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Building *Nunavut* Together  
*Nunavut* liuqatigiingniq  
Bâtir le *Nunavut* ensemble



**Department of Community and Government Services**

**OFFICE OF THE FIRE MARSHAL  
2016 ANNUAL REPORT**



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## MESSAGE FROM THE MINISTER

I am pleased to present the Office of the Fire Marshal 2016 Annual Report.

Losses due to fire place a burden on families, communities and governments which, in many cases, are preventable. Fire prevention is critical in avoiding loss of life, injury and damage in our homes, schools and public buildings.

The Fire Prevention Strategy is the foundation of our public awareness and education initiatives. It is very important that Nunavummiut have the right tools to make fire safe choices in their homes, schools and workplaces. Our strategy is helping Nunavummiut to make everyday a fire safe day!

We recognized a number of long term volunteers in 2016 with the Fire Services Exemplary Service Medal. I would like to bestow my heartfelt gratitude to each of these individuals for the service and sacrifice they have given our communities over the years. I am grateful for the dedication of staff and volunteers of local fire departments for their commitment to their communities.

We enjoy working with our partners to keep our communities safe. The Office of the Fire Marshal is promoting fire safety and helping build capacity at the community level. We are working with the Nunavut Municipal Training Organization to help provide firefighters with training, tools and resources to effectively respond to fire emergencies. Equipment and fire trucks are being upgraded or replaced as needed and we will continue our efforts to increase support to municipalities for fire prevention education.

The Honourable Joe Savikataaq  
Minister, Department of Community and Government Services



## MESSAGE FROM THE OFFICE OF THE FIRE MARSHAL

The Office of the Fire Marshal's 2016 Annual Report provides fire-related statistics for Nunavut and updated information on the Fire Protection Strategy. Statistics such as estimates of fire loss damages, value at-risk and insurance costs are used to compare our past performance in reducing fire losses and the development of fire prevention programs that help address fire safety issues.



The Office of the Fire Marshal is investigating projects for building safety and is helping provide a safe environment for Nunavummiut through fire prevention inspections, firefighter training and other fire prevention programs.

Local Fire Departments continue to play important roles in fire protection and prevention. Firefighters share a great deal of concern for the safety of their communities throughout the Territory. Their service to communities helps ensure families and friends remain as safe as possible, but we all share the responsibility to support their efforts.

We are committed to continuing our fire prevention efforts and we are focusing on reducing deaths, injuries and property losses caused by fire.

Robert Prima  
Fire Marshal



Fire Prevention Presentation - Daycare

## 2016 TERRITORIAL FIRE LOSS SUMMARY

In 2016, there were 115 reported fires in Nunavut. This is a significant decrease from the previous year's total of 141 reported fires, and it is lower than the average of 149 fires over the last five years. In the last five years, the number of reported fires has been within the range of 120 to 161 per year. This includes all types of fires, small or large, regardless of response by the local fire department.

There were 15 casualties related to fires in the Territory in 2016, but no fire related deaths. The total amount of actual fire loss in 2016 is \$2.93 million, which is much less than the \$44.56 million in losses for 2015. The total property value at risk has significantly decreased from \$622 million in 2015 to \$416 million in 2016.

In 2015, incendiary fires were again the number one reported cause of fires at 40 per cent; human failing was the second highest at 26 per cent; mechanical/electrical failure/malfunction was third highest at 14 per cent, and; misuse of source of ignition was fourth highest at 11 per cent.

Smokers' material/open flame was the highest reported source of ignition at 57 per cent; cooking equipment is again the second highest at 24 per cent; appliances and electrical equipment is third at nine per cent and heating equipment was fourth at seven per cent.

Fire prevention and public education programs continue to be at the forefront of the Fire Protection Strategy. The Office of the Fire Marshal continues to provide fire departments with funding and presentation materials to support them in the delivery of fire prevention seminars in the communities.

The financial significance of losses of community infrastructure, and most importantly, the number of deaths, are substantial enough for Nunavummiut to strive towards the elimination of all types of fires.

## 2012 – 2016 FIRE LOSS SUMMARY

Year	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
<b>Population</b>	37,146	37,026	36,687	35,591	33,697
<b># of Fires</b>	115	141	134	161	157
<b>Deaths</b>	0	5	1	1	6
<b>Injuries</b>	15	18	8	13	20
<b>\$ Loss</b>	\$2,928,623	\$44,560,547	\$5,415,166	\$4,386,188	\$16,816,160
<b>\$ Loss Per Capita</b>	\$78.84	\$1,203.50	\$147.61	\$123.24	\$499.04
<b>Value at Risk</b>	\$416,894,891	\$622,154,489	\$403,155,161	\$532,470,260	\$512,205,110



