

**LEGISLATIVE ASSEMBLY OF THE
NORTHWEST TERRITORIES
9TH ASSEMBLY, 2ND SESSION**

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Annual Report

Safety Division
1978



Department of Public Services
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ANNUAL REPORT
OF THE
SAFETY DIVISION
GOVERNMENT OF THE NORTHWEST TERRITORIES

1978

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ANNUAL REPORT OF THE SAFETY DIVISION

The Division is divided into five sections.

1. The Fire Safety Section - administers the Fire Prevention Ordinance and its regulations. These regulations control the installation of gas, propane and oil fired equipment, extinguishers and the building of structures. It also administers the Petroleum Products Ordinance.

2. The Mechanical Section - administers the Electrical Protection Ordinance, the Boiler and Pressure Vessels Ordinance and their respective regulations and the Electrical Regulations.

3. The Industrial Safety Section - administers the Industrial Safety Ordinance and its regulations. This Ordinance regulates on safety in the work place.

4. The Occupational Health Section - Regulates on contaminants and pollutants in the work place and sets the threshold limits. The Head of Occupational Health is also the Registrar of Miners' Medical Certificates.

5. The Labour Section - administers the Labour Standards Ordinance, Fair Practices Ordinance, Wage Recovery Ordinance and the Employment Agencies Ordinance.

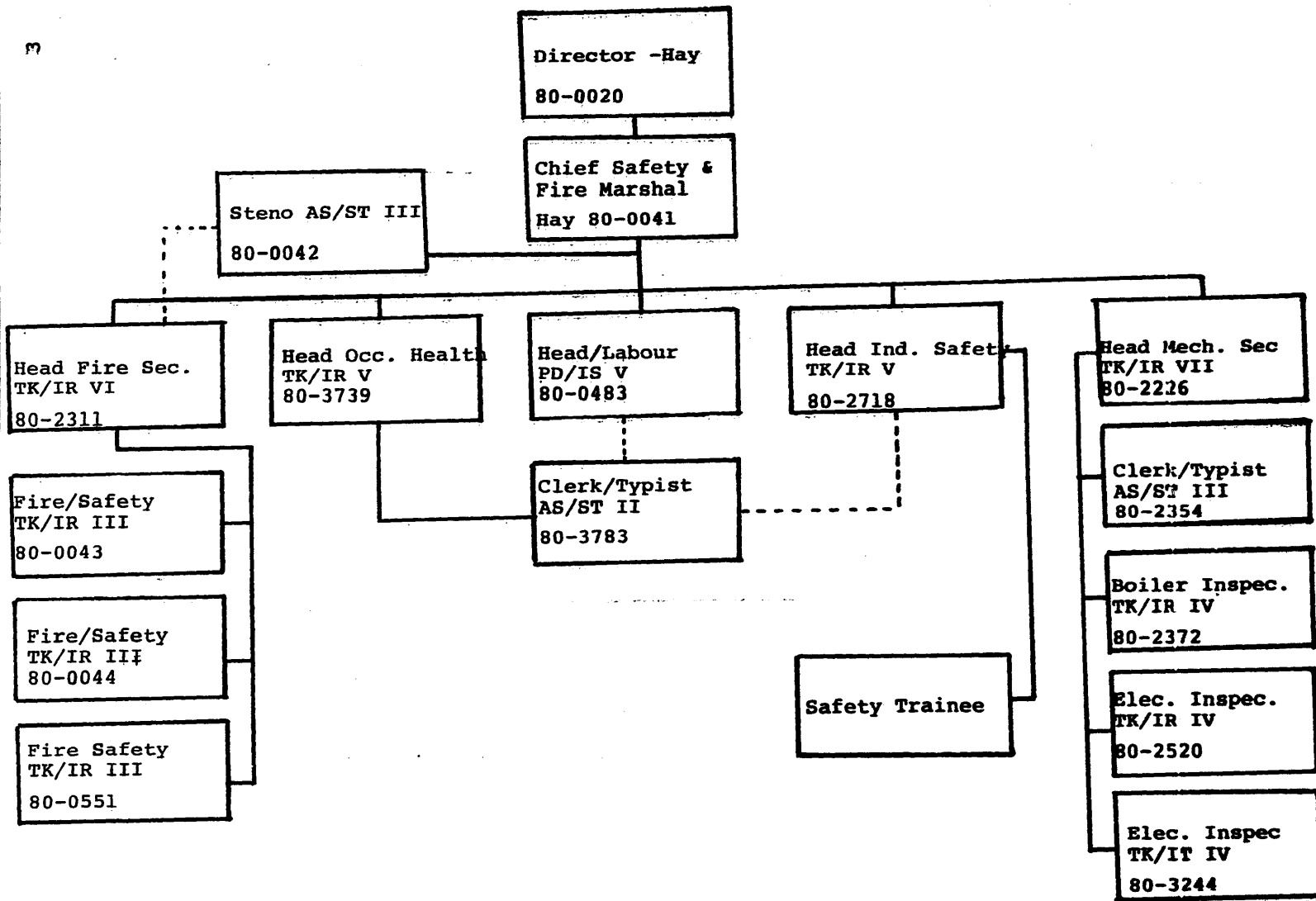
The Division continues to support safety programs sponsored by organizations and the communities. Fire Brigades play a very important role in providing an emergency force available to combat uncontrolled fires. The work is done mostly by volunteers who now number over 600. We want to express our appreciation to those who so freely give of their time and energy in providing this vital community service.

