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Building *Nunavut* Together  
*Nunavut* iuqatigiingniq  
Bâtir le *Nunavut* ensemble



**Department of Community and Government Services**

**OFFICE OF THE FIRE MARSHAL  
2017 ANNUAL REPORT**

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## Message from the Minister



I am pleased to present the Office of the Fire Marshal 2017 Annual Report.

Losses due to fire are in many cases preventable. Fire Prevention is critical in avoiding loss of life, injury and damage in our homes, schools and public buildings.

Public awareness and education initiatives are key to ensuring that Nunavummiut have the right tools to make fire safe choices in their homes, schools and workplaces.

I would like to bestow my heartfelt gratitude to each and every firefighter 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.

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.

## **Message from the Office of the Fire Marshal**

The Office of the Fire Marshal's 2017 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.

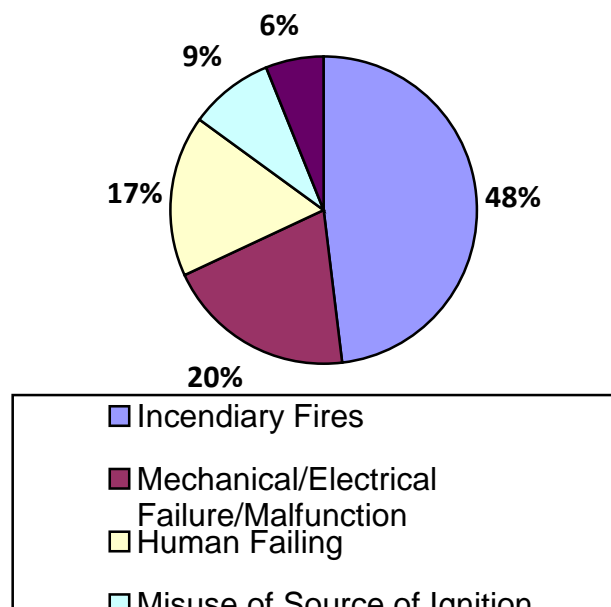
Michael Leduc  
Fire Marshal

## **2017 Territorial Fire Loss Summary**

In 2017, there were 135 reported fires in Nunavut. This is an increase from the previous year's total of 115 reported fires, and it is lower than the average of 137 fires over the last five years. In the last five years, the number of reported fires has been within the range of 115 to 161 per year. This includes all types of fires, small or large, regardless of response by the local fire department.

There were 19 casualties related to fires in the Territory in 2017, which included 4 fire related deaths. The total amount of actual fire loss in 2017 is \$41.78 million, which is much more than the \$2.92 million in losses for 2016. The total property value at risk was again over \$400 million.

### **Fire Cause**



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.

## 2013 – 2017 FIRE LOSS SUMMARY

Year	2017	2016	2015	2014	2013
Population	38,243	37,146	37,026	36,687	35,591
# of Fires	135	115	141	134	161
Deaths	4	0	5	1	1
Injuries	15	15	18	8	13
\$ Loss	\$41,781,679	\$2,928,623	\$44,560,547	\$5,415,166	\$4,386,188
\$ Loss Per Capita	\$1,092.54	\$78.84	\$1,203.50	\$147.61	\$123.24
Value at Risk	\$406,295,719	\$416,894,891	\$622,154,489	\$403,155,161	\$532,470,260

**2017 FIRE LOSS STATISTICS  
COMBINED FIRE LOSS CATEGORY DETAILS –  
PROPERTY CLASSIFICATION**

<b>COMBINED FIRE LOSS BY PROPERTY CLASSIFICATION - 2017</b>				
	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value at Risk</b>	<b>Insurance Coverage</b>
Assembly	5	\$36,130,164.00	\$120,640,898.00	\$120,640,898.00
Institutional	5	\$649,250.00	\$47,862,086.00	\$47,860,086.00
Residential	63	\$4,399,030.00	\$174,871,800.00	\$155,376,800.00
Ground Transport Vehicles	14	\$114,100.00	\$175,900.00	\$86,800.00
Special Vehicles	7	\$154,185.00	\$154,185.00	\$120,000.00
Vehicle Storage Property	1	\$11,000.00	\$662,000.00	\$662,000.00
Miscellaneous Storage Properties (Warehouses)	7	\$266,000.00	\$288,000.00	\$250,000.00
Miscellaneous Outbuildings (Shed)	12	\$42,400.00	\$1,182,900.00	\$0.00
Outdoor Property (Trash Bins)	4	\$3,500.00	\$47,239,700.00	\$47,236,200.00
Outdoor Property (Grass)	3	\$0.00	\$0.00	\$0.00
Outdoor Property (Dumps)	7	\$0.00	\$0.00	\$0.00
Outdoor Unclassified	5	\$8,000.00	\$58,000.00	\$0.00
Power Plant	1	\$50.00	\$8,660,250.00	\$8,660,250.00
Food, Beverage, Sale	1	\$4,000.00	\$4,500,000.00	\$4,500,000.00
<b>Total:</b>	<b>135</b>	<b>\$41,781,679.00</b>	<b>\$406,295,719.00</b>	<b>\$385,393,034.00</b>