**2016 FIRE LOSS STATISTICS  
COMBINED FIRE LOSS CATEGORY DETAILS –  
PROPERTY CLASSIFICATION**

<b>COMBINED FIRE LOSS BY PROPERTY CLASSIFICATION - 2016</b>				
	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value at Risk</b>	<b>Insurance Coverage</b>
Assembly	11	\$20,400.00	\$151,533,631.00	\$151,533,631.00
Institutional	3	\$5,500.00	\$17,524,970.00	\$17,464,970.00
Residential	43	\$2,369,406.00	\$228,569,924.00	\$215,274,924.00
Ground Transport Vehicles	5	\$77,815.00	\$77,815.00	\$0.00
Special Vehicles	4	\$23,250.00	\$255,201.00	\$230,000.00
Vehicle Storage Property	1	\$200.00	\$2,606,700.00	\$2,606,700.00
Miscellaneous Storage Properties (Warehouses)	3	\$174,272.00	\$8,115,000.00	\$8,115,000.00
Miscellaneous (Unclassified)	2	\$110,050.00	\$278,050.00	\$0.00
Miscellaneous Outbuildings (Shed)	16	\$142,070.00	\$978,400.00	\$87,000.00
Outdoor Property (Trash Bins)	16	\$4,800.00	\$5,689,700.00	\$5,676,000.00
Outdoor Property (Grass)	1	\$0.00	\$0.00	\$0.00
Outdoor Property (Dumps)	9	\$0.00	\$0.00	\$0.00
Food, Beverage, Sale	1	\$500.00	\$1,265,500.00	\$1,265,500.00
<b>Total:</b>	<b>115</b>	<b>\$2,928,263.00</b>	<b>\$416,894,891.00</b>	<b>\$402,253,725.00</b>

**FIRE LOSS CATEGORY DETAILS – PROPERTY**

<b>DOLLAR LOSS BY BUILDING OCCUPANCY – 2016</b>					
<b>Type of Building</b>	<b># of Fires</b>	<b>Dollar Loss Buildings</b>	<b>Dollar Loss Contents</b>	<b>Dollar Loss Vehicles</b>	<b>Total Dollar Loss</b>
<b>GN* Housing (All)</b>	26	\$478,605.00	\$54,151.00	\$0.00	\$532,756.00
<b>GN Commercial Buildings (schools, general, vehicles)</b>	20	\$104,600.00	\$13,350.00	\$56,065.00	\$174,015.00
<b>Private Housing</b>	17	\$1,641,050.00	\$195,000.00	\$0.00	\$1,836,050.00
<b>Private Other</b>	29	\$54,072.00	\$51,070	\$98,000.00	\$203,142.00
<b>Private Commercial</b>	5	\$61,500.00	\$98,600.00	\$0.00	\$160,100.00
<b>Municipal (Garages, Dumps)</b>	18	\$17,200.00	\$5,000.00	\$0.00	\$22,200.00
<b>Total:</b>	<b>115</b>	<b>\$2,357,027.00</b>	<b>\$417,171.00</b>	<b>\$154,065.00</b>	<b>\$2,928,263.00</b>

## FIRE LOSS CATEGORY DETAILS – PROPERTY

<b>VALUES AT RISK BY BUILDING OCCUPANCY - 2016</b>					
Type of Building	# of Fires	Value at Risk Building	Value at Risk Contents	Value at Risk Vehicles	Total Value at Risk
GN Housing	26	\$30,095,000.00	\$2,225,000.00	\$0.00	\$32,320,000.00
GN Commercial	20	\$138,698,724.00	\$21,443,327.00	\$295,016.00	\$160,437,067.00
Private Housing	17	\$180,541,424.00	\$10,088,500.00	\$0.00	\$190,629,924.00
Private Other	29	\$10,580,800.00	\$3,145,700.00	\$554,500.00	\$14,281,000.00
Private Commercial	5	\$6,067,400.00	\$1,352,100.00	\$30,000.00	\$7,449,500.00
Municipal	18	\$11,097,000.00	\$380,400.00	\$300,000.00	\$11,777,400.00
<b>Total:</b>	<b>115</b>	<b>\$377,080,348.00</b>	<b>\$38,635,027.00</b>	<b>\$1,179,516.00</b>	<b>\$416,894,891.00</b>

## FIRE LOSS CATEGORY DETAILS – PROPERTY

<b>INSURANCE DOLLARS BY BUILDING OCCUPANCY - 2016</b>					
Type of Building	# of Fires	Insurance \$ Building	Insurance \$ Contents	Insurance \$ Vehicles	Total \$ Insurance
GN Housing	26	\$23,050,000.00	\$125,000.00	\$0.00	\$23,175,000.00
GN Commercial	20	\$138,426,224.00	\$21,407,677.00	\$230,000.00	\$160,063,901.00
Private Housing	17	\$178,686,424.00	\$7,413,500.00	\$0.00	\$186,099,924.00
Private Other	29	\$10,209,000.00	\$3,082,000.00	\$472,000.00	\$13,763,000.00
Private Commercial	5	\$6,062,400.00	\$1,318,100.00	\$0.00	\$7,380,500.00
Municipal	18	\$11,092,000.00	\$379,400.00	\$300,000.00	\$11,771,400.00
<b>Total:</b>	<b>115</b>	<b>\$367,526,048.00</b>	<b>\$33,725,677.00</b>	<b>\$1,002,000.00</b>	<b>\$402,253,725.00</b>