I regret that I again must report that five deaths took place and twenty - nine injuries occurred as a result of fire. The consumption of alcohol and smoking were again the major contributing factors in the cause of these deaths.

The report contains for the first time the statistics on injuries of workers. This will appear in subsequent reports in more detail. We regret that we must also report a fatality as a result of a worker's accident.

Public education is a vital part of promoting safety. This portion of the program has been accelerated in every area of safety. The increased use of safety films and literature indicates the degree of acceptance by the public.

J. Adrian
Chief Safety Division
and Fire Marshal.



FIRE SAFETY SECTION

FIRE CHIEFS

Aklavik	Danny Gordon
Arctic Bay	Tommy Tattatuapik
Arctic Bay	Billy Cardinal
Baker Lake	Joseph Scotti
Broughton Island	Markosie Audlakiak
Cambridge Bay	Wilf MacDonald
Cape Dorset	Aningmiug Samayuale
Chesterfield Inlet	Andre Tatu
Clyde River	Elisha Sanguya
Coppermine	Tommy Pigalak
Coral Harbour	K. Alogut
Edzo	Lloyd Taylor
Eskimo Point	Peter Meekuneak
Fort Franklin	Eugene Wasserman
Frobisher Bay	Bud Greer
Gjoa Haven	Randy Bergen
Fort Good Hope	Dave Proctor
Grise Fiord	Josephie Kiguaktak
Hall Beach	Eboki Irqiuttug
Hay River	Al Gagnon
Holman Island	Noah Akhiatak
Igloodik	Thomas Kublu
Inuvik	Andrew Davis

Lake Harbour	Tipanasee Kilabuk
Fort Liard	Charlie Hope
Fort MacPherson	Michael Pascal
Fort Norman	Robert Clement
Norman Wells	Garry Fowler
Pangnirtung	Mosesee Kaipik
Paulatuk	David Ruben
Pelly Bay	Sam Inaksajak
Pine Point	Mel Logan
Pond Inlet	Alan Maktar
Fort Providence	Francis Jenkins
Rae	Tim Jewitt
Rankin Inlet	Philip Noolook
Repulse Bay	Jack Anawak
Resolute Bay	Lionel Dobson
Fort Resolution	Cecil Lafferty
Sachs Harbour	Bryon Zizman
Sanikiluaq	Johnny Meeko Jr.
Fort Simpson	Gerry McCowan
Fort Smith	Frank Price
Spence Bay	David Igutsaq
Nanisivik	Jack Markle
Tuktoyaktuk	Rick Archer
Tungsten	Gordon Conner
Whale Cove	Paul Sabourin
Wriggley	Henry Hardisty
Yellowknife	Robert Ocroft

Pine Point Mines	Dave Calder
Giant Yellowknife Mine	Ed Castillo
Imperial Oil - Norman Wells	Bill Wilson
Transport Canada - Inuvik	Paul Baulbergevin
- Norman Wells	Harvey Nichols
- Yellowknife	Pierre Corbiel
- Hay River	Ernest Amboe
- Fort Smith	Earl Holly
- Fort Simpson	Barry Ledoux

FIRE LOSSES BY COMMUNITY

Fire Losses by Community

The statistics reflect a five year comparison of those fires reported to the Fire Marshal. You will note that there has been an increase in some communities while a decrease in others. Rankin Inlet reflects a very high loss since several buildings were either partially or completely destroyed as the result of arson.

The reports reveal that many fires are the result of carelessness. The consumption of alcohol is often a contributory cause or the major reason why some of the fires are started.

The fire prevention education program is changed whenever necessary. It is geared to meet the requirements of the communities in assessing the corrections required to correct the found hazards.

The program combines investigations, inspections and education.

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Aklavik	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
	1977	1	-	28,500.00	28,500.00
	1978	5	20.00	3,400.00	3,420.00
Arctic Bay	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
	1977	2	-	400.00	400.00
	1978	-	-	-	-
Arctic Red River	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-
	1978	1	-	1,500.00	1,500.00
Baker Lake	1974	2	-	-	-
	1975	3	50,000.00	90,000.00	140,000.00
	1976	1	-	1,000.00	1,000.00
	1977	2	50,000.00	50,955.00	100,000.00
	1978	-	-	-	-
Broughton Island	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-
	1978	3	600.00	1,200.00	1,800.00

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Cambridge Bay	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
	1977	1	-	11,000.00	11,000.00
	1978	-	-	-	-
Cape Dorset	1974	1	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	1	-	70,000.00	70,000.00
	1978	1	-	100.00	100.00
Chesterfield Inlet	1974	1	-	35,400.00	35,400.00
	1975	1	-	100.00	100.00
	1976	-	-	-	-
	1977	-	-	-	-
	1978	-	-	-	-
Clyde River	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-
	1978	-	-	-	-
Coppermine	1974	1	-	35,000.00	35,000.00
	1975	-	-	-	-
	1976	-	-	-	-
	1977	1	-	800.00	800.00
	1978	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRE</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Coral Harbour	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	1	-	60.00	60.00
	1978	-	-	-	-
Edzo	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-
	1978	1	8,000.00	-	8,000.00
Enterprise	1974	1	500.00	-	500.00
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-
	1978	1	-	12,000.00	12,000.00
Eskimo Point	1974	-	-	-	-
	1975	2	-	70,000.00	70,000.00
	1976	-	-	-	-
	1977	1	-	1,000.00	1,000.00
	1978	3	-	251,050.00	251,050.00
Fort Franklin	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	2	-	70,150.00	70,150.00
	1978	2	18,000.00	22,875.00	40,875.00