**FIRE LOSS CATEGORY DETAILS – PROPERTY**

<b>DOLLAR LOSS BY BUILDING OCCUPANCY – 2017</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>	36	\$3,571,500.00	\$317,200.00	\$0.00	\$3,888,700.00
<b>GN Commercial Buildings (schools, general, vehicles)</b>	23	\$34,893,650.00	\$1,899,614.00	\$40,000.00	\$36,833,264.00
<b>Private Housing</b>	18	\$202,700.00	\$165,250.00	\$0.00	\$367,950.00
<b>Private Other (Sheds, Vehicles, Boats, RV's)</b>	35	\$122,600.00	\$182,585.00	\$168,000.00	\$473,185.00
<b>Private Commercial</b>	7	\$54,100.00	\$20,280.00	\$50,000.00	\$124,380.00
<b>Municipal (Garages,Dumps)</b>	16	\$67,700.00	\$26,500.00	\$0.00	\$94,200.00
<b>Total:</b>	<b>135</b>	<b>\$38,912,250.00</b>	<b>\$2,611,429.00</b>	<b>\$258,000.00</b>	<b>\$41,781,679.00</b>

## FIRE LOSS CATEGORY DETAILS – PROPERTY

<b>VALUES AT RISK BY BUILDING OCCUPANCY - 2017</b>					
Type of Building	# of Fires	Value at Risk Building	Value at Risk Contents	Value at Risk Vehicles	Total Value at Risk
<b>GN Housing</b>	36	\$52,339,200.00	\$4,190,000.00	\$0.00	\$56,529,200.00
<b>GN Commercial</b>	23	\$203,741,562.00	\$16,686,622.00	\$529,850.00	\$220,958,034.00
<b>Private Housing</b>	18	\$41,547,600.00	\$3,868,900.00	\$0.00	\$45,416,500.00
<b>Private Other</b>	35	\$154,300.00	\$207,085.00	\$181,000.00	\$542,385.00
<b>Private Commercial</b>	7	\$66,002,000.00	\$6,901,500.00	\$50,000.00	\$72,953,500.00
<b>Municipal</b>	16	\$9,255,100.00	\$341,000.00	\$300,000.00	\$9,896,100.00
<b>Total:</b>	135	\$373,039,762.00	\$32,195,107.00	\$1,060,850.00	\$406,295,719.00

## FIRE LOSS CATEGORY DETAILS – PROPERTY

<b>INSURANCE DOLLARS BY BUILDING OCCUPANCY - 2017</b>					
Type of Building	# of Fires	Insurance \$ Building	Insurance \$ Contents	Insurance \$ Vehicles	Total \$ Insurance
<b>GN Housing</b>	36	\$40,289,200.00	\$690,000.00	\$0.00	\$40,979,200.00
<b>GN Commercial</b>	23	\$202,679,062.00	\$16,310,622.00	\$367,750.00	\$219,357,434.00
<b>Private Housing</b>	18	\$39,582,600.00	\$2,278,900.00	\$0.00	\$41,861,500.00
<b>Private Other</b>	35	\$137,800.00	\$160,000.00	\$109,000.00	\$406,800.00
<b>Private Commercial</b>	7	\$66,000,000.00	\$6,900,000.00	\$50,000.00	\$72,950,000.00
<b>Municipal</b>	16	\$9,197,100.00	\$341,000.00	\$300,000.00	\$9,838,100.00
<b>Total:</b>	135	\$357,885,762.00	\$26,680,522.00	\$826,750.00	\$385,393,034.00