Firefighter Level 2 training – Iqaluit

## FIRE LOSS CATEGORY- IGNITING OBJECT

<b>COMBINED FIRE LOSS BY IGNITING OBJECT - 2016</b>				
<b>Equipment or Component</b>	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value At Risk</b>	<b>Insurance Coverage</b>
Cooking Equipment	27	\$152,518.00	\$230,452,583.00	\$226,246,283.00
Heating Equipment	8	\$85,453.00	\$33,523,100.00	\$31,865,500.00
Appliances & Equipment	3	\$40,272.00	\$8,618,500.00	\$8,614,500.00
Electrical Distribution Equipment	4	\$3,500.00	\$48,483,433.00	\$47,983,433.00
Other Electrical Equipment	3	\$88,000.00	\$531,000.00	\$87,000.00
Smoker's Material and Open Flame	65	\$2,538,670.00	\$85,476,074.00	\$77,927,009.00
Miscellaneous & Unknown	5	\$19,850.00	\$9,810,201.00	\$9,530,000.00
<b>Total:</b>	<b>115</b>	<b>\$2,928,263.00</b>	<b>\$416,894,891.00</b>	<b>\$402,253,725.00</b>

## FIRE LOSS CATEGORY – IGNITING OBJECT DETAILED

<b>FIRE LOSS BY DEFINED IGNITING OBJECT - 2016</b>				
<b>Heating Equipment</b>	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value At Risk</b>	<b>Insurance Coverage</b>
Central Heating Unit	3	\$7,683.00	\$31,760,000.00	\$30,600,000.00
Portable Space Heater	2	\$67,100.00	\$70,600.00	\$0.00
Chimney	1	\$170.00	\$377,000.00	\$0.00
Unclassified/Unknown	2	\$10,500.00	\$1,315,500.00	\$1,265,500.00
<b>Total:</b>	<b>8</b>	<b>\$85,453.00</b>	<b>\$33,523,100.00</b>	<b>\$31,865,500.00</b>

## FIRE LOSS CATEGORY – IGNITING OBJECT DETAILED

<b>FIRE LOSS BY DEFINED IGNITING OBJECT - 2016</b>				
<b>Smoker's Material &amp; Open Flame</b>	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value At Risk</b>	<b>Insurance Coverage</b>
Match or Lighter	48	\$2,465,515.00	\$78,909,074.00+	\$73,677,009.00
Cigarette, Cigar	9	\$50,605.00	\$5,263,000.00	\$3,750,000.00
Torch (Other Than Cutting)	1	\$17,000.00	\$500,000.00	\$500,000.00
Hot Ashes, Ambers	1	\$0.00	\$0.00	\$0.00
Candle	2	\$3,050.00	\$800,000.00	\$0.00
Lantern, Lamp	2	\$2,500.00	\$4,000.00	\$0.00
Unclassified or Unknown	2			\$0.00
<b>Total:</b>	<b>65</b>	<b>\$2,538,670.00</b>	<b>\$85,476,074.00</b>	<b>\$77,927,009.00</b>



## FIRE LOSS CATEGORY – IGNITING OBJECT DETAILED

<b>FIRE LOSS BY DEFINED IGNITING OBJECT - 2016</b>				
<b>Cooking Equipment</b>	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value At Risk</b>	<b>Insurance Coverage</b>
<b>Stove, Range, Top Burner Area</b>	16	\$137,368.00	\$202,960,863.00	\$199,600,863.00
<b>Oven of Stove</b>	2	\$50.00	\$6,550,000.00	\$6,100,000.00
<b>Other Electric Appliances</b>	4	\$3,800.00	\$20,475,420.00	\$20,095,420.00
<b>Other Portable Cooking Unit – Hot Plate, Camp Stove, Smoker, Unknown</b>	5	\$11,300.00	\$466,300.00	\$450,000.00
<b>Total:</b>	27	\$152,518.00	\$230,452,583.00	\$226,246,283.00

## FIRE LOSS CATEGORY – IGNITING OBJECT DETAILED

<b>FIRE LOSS BY DEFINED IGNITING OBJECT - 2016</b>				
<b>Appliances &amp; Equipment</b>	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value At Risk</b>	<b>Insurance Coverage</b>
<b>Dryer and Washing Machines</b>	1	\$2,000.00	\$1,114,500.00	\$1,114,500.00
<b>Hair Dryer</b>	1	\$34,272.00	\$4,000.00	\$0.00
<b>Heat Trace Tape</b>	1	\$4,000.00	\$7,500,000.00	\$7,500,000.00
<b>Total:</b>	3	\$40,272.00	\$8,618,500.00	\$8,614,500.00

## FIRE LOSS CATEGORY – IGNITING OBJECT DETAILED

<b>FIRE LOSS BY DEFINED IGNITING OBJECT - 2016</b>				
<b>Electrical Distribution Equipment</b>	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value At Risk</b>	<b>Insurance Coverage</b>
<b>Electrical Wiring – Junction Boxes, Panel</b>	3	\$500.00	\$6,883,433.00	\$6,883,433.00
<b>Electrical Equipment – Panel Board</b>	1	\$3,500.00	\$41,600,000.00	\$41,100,000.00
<b>Total:</b>	4	\$3,500.00	\$48,483,433.00	\$47,983,433.00

## FIRE LOSS CATEGORY – IGNITING OBJECT DETAILED

<b>FIRE LOSS BY DEFINED IGNITING OBJECT - 2016</b>				
Other Electrical Equipment	# of Fires	Dollar Loss	Dollar Value At Risk	Insurance Coverage
Electrical Equipment Unclassified/Unknown	3	\$88,000.00	\$531,000.00	\$87,000.00
<b>Total:</b>	3	\$88,000.00	\$531,000.00	\$87,000.00

