Coppermine	LITHOLING		1976		1977		1978		1070	
21 5,197 17 8,363 21 4 3,684 8 4,559 19 25 5,423 30 6,691 47 8 4,129 11 2,681 11 94 3,951 43 6,710 72 6 10,844 13 10,012 19 1 2,896 19 4,522 181 6,307 203 9	ON	0	AVERAGE	NO	AVERAGE	ON	TOYGGAY		CIC.	
21 5,197 17 8,363 21 4 3,684 8 4,459 19 8 4,459 19 8 4,129 11 94 3,951 47 5 6,549 4 9,422 8 6 10,844 13 10,012 19 1 13 4,441 2 included above 2,896 19 4,522 181 6,307 203	Aklavik					2	AVERAGE	NO	AVERAGE	
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25 5,423 30 6,691 47 8 4,129 11 2,681 111 5,681 111 5,881 111 72 8 111 111 11 11 11 11 11 11 11 11 11 11	Inuvik			7	3,684	80	4.550	2	2010	
8 4,129 11 2,681 11 5 6,549 4 9,422 8 6 10,844 13 10,012 19 1 2 2 2 24 2,896 19 4,522 181 6,307 203 9	Paulatuk			52	5,423	30	6 604	اِ د	2,963	
5 6,549 4 9,422 8 6 10,844 13 10,012 19 7 2 2 2 2 13 4,441 2 Included above 2,896 19 4,522 181 6,307 203 9				00	4.120	,	6000	4.7	9,317	
94 3,951 43 6,710 72 6 10,844 13 10,012 19 1	Sachs Harbour			ĸ	6 1 1 2		2,681	Ξ	2.568	
6 10,844 13 10,012 19 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tuktoyaktuk			5	2,040	7	9,422	00	002.0	
2,896 19 4,441 2 included above 194 4,522 181 6,307 203				1	156,5	43	6,710	72	7,355	
2,896 19 4,441 2 included above 19 4,522 181 6,307 203	Other			4	40 044				1	
2 1 2 8 8 8 13 4,441 2 included above 194 181 6,307 203	[nc]uding:			o.	10,044	13	10,012	19	15,577	
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194 181 224	15.		2,090	6	4,522	181	6,307	203	9.119	
181	DIAL EMPLOYEES 127	lans.		194		101				
						- 0		224	2	

NOTE: 1. No. equals number of employees for which income data applies 2. 1979 figures are preliminary and will change

SOURCE: 1977, 1978 Beaufort Sea Drilling Reviews 1979 Canmar - Roger Allen, Personal Communication

TABLE 6

EMPLOYMENT AND INCOME
BEAUFORT SEA DRILLING PROGRAM
1976-1979

		1976		1977		1978		1979
TOTAL EMPLOYMENT		127	VICTORIAN	194	-	181		224
MANDAYS WORKED		4,650		13,540		14,793		16,718
EARNINGS	\$36	67,825	\$8	72,708	\$1	,141,478	\$1,8	351,111 <sup>1</sup>
AVERAGE EARNINGS/ MAN DAY	\$	79	\$	64	\$	77	\$	111
AVERAGE EARNINGS/ MAN WEEK	\$	396	\$	322	\$	383	\$	554
% CHANGE		-		-19		+19		+45
AVERAGE WEEKLY EARNINGS - NWT <sup>2</sup>	\$	262	\$	291	\$	313	\$	348 <sup>4</sup>
5 CHANGE		<u></u>		+11		+ 8		+11
AVERAGE WEEKLY EARNINGS - CANADA	\$	228	\$	250	\$	265	\$	285 <sup>5</sup>
CHANGE		-	i	+10		+ 6		+ 8

#### NOTES:

- 1. Preliminary Earnings
- Average Weekly Earnings Industrial Composite (Firms over 20)
- Average Weekly Earnings Industrial Composite (Firms over 20)
- 4. Preliminary Average of January September
- 5. Preliminary Average of January September
- 6. 5 Man days = 1 man week

Since the completion of this report it has been learned that total earnings (northern employees) reached \$2,048,957. Of this amount \$181,189 was season end bonus paid to those who completed the season. The average season end bonus amounted to \$1,523.

In 1976, Dome/CanMar's northern employees worked an average of 36.6 days. Average days worked increased to 69.8 in 1977, 82.3 days in 1978 but dropped to 74.6 in 1979 (See Table 7). The reason for the drop is unknown but was likely a result of a number of short term employees taken on to the fourth drillship and icebreaker towards the end of the season and onto the dredging operations at McKinley Bay.

Although the number of individuals taken on by CanMar and sub-contractors has increased steadily (other then in 1978) there have been no major labour shortages in the Beaufort Sea communities. It was reported, though, in 1977, that CanMar wages forced local wage scales upwards. Generally, more jobs are required, particularly for young people who do not know how to live off the land, or do not have a desire to do so.

Viewed from the Company's perspective the employment program has been very successful. As reported in the review of the 1978 season northerners feel the program is a good one. The majority of employees interviewed rated their employers - CanMar, Mercator and Challenger - very highly.