## FIRE LOSS CATEGORY- IGNITING OBJECT

<b>COMBINED FIRE LOSS BY IGNITING OBJECT - 2017</b>				
Equipment or Component	# of Fires	Dollar Loss	Dollar Value At Risk	Insurance Coverage
<b>Cooking Equipment</b>	15	\$169,350.00	\$22,213,400.00	\$18,931,500.00
<b>Heating Equipment</b>	9	\$1,493,500.00	\$16,298,100.00	\$14,797,600.00
<b>Appliances &amp; Equipment</b>	12	\$128,685.00	\$76,447,585.00	\$74,223,900.00
<b>Electrical Distribution Equipment</b>	2	\$57,180.00	\$15,203,500.00	\$15,200,000.00
<b>Other Electrical Equipment</b>	5	\$69,300.00	\$25,525,200.00	\$24,703,200.00
<b>Smoker's Material and Open Flame</b>	74	\$39,659,114.00	\$229,328,541.00	\$216,825,441.00
<b>Exposure</b>	2	\$4,000.00	\$15,000.00	\$0.00
<b>Miscellaneous &amp; Unknown</b>	16	\$200,550.00	\$21,264,393.00	\$20,711,393.00
<b>Total:</b>	135	\$41,781,679.00	\$406,295,719.00	\$385,393,034.00



## FIRE LOSS CATEGORY – IGNITING OBJECT DETAILED

<b>FIRE LOSS BY DEFINED IGNITING OBJECT - 2017</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	2	\$86,000.00	\$1,005,000.00	\$1,005,000.00
Space Heater	2	\$20,900.00	\$13,856,500.00	\$13,200,000.00
Portable Space Heater	2	\$9,000.00	\$9,000.00	\$0.00
Chimney	1	\$25,000.00	\$75,000.00	\$0.00
Water Heater	1	\$592,600.00	\$592,600.00	\$592,600.00
Unclassified/Unknown	1	\$760,000.00	\$760,000.00	\$0.00
<b>Total:</b>	<b>9</b>	<b>\$1,493,500.00</b>	<b>\$16,298,100.00</b>	<b>\$14,797,600.00</b>

## FIRE LOSS CATEGORY – IGNITING OBJECT DETAILED

<b>FIRE LOSS BY DEFINED IGNITING OBJECT - 2017</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	63	\$38,595,014.00	\$213,556,041.00	\$203,600,441.00
Cigarette, Cigar	8	\$538,600.00	\$11,787,000.00	\$9,600,000.00
Torch (Other Than Cutting)	1	\$135,000.00	\$2,025,000.00	\$1,875,000.00
Lantern, Lamp	1	\$10,500.00	\$10,500.00	\$0.00
Unclassified or Unknown	1	\$380,000.00	\$1,950,000.00	\$1,750,000.00
<b>Total:</b>	<b>74</b>	<b>\$39,659,114.00</b>	<b>\$229,328,541.00</b>	<b>\$216,825,441.00</b>

## FIRE LOSS CATEGORY – IGNITING OBJECT DETAILED

<b>FIRE LOSS BY DEFINED IGNITING OBJECT - 2017</b>				
<b>Cooking Equipment</b>	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value At Risk</b>	<b>Insurance Coverage</b>
Stove, Range, Top Burner Area	8	\$160,850.00	\$20,106,500.00	\$18,931,500.00
Oven of Stove	3	\$1,100.00	\$1,350,000.00	\$0.00
Other Portable Cooking Unit – Hot Plate, Camp Stove, Smoker, Unknown	4	\$7,400.00	\$756,900.00	\$0.00
<b>Total:</b>	<b>15</b>	<b>\$169,350.00</b>	<b>\$22,213,400.00</b>	<b>\$18,931,500.00</b>

## FIRE LOSS CATEGORY – IGNITING OBJECT DETAILED

<b>FIRE LOSS BY DEFINED IGNITING OBJECT - 2017</b>				
Appliances & Equipment	# of Fires	Dollar Loss	Dollar Value At Risk	Insurance Coverage
Dryer and Dish Washer	4	\$24,000.00	\$52,100,000.00	\$51,000,000.00
Interior Heaters	2	\$76,000.00	\$1,001,100.00	\$986,100.00
Unclassified or Unknown	6	\$28,685.00	\$23,346,485.00	\$22,237,800.00
<b>Total:</b>	<b>12</b>	<b>\$128,685.00</b>	<b>\$76,447,585.00</b>	<b>\$74,223,900.00</b>