## FIRE LOSS CATEGORY – IGNITING OBJECT DETAILED

<b>FIRE LOSS BY DEFINED IGNITING OBJECT - 2016</b>				
Miscellaneous – Unknown	# of Fires	Dollar Loss	Dollar Value At Risk	Insurance Coverage
Internal Combustion Engine – Includes Exhaust System	2	\$12,250.00	\$230,201.00	\$230,000.00
Spontaneous Combustion	1	\$600.00	\$6,000,000.00	\$6,000,000.00
Unclassified - Unknown	2	\$7,000.00	\$3,580,000.00	\$3,300,000.00
<b>Total:</b>	5	\$19,850.00	\$9,810,201.00	\$9,530,000.00



2016 Nunavut Firefighter Games Competition, Iqaluit

## FIRE LOSS CATEGORY – ACT OR OMISSION

<b>COMBINED FIRE LOSS BY ACT OR OMISSION – 2016</b>				
<b>Causes</b>	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value at Risk</b>	<b>Insurance Coverage</b>
Incendiary Fires	46	\$935,515.00	\$79,254,074.00	\$74,208,009.00
Misuse of Source of Ignition	12	\$82,605.00	\$6,163,000.00	\$4,250,000.00
Misuse of Material Ignited	4	\$10,100.00	\$957,600.00	\$950,000.00
Mechanical/Electrical Failure/Malfunction	16	\$206,175.00	\$90,306,634.00	\$88,780,433.00
Human Failing	30	\$182,068.00	\$228,459,583.00	\$223,421,283.00
Construction Design or Installation Deficiency	1	\$200.00	\$670,000.00	\$0.00
Miscellaneous Act or Omission & Unknown	6	\$1,511,600.00	\$11,084,000.00	\$10,644,000.00
<b>Total:</b>	<b>115</b>	<b>\$2,928,263.00</b>	<b>\$416,894,891.00</b>	<b>\$402,253,725.00</b>

## FIRE LOSS CATEGORY – ACT OR OMISSION

<b>FIRE LOSS BY DEFINED ACT OR OMISSION - 2016</b>				
<b>Incendiary Fires</b>	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value At Risk</b>	<b>Insurance Coverage</b>
Incendiary Fire	23	\$781,250.00	\$37,320,501.00	\$33,861,701.00
Incendiary - Child	2	\$1,100.00	\$350,000.00	\$0.00
Suspicious	18	\$153,165.00	\$41,583,573.00	\$40,346,308.00
Not Determined	3	\$0.00	\$0.00	\$0.00
<b>Total:</b>	<b>46</b>	<b>\$935,515.00</b>	<b>\$79,254,074.00</b>	<b>\$74,208,009.00</b>

## FIRE LOSS CATEGORY – ACT OR OMISSION

<b>FIRE LOSS BY DEFINED ACT OR OMISSION - 2016</b>				
<b>Misuse of Source of Ignition</b>	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value At Risk</b>	<b>Insurance Coverage</b>
Smoker's Material	9	\$50,605.00	\$5,263,000.00	\$3,750,000.00
Welding or Cutting Too Close	1	\$17,000.00	\$500,000.00	\$500,000.00
Playing With Source of Ignition	1	\$15,000.00	\$400,000.00	\$0.00
Inadequate Control of Open Fire	1	\$0.00	\$0.00	\$0.00
<b>Total:</b>	<b>12</b>	<b>\$82,605.00</b>	<b>\$6,163,000.00</b>	<b>\$4,250,000.00</b>

## FIRE LOSS CATEGORY – ACT OR OMISSION

<b>FIRE LOSS BY DEFINED ACT OR OMISSION - 2016</b>				
<b>Mechanical/Electrical Failure/Malfunction</b>	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value At Risk</b>	<b>Insurance Coverage</b>
Part Failure, Leak, Break	5	\$68,420.00	\$1,833,701.00	\$1,431,500.00
Electrical Short Circuit	6	\$56,772.00	\$56,002,433.00	\$55,483,433.00
Part Worn Out	2	\$10,500.00	\$1,315,500.00	\$1,265,500.00
Engine Backfire	2	\$7,483.00	\$31,090,000.00	\$30,600,000.00
Unknown/Unclassified	1	\$63,000.00	\$65,000.00	\$0.00
<b>Total:</b>	<b>16</b>	<b>\$206,175.00</b>	<b>\$90,306,634.00</b>	<b>\$88,780,433.00</b>

## FIRE LOSS CATEGORY – ACT OR OMISSION

<b>FIRE LOSS BY DEFINED ACT OR OMISSION - 2016</b>				
<b>Human Failing</b>	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value At Risk</b>	<b>Insurance Coverage</b>
Suspected Impairment – Use of Drugs, Alcohol	5	\$46,200.00	\$36,726,000.00	\$35,900,000.00
Ignorance of Hazard	13	\$17,050.00	\$43,614,359.00	\$42,569,559.00
Asleep	1	\$100.00	\$800,000.00	\$0.00
Distracted, Preoccupied	5	\$7,200.00	\$130,101,724.00	\$128,851,724.00
Accident	6	\$111,518.00	\$17,217,500.00	\$16,100,000.00
<b>Total:</b>	<b>30</b>	<b>\$182,068.00</b>	<b>\$228,459,583.00</b>	<b>\$223,421,283.00</b>

