

LEGISLATIVE ASSEMBLY OF THE
NORTHWEST TERRITORIES

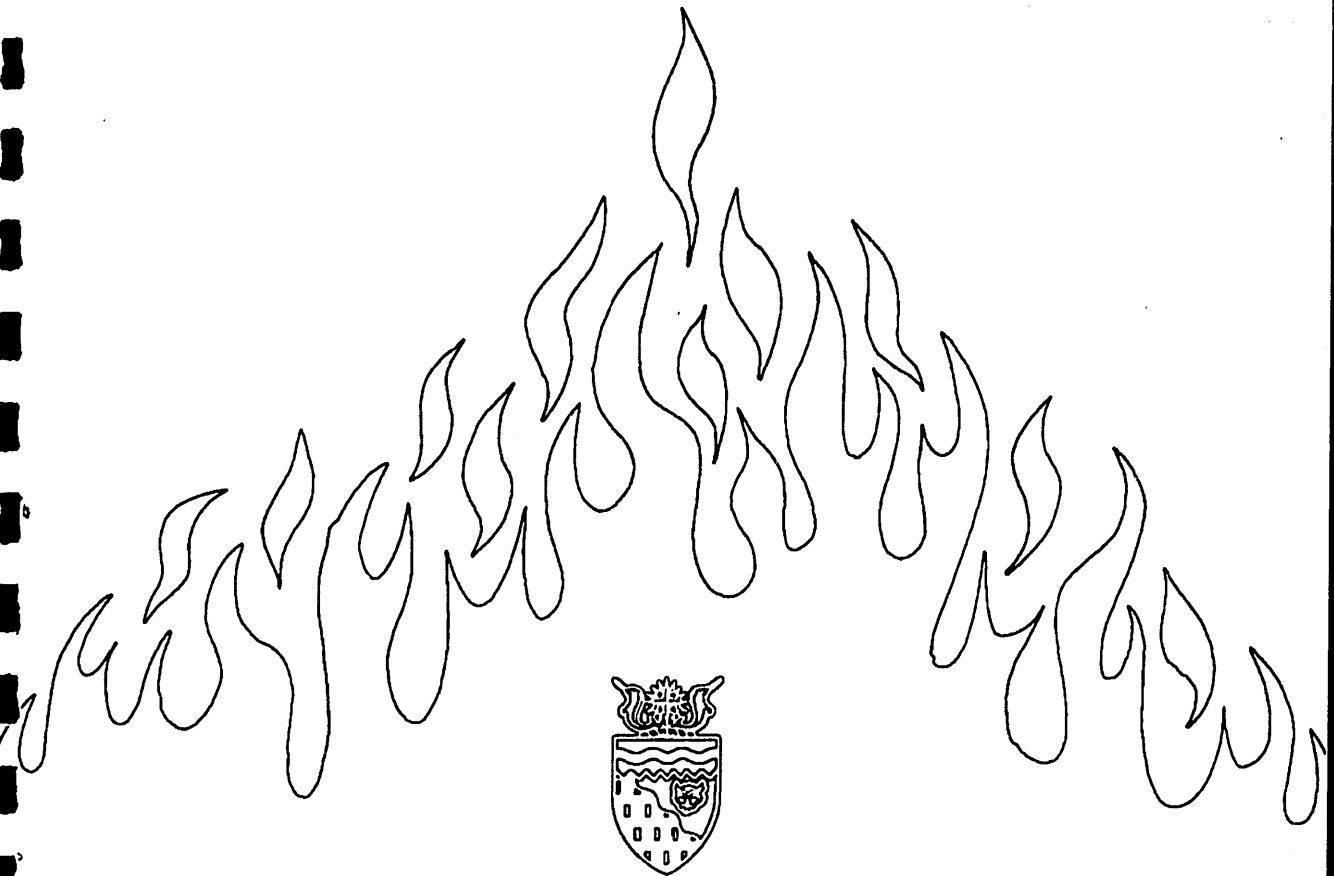
8TH ASSEMBLY, 62ND SESSION

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FIRE LOSSES IN THE NORTHWEST TERRITORIES 1976



Safety Division - Department of Public Services

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ANNUAL REPORT OF THE
CHIEF OF THE SAFETY DIVISION
FIRE, SAFETY, ELECTRICAL, MECHANICAL

The Division is divided into sections in order to maintain proper jurisdictional power under the various ordinances administered. There are many overlapping areas of responsibility, therefore, the inspectors must be aware of the requirements of all ordinances even though their main responsibility may be in administering one particular ordinance. This allows for maximum flexibility and optimum use of money and manpower.

The Division maintains a very close liaison with community groups in co-operating with and assisting them in sponsoring safety programs within their community.

I regret that I have to include in the report, that thirteen deaths and six injuries occurred as a result of fires.

The investigations continue to reveal that the consumption of alcohol coupled with smoking is directly or indirectly continuing to be the major factor related to this loss of life.

The incidents of fires reported to us are down considerably from the previous five years.

The inflationary factors in computing fire losses are significant. Five years ago, a three or four bedroom house destroyed by fire would be a recorded loss of \$25,000 to \$35,000. In 1976, that

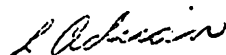
same loss would be recorded at \$45,000 to \$70,000.

It is encouraging to note that fire incidents and losses are lower in 1976 even though there were numerous new buildings constructed in the Northwest Territories valued at more than \$40,000,000.

Public education in many areas of safety is continuing. This includes programs in mechanical, electrical, fire, home, industrial and public safety.