## FIRE LOSS CATEGORY – IGNITING OBJECT DETAILED

<b>FIRE LOSS BY DEFINED IGNITING OBJECT - 2017</b>				
Electrical Distribution Equipment	# of Fires	Dollar Loss	Dollar Value At Risk	Insurance Coverage
Electrical Wiring – Junction Boxes, Panel	1	53,680.00	\$15,200,000.00	\$15,200,000.00
Electrical Equipment – Chord	1	\$3,500.00	\$3,500.00	\$0.00
<b>Total:</b>	<b>2</b>	<b>\$57,180.00</b>	<b>\$15,203,500.00</b>	<b>\$15,200,000.00</b>

## FIRE LOSS CATEGORY – IGNITING OBJECT DETAILED

<b>FIRE LOSS BY DEFINED IGNITING OBJECT - 2017</b>				
Other Electrical Equipment	# of Fires	Dollar Loss	Dollar Value At Risk	Insurance Coverage
Light Fixture	3	\$2,300.00	\$2,005,000.00	\$1,200,000.00
Electronic Communication Equip.	1	\$50,000.00	\$23,503,200.00	\$23,503,200.00
Electric Motor Under 1 HP	1	\$17,000.00	\$17,000.00	\$0.00
<b>Total:</b>	<b>5</b>	<b>\$69,300.00</b>	<b>\$25,525,200.00</b>	<b>\$24,703,200.00</b>

## FIRE LOSS CATEGORY – IGNITING OBJECT DETAILED

<b>FIRE LOSS BY DEFINED IGNITING OBJECT - 2017</b>				
Exposure	# of Fires	Dollar Loss	Dollar Value At Risk	Insurance Coverage
Exposure to Open Fire	1	\$4,000.00	\$15,000.00	\$0.00
Exposure to Vehicle	1	\$0.00	\$0.00	\$0.00
<b>Total:</b>	<b>2</b>	<b>\$4,000.00</b>	<b>\$15,000.00</b>	<b>\$0.00</b>

## FIRE LOSS CATEGORY – IGNITING OBJECT DETAILED

<b>FIRE LOSS BY DEFINED IGNITING OBJECT - 2017</b>				
Miscellaneous – Unknown	# of Fires	Dollar Loss	Dollar Value At Risk	Insurance Coverage
Internal Combustion Engine – Includes Exhaust System	6	\$91,050.00	\$8,751,250.00	\$8,734,250.00
Unclassified	2	\$74,500.00	\$11,952,143.00	\$11,952,143.00
Unknown	6	\$7,000.00	\$506,000.00	\$0.00
NO Igniting Object	2	\$28,000.00	\$55,000.00	\$25,000.00
<b>Total:</b>	<b>16</b>	<b>\$200,550.00</b>	<b>\$21,264,393.00</b>	<b>\$20,711,393.00</b>

## FIRE LOSS CATEGORY – ACT OR OMISSION

<b>COMBINED FIRE LOSS BY ACT OR OMISSION – 2017</b>				
Causes	# of Fires	Dollar Loss	Dollar Value at Risk	Insurance Coverage
Incendiary Fires	64	\$38,603,014.00	\$222,391,184.00	\$215,482,584.00
Misuse of Source of Ignition	12	\$1,678,600.00	\$18,297,000.00	\$11,350,000.00
Misuse of Material Ignited	4	\$84,500.00	\$657,000.00	\$645,000.00
Mechanical/Electrical Failure/Malfunction	26	\$1,046,980.00	\$132,749,600.00	\$129,262,600.00
Human Failing	23	\$322,535.00	\$23,423,685.00	\$19,967,600.00
Vehicle	1	\$15,000.00	\$25,000.00	25,000.00
Miscellaneous Act or Omission & Unknown	5	\$31,050.00	\$8,752,250.00	\$8,660,250.00
<b>Total:</b>	<b>135</b>	<b>\$41,781,679.00</b>	<b>\$406,295,719.00</b>	<b>\$385,393,034.00</b>

## FIRE LOSS CATEGORY – ACT OR OMISSION

<b>FIRE LOSS BY DEFINED ACT OR OMISSION - 2017</b>				
Incendiary Fires	# of Fires	Dollar Loss	Dollar Value At Risk	Insurance Coverage
Incendiary Fire	46	\$36,892,414.00	\$198,125,184.00	\$194,982,584.00
Suspicious	18	\$1,710,600.00	\$24,266,000.00	\$20,500,000.00
<b>Total:</b>	<b>64</b>	<b>\$38,603,014.00</b>	<b>\$222,391,184.00</b>	<b>\$215,482,584.00</b>