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Frobisher Bay	1974	50	-	164,688.00	164,688.00
	1975	39	-	29,060.00	29,060.00
	1976	19	-	38,855.00	38,855.00
	1977	13	29,000.00	8,915.00	37,915.00
	1978	13	18,000.00	198,100.00	216,100.00
Gjoa Haven	1974	-	-	-	-
	1975	-	-	-	-
	1976	1	35,815.00	-	35,815.00
	1977	2	-	5,100.00	5,100.00
	1978	-	-	-	-
Fort Good Hope	1974	1	-	6,000.00	6,000.00
	1975	1	-	13,600.00	13,600.00
	1976	2	-	250.00	250.00
	1977	-	-	-	-
	1978	1	200.00	-	200.00
Hall Beach	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	1	-	200.00	200.00
	1978	-	-	-	-
Hay River	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
	1977	15	-	234,240.00	234,240.00
	1978	17	8,750.00	249,645.00	258,395.00

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Igloolik	1974	-	-	-	-
	1975	1	-	100,000.00	100,000.00
	1976	-	-	-	-
	1977	-	-	-	-
	1978	-	-	-	-
Holman Island	1974	-	-	-	-
	1975	-	-	-	-
	1976	1	-	100.00	100.00
	1977	-	-	-	-
	1978	1	5,000.00	10,000.00	15,000.00
Inuvik	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
	1977	14	44,250.00	50,490.00	94,740.00
	1978	27	14,925.00	118,460.00	133,385.00
Lake Harbour	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-
	1978	-	-	-	-
Lac La Martre	1974	-	-	-	-
	1975	-	-	-	-
	1976	1	-	500.00	500.00
	1977	-	-	-	-
	1978	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Fort Liard	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
	1977	1	-	1,900.00	1,900.00
	1978	1	-	3,359.00	3,359.00
Fort McPherson	1974	4	-	44,000.00	44,000.00
	1975	3	-	3,175.00	3,175.00
	1976	5	-	68,040.00	68,040.00
	1977	1	-	200.00	200.00
	1978	-	-	-	-
Norman Wells	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
	1977	3	6,500.00	11,000.00	17,500.00
	1978	2	5,000.00	3,000.00	8,000.00
Fort Norman	1974	2	-	75.00	75.00
	1975	3	-	1,850.00	1,850.00
	1976	-	-	-	-
	1977	1	55,000.00	20,000.00	75,000.00
	1978	-	-	-	-
Pangnirtung	1974	4	100.00	35,800.00	35,900.00
	1975	-	-	-	-
	1976	4	-	480.00	480.00
	1977	-	-	-	-
	1978	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Pelly Bay	1974	2	-	35,200.00	35,200.00
	1975	1	-	9,000.00	9,000.00
	1976	2	-	50,100.00	50,100.00
	1977	-	-	-	-
	1978	-	-	-	-
Paulatuk	1974	-	-	-	-
	1975	1	-	800.00	800.00
	1976	-	-	-	-
	1977	-	-	-	-
	1978	-	-	-	-
Pine Point	1974	16	965.00	6,995.00	7,959.00
	1975	9	51,460.00	200.00	51,660.00
	1976	11	14,680.00	5,150.00	19,830.00
	1977	12	88,250.00	100.00	88,350.00
	1978	8	121,315.00	23,000.00	144,315.00
Pond Inlet	1974	-	-	-	-
	1975	-	-	-	-
	1976	1	-	67,000.00	67,000.00
	1977	2	125,00	400.00	525.00
	1978	-	-	-	-
Fort Providence	1974	-	-	-	-
	1975	-	-	-	-
	1976	1	-	31,000.00	31,000.00
	1977	1	-	300.00	300.00
1978	3	-	3,150.00	3,150.00	

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Rae	1974	3	300.00	-	300.00
	1975	4	-	12,105.00	12,105.00
	1976	3	-	6,100.00	6,100.00
	1977	2	-	8,300.00	8,300.00
	1978	1	-	100.00	100.00
Rankin Inlet	1974	4	-	13,750.00	13,750.00
	1975	4	7,000.00	275,000.00	282,000.00
	1976	-	-	-	-
	1977	1	-	36,000.00	36,000.00
	1978	5	-	4,709,000.00	4,709,000.00
Resolute Bay	1974	1	-	15,000.00	15,000.00
	1975	1	-	27,000.00	27,000.00
	1976	1	-	14,000.00	14,000.00
	1977	2	1,800.00	150.00	1,950.00
	1978	-	-	-	-
Fort Resolution	1974	2	-	-	-
	1975	-	-	-	-
	1976	8	31,050.00	71,770.00	102,820.00
	1977	-	-	-	-
	1978	3	-	1,750.00	1,750.00
Sachs Harbour	1974	2	-	1,550.00	1,550.00
	1975	-	-	-	-
	1976	1	300.00	-	300.00
	1977	-	-	-	-
	1978	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Sanikiluaq	1974	-	-	-	-
	1975	1	-	45,000.00	45,000.00
	1976	-	-	-	-
	1977	1	-	550.00	550.00
	1978	-	-	-	-
Fort Simpson	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
	1977	2	-	21,700.00	21,700.00
	1978	1	-	15,000.00	15,000.00
Fort Smith	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
	1977	2	-	7,100.00	7,100.00
	1978	2	-	100,000.00	100,000.00
Snowdrift	1974	1	-	5,500.00	5,500.00
	1975	-	-	-	-
	1976	1	-	2,300.00	2,300.00
	1977	-	-	-	-
	1978	-	-	-	-
Spence Bay	1974	2	25,360.00	37,000.00	62,360.00
	1975	-	-	-	-
	1976	-	-	-	-
	1977	1	-	100.00	100.00
	1978	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Trout Lake	1974	-	-	-	-
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-
	1978	-	-	-	-
Tuktoyaktuk	1974	5	750,000.00	37,150.00	787,150.00
	1975	-	-	-	-
	1976	2	-	12,500.00	12,500.00
	1977	4	-	155,000.00	155,000.00
	1978	1	-	100.00	100.00
Unsettled	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
	1977	17	37,625.00	109,710.00	147,335.00
	1978	11	56,085.00	123,050.00	179,135.00
Whale Cove	1974	-	-	-	-
	1975	1	-	45,000.00	45,000.00
	1976	1	-	30.00	30.00
	1977	-	-	-	-
	1978	-	-	-	-
Wrigley	1974	1	-	1,000.00	1,000.00
	1975	-	-	-	-
	1976	-	-	-	-
	1977	-	-	-	-
	1978	-	-	-	-