TABLE 7

AVERAGE LENGTH OF EMPLOYMENT
BEAUFORT SEA DRILLING PROGRAM
1976-1979

1976	1977	1978	1979
127	194	181	224
4650	13540	14893	16718
36.6	69.8	82.3	74.6
	4650	127 194 4650 13540	127 194 181 4650 13540 14893

#### IV. Other Economic Benefits

#### a. Spin-offs

The availability of new goods and services in Tuktoyaktuk as a result of Dome/CanMar activity was apparent in 1977. No new product lines were noted in 1978 but there seemed to be a wider range of goods available. There was also a marked improvement in the quality and quantity of fresh produce available to all Tuktoyaktuk residents when Dome/CanMar started buying its fresh food requirements through local stores. This prevailed during the 1978 season as well. The contract for fresh produce was awarded to a Yellowknife contractor in 1979 but the results on local supplies is unknown.

During the first year of offshore work Dome/CanMar allowed Tuk residents to ride between Inuvik and Tuktoyaktuk on company owned or chartered aircraft. The effect of this free riding was to reduce the volume of Northward Airline's business in the community of Tuk to the point that on many occasions Northward cancelled scheduled flights. This reduced freight service to the community and the availability of passenger service. In 1977, as a result of local stores supplying fresh produce and Dome/CanMar's new policy of not permitting casual riders on their aircraft, air transportation service increased from two (2) Twin Otter flights a week to three (3) F27 flights and seven (7) Twin Otter flights. The situation remained the same in 1978 and it is reported that service in 1979 has remained good.

Other spin-offs include an increase in the number of taxis operating in Tuktoyaktuk and the bank operation during the summer months.

It seems that improved availability of goods and services largely coincides with the Company's operating seasons, and there is no evidence to indicate that Dome/CanMar is placing a strain on the availability of goods and services in the one.

#### b. Effect on Hunting and Trapping

Offshore oil exploration appears to have had little negative impact on the number of persons in the Beaufort Sea communities who engage in trapping. Between the 1975/1976 and 1978/1979 trapping seasons the number of trappers increased by twelve (12) percent.

The drilling season, by and large, has tended to complement renewable resource harvesting activities in the communities. Most lay offs have tended to occur just prior to the opening of the trapping season. Those who continued to work after the commencement of the trapping season have been able to utilize time off to trappart time.

Employees interviewed in previous years indicated that much of the money earned was utilized to purchase hunting and trapping equipment. This information has been supported by comments from non-trappers and merchants. To be a successful trapper good equipment is required. Employment during the drilling season provides cash to purchase the equipment.

#### V. Education and Training

Training-on-the-job is the chief means employed by Dome/CanMar to ensure the development of a skilled labour force. In addition, in co-operation with the Government of the Northwest Territories, Department of Economic Development and Tourism, and Canada Manpower the Company sponsors formal training courses such as drilling schools at the Petroleum Industry Training School and marine training through nautical training courses. Specialized training in other fields is also encouraged through the Apprenticeship Program. Table 9 summarizes training offered to date. In total 95 training positions have been utilized in 17 fields ranging from cooks to drilling activities to office training.

TABLE 8

EARNED INCOME FROM FUR SALES

	1975-1976			1976-1977	1	1977-1978		1978-1979
Community	No. of Trappers	Earnings	No. of Trappers	Earnings	No. of Trappers	Earnings	No. of Trappers	Earnings
Aklavik	146	\$166,794	153	\$ 228,997	169	\$217,037	166	232,934
Coppermine	148	98,749	141	164,533	133	82,632	156	320,400
Holman Island	48	96,565	55	241,184	52	108,272	53	74,806
Inuvik	124	153,427	127	159,887	141	220,946	150	325,684
Paulatuk	56	17,643	18	42,423	17	7,603	27	73,272
Sachs Harbour	28	92,552	04	110,387	33	85,697	35	98,346
Tuktoyaktuk	83	71,744	79	122,518	75	76,154	88	232,664
TOTAL	603	474,769	613	1,069,929	626	798,341	675	1,358,106
Average		1,157		1,745		1.275		2.012

SOURCE: Fish and Wildlife Service, Government of the N.W.T.

TABLE 9
BEAUFORT SEA DRILLING PROGRAM TRAINING 1976/1979

	1976	1977	1978	1979 *
Data Entry Operator	3 (2)	2 (2)		
Seamen (Long Course or Tour)	-	4 (2)	4 (0)	924.0
Seamen (Short Course)	5 (2)	2 (1)	8 (1)	1 (1)
Cost Accountant	-	2 (1)	2 (2)	1 (1)
Apprentice Electrician	<u> </u>	3 (1)		1 (1)
Radio Operator	200 200	2 (1)	2 (1)	1 (1)
Electronics Technician	11-20	1 (1)	- (0)	<del></del>
Mechanic	5520		1 (?)	-
Sub Sea Engineer	5 <u>-</u>	2 (2)	3 (1)	
Expediter		1 (0)	S -	1 (0)
Crane Operator	-	2 (1)	( <del></del>	-
Welder	1.0 <del>1.0</del> 0	17(10)	100	20
Prilling Trainee	- /	2 (1)	4 (1)	25
dilers	7 (1)	<del></del>	3 (1)	24 (10)
Cooks			4 (2)	_
	12		4 (2)	-
Administration (Asst. Yard For	eman)		1 (1)	S-
Equipment Operators			4 (?)	9.00
Cotal Trainees	15	40	40	28

SOURCE: CanMar

NOTE: \* Employees taking formal training only.