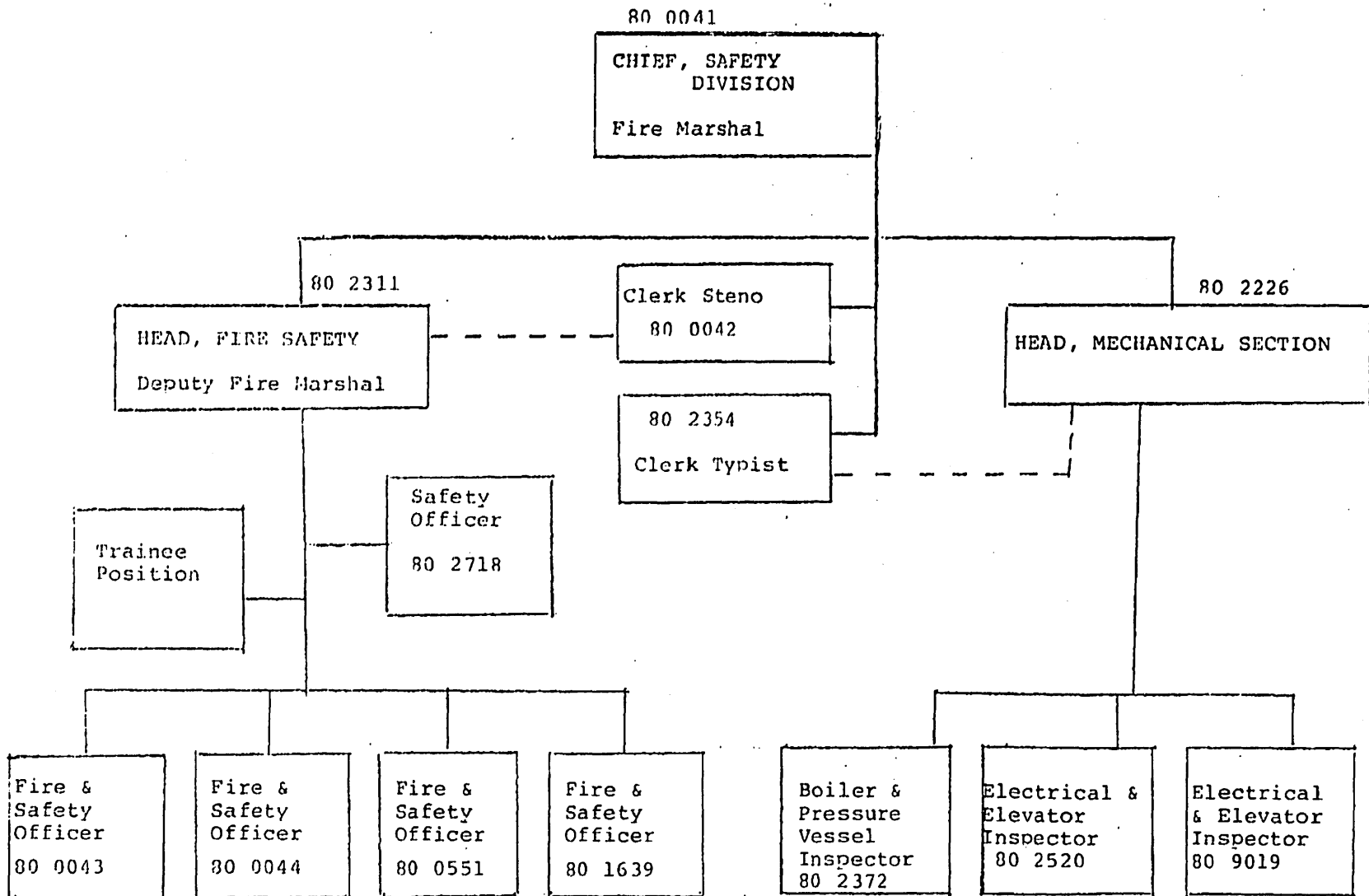
There are 50 community fire brigades with more than 500 registered volunteers. We would like to pay tribute to all the volunteers who give so sacrificially of their time to provide a safer living environment for their family, friends and neighbours. A list of the Fire Chiefs is included elsewhere in this report.

This report contains five year comparative statistics of the Fire, Safety, Mechanical and Electrical Safety Programs.



L. Adrian,
Chief, Safety Division,
and
Fire Marshal, N.W.T.

SAFETY DIVISION ORGANIZATION CHART



The Fire Marshal for the N.W.T. is also Chief of the Safety Division which enforces and administers all Fire and Safety Ordinances, including inspections and investigations, the Fire Prevention Ordinance which sets and regulates standards required for fire prevention safety; the Petroleum Products Ordinance which regulates the handling of bulk oil and gas; the Boilers and Pressure Vessels Ordinance which regulates the installation and operation of high pressure welding; and the Electrical Protection Ordinance which sets electrical safety standards; the Safety Ordinance which sets the standards for a safe working environment. The function also includes the enforcement of general safety practices including the inspection and regulation of equipment such as oil, gas and propane installations and elevators. Public education is a necessary element in the administration of this program.

SECTION I

FIRE CHIEFS

FIRE CHIEFS

Aklavik	Danny Gordon
Arctic Bay	Tommy Tatatuapik
Arctic Red River	Bob Mac Nab
Baker Lake	David Qwingayak
Broughton Island	Mark Audlakiak
Cambridge Bay	Terry Bangle
Cape Dorset	Echalock Farr
Chesterfield Inlet	Jimmy Issaluk
Clyde River	Philip Pancaik
Coppermine	Colin Adjun
Coral Harbour	John Ningeongan
Edzo	Wes Hansen
Eskimo Point	Johnny Ishalook
Fort Franklin	Ed Wasserman
Frobisher Bay	Ted Ostaffy
Gjoa Haven	Leo Qwingayak
Fort Good Hope	Alfred Masuzumi
Grise Fiord	O. Qureaq
Hall Beach	Saul Gibbons
Hay River	Al Gagnon
Holman Island	Noah Akhiatak
Igloolik	P. Keasak

FIRE CHIEFS

Inuvik	Bob Galloway
Lake Harbour	B. Joanasic
Liard	Charlie Hope
Fort McPherson	John Itsi
Fort Norman	J. Neyelle
Norman Wells	Bill Ponzini
Pangnirtung	M. Quappik
Paulatuk	Dave Ruben
Pelly Bay	Raymond Kayasark
Pine Point	Mel Logan
Pond Inlet	A. Maktar
Port Burwell	
Fort Providence	Francis Jenkins
Rae	Tim Jewett
Rankin Inlet	Paul Tatty
Repulse Bay	J. Anawak
Resolute Bay	A. Tagok
Fort Resolution	Louie Lafferty
Sachs Harbour	Sam Lennie
Sanikiluaq	Johnny Meeke
Fort Simpson	Gerry McGowan
Fort Smith	Dave Dragon

FIRE CHIEFS

Spence Bay	Steve Alookie
Strathcona Sound	Ted Okroneg
Tuktoyaktuk	Dave Anderson
Tungsten	G. Conners
White Cove	G. Fredland
Wrigley	G. Dimsdale
Yellowknife	Bob Oscroft

Pine Point Mine	Dave Calder
Giant - Yellowknife Mine	Ed Castillo
Imperial Oil - Norman Wells	Bill Wilson
Transport Canada - Inuvik	Cliff Jones

Norman Wells

Yellowknife D. Knight

Hay River

Fort Smith Archie Bevington

SECTION II

FIRE LOSSES

FIRE LOSSES

Five year comparison for each settlement. The names of the settlements that do not appear have not reported a fire.