<u>MUNICIPALITY</u>	<u>YEAR</u>	<u>NO. OF FIRES</u>	<u>INSURED LOSS</u>	<u>UNINSURED LOSS</u>	<u>TOTAL</u>
Yellowknife	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
	1977	61	293,802.00	27,455.00	321,257.00
	1978	47	177,105.00	12,947.00	190,052.00
<u>TOTALS</u>	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
	1977	171	645,602.00	833,570.00	1,479,172.00
	1978	161	433,000.00	5,862,570.00	6,295,786.00

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>
1974	55	227,712.00
1975	38	673,625.00
1976	8	48,550.00
1977	25	184,400.00
1978	15	333,644.00

a. Solid Fuel

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	4	14,000.00
1975	5	13,980.00
1976	5	33,450.00
1977	4	84,950.00
1978	3	158,000.00

b. Oil Fired

<u>*Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	45	113,112.00
1975	27	241,435.00
1976	7	18,200.00
1977	9	108,500.00
1978	10	174,094.00

c. Gas Fired

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	6	90,600.00
1975	5	418,210.00
1976	4	100,330.00
1977	2	250.00

ii Defective and Overheated Chimneys and Flues

<u>Year</u>	<u>No. Of Fires</u>	<u>\$ Loss</u>
1974	6	11,246.00
1975	4	175,550.00
1976	5	3,700.00
1977	2	7,100.00
1978	4	2,800.00

iii Hot Ashes, Coals, Open Fires

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	13	51,465.00
1975	13	40,850.00
1976	4	2,515.00
1977	3	850.00
1978	1	1,200.00

2. Electrical Wiring and Appliances

21

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	59	1,138,733.00
1975	40	177,765.00
1976	32	222,350.00
1977	34	408,332.00
1978	45	402,820.00

3. Smoking

1. Matches

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	60	34,490.00
1975	27	99,490.00
1976	19	200,530.00
1977	21	115,850.00
1978	28	255,940.00

11. Smokers' Carelessness

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	55	274,715.00
1975	40	210,388.00
1976	22	271,650.00
1977	19	116,896.00
1978	21	289,500.00

4. Petroleum and its Products

22

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	20	1,584,200.00
1975	21	46,625.00
1976	19	211,390.00
1977	15	202,900.00
1978	20	199,635.00

5. Exposure

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	5	1,150.00
1975	6	75,300.00
1976	1	21,000.00
1977	3	32,150.00
1978	1	105,000.00

6. Incendiarism

<u>Year</u>	<u>No. Of Year</u>	<u>\$ Loss</u>
1974	10	46,500.00
1975	3	2,400.00
1976	7	37,370.00
1977	9	24,050.00
1978	6	4,638,000.00

7. Miscellaneous1. Lightning

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	-	-
1975	-	-
1976	-	-
1977	-	-
1978	-	-

11 Lights, Other than Electrical

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	-	-
1975	1	300.00
1976	1	500.00
1977	1	750,000.00
1978	2	8,000.00

111 Sparks on Roofs

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	-	-
1975	-	-
1976	-	-
1977	-	-
1978	-	-

IV Spontaneous Ignition

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	2	5,590.00
1975	-	-
1976	4	35,850.00
1977	1	6,500.00
1978	-	-

V Miscellaneous

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	19	28,494.00
1975	29	475,516.00
1976	17	153,910.00
1977	6	41,050.00
1978	12	58,280.00

8. Unknown

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	72	298,150.00
1975	23	330,875.00
1976	20	337,390.00
1977	12	77,445.00
1978	8	39,280.00

OCCUPANCY GROUP CLASSIFICATION

1 Residential Properties

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	203	1,134,906.00
1975	139	896,279.00
1976	93	610,020.00
1977	74	580,015.00
1978	94	584,759.00

2 Institutional Buildings

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	5	150,000.00
1975	2	350.00
1976	4	502,520.00
1977	5	245,000.00

3 Assembly Buildings

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	23	584,160.00
1975	3	5,575.00
1976	6	73,350.00
1977	3	240,000.00
1978	1	4,586,230.00