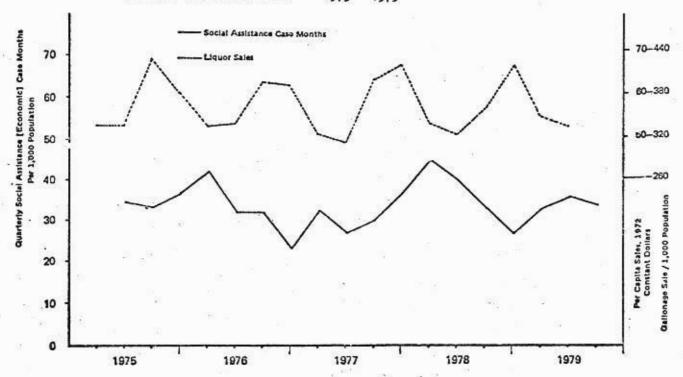
#### C. SOCIAL IMPACT

#### I. Social Services

#### a. Social Assistance (Economic Reasons)

The number of social assistance cases in the Beaufort Sea communities varies with the season. During the summer months, a period of high employment, the number decreases only to increase again in the winter. The number of social assistance case months per 1,000 population has not changed significantly since 1975. See Figure 1 and Table C, Appendix I.

Figure 1 INUVIK LIQUOR STORE SALES, AND SOCIAL ASSISTANCE CASE MONTHS,
BEAUFORT SEA COMMUNITIES - 1975 - 1979



Liquor Sales - Inuvik Liquor Store

SOURCE: Table C ; Appendix 1
Table F , Appendix 1

#### b. Social Service Workloads

In 1978, Department of Social Services personnel reported that Dome/CanMar had had negligible social impact on the Beaufort Sea Communities with the exception of Tuktoyaktuk. In Tuktoyaktuk activity resulting from the presence of Dome/CanMar's logistics base is seen as having a direct social impact on the community.

Day care in Tuktoyaktuk was identified as a problem in 1978. Parents were finding it difficult to find babysitters to take advantage of expanded opportunities. As a result Dome/CanMar has encouraged and assisted in the establishment and operation of a Daycare Centre. Based on findings in the 1978 review of Dome/CanMar's impact there does not seem to be any increase in demand for other social services available in the communities such as financial counselling and alcohol counselling.

Partially updated child care statistics (see Table 10) indicate an increase in child care cases in Aklavik. The largest number of cases occur in the summer months in all the communities. In 1978 social workers attributed this to increased employment and less parental supervision combined with boredom on the part of the children which leads to delinquency and other problems.

TABLE 10

AVERAGE NUMBER OF CHILD CARE CASES PER MONTH

Community	1975/1976	1976/1977	1977/1978	1978/1979	1979/1980
Aklavik	4	6	4	7	11
Inuvik	77	89	105	74	?
Paulatuk	0	0	1	0	1
Sachs Harbour	1	1	(M)	-	1
ľuktoyaktuk	3	1	8	7	6
Holman Island	0	o	0	0	?
Coppermine	6	4	6	6	7

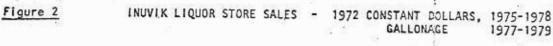
SOURCE: Department of Social Services.

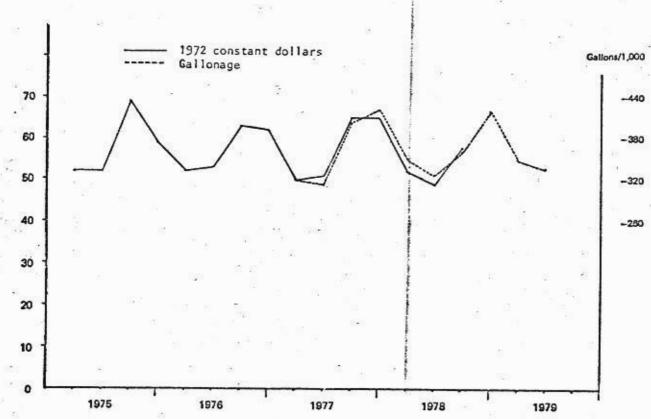
#### II. Liquor Consumption

During the review of Dome/CanMar's 1978 operations almost half those interviewed in Tuktoyaktuk indicated that a significant portion of community income earned through Dome/CanMar employment was used to purchase alcohol. In Coppermine informants indicated that the proportion of income spent on alcohol remained the same throughout the year. When people earned more money they bought more liquor and inversely, smaller earnings lead to fewer liquor purchases.

If it is assumed that an increase in the number of social assistance recipients indicates higher unemployment thus lower community income then liquor sales from Inuvik Liquor Store and social assistance statistics from the Beaufort Sea Communities support the observation of Coppermine informants. As is indicated in Figure 1 during periods when the number of social assistance recipients is highest, liquor consumption is generally lowest. Liquor sales are highest in summer, lowest in winter. Although the geographic areas used as a base to compare liquor sales and social assistance are not the same they do overlap. Evidence from Frobisher Bay indicates that during the four years preceding the closure of the Territorial Liquor Store the same pattern prevailed. It is likely that if we detailed liquor purchases in each of the Beaufort Sea Communities the data would still indicate the same pattern.

Per capita liquor consumption in the Inuvik Region (where 5 of the 7 communities are located) have not changed significantly in the last 5 years (see Figure 2). In Coppermine per capita liquor consumption increased gradually between 1975 and 1978. (See Appendix 1, Table J).