## FIRE LOSS CATEGORY – ACT OR OMISSION

<b>FIRE LOSS BY DEFINED ACT OR OMISSION - 2017</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	\$538,600.00	\$15,587,000.00	\$9,600,000.00
Playing With Source of Ignition	1	\$0.00	\$0.00	\$0.00
Not Determined	2	\$1,140,000.00	\$2,710,000.00	\$1,750,000.00
<b>Total:</b>	<b>12</b>	<b>\$1,678,600.00</b>	<b>\$18,297,000.00</b>	<b>\$11,350,000.00</b>

## FIRE LOSS CATEGORY – ACT OR OMISSION

<b>FIRE LOSS BY DEFINED ACT OR OMISSION - 2017</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	12	\$310,600.00	\$65,233,500.00	\$64,629,000.00
Electrical Short Circuit	10	\$659,300.00	\$51,655,600.00	\$49,433,600.00
Part Worn Out	1	\$53,680.00	\$15,200,000.00	\$15,200,000.00
Engine Backfire	1	\$3,000.00	\$3,000.00	\$0.00
Unknown/Unclassified	2	\$20,400.00	\$657,500.00	\$0.00
<b>Total:</b>	<b>26</b>	<b>\$1,046,980.00</b>	<b>\$132,749,600.00</b>	<b>\$129,262,600.00</b>

## FIRE LOSS CATEGORY – ACT OR OMISSION

<b>FIRE LOSS BY DEFINED ACT OR OMISSION - 2017</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	1	\$2,000.00	\$2,000.00	\$0.00
Ignorance of Hazard	9	\$241,835.00	\$16,219,185.00	\$14,977,600.00
Distracted, Preoccupied	8	\$7,200.00	\$6,615,000.00	\$4,940,000.00
Accident	4	\$64,000.00	\$580,000.00	\$50,000.00
Unclassified	1	\$7,500.00	\$7,500.00	\$0.00
<b>Total:</b>	<b>23</b>	<b>\$322,535.00</b>	<b>\$23,423,685.00</b>	<b>\$19,967,600.00</b>

**FIRE LOSS CATEGORY – ACT OR OMISSION**

<b>FIRE LOSS BY DEFINED ACT OR OMISSION - 2017</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>
<b>Combustible Too Close to Heat</b>	3	\$14,500.00	\$587,000.00	\$575,000.00
<b>Improper Cooking Technique</b>	1	\$70,000.00	\$70,000.00	\$70,000.00
<b>Total:</b>	3	\$84,500.00	\$657,000.00	\$645,000.00

**FIRE LOSS CATEGORY – ACT OR OMISSION**

<b>FIRE LOSS BY DEFINED ACT OR OMISSION - 2017</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>
<b>Unknown/Undetermined</b>	2	\$2,000.00	\$2,000.00	\$0.00
<b>Hot Exhaust/Catalytic Converter</b>	1	\$50.00	\$8,660,250.00	\$8,660,250.00
<b>Unclassified</b>	2	\$29,000.00	\$90,000.00	\$0.00
<b>Total:</b>	5	\$31,050.00	\$8,752,250.00	\$8,660,250.00