* (includes school at Rankin Inlet)

4 Farm Properties

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	-	-
1975	-	-
1976	-	-
1977	-	-
1978	-	-

5 Manufacturing Properties

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	3	500,000.00
1975	5	7,800.00
1976	8	65,050.00
1977	-	-
1978	-	-

6 Mercantile Properties

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	74	1,795,682.00
1975	48	1,039,185.00
1976	51	915,460.00
1977	3	830,000.00
1978	20	364,390.00

7 Miscellaneous Properties

27

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	69	37,697.00
1975	48	359,700.00
1976	23	16,100.00
1977	11	38,950.00
1978	39	490,307.00

Totals

<u>Year</u>	<u>No. of Fires</u>	<u>\$ Loss</u>
1974	377	4,202,455.86
1975	246	2,353,888.82
1976	185	2,182,500.00
1977	171	1,479,172.00
1978	161	6,295,786.00

(Total fire loss for 1978 includes 4 incidents of arson)

LARGE LOSS FIRES

Over \$50,000

1974

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

1975

Jan 14	Inuvik	Garage	Welder	250,000
Jan 11	MacKen. 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	Cigaretts	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
Sep 17	Baker Lake	Lodge	Propane Leak	125,000
Sep 19	Fort Simpson	Shop/Office	Unknown	93,000
Nov 11	Igloolik	DC-3	Portable Heater	100,000

1976

<u>DATE</u>	<u>LOCATION</u>	<u>OCCUPANCY</u>	<u>CAUSE</u>	<u>\$ LOSS</u>
Feb 15	Echo Bay	Garage	Unknown	75,000
Feb 21	Hay River	R.C.M.P.	Welder	500,000
Mar 27	Ft. Resolution	Dwelling	Unknown	70,000
Apr 13	Yellowknife	Garage	Welder	150,000
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

1977

Jan 25	Ft. Norman	Garage	Battery Charger	55,000
Feb 6	Ft. Franklin	Church	Overheated Wood Stove	70,000
Apr 17	Tuktoyaktuk	Dwelling	Gasoline Spill	70,000
July 4	Pine Point	Vehicle	Hydraulic Fluid	70,000
Aug 16	Hay River	School	Heating Tape	200,000
Dec 21	Baker Lake	Co-op	Candle	100,000

1978

<u>DATE</u>	<u>LOCATION</u>	<u>OCCUPANCY</u>	<u>CAUSE</u>	<u>\$ LOSS</u>
Mar. 11	Rankin Inlet	DPW Garage	Arson	120,000.00
Mar. 18	Rankin Inlet	School	Arson	4,500,000.00
Apr. 1	Pine Point	Rec Hall	Children/matches	80,000.00
Apr. 12	Frob. Bay	Club/Scout Hall	Thawing Pipes	105,000.00
Aug. 10	Ft. Smith	Workshop	Children.matches	50,000.00
Sept. 2	Hay River	Hotel	Cigarette	225,000.00
Sept. 20	Inuvik	Dwelling	Fireplace	75,000.00
Nov. 24	Rankin Inlet	Office/Res.	Electric Heater	80,000.00

