



NEWFOUNDLAND AND LABRADOR FOREST FIRE STATISTICS

REPORTING YEAR: 2018

VERSION: 012219

Government of Newfoundland and Labrador
Fisheries and Land Resources
Forestry and Wildlife

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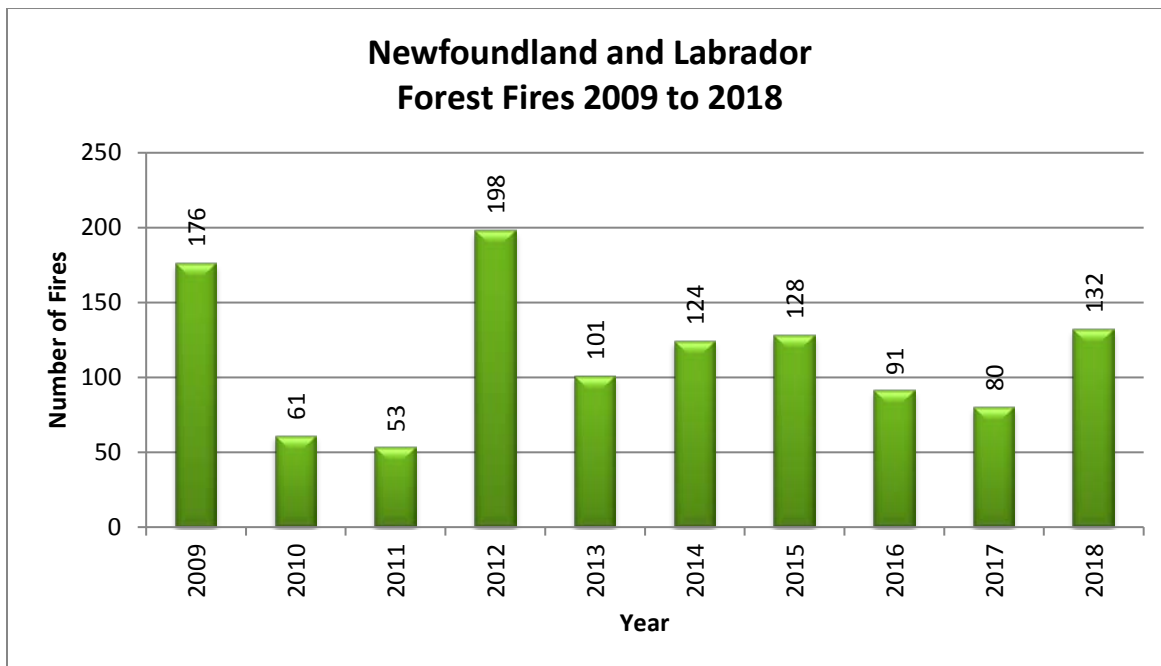
INTRODUCTION

REPORTING YEAR: 2018

In 2018, the fire season began on the island portion of the Province on May 1 and in Labrador on May 15. The season remained in effect until September 30. Although the official season ran from May until September, data collected by the department and presented in the following statistics, are for the entire year.

HISTORIC FIRE TOTALS - 10 YEAR AVERAGE

The 2018 Forest Fire Season saw 132 fires burning a total of 395.6 hectares, and was above the 10-year average of 114 fires per year.



NEWFOUNDLAND AND LABRADOR FOREST FIRE STATISTICS

TOTAL FIRES

| REGION | TOTAL |
|---------------|------------|
| Eastern | 93 |
| Western | 28 |
| Labrador | 11 |
| Total: | 132 |

AREA AND FOREST TYPE IN HECTARES (HA)

| REGION | TOTAL AREA | PRODUCTIVE | NON-PRODUCTIVE |
|------------------------------|--------------|-------------|----------------|
| Eastern | 338.2 | 31.8 | 306.4 |
| Western | 14.5 | 1.5 | 13.0 |
| Labrador (full response) | 42.9 | 30.0 | 12.9 |
| Labrador (modified response) | 0.0 | 0.0 | 0.0 |
| Total: | 395.6 | 63.3 | 332.3 |

FIRE OCCURRENCE

| CAUSE | NUMBER | AREA BURNED (HA) |
|-----------------------------|------------|------------------|
| Lightning | 4 | 40.3 |
| Resident | 76 | 44.9 |
| Forest Industry | 1 | 0.0 |
| Other Industrial Operations | 1 | 0.0 |
| Incendiary | 10 | 1.2 |
| Railroad | 0 | 0.0 |
| Recreation | 30 | 295.7 |
| Garbage Dump | 2 | 4.0 |
| Miscellaneous Known | 8 | 9.5 |
| Total: | 132 | 395.6 |

STANDARD CAUSE CLASSIFICATIONS (3 CATEGORIES)