We are currently in our fifth year of a computer print-out which provides us with much more relevant data such as time of the fire, day of the week, month, etc. A very interesting statistic has been researched. The information obtained was applied to our public hazard awareness program.

Many of our fires start between the hours of 12:00 noon to 2:00 p.m. and 3:30 to 6:00 p.m. Many of the fires started during that time were caused by children playing with matches. The basic reason is unsupervised children.

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Aklovik	1972	6	8,000.00	12,540.00	20,540.00
	1973	3	-	18,500.00	18,500.00
	1974	3	55,000.00	2,000.00	57,000.00
	1975	2	-	25,300.00	25,300.00
	1976	2	22,700.00	11,000.00	33,700.00
Arctic Bay	1972	-	-	-	-
	1973	-	-	-	-
	1974	2	-	50.00	50.00
	1975	1	-	7,400.00	7,400.00
	1976	1	30,000.00	12,000.00	42,000.00
Arctic Red River	1972	-	-	-	-
	1973	1	-	2,000.00	2,000.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
Baker Lake	1972	6	550.00	2,150.00	2,700.00
	1973	1	-	20,000.00	20,000.00
	1974	2	-	-	-
	1975	3	50,000.00	90,000.00	140,000.00
	1976	1	-	1,000.00	1,000.00
Broughton Island	1972	1	-	-	-
	1973	2	-	-	-
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Cambridge Bay	1972	7	-	14,657.00	14,657.00
	1973	7	707,000.00	377,050.00	1,084,050.00
	1974	1	-	150,000.00	150,000.00
	1975	7	1,200.00	25,250.00	26,450.00
	1976	3	-	16,350.00	16,350.00
Cape Dorset	1972	-	-	-	-
	1973	1	-	50.00	50.00
	1974	1	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
Chesterfield Inlet	1972	-	-	-	-
	1973	-	-	-	-
	1974	1	-	35,400.00	35,400.00
	1975	1	-	100.00	100.00
	1976	-	-	-	-
Clyde River	1972	-	-	-	-
	1973	1	-	13,000.00	13,000.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
Coppermine	1972	2	10,100.00	4,000.00	14,100.00
	1973	3	-	31,000.00	31,000.00
	1974	1	-	35,000.00	35,000.00
	1975	-	-	-	-
	1976	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Coral Harbour	1972	5	-	30,480.00	30,480.00
	1973	2	-	150.00	150.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
Edzo	1972	2	400.00	-	400.00
	1973	-	-	-	-
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
Enterprise	1972	1	-	1,000.00	1,000.00
	1973	-	-	-	-
	1974	1	500.00	-	500.00
	1975	-	-	-	-
	1976	-	-	-	-
Eskimo Point	1972	2	-	5,080.00	5,080.00
	1973	-	-	-	-
	1974	-	-	-	-
	1975	2	-	70,000.00	70,000.00
	1976	-	-	-	-
Fort Franklin	1972	-	-	-	-
	1973	-	-	-	-
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Frobisher Bay	1972	37	170,000.00	81,466.00	251,466.00
	1973	36	108,000.00	16,082.00	124,082.00
	1974	50	-	164,688.00	164,688.00
	1975	39	-	29,060.00	29,060.00
	1976	19	-	38,855.00	38,855.00
Gjoa Haven	1972	-	-	-	-
	1973	1	-	1,005.00	1,005.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	1	35,815.00	-	35,815.00
Fort Good Hope	1972	1	-	800.00	800.00
	1973	2	-	450.00	450.00
	1974	1	-	6,000.00	6,000.00
	1975	1	-	13,600.00	13,600.00
	1976	2	-	250.00	250.00
Hall Beach	1972	1	-	-	-
	1973	1	-	24,000.00	24,000.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
Hay River	1972	57	294,485.00	73,865.00	368,350.00
	1973	62	33,757.00	58,370.00	92,127.00
	1974	34	24,000.00	82,775.00	114,475.00
	1975	23	8,500.00	23,360.00	31,860.00
	1976	21	568,600.00	20,235.00	588,835.00

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Igloolik	1972	4	60,777.00	100.00	60,877.00
	1973	-	-	-	-
	1974	-	-	-	-
	1975	1	-	100,000.00	100,000.00
	1976	-	-	-	-
Holman	1972	-	-	-	-
	1973	-	-	-	-
	1974	-	-	-	-
	1975	-	-	-	-
	1976	1	-	100.00	100.00
Inuvik	1972	44	52,925.00	61,000.00	113,925.00
	1973	24	374,928.00	55,480.00	430,408.00
	1974	49	84,475.00	133,555.00	218,030.00
	1975	31	352,050.00	38,675.00	390,725.00
	1976	19	231,570.00	26,275.00	257,845.00
Lake Harbour	1972	-	-	-	-
	1973	-	-	-	-
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
Lac LaMartre	1972	-	-	-	-
	1973	-	-	-	-
	1974	-	-	-	-
	1975	-	-	-	-
	1976	1	-	500.00	500.00