**GRAPH SHOWING RESIDENTIAL FIRE
LOSS IN COMPARISON TO
OVERALL LOSS**

\$5,500,000

\$5,000,000

\$4,250,000

\$4,000,000

\$3,750,000

\$3,500,000

\$3,250,000

\$3,000,000

\$2,750,000

\$2,500,000

\$2,250,000

\$2,000,000

\$1,750,000

\$1,500,000

\$1,250,000

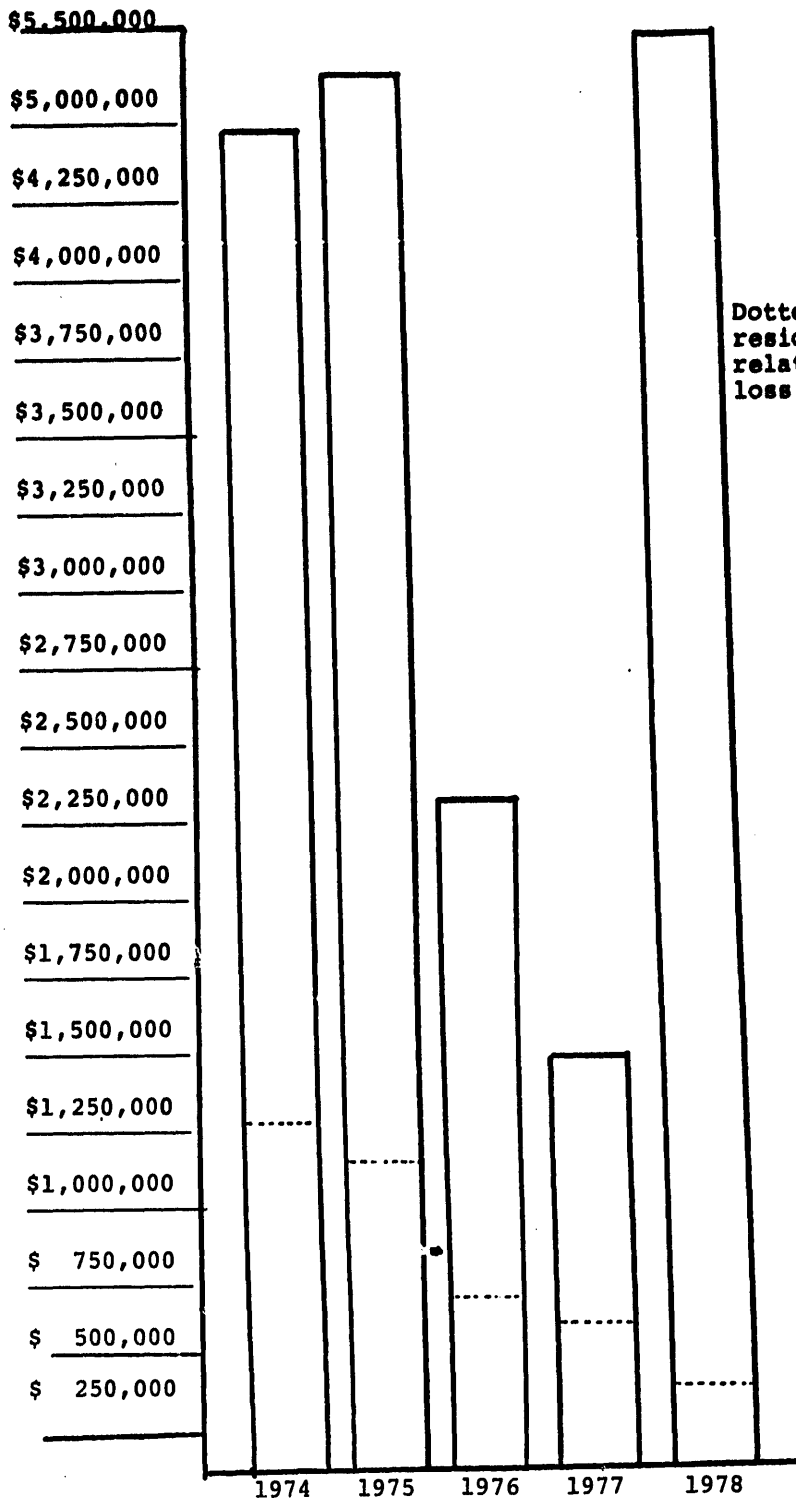
\$1,000,000

\$ 750,000

\$ 500,000

\$ 250,000

Dotted line shows
residential fire loss in
relationship to the total
loss



FIRE DEATHS

AND INJURIES

Deaths

<u>Year</u>	<u>Men</u>	<u>Women</u>	<u>Children</u>	<u>Total</u>
1974	6	2	-	8
1975	6	-	2	8
1976	4	6	3	13
1977	2	1	3	6
1978	2	1	2	5

Injuries

<u>Year</u>	<u>Men</u>	<u>Women</u>	<u>Children</u>	<u>Total</u>
1974	25	3	1	29
1975	12	2	2	16
1976	4	2	-	6
1977	12	2	-	14
1978	19*	3	7	29

* included one volunteer firefighter.

INSPECTIONS

ARSON INVESTIGATION

AND ALLIED CRIMES

INSPECTIONS

Fire Safety

1974	3,800
1975	2,500
1976	1,831
1977	1,500
1978	3,500 (Includes those done by Fire Departments.)

Arson Investigation and Allied Crimes

<u>Year</u>	<u>No. of Investigations</u>	<u>No. of Prosecutions</u>	<u>No. of Convictions</u>
1974	21	2	1
1975	14	1	1
1976	8	-	-
1977	13	1	1
1978	5	5	5

Mischief

<u>Year</u>	<u>No. of Investigations</u>	<u>No. of Prosecutions</u>	<u>No. of Convictions</u>
1978	5	-	-

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 fifty nine(159) plans were reviewed. Low cost and staff accommodation were registered as one plan even though more 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 N.W.T.
- 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.

TRAINING PROGRAMS

FIRE DEPARTMENTS

In June a training seminar was held for three days in Fort Smith. This seminar was conducted by the Fire Fighters Association in conjunction with the Fire Marshals Office.

Eighty six delegates attended from the various fire departments within the N.W.T.

Training sessions were carried out throughout the year with the following Volunteer Fire Brigades:

- Holman Island
- Coppermine
- Spence Bay
- Felly Bay
- Cambridge Bay
- Resolute Bay (three separate sessions)
- Hay River
- Eskimo Point
- Baker Lake
- Rankin Inlet
- Sanikiluaq

Training sessions were conducted in the following areas with personnel from the Federal and Territorial Governments attending along with the general public:

- D.P.W. Highway Operators
- D.P.W. Inuvik
- Broughton Island
- Pangnirtung
- Federal D.P.W. Fort Smith
- N.C.P.C. - Fort Smith

- Baker Lake
- Rankin Inlet
- Sanikiluaq

FILM LIBRARY

The Division has a very good film library with new additions during the past year. The constant use of the films reflects the need to increase the size and update the films. In 1977 the films were used extensively.

