

# Town of Thessalon- Fire Department



## Community Risk Assessment

2024

Prepared by: Fire Services Committee

Date of completion: May 8, 2024

## Table of Contents

Town of Thessalon Fire Department Documentation	
<a href="#">Executive Summary</a>	3
<a href="#">Geographic Profile – Worksheet 1</a>	4
<a href="#">Building Stock Profile – Worksheet 2 Assembly</a>	5
<a href="#">Building Stock Profile – Worksheet 2 Care &amp; Treatment</a>	6
<a href="#">Building Stock Profile – Worksheet 2 Home Occupancy</a>	7
<a href="#">Building Stock Profile – Worksheet 2 Business</a>	7
<a href="#">Building Stock Profile – Worksheet 2 Business List</a>	8
<a href="#">Building Stock Profile – Worksheet 2 Industrial</a>	9
<a href="#">Critical Infrastructure Profile – Worksheet 3</a>	10
<a href="#">Demographic Profile – Worksheet 4a</a>	11
<a href="#">Demographic Profile – Worksheet 4b</a>	12
<a href="#">Hazard Profile – Worksheet 5</a>	13
<a href="#">Public Safety Profile – Worksheet 6</a>	14
<a href="#">Community Services Profile – Worksheet 7</a>	15
<a href="#">Economic Profile – Worksheet 8</a>	16
<a href="#">Past Events and Event History Profile – Worksheet 9a (Year 2023)</a>	17
<a href="#">Past Events and Event History Profile – Worksheet 9a (Year 2022)</a>	18
<a href="#">Past Events and Event History Profile – Worksheet 9a (Year 2021)</a>	19
<a href="#">Past Events and Event History Profile – Worksheet 9a Non Emergency Calls</a>	20
<a href="#">Past Loss and Event History Profile – Worksheet 9b</a>	21
<a href="#">Treatment Options for the Top Risks in our Community- Geographic</a>	22
<a href="#">Treatment Options for the Top Risks in our Community- Building Stock</a>	23
<a href="#">Treatment Options for the Top Risks in our Community- Critical Infrastructure</a>	24
<a href="#">Treatment Options for the Top Risks in our Community- Demographic, Hazard, Public Safety Response, Community Services, Economic, Past Loss &amp; Event History</a>	25
Fire Safety Plans – as noted within document to be kept separately	

## **Executive Summary**

The Town of Thessalon is a small community outside of Sault Ste. Marie Ontario with a population of 1260 people and is comprised of a small hospital, nursing home, residential and multi-unit residences, small businesses, some industry, recreational facilities, and a seasonal campground.

Our Fire Department is made up entirely of Volunteers with a goal of providing fire protection services through a range of programs designed to protect the lives and property of the community from the adverse effects of fires or exposure to dangerous conditions created by humans or nature. Services are provided first to the municipality, second to those municipalities requiring assistance through authorized emergency fire service plan and program (mutual aid) activities, and third to those municipalities that are provided fire protection by the Fire Department via authorized agreement.

This Community Risk Assessment was conducted by the Town of Thessalon Fire Services Committee, and follows O.Reg 378/18 from the Office of the Fire Marshall. This assessment is valid for five years from the date of completion, and is to be reviewed annually, or as required, by the Fire Services Committee. The process followed the guidelines set out by the OFMEM (OFM-TG-02-2019), using the provided worksheets, tables, matrixes, and resource locations.

The Fire Safety Plans of various medical and industrial locations within our Town or those impacted by Mutual/Automatic Aid Agreements are included as accompanying documentation to better support our Fire Department in case of an emergency.

This hands-on review by the Fire Services Committee provided an evidence-based risk level for each category and the associated treatment option and plan for each issue. Having those involved set the matrix risk level allows both the fire department and the Town to understand, plan and mitigate the risks. This will ultimately reduce the risk level to both the town and the volunteers who serve the community.