Cause of Fire (Known or Suspected)

| | EASTERN | WESTERN | LABRADOR | TOTAL |
|------------------------------------|---------|---------|----------|-------|
| Lightning | 2 | 0 | 2 | 4 |
| Resident | 53 | 16 | 7 | 76 |
| Forest Industry | 1 | 0 | 0 | 1 |
| Other Industrial Operations | 1 | 0 | 0 | 1 |
| Incendiary | 6 | 4 | 0 | 10 |
| Railroad | 0 | 0 | 0 | 0 |
| Recreation | 27 | 3 | 0 | 30 |
| Garbage Dump | 0 | 2 | 0 | 2 |
| Miscellaneous Known | 3 | 3 | 2 | 8 |

RESPONSIBLE GROUP (KNOWN OR SUSPECTED)

| | EASTERN | WESTERN | LABRADOR | TOTAL |
|------------------------------|---------|---------|----------|-------|
| Resident | 63 | 23 | 7 | 93 |
| Mischance | 3 | 3 | 2 | 8 |
| Recreation | 14 | 2 | 0 | 16 |
| Mining Operation | 0 | 0 | 0 | 0 |
| Forestry Industry | 1 | 0 | 0 | 1 |
| Government Activities | 0 | 0 | 0 | 0 |
| Children | 9 | 0 | 0 | 9 |
| Industrial Operation | 1 | 0 | 0 | 1 |
| ** | | | | |

** There were 4 lightning fires during the 2018 forest fire season – of which 2 occurred in Eastern region and 2 in Labrador.

MEANS OF IGNITION (KNOWN OR SUSPECTED)

| | EASTERN | WESTERN | LABRADOR | TOTAL |
|---------------------------------|---------|---------|----------|-------|
| Match and/or Lighter | 36 | 13 | 3 | 52 |
| Cigarette, Cigar, Pipe | 13 | 2 | 2 | 17 |
| Camp Fire | 18 | 4 | 2 | 24 |
| Chimney Spark | 1 | 0 | 0 | 1 |
| Explosions | 0 | 0 | 0 | 0 |
| Power Saw | 0 | 0 | 0 | 0 |
| Hydro Wire | 0 | 0 | 0 | 0 |
| Vehicle Fire | 1 | 1 | 0 | 2 |
| Structural Fire | 2 | 1 | 1 | 4 |
| Slash and/or Debris Fire | 5 | 3 | 0 | 8 |
| All-Terrain Vehicle | 9 | 2 | 0 | 11 |
| Heavy Equipment | 1 | 0 | 0 | 1 |
| Lightning | 2 | 0 | 2 | 4 |
| Spontaneous Combustion | 0 | 0 | 0 | 0 |
| Other | 5 | 2 | 1 | 8 |

FIRES BY MONTH

| MONTH | NUMBER OF FIRES | AREA BURNED (HA) |
|---------------|-----------------|------------------|
| January | 0 | 0.0 |
| February | 0 | 0.0 |
| March | 0 | 0.0 |
| April | 12 | 7.4 |
| May | 41 | 71.1 |
| June | 19 | 12.2 |
| July | 17 | 285.4 |
| August | 25 | 7.5 |
| September | 14 | 11.1 |
| October | 3 | 0.8 |
| November | 1 | 0.1 |
| December | 0 | 0.0 |
| Total: | 132 | 395.6 |

AREA BURNED BY SIZE

| FIRE SIZE (HA) | NUMBER | AREA BURNED (HA) |
|---------------------------|------------|------------------|
| Less than or equal to 0.1 | 83 | 3.8 |
| 0.11 – 1.0 | 23 | 10.8 |
| 1.1 – 10.0 | 21 | 66.6 |
| 10.1 – 100.0 | 4 | 161.0 |
| 100.1 – 1,000.0 | 1 | 153.4 |
| 1000.1 – 10,000.0 | 0 | 0.0 |
| Greater than 10,000.0 | 0 | 0.0 |
| Total: | 132 | 395.6 |

GLOSSARY

Productive Forest Type: Area of Forest capable of producing at least 35 cubic meters per hectare (m^3/ha) at rotation.

Non-Productive Forest Type: Area of Forest that is not capable of producing at least 35 cubic meters per hectare (m^3/ha) at rotation.

Hectare (ha.): The metric unit of area measurement and can be measured as follows:

- 1 hectare = 100 metres by 100 metres or 0.01 km^2
- 1 hectare = 2.47 acres

Full Response Fire: A wildfire which requires immediate, aggressive initial attack and/or sustained suppression action until the fire is declared out.

Modified Response Fire: A wildfire that is allowed to burn within set policy and management guidelines or may be actioned in such a manner as to bring the wildfire back within those guidelines.