TRAINING FILMS FOR FIRE DEPARTMENTS

Ground Ladders

Handling LP Gas Emergencies

Fighting Tank Fires

Ventilation

The Nature of Fire

Combat

The Nozzleman

Using Water Wisely

Firefighting Strategy

Today's Firefighter

Where's the Water

Co-ordinated Fire Attack

Ansul Training

Bleve (Boiling Liquied Expanding Vapour Explosion)

Portable Fire Extinguishers

The AVC and D's of Portable Fire Extinguishers

Know you Extinguisher

Self-Contained Breathing Apparatus

Code 3

Bomb Threat

The Science of Fire

Dry Chemical Fire Extinguishers
High Rise Building Fire
Closed Containers & Fire
Fire Hose
Prognosis: Fire
The Easy Way Out
Fire Fighting & Electricity
Structural Fire Attack
Basic Search & Rescue
Breathing Apparatus - Why?
The Foam Film
Fire Concepts & Behavior
Alarm
Tall Dilemma
High Rise Building Problems
Instant Arson
Basic Rescue I
Basic Rescue II
Basic Rescue III
Basic Rescue IV
Basic Rescue V

TRAINING SLIDES - FIRE

Unloading & Advancing Hose Lines

Basic Hose Loads

Forward Hose Lays

Reverse Hose Lays

Extend & Reduce Hose Lines

Hand Portables - Inspection & Maintenance

Hand Portables - Use

Wheeled Units - Operation & Recharge

Wheeled Units - Inspection & Testing

Scott Air Pack - Inspection & Testing

Scott Air Pack - Use

Ladders

Pumpers

Fire/Safety - What's That?

Common Forcible Entry Tools

Loading Rack Fires

Salvage & Overhaul

Time

Ventilation - Parts 1 & 2

Safety At The Fire

Tools or Weapon

Physical Condition

The Fire Fighter & Plastics

Fire Safety in Hospitals

Home Fire Detectors

Prevent Welding & Cutting Fires

FIRE SAFETY FOR GROUP SHOWING

Fatal Fire In Town

Know Your Fire Hazards

Condemned

Are You Safe At Home

Hot Stuff

Fire - Not In My House

Fire - Two Ways Out

Fire In My Kitchen

Have A Wonderful Evening

Fire - Sound The Alarm

Another Man's Family

RX For Fire

Hospital Fire Safety

Your Clothing Can Burn

The Fire Finders

Holding Hands

Lucy Becomes A Volunteer Fireman

They Called It Fireproof

The Price Of Fire

Our Obligation

Liquids Can Burn

Are We Fire Safe

Hot Cords Can Burn

Help Prevent Fire

Flammable Liquid Fire Safety

Prevent Welding/Cutting Fires

It's Time To Light The Fire

Mobile Home Fire Safety

He Comes Without Calling

Why?

You & Yours

The Bondi Story

A Cry For The Children

Sprinklers - Myth or Magic

Learn Not To Burn

Where's Tommy?

Safe And Warm

SAFETY FILMS

Ice Safety

Hand Tools

Power Tools

Ten Commandments Of Gun Safety

It Didn't Have To Happen

Poisons

Charlie's Day

It's Your Accident

Hot Water Tank Explosions

Falls Can Cripple

The Unplanned

Don't Take Chances

Safe Bicycling

Snowmobile Safety

Play Safe With Snowmobiles

Just Once

Read the Label on Live

Your Job

How To Have An Accident In The Home

Drown Proofing

Accidents Don't Happen

Prognosis: Safety

Safe Boating is Fun

Danger Alive

Shock

Rubble Trouble

You Bet Your Eyes

Reasons For Caring

Who Will I Sentence Now

Smush The Fire Out

Matches

Hark! The Safety Fairy Sings

SAFETY SLIDES

School Safety

Traffic Safety

Physical Condition

Safe Driving

Transit Safety

Shop Safety - Screwdrivers, Wrenches, Sheet Metal, Welding

Shop Safety - Handsaws, Chisels, Files

Shop Safety - Drill Press, Lathes

Shop Safety - General Hazards

Keep Clean - Guard Sight, Guard Hands

Supervisor - Health, Fire

Handtools - Lifting Attitudes

FIRST AID

Pulse Of Life

Breath Of Life

Circulatory System

Nervous System

Respiratory System

Skeleton

Emergency Child Birth

Help Is

(These films were transferred to St. John Ambulance for use
in first aid training.)

EMERGENCY PLANNING

Nuclear Weapons

The Face Of Disaster

Eleven Steps to Survival

About Fallout

Time To Live

Though The Earth Be Moved

INDUSTRIAL SAFETY SECTION

INDUSTRIAL SAFETY SECTION

This section is mainly responsible for the administration of the Industrial Safety Ordinance. However, we cooperate with community organizations and other agencies in promoting public safety.

The Bicycle Safety Program is conducted in cooperation with the R.C.M.P. in various communities.

Safety Week is May 12 - 18 when information is sent throughout the Territories to schools, organizations and community councils. This program is very well received.

Other programs include the Truck Rodeo, Safe Boating, Gun Safety and Babysitting Safety Course.

Work Injury Statistics

1977 September - December

	No Time Lost	Time Lost
Head	18	5
Face	13	5
Eyes	50	5
Chest	4	11
Back	31	41

Arms	29	22
Hands	27	16
Fingers	78	15
Legs	17	25
Feet/Ankles	32	23
Neck	2	6

1978 January - December

Head	40	15
Face	44	14
Eyes	149	56
Chest	29	28
Back	96	131
Arms	107	64
Hands	110	72
Fingers	236	86
Legs	115	68
Feet/Ankles	99	79
Neck	14	6

Fatal accidents: 1

OCCUPATIONAL HEALTH SECTION

OCCUPATIONAL HEALTH SECTION

The Occupational Health Section became a reality in May 1978 when Mike Hewitt was hired as Head of the Section. His immediate responsibilities were to develop the program.