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRMS</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Fort Linn	1972	-	-	-	-
	1973	-	-	-	-
	1974	4	1,100.00	1,030.00	2,130.00
	1975	2	-	7,900.00	7,900.00
	1976	2	15,000.00	500.00	15,500.00
Fort McPherson	1972	3	-	12,250.00	12,250.00
	1973	3	-	1,570.00	1,570.00
	1974	4	-	44,000.00	44,000.00
	1975	3	-	3,175.00	3,175.00
	1976	5	-	68,040.00	68,040.00
Norman Wells	1972	1	5,000.00	1,200.00	6,200.00
	1973	2	-	1,200.00	1,200.00
	1974	2	12,000.00	18,500.00	30,500.00
	1975	2	30,000.00	38,075.00	68,075.00
	1976	4	1,500.00	19,500.00	21,000.00
Fort Norman	1972	2	-	9,000.00	9,000.00
	1973	5	-	6,850.00	6,850.00
	1974	2	-	75.00	75.00
	1975	3	-	1,850.00	1,850.00
	1976	-	-	-	-
Pangnirtung	1972	1	-	-	-
	1973	-	-	-	-
	1974	4	100.00	35,800.00	35,900.00
	1975	-	-	-	-
	1976	4	-	480.00	480.00

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Pelly Bay	1972	-	-	-	-
	1973	-	-	-	-
	1974	2	-	35,200.00	35,200.00
	1975	1	-	9,000.00	9,000.00
	1976	2	-	50,100.00	50,100.00
Paulatuk	1972	-	-	-	-
	1973	-	-	-	-
	1974	-	-	-	-
	1975	1	-	800.00	800.00
	1976	-	-	-	-
Pine Point	1972	9	68,750.00	50.00	68,800.00
	1973	13	5,050.00	150.00	5,200.00
	1974	16	965.00	6,994.00	7,959.00
	1975	9	51,460.00	200.00	51,660.00
	1976	11	14,680.00	5,150.00	19,830.00
Pond Inlet	1972	-	-	-	-
	1973	1	-	1,350.00	1,350.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	1	-	67,000.00	67,000.00
Fort Providence	1972	-	-	-	-
	1973	1	-	400.00	400.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	1	-	31,000.00	31,000.00

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Rae	1972	2	-	100.00	100.00
	1973	4	-	37,595.00	37,595.00
	1974	3	300.00	-	300.00
	1975	4	-	12,105.00	12,105.00
	1976	3	-	6,100.00	6,100.00
Rankin Inlet	1972	1	-	-	-
	1973	2	1,000.00	100.00	1,100.00
	1974	4	-	13,750.00	13,750.00
	1975	4	7,000.00	275,000.00	282,000.00
	1976	-	-	-	-
Resolute Bay	1972	3	72,500.00	40,000.00	112,500.00
	1973	2	22,500.00	5,500.00	28,000.00
	1974	1	-	15,000.00	15,000.00
	1975	1	-	27,000.00	27,000.00
	1976	1	-	14,000.00	14,000.00
Ft. Resolution	1972	-	-	-	-
	1973	1	-	13,000.00	13,000.00
	1974	2	-	-	-
	1975	-	-	-	-
	1976	8	31,050.00	71,770.00	102,820.00
Sachs Harbour	1972	1	-	1,200.00	1,200.00
	1973	-	-	-	-
	1974	2	-	1,550.00	1,550.00
	1975	-	-	-	-
	1976	1	300.00	-	300.00

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Sanikiluaq	1972	1	-	14,000.00	14,000.00
	1973	-	-	-	-
	1974	-	-	-	-
	1975	1	-	45,000.00	45,000.00
	1976	-	-	-	-
Fort Simpson	1972	10	2,200.00	13,450.00	15,650.00
	1973	18	50,875.00	51,900.00	106,775.00
	1974	27	29,487.00	23,450.00	68,934.00
	1975	9	20,800.00	107,250.00	128,050.00
	1976	8	18,250.00	53,525.00	71,775.00
Fort Smith	1972	7	-	60,650.00	60,650.00
	1973	6	10.00	23,800.00	23,810.00
	1974	12	12,175.00	516,600.00	528,775.00
	1975	7	31,000.00	4,325.00	35,325.00
	1976	2	-	1,600.00	1,600.00
Snowdrift	1972	-	-	-	-
	1973	1	-	19,000.00	19,000.00
	1974	1	-	5,500.00	5,500.00
	1975	-	-	-	-
	1976	1	-	2,300.00	2,300.00
Spence Bay	1972	-	-	-	-
	1973	-	-	-	-
	1974	2	25,360.00	37,000.00	62,360.00
	1975	-	-	-	-
	1976	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Trout Lake	1972	-	-	-	-
	1973	1	-	6,000.00	6,000.00
	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
Tuktoyaktuk	1972	1	-	500.00	500.00
	1973	2	-	3,610.00	3,610.00
	1974	5	750,000.00	37,150.00	787,150.00
	1975	-	-	-	-
	1976	2	-	12,500.00	12,500.00
Unsettled	1972	3	-	22,500.00	22,500.00
	1973	14	372,868.00	26,550.00	399,418.00
	1974	7	439,862.00	20,500.00	460,362.00
	1975	20	535,300.00	95,000.00	630,300.00
	1976	12	164,000.00	70,860.00	334,860.00
Whale Cove	1972	1	-	60.00	60.00
	1973	-	-	-	-
	1974	-	-	-	-
	1975	1	-	45,000.00	45,000.00
	1976	1	-	30.00	30.00
Wrigley	1972	-	-	-	-
	1973	-	-	-	-
	1974	1	-	1,000.00	1,000.00
	1975	-	-	-	-
	1976	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Yellowknife	1972	137	83,139.00	14,545.00	98,784.00
	1973	194	178,278.00	64,895.00	239,173.00
	1974	140	59,455.00	12,810.00	72,265.00
	1975	68	122,918.00	48,711.00	171,629.00
	1976	46	310,900.00	41,115.00	352,015.00
<u>TOTALS</u>	1972	356	828,826.00	491,738.00	1,320,564.00
	1973	517	1,850,266.00	884,607.00	2,734,873.00
	1974	377	2,877,719.00	1,324,727.00	4,202,456.00
	1975	246	1,098,661.00	1,098,661.00	2,308,889.00
	1976	185	1,444,365.00	738,135.00	2,182,500.00
<u>PER CAPITA LOSS</u>	1972	\$ 37.73			
	1973	71.18			
	1974	113.58			
	1975	62.40			
	1976	57.43			