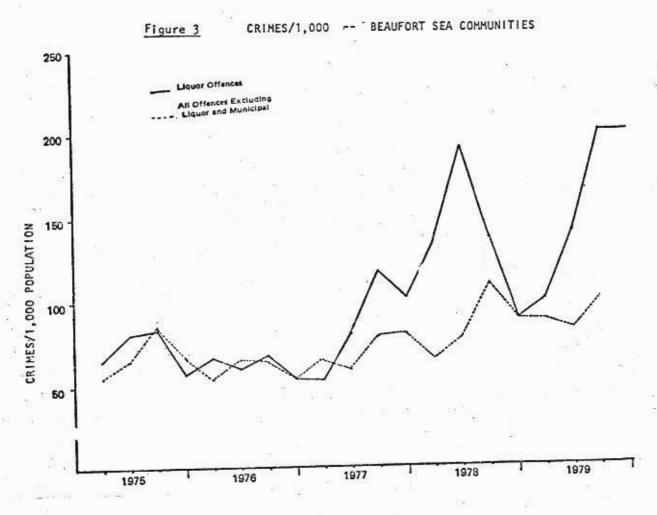




SOURCE: Table F , Appendix !

#### III. Crime

Crime (excluding liquor and municipal offences) in the Beaufort Sea communities has been increasing gradually from a low annual rate of 236 offences/1,000 persons in 1976 to 338/1,000 in 1978. The crime rate for the first three quarters of 1979 is slightly ahead of that in 1978. (See Figure 3).

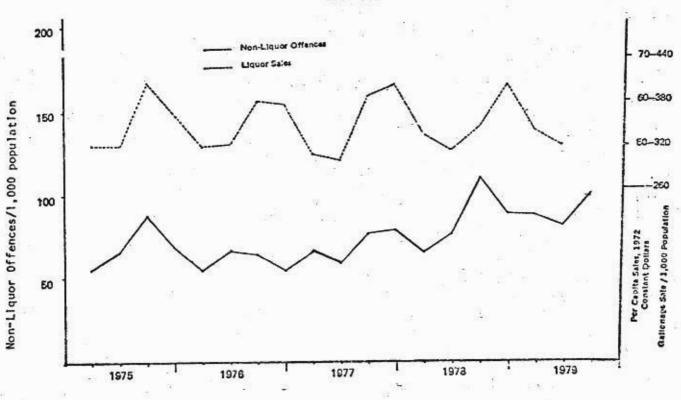


SOURCE: Tables G2 and G3

The crime rate is generally highest during the July to September period, that period when employment and alcohol sales are at their highest point. As is indicated in Figure 4 there is a positive relationship between non-liquor offices and liquor sales indicating a "cause and effect" relationship.

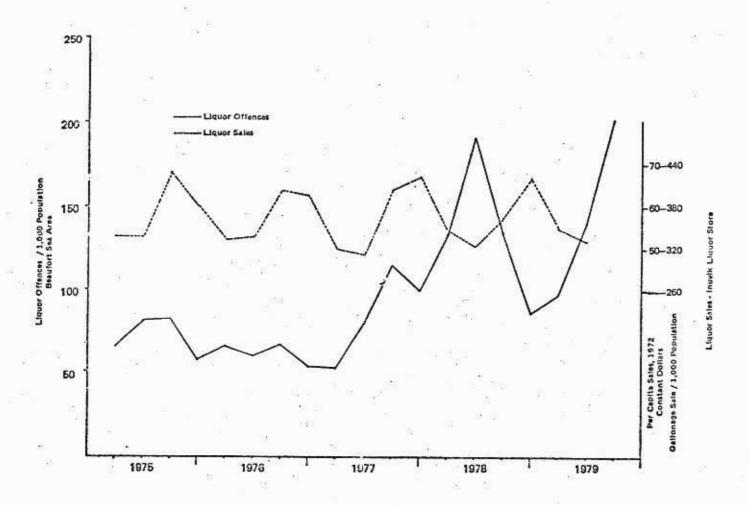
Between 1975 and the end of the first quarter of 1977 a similar positive relationship existed between liquor sales and liquor offences. (See Figure 5). Following the first quarter in 1977 the pattern of liquor offences of liquor offences changed with the rate increasing dramatically. During previous reviews informants indicated that there was no more crime than in previous years but there was more R.C.M. Police vigilance. The statements by those interviewed were supported by R.C.M. Police personnel. Thus the change in crime rate is likely largely as a result of enforcement and not necessarily an increase in actual crime.

Figure 4 INUVIK LIQUOR STORE SALES AND NON-LIQUOR OFFENCES - BEAUFORT SEA AREA 1975-1979



SOURCE: Table G3, Appendix 1
Table F, Appendix 1

Figure 5 INUVIK LIQUOR STORE SALES AND LIQUOR OFFENCES - BEAUFORT SEA AREA



SOURCE: Table G2, Appendix I

#### IV. Population Shifts

There has been no significant increase in population or shifts in population as a result of offshore exploration. It has been reported that a few families have returned to Tuktoyaktuk and a small number of southerners have purchased lots from the Hamlet Council. (See Table A, Appendix 1).

#### D. INFORMATION/LIAISON/COMMUNITY RELATIONS

#### I. Information Program

Dome/CanMar continued and expanded the Information Program in 1979 resulting in an apparent improvement in communications.

#### 1. The Beaufort Sea Community Advisory Committee

The Company continued to sponsor the Beaufort Sea Community Advisory Committee. To improve BSCAC operations an Information Co-ordinator, resident in Inuvik, was contracted to improve liaison and dissemination of information.

In the past there has been a communications gap between BSCAC members and the Community Councils/HTAs to whom they were to report. To reinforce this reporting relationship the method of issuing per diem payments to members was changed. In 1979 some members received their per diem payments from the Council or HTA which they represented.