## FIRE LOSS CATEGORY – ACT OR OMISSION

<b>FIRE LOSS BY DEFINED ACT OR OMISSION - 2016</b>				
<b>Misuse of Material Ignited</b>	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value At Risk</b>	<b>Insurance Coverage</b>
Combustible Too Close to Heat	2	\$4,600.00	\$455,600.00	\$450,000.00
Overheated Cooking Oil	2	\$5,500.00	\$502,000.00	\$500,000.00
<b>Total:</b>	<b>4</b>	<b>\$10,100.00</b>	<b>\$957,600.00</b>	<b>\$950,000.00</b>

## FIRE LOSS CATEGORY – ACT OR OMISSION

<b>FIRE LOSS BY DEFINED ACT OR OMISSION - 2016</b>				
<b>Miscellaneous Act or Omission or Unknown</b>	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value At Risk</b>	<b>Insurance Coverage</b>
Unknown/Undetermined	6	\$1,511,600.00	\$11,084,000.00	\$10,644,000.00
<b>Total:</b>	<b>6</b>	<b>\$1,511,600.00</b>	<b>\$11,084,000.00</b>	<b>\$10,644,000.00</b>

## FIRE LOSS CATEGORY – ACT OR OMISSION

<b>FIRE LOSS BY DEFINED ACT OR OMMISON - 2016</b>				
Construction Design or Installation Deficiency	# of Fires	Dollar Loss	Dollar Value At Risk	Insurance Coverage
<b>Too Close To Combustibles</b>	1	\$200.00	\$670,000.00	\$0.00
<b>Total:</b>	1	\$200.00	\$670,000.00	\$0.00



A shed and adjacent building are damaged due to fire. It should be noted that the shed is positioned very closely to the building.



A fire in an empty crate damaged a commercial building. This could have been avoided with proper disposal of the crate.



## FIRE LOSS CATEGORY DETAILS – CASUALTIES BY PROPERTY CLASSIFICATION

<b>CASUALTIES BY PROPERTY CLASSIFICATION - 2016</b>					
Category:	# of Fires	Firefighter/ Civilian	Male/ Female	Adult Youth/Child	Injury/ Death
Assembly	11	0	0	0	0
Institutional	3	0	0	0	0
Residential	43	10 - Civilians 1 - Firefighter	6 - Male 5 - Females	3 - Children 1 - youth 7 - Adults	6 - Minor 4 - Light 1 - Serious
Ground Transport Vehicles	5	1 - Civilian	1 - Male	1 - Adult	1 - Light
Special Vehicles	4	0	0	0	0
Vehicle Storage	1	0	0	0	0
Miscellaneous Storage Properties (Warehouses)	3	1 - Firefighter	1 - Male	1 - Adult	1 - Minor
Miscellaneous (Unclassified)	2	0	0	0	0
Miscellaneous (Shed)	16	2 - Civilians	2 - Male	2 - Adults	1 - Minor 1 - Serious
Outdoor Property (Trash)	16	0	0	0	0
Outdoor Property (Grass)	1	0	0	0	0
Outdoor Property (Dumps)	9	0	0	0	0
Food, Beverage, Sale	1	0	0	0	0
<b>Total:</b>	<b>115</b>	<b>13 - Civilians 2 - Firefighters</b>	<b>10 - Male 5 - Female</b>	<b>3 - Children 1 - Youth 11 - Adults</b>	<b>8 - Minor 5 - Light 2 - Serious</b>



**Members of the Pangnirtung Fire Department.**

## FIRE LOSS CATEGORY DETAILS – CASUALTIES BY ACT OR OMISSION

<b>CASUALTIES BY ACT OR OMISSION - 2016</b>					
Causes:	# of Fires	Firefighter/ Civilian	Male/ Female	Adult Youth/Child	Injury/ Death
<b>Incendiary</b>		8 - Civilians	4 - Male 4 - Female	3 - Children 1 - Youth 4 - Adults	2 - Minor 4 - Light 2 - Serious
<b>Misuse of Source of Ignition</b>		1 - Civilian 1 - Firefighter	2 - Male	2 - Adults	2 - Minor
<b>Misuse of Material Ignited</b>		0	0	0	0
<b>Mechanical/Electrical Failure/Malfunction</b>		0	0	0	0
<b>Human Failing</b>		4 - Civilians 1 - Firefighter	4 - Male 1 - Female	5 - Adults	4 - Minor 1 - Light
<b>Construction Design or Installation Deficiency</b>	1	0	0	0	0
<b>Miscellaneous Act or Omission and Unknown</b>		0	0	0	0
<b>Total:</b>	<b>115</b>	<b>13 - Civilians 2 - Firefighters</b>	<b>10 - Male 5 - Female</b>	<b>3 - Children 1 - Youth 11 - Adults</b>	<b>8 - Minor 5 - light 2 - Serious</b>