Treatment Options and Plans have been identified as currently preferred options along with opportunities for improvement with mitigation. Initiating processes both within our means or by reaching out to external providers to establish agreements or protocols is planned for 2024.

## Geographic Profile- Worksheet 1

Physical features of our Community that could impact the risk and response to fire and other emergency includes:

<b>Geographic Feature</b>	<b>Potential Impact on Fire Services and delivery</b>
Lake Huron	Town is along the Northshore of Lake Huron but with Lighthouse Point and peninsulas within the town, there is wind direction changes from North/East/West and South. Summer Recreational activities on two shorelines. Winter Recreation activities on ice.
Thessalon River	Thessalon River as it flows into the North Channel bisects the town. Fullerton and Government Road bridges provide north/south access. Summer Recreation activities along river and river mouth. Winter recreation activities on ice.
Highway 17	Highway 17 is a main corridor for west to east travel including transport trucks carrying hazardous goods, increased traffic in summer with tourism and travel trailers.
Highway 129	Highway 129 runs north from highway 17 and is a corridor for travel to Chapleau. The T intersection is directly north of the town with only stop signs on north and south roads.
Railway	Huron Central Railway Inc passes within 1.6 km north of the town with the bed of the spur into the town owned by The Corporation of the Town of Thessalon. Tracks follow woodland/grassy areas along with housed areas. Dry weather and sparks.
Fullerton Bridge	Two lane Bridge was built in 1965. Used as a detour route for highway 17. Bridge constructed I-beam/Girders and inspected bi-annually with restorations required.
Government Road "Red" Bridge	One lane Bridge with walkway was built in 1910 with 10 tonne load limit and 3.0 m vertical clearance. No visual lights to direct traffic. Bridge constructed with Through Truss and has undergone some restoration but requires further restoration in near future.
Highway Bridge	Highway 17 throughway bridge
Woodland	East limit of town south of railway is wooded to the east of abutting township

Please note the information on this worksheet should be used in conjunction with other worksheets in this assessment.

## **Building Stock Profile- Worksheet 2**

Building characteristics in our community includes the following building occupancy classifications that may impact the delivery of fire protection services and includes use of building/density/age/construction type (including lightweight construction LWC). List to assist departments identify issues/concerns impacting deliver of fire protection services:

<b>Building Stock Profile Risks - Assembly</b>					
Occupancy Classification	# of buildings per type + LWC	Issues/Concerns (age/use/density/historic/cultural	Probability	Consequence	Assigned Risk Level
Group A Assembly	2 floors	Arena (main floor 400 capacity & Upper Deck 168 capacity)	Rare	Major	Moderate
	2 floors	Curling Club 120 Main St.	Rare	Moderate	Low
	1 floor	Municipal Office/Council Chambers *new EV station	Rare	Catastrophic	Moderate
	1 floor	Library	Rare	Major	Moderate
	1 floor	Beggs Funeral Home year 2010	Rare	Minor	Low
	2 floors	Church – St. Ambrose (circa 1930) 286 Water St.	Rare	Minor	Low
	2 floors	Church of the Redeemer 257 Main St.	Rare	Minor	Low
	2 floors	Church of Christ 8 Albert St.	Rare	Minor	Low
	2 floors	Thessalon Bible Chapel 17 Huron St. W	Rare	Minor	Low
	1 floor	Fitness Centre *new EV station	Rare	Minor	Low
	1 floor	Marina Reno'd blg A *new EV stn	Rare	Moderate	Low
	2 floors	Marina building B	Rare	Minor	Low
	2 floors	Dyment Lodge (50 ppl)	Rare	Minor	Low
	2 floors	Legion 18 Algoma St.	Rare	Minor	Low
	1 floor	Thessalon Public School -Primary to Gr 3 with Daycare <b>Fire Safety Plan</b>	Rare	Major	Moderate
	2 floors	Thessalon Public School -up to grade 6 <b>Fire Safety Plan</b>	Rare	Major	Moderate
		<b>*See business page 8 for full list</b>			

Please note the information on this worksheet should be used in conjunction with other worksheets in this assessment.