The desired effect of these two changes was to speed up information dissemination to members and to improve communications between the BSCAC and communities. Information dissemination was speeded up but it is not known if communications improved.

The Committee as a whole made two (2) complete community tours and met with company officials once. The Committee also toured development and production operations at Cook Inlet in order to familiarize themselves with offshore work in the development and production stages.

A sub-Committee of BSCAC members was formed to assist in the planning and preparations for under ice oil spill experiments. Some of the members also attended an environmental workshop in Fairmont, British Columbia.

#### 2. Other Information Mechanisms

Dome/CanMar field workers visited the Beaufort Sea communities nine (9) times in 1979.

	Date	Tour participants
1.	January 8, 1979	Operations Manager, Employee Relations Manager, and Northern Relation Coordinator
2.	February 9, 1979	Northern Employee Relations Officer
3.	April 17, 1979	Beaufort Sea Advisory Committee tour with support from four Dome/CanMar people; Operations Manager, Environmental Protection Manager, Research Worker, and Northern Relations Coordinator.
4.	April 17, 1979	Northern Employee Relations Officer and two orew managers from Challenger Drilling and Mercator Enterprises Ltd.
5.	June 20, 1979	Employee Relations Officer and Northern Relations Coordinator.
6.	July 27, 1979	Northern Relations Coordinator.
7.	August 22, 1979	Aklavik Enterprises Ltd., CanMar Environment Field Worker, BSCAC Information Coordinator.
8.	October 8, 1979	BSCAC tour with support from CanMar: Vice President, Environment Protection Manager, Environment Field Worker, Northern Employee Relations Officer, and Northern Relations Coordinator.
9.	December 2, 1979	Northern Relations Officer and two Crew Managers from Mercator Enterprises and Challenger Drilling Ltd.

In addition to Dome/CanMar representatives visiting the communities, thirteen groups of people from the Beaufort Sea Communities toured company operations. The tours were aimed at acquainting areas residents with the many aspects of offshore oil exploration. Informants in Coppermine indicated that more frequent visits of CanMar personnel to the settlement improve information flow.

	Date	Number	Group
1.	July 14, 1979	15	Beaufort Sea Adivsory Committee
2.	July 22, 1979	13	Coppermine Community
3.	July 29, 1979	14	Holman Island Community
4.	August 5, 1979	15	Paulatuk Community
5.	August 12, 1979	12	Sachs Harbour community
6.	August 19, 1979	13	Aklavik Community
7.	Sept. 2, 1979	10	Tuk Councillors
8.	Sept. 8, 1979	13	Tuk Community
9.	Sept. 9, 1979	14	Inuvik Hunters and Trappers
10.	Sept. 14, 1979	18	Tuk Teachers and others
11.	Sept. 29, 1979	16	Inuvik Clergy
12.	Oct. 13, 1979	15	Beaufort Advisory Committee
13.	Nov. 4, 1979	10	Inuvik Group

Various other groups from southern Canada were also given tours of the operations.

Dome/CanMar continued to operate the Information Centre in Tuktoyaktuk this year, on a part time basis, and 12 issues of the CanMar Bulletin were published. The Company's practice of attending Tuktoyaktuk Council meetings continued and Company fieldworkers attended some council meetings in other communities. To help keep people in the communities informed of research activities local residents were included in various projects as observers and monitors.

#### 3. Community Relations and Support

Dome/CanMar continued, in 1979, to support community oriented action designed to enhance the economic benefits offered through employment and local purchasing of supplies.

#### a) Recreation and Entertainment

Logistics support was provided to participants from the costal communities attending the Northern Games. Donations and support was given in support of the July 1st Sports Day in Tuktoyaktuk and Kids Day (September 2). The Company also provided helicopter rides for the children of Tuktoyaktuk. Transportation assistance was given to school teams.

In co-operation with the Hudson's Bay Company, Dome/Canmar sponsored a fashion show. The money raised went to local projects.

#### b) Social Programs

The Company reports it continued to enhance its dry camp policy in 1979, following the pattern of previous years.

The Special Leave Folicy which allows hunters and trappers to take extended periods of leave to go out on the land was continued in 1979. During the drilling season at least 4 employees took advantage of the policy provisions.

Support in the form of materials and supplies was provided to the alcohol committee in Tuktoyaktuk for the renovation of a building to be used as an AA Centre. Transportation was also provided for the Committee.

Transportation was provided for 15 delinquent teenagers and their counsellors to assist in a back-to-the-land type rehabilitation project.

The 1978 review indicated a need for Day Care facilities in Tuktoyaktuk to enable more women to take advantage of employment opportunities. In 1979 Dome/CanMar assisted the Day Care Centre by arranging to have hot meals available to the children as well as cold snacks, lunches, a crib and mattresses. Female employees were encouraged to use the facility.

The Tuktoyaktuk Hunters' and Trappers' association was compensated for inconvenience caused by keeping the harbour open part of the winter. Imperial Oil and Dome/CanMar each gave the Association \$5,000. A reindeer corral was built for the Canadian Reindeer Company at Atkinson Point because of the herds proximity to the McKinley Bay dredging operations.

#### 4. Company/Territorial Government Liaison

Dome/CanMar officials met with the Government of the Northwest Territories officials in Yellowknife and Inuvik to review problems in the social area and to review the Company's Social Economic Action Plan. The Territorial Government and the Company also co-operated in preparing an infrastructure study "Beaufort Sea Development - An Analysis of Future Infrastructure Requirements". The report documents existing infrastructure and future requirements for future offshore oil and/or gas developments.