The basic objective of the program is to provide a safe and healthy work environment, minimizing inherent health hazards; to promote maintain and monitor the highest level of workers' health to promote a positive attitude by all concerned toward occupational health and to minimize the impact of occupational health hazards on industry and the community at large.

The Head of the Section is also the Registrar of Miners' Medical Certificates.

Legislation is being developed to allow the setting of threshold limits for contaminants and pollutants allowed in the work place, and to monitor and regulate the same.

A data and statistical system is being developed to allow for quick retrieval of information relating to chemicals, toxic gases and their affects on the human body. This combined with a good surveillance program will ensure that the hazards are identified and corrected as soon as possible.

The program is well received by industry. Statistics will be available next year.

LABOUR SECTION

LABOUR SECTION

Labour responsibilities were transferred to the Safety Division in September of 1978. The Head of the Section, Eric Smith, is responsible for the administration of the Labour Standards Ordinance, The Fair Practices Ordinance, The Wages Recovery Ordinance and the Employment Agencies Ordinance.

Most of the complaints received deal with the Labour Standards and are related to wages, hours worked, overtime and holiday pay.

Legislation is under review and proposed changes have been submitted to the legislative committee.

MECHANICAL SECTION

Mechanical Electrical Section

This section is responsible for the administration of the Electrical Protection Ordinance, Boiler and Pressure Vessels Ordinance and their regulations. They are also responsible for the enforcement of the Elevator Regulations. The Inspectors of this section are appointed under the Federal Labour Act. This has proven to be very beneficial since it provides consistency of regulation enforcement for all levels of Government as well as the private sector.

The work load in all areas of responsibility experienced continued growth particularly in the area of electrical protection. The statistics reflect the increased work load:

There is a continued emphasis on training people in the safe operations of boilers and the safe installation and maintenance of electrical wiring.

We were pleased to host the meetings of the Canadian Electrical Code Committee in June. This included all Provincial Chief Electrical Inspectors. This committee monitors and revises the Canadian Electrical codes which is the standard for electrical installation adopted by the Provinces and Territories. An

Educational Seminar was held which was attended by a wide representation from Industry and Government; over 100 electrical contractors, maintenance personnel, utility companies and a Grounding Research team from British Columbia attended. There has been a greater concentration on the inspections of older installations to ensure that the electrical wiring provides maximum safety to the public. A number of unsafe installations were detected and corrected including a serious hazard in a large apartment block. Drill rigs were included in the inspections this year.

The Electrical Trade Advisory Committee, of which the Section Head Irvin Grabke is the Chairman, has almost completed the details to establish the "Isolated Community Wireman". This program is to provide a much needed service for settlements where no electrical tradesmen live. There are 20 individuals who could qualify at this time. Hopefully this program will be in place in 1979.

There were several combustion explosions in boilers. Most were minor in nature and caused little damage. One large boiler required extensive retubing due to cold and corrosion.

Forty - three power engineers wrote exams. The breakdown
is as follows:

1- 5th Class

12- 4th Class

22-3rd Class

8 - 1st Class

Statistics

I Electrical

<u>Year</u>	<u>Permits</u>	<u>Inspections</u>	<u>Open Permit</u>	<u>Revenue</u>
1974	817	842		19,066.00
1975	850	1846		37,595.10
1976	1417	1702		41,033.00
1977	1262	1768	984	45,712.00
1978	1079	1858	862	44,716.00

II Boilers & Pressure Vessels

<u>Year</u>	<u>Registration</u>	<u>Inspections</u>	<u>Revenue</u>
1974	2,079	1,463	19,977.00
1975	2,112	1,640	26,710.50
1976	2,392	1,495	31,097.00
1977	2,596	1,477	34,246.00
1978	2,760	1,459	30,023.00

III Elevators

<u>Year</u>	<u>Registered</u>	<u>Inspected</u>	<u>Revenue</u>
1974	28	23	690.00
1975	30	25	700.00
1976	36	33	750.00
1977	41	25	901.00
1978	50	37	720.00

Distribution

Yellowknife	- 27	- 2 cancelled
Hay River	8	
Pine Point	5	
Frobisher Bay	5	
Fort Smith	2	1 dumbwaiter cancelled
Inuvik	2	
Tungsten	<u>1</u>	ski tow
TOTALS	50	

Designation

Passenger	36
Dumbwaiter	5
Freight	4
Belt lifts	4
Ski tows	<u>1</u>
	50

There were 7 new elevators installed in the N.W.T. in 1978 mostly in office and apartment buildings.

There was one recorded accident No injuries resulted -
A freight elevator was overloaded.

Plan Review and Design Registration

Year	Member
75	80
76	85
77	53
78	84

Welders & Power Engineer exams

<u>Year</u>	<u>Number</u>	<u>Revenue</u>
74		1,162.00
75	20	1,400.00
76	15	1,203.00
77	23	2,649.50
78	47	762.00

Total Revenue

<u>Year</u>	<u>Amount</u>
74	40,895.00
75	66,405.60
76	74,083.50
77	83,509.20
78	76,206.00

Summary for 1978

Electrical Inspections	1,686
Boiler Inspections	1,459
Boiler Registration	2,760
Elevatio Inspections	37
Welder's Exams	8
Engineer's Exams	43
Boiler & Pressure Vessel Design Registrations	46
Plan Reviews	84
Electrical Permits	1,079

Revenue recovered from electrical permits, boiler registrations and elevator inspections is \$76,206.00.