Report: HSC24033



HAMILTON FIRE DEPARTMENT COMMUNITY RISK ASSESSMENT

November 7, 2024

Community Risk Assessment

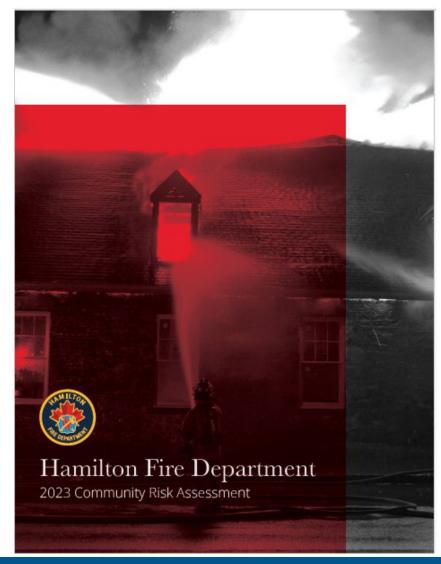




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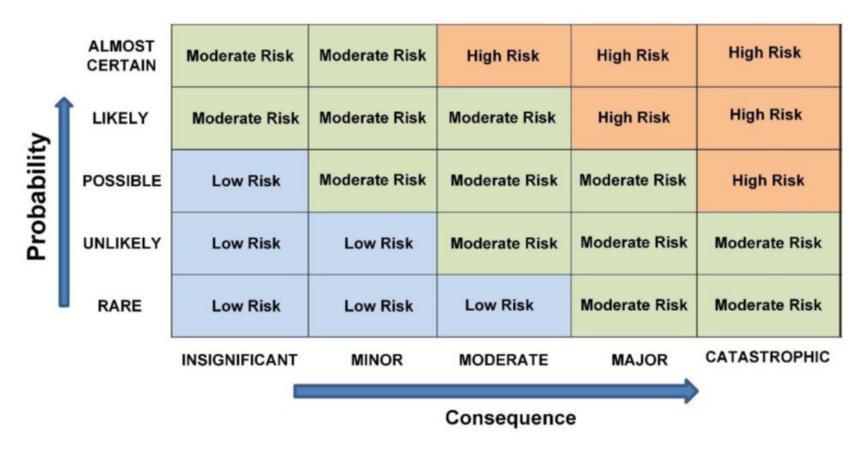
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Determining Risk

Risk Level Matrix



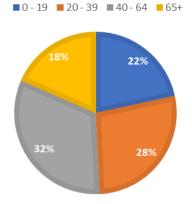


HAMILTON: One of the most Diverse and Complex Risk profiles in the Country

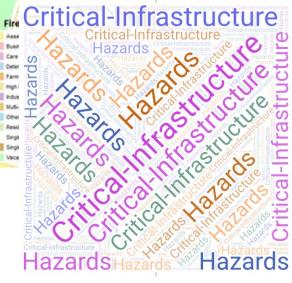




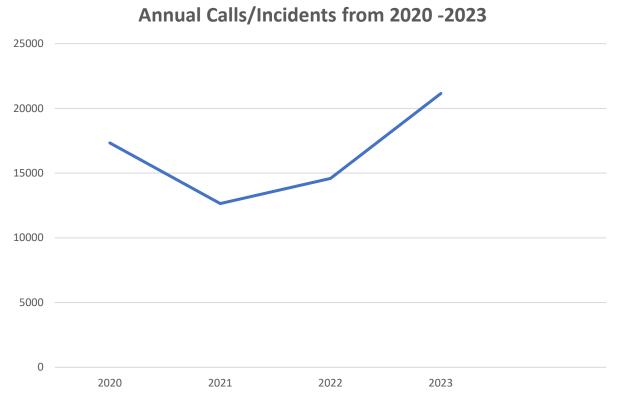
Hamilton's Population by Age (reference: Statistics Canada 2021)