#### E. CONCLUSIONS

- 1. In 1979 Dome/CanMar, as in previous years, complied with the Terms set out in the 1979 Memorandum of Understanding.
- 2. As a result of Dome/CanMar's exploration program the business community in the Mackenzie Delta, particularly those businesses dependent on exploration, were cushioned from possible serious financial difficulties.
- 3. Dome/CanMar has exceeded projected employment forecasts during each operating season.
- 4. Social indicators do not indicate any substantial negative social impact in the Beaufort Sea area.
- 5. Unless there is a significant change in Dome/CanMar's drilling program or significant occurence in the Beaufort Sea area there is no need for detailed socio-economic reviews.

#### F. RECOMMENDATIONS

#### It is recommended that:

- 1. Because the net social and economic effects of Dome/Canmar's exploration efforts appear to be positive the company should be encouraged to continue operations in the Beaufort Sea.
- Other resource development companies, as a condition of any permits issued, should be required to develop social and economic programs similar to Dome/CanMar's programs.
- 3. Indicators of the social and economic impact of Dome/Canmar's operation be monitored by the members of the Resource Development Committee, Government of the Northwest Territories.

#### APPENDIX I

TABLE A

POPULATION ESTIMATES - BEAUFORT SEA COMMUNITIES

Community	1975	1976	1977	December 1978	December 1979
Aklavik	758	781	791	763	779
Inuvik	2991	3116	3085	2938	2973
Paulatuk	123	127	147	163	
Sachs Harbour	157	162	169	177	181
Tuktoyaktuk	919	269	684	760	
Coppermine	746	169	785	803	825
Holman Island	255	263	290	328	337
Total Area	5706	5915	5951	5932	6044

GNWT (See 1977 Beaufort Sea Drilling Review)
GNWT (See 1978 Beaufort Sea Drilling Review)
GNWT Population Projections - Statistics Section 1975-1976: 1977: 1978-1979: Source:

#### TABLE B

#### POPULATION - INUVIK REGION 1975-1979

1975 - 7,201 1976 - 7,356 1977 - 7,514 1978 - 7,435 1979 - 7,548

Source: 1975: Used some growth rate for 1975 to 1976 as is

evident between 1976-77.

1976-1979: G.N.W.T. Population Estimate.

#### TABLE B

#### POPULATION - INUVIK REGION 1975-1979

1975 - 7,201 1976 - 7,356 1977 - 7,514 1978 - 7,435 1979 - 7,548

Source: 1975: Used some growth rate for 1975 to 1976 as is

evident between 1976-77.

1976-1979: G.N.W.T. Population Estimate.

TABLE C

SOCIAL ASSISTANCE (ECONOMIC REASON) CASE MONTHS BY QUARTER 1975-1979

1975         1975         1975           Jan-Mar         46         32         2         47         5         1         61         194 (34)           Jan-Mar         46         35         3         2         47         5         1         61         194 (34)           Jot-Dec         44         50         2         1         76         240 (41)         36         240 (31)         36         240 (31)         36         240 (31)         36         240 (31)         36         240 (31)         36         240 (41)         36         240 (41)         36         240 (41)         36         240 (41)         36         240 (41)         36         240 (41)         36	and         32         2         47         5         1         61         194           appr.         35         33         2         47         5         1         61         194           appr.         35         35         2         47         5         1         50         2         10           appr.         35         46         1         50         2         1         76         240           appr.         36         2         33         3         1         1         49         180           appr.         40         46         7         7         6         2         44         191           appr.         40         4         61         1         3         24         191           appr.         40         4         71         0         0         2         44         191           appr.         40         4         71         0         0         44         191           appr.         40         4         71         0         0         44         191           appr.         40         4         71         0		Aklavik	Coppermine	Holman Island	Inuvik	Paulatuk	Sachs	Tuktoyaktuk	Tot	Totals
n         46         32         2         47         5         1         61         49         194           n         44         50         2         47         5         1         61         49         194           n         64         46         1         50         2         1         76         240           n         64         46         1         50         2         1         76         240           n         35         49         2         33         3         1         76         240           n         56         2         33         3         1         1         40         184           n         40         40         4         51         6         2         44         191           n         40         40         4         51         6         2         44         191           n         40         40         4         71         0         0         44         191           n         40         40         40         40         40         40         40         40           n         40<	apt. 46 35 33 2 2 47 5 1 61 194 6 27 180 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1975 Tan-Mar									
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Source: G.N.W.T. - Department of Social Services NOTE: Figures in brackets represent case months/1,000 population.

TABLE D

INUVIK LIQUOR STORE SALES 1972-1979 IN 1972 CONSTANT DOLLARS AND GALLONS

Quarter	1972/1973	1973/1974	1974/1975	1975/1976	1976/1977	1977/1978	1978/1979	79/80
April-June July-Sept.	394,172	403,206 438,490	421,344 453,314	375,956	388,103	385,084(2346) 492,078(3020)	366,247(2413)	(2536)
JanMar.	441,172		484,375 371,374	424,818 382,828	454,645	487,924(3193) 384,404(2531)	(3134)	
TOTALS	1,678,962	1,706,544	1,730,407 1,664,431	1,664,431	1,686,373 1	1,686,373 1,749,490(11095)	(10866)	
% Change		+2%	+ 18	84 T-	-3%	+18	-28	
Per Capita Sales				231	229	233 (1.47)	(1.46)	

SOURCE: N.W.T. Liquor Control System.
NOTE: Figures in brackets represent gallonage sold.