**FIRE LOSS CATEGORY DETAILS – CASUALTIES BY  
PROPERTY CLASSIFICATION**

<b>CASUALTIES BY PROPERTY CLASSIFICATION - 2017</b>					
<b>Category:</b>	<b># of Fires</b>	<b>Firefighter/ Civilian</b>	<b>Male/ Female</b>	<b>Adult Youth/Child</b>	<b>Injury/ Death</b>
<b>Assembly</b>	5	0	0	0	0
<b>Institutional</b>	5	0	0	0	0
<b>Residential</b>	63	3 – Firefighters 8 – Civilians	9 – Male 2 – Female	1 – Child 10 – Adults	9 – Minor 2 – Serious
<b>Ground Transport Vehicles</b>	14	1 – Firefighter	1 – Male	1 – Adult	1 – Minor
<b>Special Vehicles</b>	7	4 – Civilians	4 – Male	3 – Adults 1 – Senior	1 – Serious 3 – Deaths
<b>Vehicle Storage Property</b>	1	0	0	0	0
<b>Miscellaneous Storage Properties (Warehouses)</b>	7	0	0	0	0
<b>Miscellaneous Outbuildings (Sheds)</b>	12	3 – Civilians	3 – Male	2 – Adults 1 – Senior	1 – Minor 1 – Light 1 – Death
<b>Outdoor Property (Trash)</b>	4	0	0	0	0
<b>Outdoor Property (Grass)</b>	3	0	0	0	0
<b>Outdoor Property (Dumps)</b>	7	0	0	0	0
<b>Outdoor Unclassified</b>	5	0	0	0	0
<b>Power Plant</b>	1	0	0	0	0
<b>Food, Beverage, Sale</b>	1	0	0	0	0
<b>Total:</b>	135	4 – Firefighters 15 – Civilians	17 – Male 2 – Female	1 – Child 16 – Adults 2 – Senior	11 – Minor 1 – Light 3 – Serious 4 – Deaths

**FIRE LOSS CATEGORY DETAILS – CASUALTIES BY  
BUILDING OCCUPANCY**

<b>CASUALTIES BY BUILDING OCCUPANCY – 2017</b>					
<b>Type of Building</b>	<b># of Fires</b>	<b>Firefighter/ Civilian</b>	<b>Male/ Female</b>	<b>Adult Youth/Child</b>	<b>Injury/ Death</b>
<b>GN* Housing (All)</b>	36	3 – Firefighter 8 – Civilians	9 – Male 2 – Female	1 – Child 10 – Adults	9 – Minor 2 – Serious
<b>GN Commercial Buildings (vehicles)</b>	23	1 – Civilian	1 – Male	1 – Adult	1 – Minor
<b>Private Housing</b>	18	0	0	0	0
<b>Private Other (Sheds, Vehicles, Boats, RV's)</b>	35	1 – Firefighter 6 – Civilians	7 – Male	5 – Adults 2 – Seniors	1 – Minor 1 – Light 1 – Serious 4 – Deaths
<b>Private Commercial</b>	7	0	0	0	0
<b>Municipal (Dumps)</b>	16	0	0	0	0
<b>Total:</b>	135	4 – Firefighters 15 – Civilians	17 – Male 2 – Female	1 – Child 16 – Adults 2 – Seniors	11 – Minor 1 – Light 3 – Serious 4 – Deaths

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

<b>CASUALTIES BY ACT OR OMISSION - 2017</b>					
<b>Causes:</b>	<b># of Fires</b>	<b>Firefighter/ Civilian</b>	<b>Male/ Female</b>	<b>Adult Youth/Child</b>	<b>Injury/ Death</b>
Incendiary	64	2 – Firefighters 1 – Civilian	3 – Male	3 – Adult	2 – Minor 1 – Light
Misuse of Source of Ignition	12	2 – Firefighters 8 – Civilian	8 – Male 2 – Female	1 – Child 9 – Adult	8 – Minor 2 – Serious
Misuse of Material Ignited	4	4 – Civilians	4 – Male	3 – Adult 1 – Senior	1 – Serious 3 – Death
Mechanical/Electrical Failure/Malfunction	26	0	0	0	0
Human Failing	23	1 – Civilian	1 – Male	1 – Adult	1 – Minor
Vehicle	1	0	0	0	0
Miscellaneous Act or Omission and Unknown	5	1 – Civilian	1 – Male	1 – Senior	1 – Death
<b>Total:</b>	135	4 – Firefighters 15 – Civilians	17 – Male 2 – Female	1 – Child 16 – Adult 2 – Senior	11 – Minor 1 – Light 3 – Serious 4 – Death

## FIRE LOSS CATEGORY DETAILS – CASUALTIES BY IGNITING OBJECT

<b>CASUALTIES BY IGNITING OBJECT - 2017</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>
Cooking Equipment	15	1 – Civilian	1 – Male	1 – Adult	1 – Minor
Heating Equipment	9	2 – Firefighters 8 – Civilians	8 – Male 2 – Females	1 – Child 9 – Adults	8 – Minor 2 – Serious
Appliances and Equipment	12	0	0	0	0
Electrical Distribution Equipment	2	0	0	0	0
Other Electrical Equipment	5	0	0	0	0
Smoker's Material and Open Flame	74	2 – Firefighters 2 – Civilians	4 – Male	3 – Adults 1 – Senior	2 – Minor 1 – Light 1 – Death
Exposure	2				
Misc./Unknown	16	4 – Civilians	4 – Male	3 – Adults 1 – Senior	1 – Serious 3 – Deaths
<b>Total:</b>	135	4 – Firefighters 15 – Civilians	17 – Male 2 – Female	1 – Child 16 – Adults 2 – Seniors	11 – Minor 1 – Light 3 – Serious 4 – Deaths