**2016 Nunavut Firefighter Games Team.**

## FIRE LOSS CATEGORY DETAILS – CASUALTIES BY IGNITING OBJECT

<b>CASUALTIES BY IGNITING OBJECT - 2016</b>					
<b>Equipment or Component:</b>	<b># of Fires</b>	<b>Firefighter/ Civilian</b>	<b>Male/ Female</b>	<b>Adult Youth/Child</b>	<b>Injury/ Death</b>
<b>Cooking Equipment</b>	27	2 - Civilians 1 - Firefighter	2 - Male 1 - Female	3 - Adults	3 - Minor
<b>Heating Equipment</b>	8	0	0	0	0
<b>Appliances and Equipment</b>	3	0	0	0	0
<b>Electrical Distribution Equipment</b>	4	0	0	0	0
<b>Other Electrical Equipment</b>	3	1 - Civilian	1 - Male	1 - Adult	1 - Minor
<b>Smoker's Material and Open Flame</b>	65	10 - Civilians 1 - Firefighter	7 - Male 4 - Females	3 - Children 1 - Youth 7 - Adults	4 - Minor 5 - Light 2 - Serious
<b>Misc./Unknown</b>	5	0	0	0	0
<b>Total:</b>		13 - Civilians 2 - Firefighters	10 - Male 5 - Female	3 - Children 1 - youth 11 - Adults	8 - Minor 5 - Light 2 - Serious



Firefighter Level 1 training, Rankin Inlet.

## FIRE LOSS CATEGORY DETAILS – TIME OF YEAR

<b># OF FIRES BY MONTH - 2016</b>				
Month:	# of Fires Baffin Region	# of Fires Kivalliq Region	# of Fires Kitikmeot Region	# of Fires Per Month
January	2	1	4	7
February	2	1	1	4
March	7	3	1	11
April	5	2	0	7
May	5	2	1	8
June	13	1	2	16
July	6	0	2	8
August	16	3	1	20
September	11	1	1	13
October	6	3	0	9
November	3	0	0	3
December	8	1	0	9
<b>Total:</b>	<b>84</b>	<b>18</b>	<b>13</b>	<b>115</b>

## FIRE LOSS CATEGORY DETAILS – TIME OF DAY

<b># OF FIRES BY TIME OF DAY - 2016</b>				
Time of Day:	# of Fires Baffin Region	# of Fires Kivalliq Region	# of Fires Kitikmeot Region	Total # of Fires Per Time Period
<b>0:00 – 08:00</b>	27	3	5	35
<b>08:00 – 18:00</b>	23	5	3	31
<b>18:00 – 24:00</b>	34	10	5	49
<b>Total:</b>	<b>84</b>	<b>18</b>	<b>13</b>	<b>115</b>



Firefighter Level 1 training, Rankin Inlet.

## FIRE LOSS CATEGORY DETAILS –FIRES BY COMMUNITY

<b>FIRE BY COMMUNITY – 2016</b>				
Community:	# of Fires	Dollar Loss	Dollar Value At Risk	Insurance Coverage
Arctic Bay	2	\$15,000.00	\$400,000.00	\$0.00
Cape Dorset	10	\$4,550.00	\$52,339,435.00	\$52,307,885.00
Clyde River	2	\$120,100.00	\$780,000.00	\$0.00
Grise Fiord	0	\$0.00	\$0.00	\$0.00
Hall Beach	1	\$4,100.00	\$5,600.00	\$0.00
Igloolik	4	\$432,500.00	\$1,541,500.00	\$0.00
Iqaluit	42	\$138,972.00	\$242,379,498.00	\$239,623,148.00
Kimmirut	0	\$0.00	\$0.00	\$0.00
Pangnirtung	3	\$350.00	\$2,606,850.00	\$2,606,700.00
Pond Inlet	10	\$31,565.00	\$25,295,735.00	\$23,396,420.00
Qikiqtarjuaq	2	\$120,000.00	\$325,000.00	\$0.00
Resolute Bay	0	\$0.00	\$0.00	\$0.00
Sanikiluaq	8	\$22,500.00	\$16,840,000.00	\$14,600,000.00
<b>Total Baffin Region</b>	<b>84</b>	<b>\$889,637.00</b>	<b>\$342,513,618.00</b>	<b>\$332,534,153.00</b>
Arviat	7	\$48,306.00	\$38,025,000.00	\$35,850,000.00
Baker Lake	1	\$0.00	\$0.00	\$0.00
Chesterfield Inlet	1	\$5,000.00	\$5,000.00	\$0.00
Coral Harbour	0	\$0.00	\$0.00	\$0.00
Rankin Inlet	5	\$1,625,000.00	\$5,805,139.00	\$5,555,139.00
Repulse Bay	2	\$170.00	\$4,127,000.00	\$3,500,000.00
Whale Cove	2	\$1,100.00	\$350,000.00	\$0.00
<b>Total Kivalliq Region</b>	<b>18</b>	<b>\$1,679,576.00</b>	<b>\$48,312,139.00</b>	<b>\$44,905,139.00</b>
Cambridge Bay	4	\$15,700.00	\$11,454,733.00	\$11,354,733.00
Gjoa Haven	3	\$10,000.00	\$407,000.00	\$0.00
Kugaaruk	2	\$20,500.00	\$9,364,700.00	\$9,364,700.00
Kugluktuk	2	\$303,000.00	\$615,000.00	\$115,000.00
Taloyoak	2	\$9,850.00	\$4,227,701.00	\$3,980,000.00
<b>Total Kitikmeot Region</b>	<b>13</b>	<b>\$359,050.00</b>	<b>\$26,069,134.00</b>	<b>\$24,814,433.00</b>
<b>Nunavut Total:</b>	<b>115</b>	<b>\$2,928,263.00</b>	<b>\$416,894,891.00</b>	<b>\$402,253,725.00</b>