TABLE E

ABSOLUTE GALLONS ALCOHOL SOLD - INUVIK LIQUOR 1977-1979

	Spirits	Wine	Beer	Total	Spririts	Wine	Beer	Total	Spirits	Wine	Beer	Total
April	730.04	37.99	33.96	802	669.47	54.14	29.92	753	67 600		00	200
May	725.30	45.39	44.25	814	671.22	36.34	34.68	710	618 72		00.00	2000
June	650,01	34.74	45.16	730	844.59	51.10	21.60	018	743 10		34.36	041
July	792.04	59.33	43.79	895	710.96	54.65	58.56	825	828.20	19.01 RO 86	55 13	945
August	1194.08	105.38	72.21	1371	1119.70	83.14	63.78	1267	210		05.43	
September	639.76	79.73	33.59	754	506.85	41.64	39.70	580				
October	760.27	76.43	34.67	87.1	892.34	73.55	61.51	1028				
November	912.30	91.08	42.33	1045	690,15	52.60	29.91	773				
December	1134.74	106.52	39.67	1282	1209.78	77.88	14.76	1333				
January	594.30	31,68	26.95	643	682.94	49.39	29.04	761				
February	777.00	41.89	32.08	851	731.70	52.97	33.26	818	8			
March	935.17	56.03	36.21	1027	939.44	72.75	46.90	1059	×			
Total	9845.01	766.19	484,87		9669.14	700.15	493,62		3122.75 199.93	199.93	159.01	

#### TABLE F

#### LIQUOR SALES - INUVIK LIQUOR STORE Constant Dollars/Gallonage Per Capita/Per Thousand

	1975	1976	1977	1978	1979
January/March	\$52	\$52	50	52 (340)	(349)
April/June	\$53	53	51 (312)	49 (325)	(336)
July/September	\$67	63	65 (401)	58 (361)	155-7
October/December	\$59	62	65 (426)	(422)	

#### Notes:

- 1. Constant dollar figures represent sales per capita
- Gallonage figures (in brackets) represent sales per 1000 population
- 3. Because recent increases in liquor prices have not been acrossthe-board increases conversions to constant dollars (to show changes in volume sold) have become difficult to do. In 1977 the liquor control system began keeping detailed gallonage records. In order to compare consumption (volume sales over time) both constant dollars and gallonage sales are used.

TABLE G1

ACTUAL CRIMES/QUARTER BEAUFORT SEA COMMUNITIES

	Aklavík	Inuvik	Sachs	Tuktoyaktuk/ Paulatuk	Coppermine/ Holman
1975					
Jan-Mar	112	486	4	0.5	6
Apr-June	152	550		000	30
July-Sept	140	657	_ 0	10	25
Oct-Dec	102	509	0 0	7 7.	63
1976					
Jan-Mar	112	453	L	00	
Apr-June	144	406		0 1	1
July-Sept	77	0 0		0 t	48
Oct-Dec	0.1	70	. •	689	61
	6	400	8	62	59
1977					
Tan-Man	711	11 22			
lorInne	25	000	lo l	123	84
July Sont	20	001	17	86	89
and and and	7	691	9	166	116
Oct-Dec	89	787	η	107	82
1978					
Jan-Mar	88	000	0		
Dis Trees	0 0	950	0	109	65
whi - dune	92	1288	7	110	10
July-Sept	172	1017	9	151	100
Oct-Dec	137	633	C	, t	63

	Aklavik	Inuvik	Sachs Harbour	Tuktoyaktuk/ Paulatuk	Coppermine/ Holman	
1070						
Jan-Mar	151	691	m	125	01	
Apr-June	196	837	N	164	101	
July-Sept	309	1166	0	157	144	
Oct-Dec	N/A	N/A	N/A	N/A	N/A	
NOTE: The actual number of orimes docreview. The cause of the discrepancy	The actual number of c	f orimes documented in thi	ed in this	table differs from	crimes documented in this table differs from those presented in the 1977 iscrepancy is not known. The figures presented here have been double-	he 1977 double-

TABLE G2

LIQUOR OFFENCES/QUARTER BEAUFORT SEA COMMUNITIES

	Aklavík	Inuvik	Sachs	Tuktoyaktuk/ Paulatuk	Coppermine/ Holman	Total
1975 Jan-Mar	ን. የ	280	٥	88	-	371 (65)
	12	0 = 0	1 4	000		
Apr-June	10	340	0	20	ת	
July-Sept	74	334	0	27	22	_
Oct-Dec	32	250	m	37	16	338 (59)
TOTAL	225	1212	10	150	48	1645 (288)
1976						
Jan-Mar	9	269	0	74	16	
Apr-June	38	287	-	25	9	
July-Sept	29	318	-	30	18	
Oct-Dec	12	279	N	16	15	324 (55)
TOTAL	139	1153	4	118	55	1469 (248)
1977						
Jan-Mar	17	261	0	21	28	327 (53)
Apr-June	30	368	9	33	46	483 (81)
July-Sept	41	534	-	53	59	694 (117)
Oct-Dec	17	558	-	25	ħ	-
TOTAL	102	1721	8	138	137	2106 (353)
1978						1
Jan-Mar	23	702	-	53	25	_
Apr-June	41	966	-	89	30	1136 (192)
July-Sept	83	629	0	62	44	_
Oct-Dec	4.7	346	0	99	31	517 (87)
TOTAL	221	2673	2	249	130	3275 (552)