## FIRE LOSS CATEGORY DETAILS – TIME OF YEAR

<b># OF FIRES BY MONTH - 2017</b>				
<b>Month:</b>	<b># of Fires Baffin Region</b>	<b># of Fires Kivalliq Region</b>	<b># of Fires Kitikmeot Region</b>	<b># of Fires Per Month</b>
<b>January</b>	3	2	3	8
<b>February</b>	2	2	2	6
<b>March</b>	4	0	1	5
<b>April</b>	6	1	1	8
<b>May</b>	8	2	2	12
<b>June</b>	17	3	3	23
<b>July</b>	5	6	3	14
<b>August</b>	8	5	4	17
<b>September</b>	13	6	0	19
<b>October</b>	7	1	1	9
<b>November</b>	5	4	0	9
<b>December</b>	3	2	0	5
<b>Total:</b>	81	34	20	135

## FIRE LOSS CATEGORY DETAILS – TIME OF DAY

<b># OF FIRES BY TIME OF DAY - 2017</b>				
<b>Time of Day:</b>	<b># of Fires Baffin Region</b>	<b># of Fires Kivalliq Region</b>	<b># of Fires Kitikmeot Region</b>	<b>Total # of Fires Per Time Period</b>
<b>0:00 – 08:00</b>	18	4	5	27
<b>08:00 – 18:00</b>	30	21	9	60
<b>18:00 – 24:00</b>	33	9	6	48
<b>Total:</b>	81	34	20	135



## FIRE LOSS CATEGORY DETAILS –FIRES BY COMMUNITY

<b>FIRE BY COMMUNITY – 2017</b>				
<b>Community:</b>	<b># of Fires</b>	<b>Dollar Loss</b>	<b>Dollar Value At Risk</b>	<b>Insurance Coverage</b>
Arctic Bay	1	\$0.00	\$0.00	\$0.00
Cape Dorset	5	\$500.00	\$4,875,000.00	\$4,425,000.00
Clyde River	3	\$547,000.00	\$557,000.00	\$25,000.00
Grise Fiord	0	\$0.00	\$0.00	\$0.00
Hall Beach	1	\$7,500.00	\$7,500.00	\$0.00
Igloolik	7	\$226,500.00	\$5,265,000.00	\$3,375,000.00
Iqaluit	37	\$1,607,030.00	\$200,415,320.00	\$196,884,420.00
Kimmirut	2	\$3,000.00	\$1,180,000.00	\$0.00
Pangnirtung	9	\$537,000.00	\$3,297,000.00	\$2,625,000.00
Pond Inlet	14	\$1,212,600.00	\$7,113,700.00	\$4,736,100.00
Qikiqtarjuaq	0	\$0.00	\$0.00	\$0.00
Resolute Bay	0	\$0.00	\$0.00	\$0.00
Sanikiluaq	2	\$1,100.00	\$431,000.00	\$0.00
<b>Total Baffin Region</b>	<b>81</b>	<b>\$4,142,230.00</b>	<b>\$223,141,520.00</b>	<b>\$212,070,520.00</b>
Arviat	7	\$6,850.00	\$48,676,200.00	\$47,236,200.00
Baker Lake	8	\$92,800.00	\$53,539,200.00	\$49,059,200.00
Chesterfield Inlet	0	\$0.00	\$0.00	\$0.00
Coral Harbour	1	\$760,000.00	\$760,000.00	\$0.00
Nauyasat	5	\$26,950.00	\$9,324,250.00	\$8,660,250.00
Rankin Inlet	13	\$569,100.00	\$12,433,500.00	\$11,766,500.00
Whale Cove	0	\$0.00	\$0.00	\$0.00
<b>Total Kivalliq Region</b>	<b>34</b>	<b>\$1,455,700.00</b>	<b>\$124,733,150.00</b>	<b>\$116,722,150.00</b>
Cambridge Bay	4	\$2,100.00	\$16,264,200.00	\$16,164,200.00
Gjoa Haven	5	\$12,600.00	\$1,505,000.00	\$0.00
Kugaaruk	7	\$36,158,849.00	\$38,316,849.00	\$38,186,164.00
Kugluktuk	0	\$0.00	\$0.00	\$0.00
Taloyoak	4	\$10,200.00	\$2,335,000.00	\$2,250,000.00
<b>Total Kitikmeot Region</b>	<b>20</b>	<b>\$36,183,749.00</b>	<b>\$58,421,049.00</b>	<b>\$56,600,364.00</b>
<b>Nunavut Total:</b>	<b>135</b>	<b>\$41,781,679.00</b>	<b>\$406,295,719.00</b>	<b>\$385,393,034.00</b>