## Fire Prevention Inspections

The Office of the Fire Marshal staff continues to visit communities to address fire prevention issues. During their visits, the Assistant Fire Marshals performed 1,355 fire prevention inspections in the following locations:

- Inspections on critical community infrastructure and high life safety risk buildings (schools, health facilities, arenas, community centres, daycares, power-generating facilities);
- Inspections on other public and high fire hazard potential buildings (hotels, restaurants, Hamlet buildings, retail stores, maintenance workshops, warehouses);
- Inspections on multi-family housing units (duplexes and larger – mechanical rooms and common areas); and
- Inspections and equipment audits on community fire halls, fire trucks, and equipment.



Left: The emergency lights are pointed in the wrong direction.  
Right: The holes in the fire separation wall are hazards.

## Code Enforcement Plan Reviews

To safeguard people and property, the Office of the Fire Marshal has reviewed plans and specifications for the construction, alteration or repair of structures or premises to determine that the proper precautions are taken against fire and the spread of fire. This will include:

- Reviewing building plans and specifications for new construction and major renovations to ensure conformance to the adopted Codes and Standards; and
- Inspecting building under construction to ensure that they conform to the adopted Codes and Standards.

# **FIRE PROTECTION STRATEGY UPDATE**

## **Fire Equipment Contributions**

The Assistant Fire Marshal complete equipment audits during community visits to inventory and record the condition of the equipment that the department has received. The audits also document fire hall design and condition, as well as fire truck specifications and condition. These audits determined the overall status of fire departments and if additional equipment is required. The following equipment has been provided due to the audits:

- Replacement of worn/damaged protective clothing (bunker gear, gloves, boots, helmets, etc.) from regional warehouse stock;
- Replacement of worn/damaged firefighting equipment (hoses, gated wyes valves and nozzles) infrom regional warehouse stock;
- Replacement parts for Draeger self-contained breathing apparatus (masks, straps, etc.) for all departments; and
- Replacement of damaged/unserviceable radios and pagers as well as repair services for inoperable units.



**New Draeger SCBA mask.**

## Fire Truck Replacement

- The annual capital budget for fire truck replacement is currently \$500,000.
- All firefighting apparatus must meet the Underwriter's Laboratories of Canada (ULC) Standard S-515 for firefighting apparatus for the construction, design equipment and testing.
- As funding becomes available, community fire trucks will be replaced prior to the fire truck reaching the Underwriter's Laboratories of Canada (ULC) replacement date of twenty (20) years.
- CGS has a replacement schedule for all community fire trucks based primarily on age and condition in place.



**New fire truck, Rankin Inlet**

## **Fire Prevention and Public Education:**

In the continuous effort to eliminate fire losses in Nunavut, the Office of the Fire Marshal provides fire prevention programs and information to fire departments and communities. These fire prevention programs are a valuable part of the Office of the Fire Marshal's mandate to eliminate losses due to fires in the Territory. The following points highlight the results of the 2016 fire prevention program;

- **Fire Prevention Coloring Contest:**

- The contest received 783 Fire Prevention posters and coloring templates from eleven schools from across the Territory;
- Cash prizes for the winners were sent to the applicable District Education Authority for use in student activity programs; and
- The winning entries also received personal gift certificates.

- **Fire Prevention Week and Activities:**

- A number of fire departments provided fire prevention activities in their respective communities (fire hall tours, fire prevention sessions in schools, open houses and firefighter recognition gatherings); and
- Some fire prevention giveaways were sent to fire departments to assist them in their fire prevention presentations.



**Fire Prevention Week colouring contest winner.**



## Fire Prevention and Public Education:

- **Fire Prevention Annual Calendar:**

- Monthly fire prevention tips;
- Pictures of firefighter training sessions; and
- Fire prevention drawings from the school fire prevention contest.

- **Fire Prevention Workshop:**

- A 5-day workshop was organized in Iqaluit;
- About 5 Firefighters from across the Territory participated;
- They were interested in learning more about fire prevention and practising their presentations;
- Firefighters were introduced to learning techniques and how to present information to a wide array of audiences; and
- The session was well accepted and the firefighters who participated became more comfortable doing fire prevention sessions in their home communities.



**Fire prevention presentation, Iqaluit Elder's Centre.**



# FIREFIGHTER RECOGNITION PROGRAM

The commitment required to become an effective firefighter is quite significant and is encouraged through the Firefighter Recognition Program. This program promotes and assists with developing greater appreciation of the efforts of people who contribute to firefighting in Nunavut. This program was implemented to provide token awards that recognize the contribution of those who serve as volunteers. Fire departments are encouraged to submit volunteer member names and years of service in support of this program.