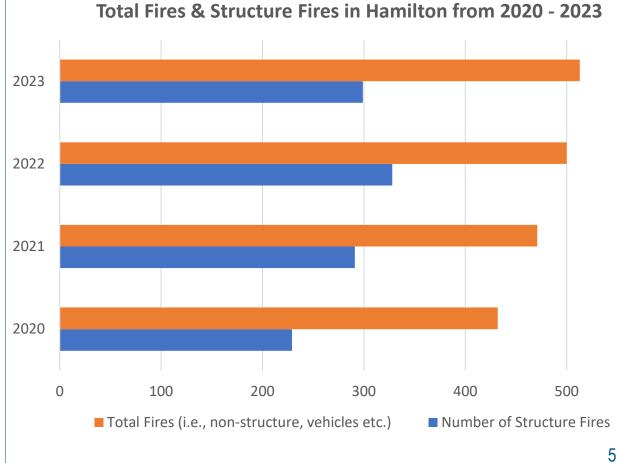






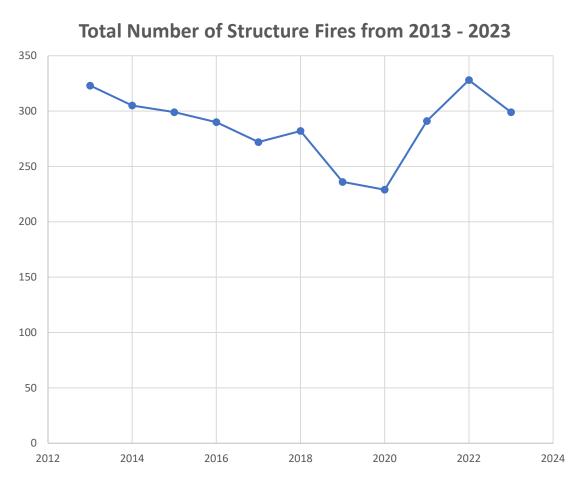
Annual Trends



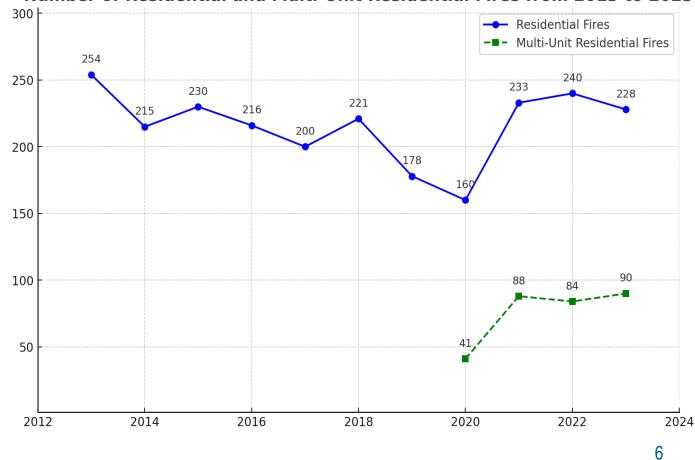




Historical Fire Trends: 2013 - 2023



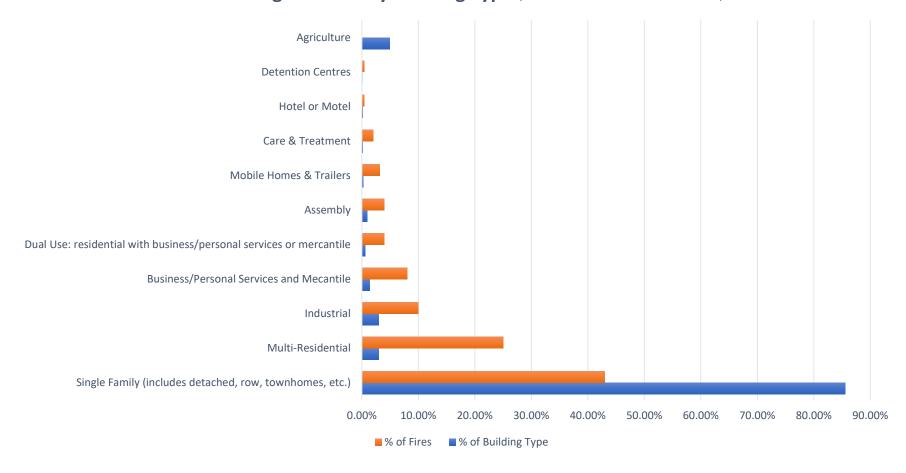






Hamilton's Building Stock & Fires by Building Type

Hamilton's Building Stock by Type and
Percentage of Fires by Building Type (Structure fire data: 2020-2022)