## **Fire Prevention Inspections**

The Office of the Fire Marshal staff continues to visit communities to address fire prevention issues. The Assistant Fire Marshals performed 1,272 fire prevention inspections in 2017 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.

## **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 includes:

- 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 also 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) in from 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.

## **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.
- In 2017 the fire truck in Cape Dorset was replaced.

## **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 2017 fire prevention program;

- **Fire Prevention Coloring Contest:**
  - The contest received 465 Fire Prevention posters and coloring templates from ten 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 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.

## **2017 Fire Service Training**

There were 18 fire service training courses provided in 2017, which involved 148 firefighters. This provided for 9 community-based General Level courses and 9 Territorial-based courses. Included in these training courses were the Nunavut Firefighter Competition and the National Aboriginal Firefighter Competition.

## Fire Service Training Courses

The following is a list of training courses that were offered in 2017 by the Office of the Fire Marshal in partnership with the Municipal Training Organization.

<b>Community Based Courses</b>	<b>Training Location</b>	<b>Dates of Courses</b>	<b># of Students</b>
General Level Firefighting Course	Clyde River	April 24 -28	7
General Level Firefighting Course	Qikiqtarjuaq	April 24 - 28	11
General Level Firefighting Course	Arctic Bay	May 8 - 12	3
General Level Firefighting Course	Hall Beach	May 24 - 28	7
General Level Firefighting Course	Kugluktuk	July 17 - 21	10
General Level Firefighting Course	Naujaat	July 24 - 28	3
General Level Firefighting Course	Kimmirut	Cancelled	0
General Level Firefighting Course	Igloolik	Cancelled	0
General Level Firefighting Course	Whale Cove	Cancelled	0
<b>General Level Total:</b>			<b>31</b>
<b>Territorial Based Courses</b>	<b>Training Location</b>	<b>Dates of Courses</b>	<b># of Student</b>
Fire Service Instructor Level 2 NFPA 1041	Iqaluit	March 21 - 24	9
Nunavut Firefighter Competition	Iqaluit	August 1 - 7	17
National Aboriginal Firefighter Competition	Tobique First Nation	Aug 9 - 12 New Brunswick	7
Fire Officer	Iqaluit	February 28 – March 9	24
Nunavut Firefighter Level 1	Iqaluit	August 22 - 31	9
Nunavut Firefighter Level 1	Rankin Inlet	July 18 - 27	19
Nunavut Firefighter Level 2	Iqaluit	October 10 - 19	10
Nunavut Firefighter Level 2	Rankin Inlet	September 5 - 14	17
IFSAC Certification NFPA 1001 – Level 1 & 2	Iqaluit	September 30 – October 1	5
<b>Total:</b>			<b>117</b>
<b>GRAND TOTAL:</b>			<b>148</b>

## 2017 National Aboriginal Firefighter Competition

From August 1 – 7, 2017, 17 firefighters from across the Territory gathered in Iqaluit to participate in the 12<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 2017 was held from August 7<sup>th</sup> – 12<sup>th</sup>, 2017, at Tobique First Nation, New Brunswick. This was the 12<sup>th</sup> year that Nunavut participated in the competition. The Nunavut team finished in seventh 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 tenth time in twelve years at the competition.

*Team Nunavut: Atsaina Eeyeevadlok (Coach) – Kimmirut, Justin Morgan (Captain) – Hall Beach, Andrew Iqalukjuak – Clyde River, Steven Iqalukjuak – Clyde River, Mark Tigumiar – Naujaat, Sandy Natseck – Naujaat, Glen Sutherland – Kugaaruk, Frederick Morrison - OFM*



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