SECTION III

CAUSES OF FIRES

Listing as to cause of fires:

1. Heating

1 Stoves, Furnaces and Boilers

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	70	433,417.00
1973	60	400,267.00
1974	55	227,712.00
1975	38	673,625.00
1976	8	48,550.00

a. Solid Fuel

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	4	4,500.00
1973	7	49,250.00
1974	4	14,000.00
1975	5	13,980.00
1976	5	33,450.00

b. Oil Fired

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	59	398,252.00
1973	41	305,815.00
1974	45	113,112.00
1975	27	241,435.00
1976	7	18,200.00

c. Gas Fired

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	7	40,665.00
1973	12	45,202.00
1974	6	90,600.00
1975	5	418,210.00
1976	4	100,330.00

11 Defective and Overheated Chimneys and Flues

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	7	10,600.00
1973	5	2,350.00
1974	6	11,246.00
1975	4	175,550.00
1976	5	3,700.00

111 Hot Ashes, Coals, Open Fires

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	85	194,695.00
1973	19	1,017,210.00
1974	13	51,465.00
1975	13	40,850.00
1976	4	2,515.00

2. Electrical Wiring and Appliances

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	52	187,550.00
1973	24	294,170.00
1974	59	1,138,733.00
1975	40	177,765.00
1976	32	222,350.00

3. Smoking

1 Matches

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	26	39,308.00
1973	32	141,285.00
1974	60	34,490.00
1975	27	99,695.00
1976	19	200,530.00

11 Smokers' Carelessness

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	46	42,852.00
1973	39	219,607.00
1974	55	274,715.00
1975	40	210,388.00
1976	22	271,650.00

4. Petroleum and Its Products

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	17	20,530.00
1973	11	12,080.00
1974	20	1,584,200.00
1975	21	46,625.00
1976	19	211,390.00

5. Exposure

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	1	11,000.00
1973	9	14,390.00
1974	5	1,150.00
1975	6	75,300.00
1976	1	21,000.00

6. Incendiarism

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	5	2,337.00
1973	10	48,858.00
1974	10	46,500.00
1975	3	2,400.00
1976	7	37,370.00

7. Miscellaneous

1 Lightning

<u>Year</u>	<u>No. of Fires</u>	<u>\$ LOSS</u>
1972	-	-
1973	-	-
1974	-	-
1975	-	-
1976	-	-

11 Lights, Other than Electrical

<u>Year</u>	<u>No. of Fires</u>	<u>\$ LOSS</u>
1972	-	-
1973	-	-
1974	-	-
1975	1	300.00
1976	1	500.00

111 Sparks on Roofs

<u>Year</u>	<u>No. of Fires</u>	<u>\$ LOSS</u>
1972	-	-
1973	3	1,000.00
1974	-	-
1975	-	-
1976		

IV Spontaneous Ignition

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	5	5,580.00
1973	1	-
1974	2	5,590.00
1975	-	-
1976	4	35,850.00

V Miscellaneous

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	23	319,950.00
1973	34	96,063.00
1974	19	28,494.00
1975	29	475,516.00
1976	17	153,910.00

8. Unknown

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	19	42,477.00
1973	24	487,593.00
1974	72	298,150.00
1975	23	330,875.00
1976	20	337,390.00

SECTION IV

OCCUPANCY GROUP CLASSIFICATION

1 Residential Properties

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	356 (Includes Call-Outs)	386,007.00
1973	517 " "	1,216,418.00
1974	203	1,134,906.00
1975	139	896,279.00
1976	93	610,020.00

2 Institutional Buildings

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	4	700.00
1973	3	4,070.00
1974	5	150,000.00
1975	2	350.00
1976	4	502,520.00

3 Assembly Buildings

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	25	40,482.00
1973	9	817,555.00
1974	23	584,160.00
1975	3	5,575.00
1976	6	73,350.00

4 Farm Properties

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	-	-
1973	-	-
1974	-	-
1975	-	-
1976	-	-

5 Manufacturing Properties

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	-	-
1973	3	76,368.00
1974	3	500,000.00
1975	5	7,800.00
1976	8	65,050.00

6 Mercantile Properties

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	46	811,320.00
1973	45	569,819.00
1974	74	1,795,682.00
1975	48	1,039,185.00
1976	51	915,460.00

7 Miscellaneous Properties

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1972	107	82,055.00
1973	65	50,643.00
1974	69	37,697.00
1975	48	359,700.00
1976	23	16,100.00

SECTION V

LARGE LOSS FIRES

Over \$50,000

1972

<u>DATE</u>	<u>LOCATION</u>	<u>OCCUPANCY</u>	<u>CAUSE</u>	<u>\$ LOSS</u>
Jan. 18	Inuvik	Workshop	Welder	50,000
May 17	Igloolik	Bunkhouse	Oil Heater	60,000
May 21	Hay River	Fuel Barge	Engine	250,000
July 3	Frobisher	Freight Shed	Oil Heater	170,000
Oct. 14	Resolute Bay	Workshop	Welding	72,000

1973

Jan. 15	Cambridge Bay	Apartment Block	Candle	360,000
Mar. 14	Cambridge Bay	School	Heater	707,000
Mar. 22	Inuvik	Apartment Block	Unknown	278,539
Aug. 23	Frobisher	Legion Hall	Match	108,000
Sept. 9	Terra Mine	Mine Building	Unknown	50,000
Nov. 18	Yellowknife	Hangar	Smoking	75,000
Nov. 23	Unsettled	Garage	Electrical	255,000
Dec. 12	Yellowknife	Shop/Dwelling	Heater	50,000
Dec. 13	Fort Simpson	Motel	Smoking	85,000
Dec. 18	Inuvik	Warehouse	Heater	52,000

1974

Jan. 27	Yellowknife	Semi-Trailer	Propane Heater	50,000
Mar. 20	Inuvik	Warehouse	Unknown	85,000
Apr. 7	Aklavik	Church	Oil Furnace	55,000
Aug. 15	Unsettled	Helicopter	Fuel Spill	750,000