Fire Causes: Ten Year Trends

2013-2018 Causes

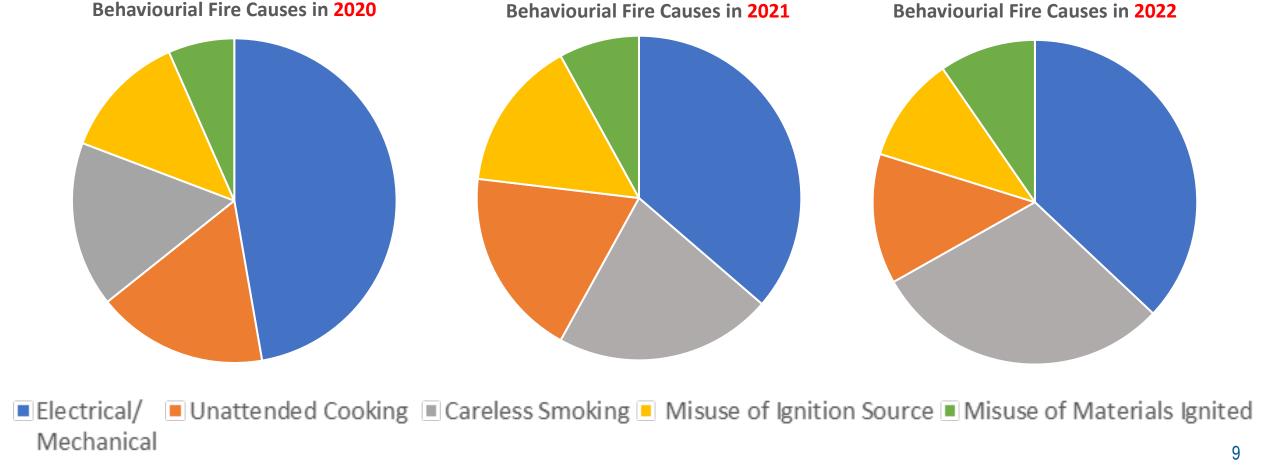
	Fire Cause	% of Cause
Intentional	Arson	11.70%
Top Three (3) Causes	Careless Smoking	12.10%
	Electrical	11.80%
	Unattended Cooking	11.60%
Other Unintentional	Other Causes	32.90%
Undetermined	Undetermined	19.60%

2020-2022 Causes

	Fire Cause	% of Cause
Intentional	Arson	15.40%
Top Three (3) Causes	Electrical	17.10%
	Careless Smoking	10%
	Unattended Cooking	7%
Other Unintentional	Other Causes	29.50%
Undetermined	Undetermined	21%



Fire Causes: Behaviourial Trends 2020 - 2022





How Hamilton Compares Nationally & Ward Trends

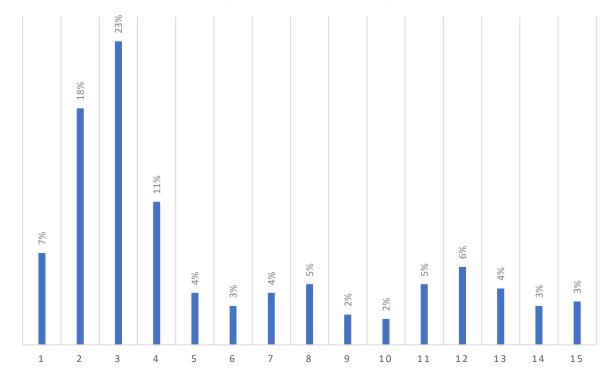








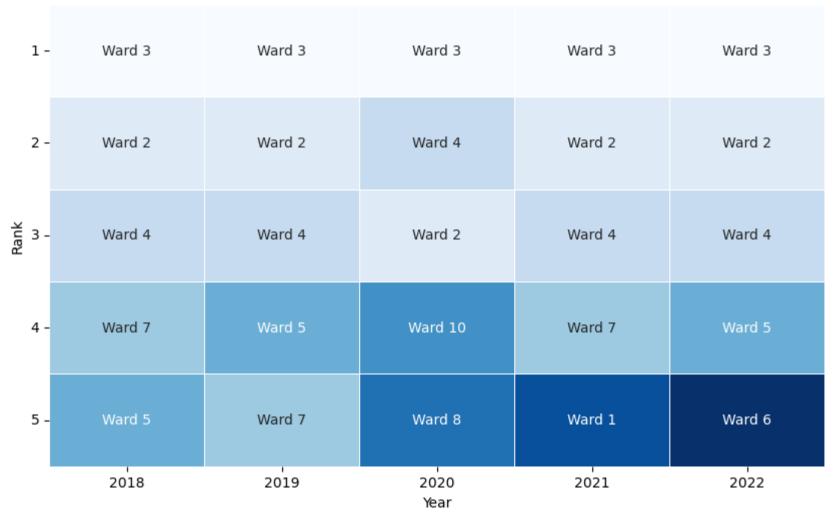
Percentage of Fires by Ward (2020-2022 data)