	Aklavík	Inuvik	Sachs	Tuktoyaktuk/ Paulatuk	Coppermine/ Holman		Total
1979							
Jan-Mar	9	404	0	911	10	606	(100)
Apr-June	109	592	0	99	101	870	(1112)
July-Sept	154	894	0	7.1	144	1018	(201)
Jot-Dec	N/A	N/A	N/A	N/A	N/A	2	11031

SOURCE: Uniform Crime Reporting System
NOTE: Figures in brackets represent offences/1,000 population

TABLE G3

# NON LIQUOR OFFENCES/QUARTER BEAUFORT SEA COMMUNITIES

	Aklavík	Inuvik	Sachs Harbour	Tuktoyaktuk/ Paulatuk	Coppermine/ Holman	Total
1975	3	;	30 g	-	1	
Jan-Mar	21	206	<b>47</b>	25	59	
Apr-June	86	211	9	38	16	
July-Sept	99	323	80	50	41	488 (86)
Oct-Dec	70	259	9	38	21	=
TOTAL	291	666	24	151	107	1572 (275)
1976	E					
Jan-Mar	52	184	7	41	28	
Apr-June	106	207	10	20	42	385 (65)
July-Sept	48	225	9	59	43	
Oct-Dec	37	189	9	tr	1/1	
TOTAL	243	805	29	164	157	1398 (236)
1077						20
Jan-Mar	53	195	2	102	56	387 (65)
Apr-June	32	213	=	53	43	
July-Sept	26	235	2	1207	24	
Oct-Dec	75	231	m	82	78	-
TOTAL	192	874	24	† դ է	234	1668 (280)
1978	Į	0.00		L	2	127 700
Jan-Mar	20	210	- (	000	0 1	200 (00)
Apr-June	2 8	7 00 00	n 40	42	0 5	654 (110)
Oct-Dec	63	287	0 0	86	7.9	517 (87)
TOTA1	268	84	18	276	259	2006 (338)

	Aklavik	Inuvik	Sachs	Tuktoyaktuk/ Paulatuk	Coppermine/ Holman	Total
25.6						
Jan-Mar	98	287	•	7.0	49	(20) (00)
The state of	C	1	,		5	100) 320
aune-idi	00	245	2	96	55	107 (82)
Tuly-Sept	155	272	c	70	0 (	131 (02)
John Dan	1	1 :	,	00	25	608 (101)
par-nar	M/A	N/A	N/A	N/A	N/A	N/A N/A
TOTAL	N/A	N/A	N/A	N / A	11/1	
			** ***	W Ju	NA	N/H N/E

SOURCE: Uniform Crime Reporting System NOTE: Figures in brackets represent offences/1,000 population

TABLE H

FINAL EMPLOYMENT STATUS OF NORTHERN EMPLOYEES - 1976 - 1979 DRILLING SEASONS

Final Employment Stutus		Number	of Employe	Number of Employees by Final Status	Status			
	1976		1977		1978	25	1979	
Resignations	2		99	(35%)	63	(34%)	57	(26%)
Laid Off (completed season)	35	(28%)	73	(368)	83	(#2#)	119	(55%)
Fired	~		35	(19%)	19	(10%)	25	(11%)
Casual	2		14	( 1%)	0	(%0)	18	( 88 )
Unknown	2		0	(%0)	16	(%6)	0	1
Other	C-		0	(\$0 )	ā	( 2%)	. 1	Ĭ
TOTAL	127		187	(100₹)	185	(100%)	219 #	(100%)

SOURCES: 1977 - Social/Economic/Cultural Report 1978 - Challenger Payroll - G. Norberg, Personal Communication

Employees of three companies not used in totals that were included in all other tables.

TABLE I

NUMBER OF EMPLOYEES BY LENGTH OF EMPLOYMENT 1976-1979

	1976		1977		1978		1979	2
	(June-Oc	October)	(May-No	May-November)				
< 1 week	19	(15%)	19	(10%)	7	(84)		
1 - 2 weeks	21	(17%)	7	(87)	80	(\$4)		
2 - 4 weeks	18	(14%)	34	(17%)	25	(14%)		
1 - 2 months	31	(24%)	41	(21%)	33	(18%)	N/A	
2 - 3 months	19	(15%)	25	(13%)	30	(16%)		
3 - 4 months	11	(\$6)	20	(10%)	23	(12\$)		
> 4 months	8	(\$9)	48	(25%)	56	(30%)		
Unknown	ı		1		co	(2\$)		
TOTAL	127	(100%)	194	(100%)	185	(100%)		

SOURCE: Collins, Mary

TABLE J

LIQUOR SALES TO COPPERMINE IN 1972/1973 CONSTANT DOLLARS

Quarter	1974/1975	1975/1976	1976/1977	1977/1978	1978/1979
April-June	5,214	4,577	3,837	5,120	5,379
July-September	4,848	4,799	3,569	4,135	7,107
October-December	6,451	2,009	3,968	4,827	
January-March	2,902	2,790	4,917	4,423	
TOTALS	19,415	14,175	16,291	18,527	12,486
Per Capita		19	21	24	****

The above formula was used to determine constant dollars for Coppermine since October 1978. This method was used because Sales by Type of liquor sold to Coppermine are not available.

SOURCE: A & A Distributing Limited.