1974

<u>DATE</u>	<u>LOCATION</u>	<u>OCCUPANCY</u>	<u>CAUSE</u>	<u>\$ LOSS</u>
Sept. 20	Tuktoyaktuk	Helicopter	Fuel Spill	750,000
Oct. 4	Cambridge Bay	Pupils Res.	Cigarette	150,000
Oct. 5	Fort Smith	Pupils Res.	Electrical	500,000
Nov. 8	Terra Mine	Mine Generator	Electrical	500,000

1975

Jan. 4	Inuvik	Garage	Welder	250,000
Jan. 11	Mackenzie Hwy.	Semi-Trailer	Propane Leak	50,000
Feb. 19	Norman Wells	Motel	Gas Furnace	68,000
Mar. 3	Inuvik	Office	Electrical	50,000
June 19	Yellowknife	Motel	Cigarette	58,918
July 28	Banks Island	Oil Camp	Propane Furnace	300,000
Aug. 8	Garry Island	Fuel Tanker	Unknown	80,000
Aug. 8	Rankin	Warehouse	Exposure	60,000
Aug. 8	Rankin	Power House	Chimney	175,000
Sept. 17	Baker Lake	Lodge	Propane Leak	125,000
Sept. 19	Fort Simpson	Shop/Office	Unknown	93,000
Nov. 11	Igloolik	DC-3	Portable Heater	100,000

1976

Feb. 15	Echo Bay	Garage	Unknown	75,000
Feb. 21	Hay River	R.C.M. Police	Welder	500,000
Mar. 27	Ft. Resolution	Dwelling	Unknown	70,000
Apr. 13	Yellowknife	Garage	Welder	150,000

1976

<u>DATE</u>	<u>LOCATION</u>	<u>OCCUPANCY</u>	<u>CAUSE</u>	<u>\$ LOSS</u>
Apr. 18	Inuvik	Helicopter	Fuel Spill	200,000
May 15	Pelly Bay	Church	Matches	50,000
Aug. 4	Eureka	Weather Stn.	Gas Explosion	100,000
Nov. 26	Pond Inlet	Dwelling	Cigarette	67,000
Nov. 17	Yellowknife	Garage	Unknown	109,500

SECTION VI

FIRE DEATHS AND INJURIES

DEATHS

<u>Year</u>	<u>Men</u>	<u>Women</u>	<u>Children</u>	<u>Total</u>
1972	5	1	7	7
1973	4	1	2	7
1974	6	2	-	8
1975	6	-	2	8
1976	4	6	3	13

INJURIES

<u>Year</u>	<u>Men</u>	<u>Women</u>	<u>Children</u>	<u>Total</u>
1972	14	2	4	20
1973	5	4	3	12
1974	25	3	1	29
1975	12	2	2	16
1976	4	2	-	6

SECTION VII
ARSON INVESTIGATION
AND ALLIED CRIMES

Arson Investigation & Allied Crimes

<u>Year</u>	No. of <u>Investigations</u>	No. of <u>Prosecutions</u>	No. of <u>Convictions</u>
1972	5	1	-
1973	17	-	-
1974	21	2	1
1975	14	1	1
1976	8	-	-