## Service Pins

**5 Year Service Recognition:**



**10 Year Service Recognition:**



**15 Year Service Recognition:**



**20 Year Service Recognition:**



**25 Year Service Recognition:**



**30 Year Service Recognition:**



## Years of Service Oak Recognition Plaque



# Fire Services Exemplary Service Medal

A person may be awarded the Medal if the person:

- (a) was a member of a fire service on or after August 29, 1985;
- (b) has completed 20 years as a member of a fire service, of which at least 10 years have been served in the performance of duties involving potential risk;
- (c) has a record of exemplary service during the required period;
- (d) has had no serious disciplinary action taken against him or her during that period and has none pending; and
- (e) has been awarded the Medal and is eligible to be awarded a bar in respect of each additional 10-year period of service in a fire service after the initial 20-year period.

To be eligible for this medal, the firefighter's information must be submitted to the Office of the Marshal for consideration. This must be done by the Fire Chief or community representative once the required time has been met. The Office of the Fire Marshal reviews submissions for eligibility and submits the applications to the Director, Honours, The Chancellery of Honours.

There had been 12 medals award previously. In 2016 there were 27 fire fighters throughout of Nunavut who received the Fire Services Exemplary Service Medal for 20 years of service and 10 who also received their bar for 30 years of service.



**Fire Services Exemplary Service Medal presentation in Clyde River.**

## 2016 FIRE SERVICE TRAINING

With the continued partnership with the Nunavut Municipal Training Organization (MTO) there were 20 fire service training courses provided in 2016, which involved 178 firefighters. This provided for 10 community-based General Level courses and 10 Territorial-based courses. Included in these training courses were the Nunavut Firefighter Competition and the National Aboriginal Firefighter Competition.



**Firefighter Level 1 training, Rankin Inlet.**



**Firefighter Level 2 training, Iqaluit.**

## Fire Service Training Courses

<b>The following is a list of training courses that were offered in 2016 by the Office of the Fire Marshal in partnership with the Municipal Training Organization.</b>			
<b>Community Based Courses</b>	<b>Training Location</b>	<b>Dates of Courses</b>	<b># of Students</b>
General Level Firefighting Course	Cape Dorset	May 24 – 28	5
General Level Firefighting Course	Chesterfield Inlet	June 20 – 24	6
General Level Firefighting Course	Coral Harbour	August 8 – 12	4
General Level Firefighting Course	Gjoa Haven	May 17 – 21	7
General Level Firefighting Course	Grise Fiord	June 6 – 10	4
General Level Firefighting Course	Pangnirtung	July 18 – 22	16
General Level Firefighting Course	Pond Inlet	April 26 – 30	7
General Level Firefighting Course	Resolute Bay	June 13 – 17	8
General Level Firefighting Course	Sanikiluaq	June 26 – 30	10
General Level Firefighting Course	Taloyoak	May 23 – 27	3
<b>General Level Total:</b>			<b>70</b>
<b>Territorial Based Courses</b>			
<b>Territorial Based Courses</b>	<b>Training Location</b>	<b>Dates of Courses</b>	<b># of Student</b>
Fire Prevention Workshop	Iqaluit	March 8 – 12	4
Fire Inspector NFPA 1031	Iqaluit	February 19 – 27	9
Fire Service Instructor Level 1 NFPA 1041	Iqaluit	March 14 – 18	5
Nunavut Firefighter Competition	Iqaluit	August 1 – 7	23
National Aboriginal Firefighter Competition	Grand River, Ontario	August 8 – 14	6
Jordair Air Compressor Maintenance	Iqaluit	May 11	8
Nunavut Firefighter Level 1	Iqaluit	August 23 – September 1	13
Nunavut Firefighter Level 1	Rankin Inlet	September 13 – 22	22
Nunavut Firefighter Level 2	Iqaluit	October 11 – 18	11
Pump A Operations	Rankin Inlet	October 11 – 18	7
<b>Total:</b>			<b>108</b>
<b>GRAND TOTAL:</b>			<b>178</b>



## 2016 National Aboriginal Firefighter Competition

From August 1 – 7, 2016, 23 firefighters from across the Territory gathered in Iqaluit to participate in the 11<sup>th</sup> Annual Nunavut Firefighter Competition. Firefighters practised the progressive levels of basic firefighting, which are designed to add to their skills during firefighting operations. After four days of practice, a team of six firefighters was selected by their peers to represent Nunavut at the National Aboriginal Firefighter Competition.

The annual National Aboriginal Firefighter Competition for 2016 was held from August 8 - 14, 2016, at Grand River, Ontario. This was the 11<sup>th</sup> year that Nunavut participated in the competition. It was a four-day event, with one day for sports activities, two days of training and one day for the competition. The Nunavut team finished in fifth place out of eight teams; with the committed teamwork, inspiration and assistance they showed to their fellow firefighters and competitors, our firefighting team earned the Max McNeill Award for Most Sportsmanlike Team for the ninth time in eleven years at the competition.

Through participation in the competition events, Nunavut's firefighters come together from across the territory to take part in additional training, skills development and team-building. Nunavut firefighting teams have represented the Territory very well at the national level and the competition has helped develop kinship within the Nunavut Fire Service.



**Team Nunavut at the National Aboriginal Firefighter Competition**