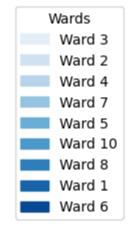




Ward Trends: Top Five Wards over last five years

Top 5 Ward Rankings for Structure Fires (2018-2022)

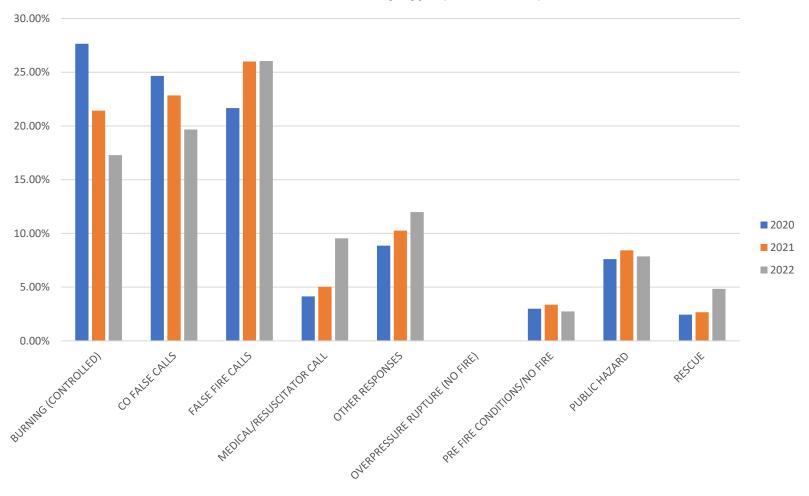






Non-Fire Incidents by Type







Changes to Hamilton's Profile

Risk Levels as Assessed in 2023

(current Community Risk Assessment)

Building Type	Assigned Risk
	Level
Residential: Single-detached house	High Risk
Residential: Multi-Unit Residential:	High Risk
buildings with two or more units	
with two (2) – six (6) floors	
Residential: High-Rise Residential:	High Risk
buildings with seven (7) or more	
floors	
Residential: Semi-	High Risk
detached/Row/Townhouse/Duplex	
Residential: Mobile Home and/or	Moderate Risk to
Trailers	Low Risk
Business/Personal Service or	Moderate to High
Mercantile	Risk
Industrial	Moderate to High
	Risk
Assembly	Moderate Risk
Institutional	Moderate Risk
Dual Use (residential with	Moderate Risk
business/personal service or	
mercantile)	
Agricultural	Low Risk

Risk Levels as Assessed in 2018

(previous Community Risk Assessment)

Building Type	Assigned Risk Level
Residential	Moderate Risk

Business/Personal Service or Mercantile	Low Risk
Industrial	Moderate Risk
Assembly	Moderate Risk
Institutional	High Risk

Farms	Low Risk	



Trends & Concerns



Increase in persons unhoused and less availability of housing stock





Residential fires, deaths and injuries





Nonworking smoke alarms





Increase in calls and incidents year over year



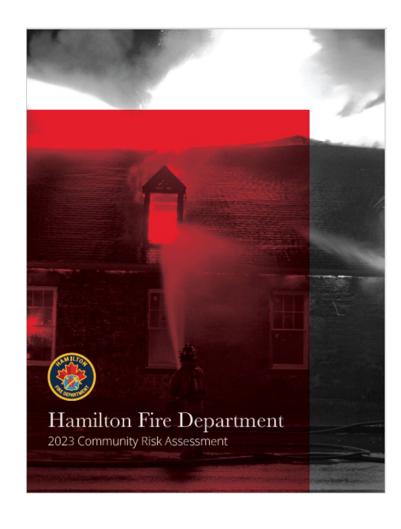


Increased risk of wildland fires





Next Steps



Informs Future:
✓ Programs

Supports

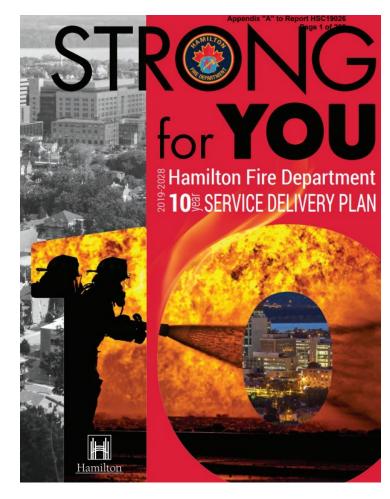
Impacts



✓ BusinessCases



✓ Plans





THANK YOU