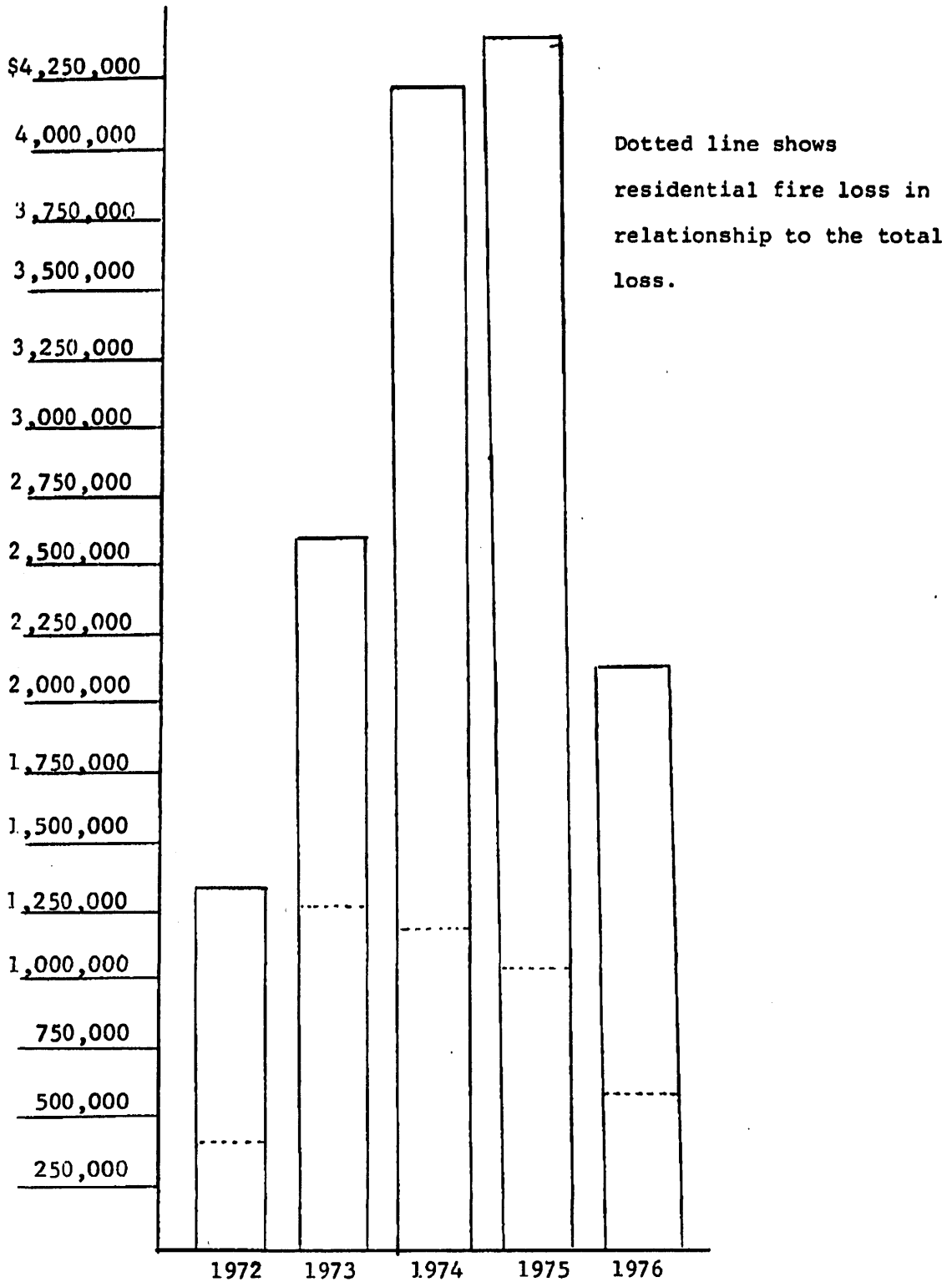
SECTION VIII

INSPECTIONS

Inspections

Fire Safety

1972	1,800
1973	3,300
1974	3,800
1975	
1976	1,831



SECTION IX

PLAN REVIEW

The Fire Marshal is responsible for reviewing plans and specifications for the construction, alterations or repair of structures with a view to determining that proper precautions are taken against fire and the spread of fire.

One hundred and ninety (190) plans were reviewed.. Low cost and staff accommodation were registered as one plan even though more than 150 were erected.

Numerous meetings were held with architects, engineers, town planners, developers and contractors. These meetings accomplish two things: (1) They educate the people who are responsible for the design and construction of the building to conform to established codes of the Northwest Territories. (2) They help us to search out and regulate on new materials on the market.

Fire protection and safety features must be engineered and designed into the building.

SECTION X

TRAINING PROGRAMS

Fire Departments

In December, a training seminar was held for two days in Yellowknife. This seminar was conducted by the Fire Marshals' office. Fifteen delegates attended from the various fire departments within the N.W.T. One representative from the Dominion Fire Commissioners' office attended.

Public Training - First Aid

Frobisher Bay	62
Gjoa Haven	150
Hay River	250
Fort Smith	64
Yellowknife	2640

In addition, training courses were held in the following centres with listed departments attending.

<u>Location</u>	<u>Departments</u>	<u>No. of Delegates</u>
Frobisher Bay	Frobisher Bay	12
Pelly Bay		10
Spence Bay		12
Rankin Inlet		12
Chesterfield Inlet		12
Baker Lake		12
Fort Smith	Rae Lakes	2
	Snowdrift	
	Hay River Reserve	2
	Rae/Edzo	2
	Lac LaMarte	2
Coppermine		12
Coral Harbour		12
Norman Wells		4
Holman Island		9
Tuktoyaktuk	Tuktoyaktuk	6
Inuvik	Inuvik	15
Yellowknife		93
Fort Smith	Fort Smith	18

Public Training

Over 700 school children were taught the use of portable fire extinguishers and SAVE-A-LIFE first aid. The courses were conducted in the following locations:

Frobisher Bay	250
Fort Smith	112
Liard	45
Spence Bay	150
Yellowknife	265

SECTION XI

FILM LIBRARY

The Division has a very good start on a film library. The constant use of the films reflects the need to increase the size. In 1976 the films were used extensively for training and public viewing.

Fire Training Films

<u>Fire Films</u>	<u>Times Shown</u>	<u>Persons Viewing</u>
Ground Ladders	7	145
Lucy Becomes a Volunteer Fireman (2)	5	450
Handling LP Gas Emergencies	6	178
Fire In Town	4	582
Fighting Tank Fires	8	598
Ventilation	8	298
Instant Arson	4	97
Holding Hands (2)	3	517
Know Your Fire Hazards	5	611
Nature of Fire (2)	17	1640
Portable Fire Extinguishers	10	761
Your Clothing Can Burn	4	526
Condemmed	5	531
Why	4	353
Combat	6	117
Basic Rescue (Set of 10)	8	374
Hot Stuff	4	751
Hot Cords Can Burn	3	363

<u>Fire Films</u>	<u>Times Shown</u>	<u>Persons Viewing</u>
Fire - Not in My House	5	2523
Fire - Two Ways Out	5	589
Fire - Sound The Alarm	2	318
Are We Fire Safe	4	370
Are You Safe at Home	4	348
Fire in My Kitchen (2)	9	3012
Have A Wonderful Evening (2)	6	3092
A.B.C. and D's of Portable Fire Ext.	7	212
Know Your Extinguishers (2)	10	639
Self-Contained Breathing Apparatus	10	616
Another Man's Family (3)	15	3885
They Called It Fire Proof	4	430
The Price of Fire	3	374
The Nozzleman	9	490
The Science of Fire	6	428
Using Water Wisely	9	568
Your Job	5	387
Portable Fire Extinguishers	10	848
Help Prevent Fires	3	71
High-Rise Building Fires	10	307
RX For Fire	5	367
High-Rise Building Problems	8	434

<u>Fire Films</u>	<u>Times Shown</u>	<u>Persons Viewing</u>
Liquids Can Burn	10	2523
Code 3	10	450
Fire Fighting Strategy	12	676
Today's Firefighter	10	4545
Tall Dilemma	13	458
Hospital Fire	1	123
Co-ordinated Fire Attack	9	518
Where's the Water	7	840
The Fire Finders	8	3091
Our Obligation	12	1301
Ansul 350 LB. Unit	8	1010
Its Time To Fight The Fire	4	2249
Bleve (3)	10	341
Flammable Liquid Fire Safety	6	278
Prevent Cutting & Welding Fires	5	90
<u>TOTAL</u>	<u>383</u>	<u>47,693</u>

Fire Training Slides

<u>Fire Slides</u>	<u>Times Shown</u>	<u>Persons Viewing</u>
Unloading & Advancing Hose (2)	4	88
Basic Hose Loads	4	98
Forward Hose Lays (2)	4	94

<u>Fire Slides</u>	<u>Times Shown</u>	<u>Persons Viewing</u>
Reverse Hose Lays (2)	5	112
Extend & Reduce Hose Lines	1	10
Hand Portables-Inspection & Main.	2	34
Hand Portables-Use	2	34
Wheeled Units - Operation & Recharge	1	16
Wheeled Units - Inspection & Main.	1	16
Scott Air Pak - Inspection & Test	4	100
Scott Air Pak - Use	4	100
Ladders	3	56
Pumpers	3	51
Fire Safety - What's That	2	290
Common Forcible Entry Tools (2)	4	64
Loading Rack Fires	1	20
Salvage & Overhaul	3	68
Time	1	22
Ventilation	5	137
Safety At The Fire	2	45
Tool or Weapon	1	20
Physical Condition	1	20
Safe Driving	2	51
<u>TOTAL</u>	<u>61</u>	<u>1546</u>

<u>Safety Films</u>	<u>Times Shown</u>	<u>Persons Viewing</u>
Falls Can Cripple	1	21
The Unplanned (2)	7	2307
Play Safe (3)	7	1307
Poisons	1	311
Help Is	7	361
How to Have A Accident in the Home	9	2788
Safe Bicycling	2	671
Snowmobile Safety	3	302
Read The Label and Live	3	155
Don't Take Chances	5	181
It Didn't Have To Happen	3	241
Bomb Threat	5	415
Pulse of Life	8	194
Respiratory System	5	286
Circulatory System	7	307
Nervous System	3	201
Muscular System	4	217
Skeleton	6	258
Just Once	3	84
Charlie's Day	2	280
Its Your Accident	5	1120
Though The Earth Be Moved	2	150
Face of Disaster	1	131

<u>Safety Films</u>	<u>Times Shown</u>	<u>Persons Viewing</u>
Nuclear Weapons	1	25
11 Steps to Survival	1	12
All About Fallout	2	165
Time To Live	1	11
Emergency Childbirth	8	479
Hot Water Tank Explosions	2	412
<u>TOTAL</u>	<u>114</u>	<u>13,392</u>
 <u>Safety Slides</u>		
School Safety	1	61
Traffic Safety	1	68
Transit Safety	1	84
Home Safety	1	60
Shop Safety (Set of 5)	6	98
Think Safety	1	8
Keep Clear	1	11
Supervising	1	10
Hand Tools	1	9
<u>TOTAL</u>	<u>14</u>	<u>409</u>

MECHANICAL SECTION SAFETY DIVISION
DEPARTMENT OF PUBLIC SERVICES

General:

This section experienced a considerable growth in work load in all areas of responsibility over the previous year. 567 more electrical permits were issued, 280 more boilers and pressure vessels were registered and 6 new elevators were licensed. Total revenue for the year was \$74,083.50, an increase of \$7,400.00

There was a slight decrease in the number of inspections. This was due to shortage of inspection staff and more time was spent in the smaller settlements. There was a greater emphasis on training people in the safe operation of boilers and the installation of electrical wiring.

Boilers and Pressure Vessels:

2392 boilers and pressure vessels were registered in the 76-77 year.

There was no loss of life due to boilers or pressure vessels. Some damage was caused by combustion explosions but not severe enough to condemn the boilers. Two boilers were destroyed due to over heating. One was caused by a short in the safety circuit the other by the boiler filling up with sediment. Eight boilers were required to be retubed due to pitting and corrosion. Other accidents were avoided by having safety valves and safety devices replaced.

Pressure welder qualification decreased due to lack of staff and equipment. This program will receive more attention in the new year.

13 candidates sat for Power Engineers examinations from 5th to 1st class. Certificates issued to those who successfully passed the exam and transferring from another Province were as follows.

- 4 - 2nd Class
- 5 - 3rd Class
- 7 - 4th Class
- 1 - 5th Class

Through manpower and the Apprenticeship Program section of Economic Development an apprenticeship program has been established for Power (Operating) Engineers. This program makes it possible for northern residents to obtain certification up to 1st Class power engineers level.

The Regulations under the Boiler and Pressure Vessel Ordinance are being revised to bring the horsepower classification of plants in line with modern technology. The fee schedule is also being revised.

Elevators:

A start has been made on drafting a new Elevator Ordinance and Regulations. There are 36 elevators in use in the N.W.T., 27 passenger, 2 freight, 2 belt lifts and 5 dumb waiters. Safety inspections are done annually. Cables were requested to be replaced on two passenger elevators. Oil seeping into the elevator pit of one building was one hazard corrected. The oil was coming from a leaking underground tank from the building next door. Generally the elevators are being well maintained.

Electrical:

1417 electrical permits were issued in the 76 - 77 year. At year end there were 796 open permits. More time was spent in smaller communities inspecting and assisting local wiremen. Most of the electrical inspection is on new construction. Occasionally inspections are requested by fire departments. Lack of staff does not permit the inspection of older buildings. This, hopefully, may be done in the future. This section is planning to conduct electrical training sessions for northern wiremen. The training should enable them to reach initially a certain limited level of certification in the electrical field. With further training and experience journeyman status could be obtained.

Statistics in this Section are on fiscal year basis

ELECTRICAL

<u>Year</u>	<u>Permits</u>	<u>Inspections</u>	<u>Revenue</u>
73 - 74	891	1,141	\$13,818.00
74 - 75	817	842	19,066.00
75 - 76	850	1,846	37,595.10
76 - 77	1,417	1,702	41,033.00

BOILERS & PRESSURE VESSELS

<u>Year</u>	<u>Registration</u>	<u>Inspections</u>	<u>Revenue</u>
73 - 74	1,854	1,150	\$22,310.00
74 - 75	2,097	1,463	19,977.00
75 - 76	2,112	1,640	26,710.50
76 - 77	2,392	1,495	31,097.00

ELEVATORS

<u>Year</u>	<u>No.</u>	<u>Inspected</u>	<u>Revenue</u>
73 - 74	23	20	\$791.00
74 - 75	28	23	690.00
75 - 76	30	25	700.00
76 - 77	36	33	750.00

<u>Year</u>	<u>Welders Engineers Exams</u>	<u>Plan Review & Design Registration</u>	<u>Revenue</u>
73 - 74			\$ 882.00
74 - 75			1,162.00
75 - 76	20	80	1,400.00
76 - 77	15	85	1,203.50