<b>Building Stock Profile Risks – Care &amp; Treatment</b>					
<b>Occupancy Classification</b>	<b># of buildings per type + LWC</b>	<b>Issues/Concerns (age/use/density/historic/cultural)</b>	<b>Probability</b>	<b>Consequence</b>	<b>Assigned Risk Level</b>
Group B Care & treatment	1 building 2 floors	Hospital 135 Dawson St. <b>Fire Safety Plan</b> <b>Code Green/Code Orange/ Code Red</b> Westwind Assisted Living is an annex of the building	<b>Possible</b>	<b>Major</b>	<b>Moderate</b>
	1 building 2 floors	Algoma Manor – Long Term Care 145 Dawson St. <b>2023 Fire Safety Plan</b> - vestibule connecting to hospital - sprinklers in place - Monthly drills/annual evacuation - two stage fire alarm system - ATS fire alarm monitoring - emergency lighting & power -corridor fire separation doors -1 elevator (no firefighter elevators) 10 fire safety plan locations -Incident Commander (orange vest) to assist	<b>Possible</b>	<b>Major</b>	<b>Moderate</b>
	1 unit with multiple suites	Medical Centre -River St.  <b>Fire Safety Plan has been requested</b>	<b>Unlikely</b>	<b>Moderate</b>	<b>Moderate</b>

Please note the information on this worksheet should be used in conjunction with other worksheets in this assessment.

<b>Building Stock Profile Risks – Home Occupancy</b>					
<b>Occupancy Classification</b>	<b># of buildings per type + LWC</b>	<b>Issues/Concerns (age/use/density/historic/cultural)</b>	<b>Probability</b>	<b>Consequence</b>	<b>Assigned Risk Level</b>
Group C Single Family	460 total  LWC unknown	Pre 1960: 230 (41.1%) Includes some Balloon 1961-1980: 155 (27.7%) 1981-1990: 75 (13.4%) 1991-2000: 60 (10.7%) 2001 – 2015: 25 (4.5%) 2016-2021: 20 (3.6)	Possible Possible Unlikely Rare Rare Rare	Major Moderate Moderate Moderate Moderate Moderate	Moderate Moderate Moderate Low Low Low
Multi unit Residential	LWC unknown	25 apartment/flat  65 in building less than 5 stories <b>ADSAB Fire Safety Plan requested</b>	Possible  Possible	Major  Major	Moderate  Moderate
Hotel/Motel	1	Carolyn Beach 35 units	Possible	Major	Moderate
Mobile Homes/Trailers		52 Seasonal trailers at Lakeside Park vary in size/age/use Up to 50 Transient trailers at Lakeside Park	Possible	Moderate	Moderate
Vacant buildings	5	Vacancy	Possible	Insignificant	Low

<b>Building Stock Profile Risks -Business</b>					
<b>Occupancy Classification</b>	<b># of buildings per type + LWC</b>	<b>Issues/Concerns (age/use/density/historic/cultural)</b>	<b>Probability</b>	<b>Consequence</b>	<b>Assigned Risk Level</b>
Group D & E Storefront Merchants	30	<b>See full list *business appendix</b>	Possible	Moderate	Moderate
Pharmacy	1	Main St. Pharmacy	Possible	Major	Moderate
Restaurant	5+1 seasonal	Sinton Restaurant & Tavern Sunset Beach Restaurant Kosmos Pizza Carolyn Beach Restaurant Tim Hortons PoppinBay (seasonal)	Possible	Moderate	Moderate

Please note the information on this worksheet should be used in conjunction with other worksheets in this assessment.

**Town of Thessalon Businesses:**

Algoma Mutual Insurance	131 Main St	705-842-3345
BDO Canada	131 Main St	705-842-5777
Beggs Funeral Home	175 Main St.	705-842-2520
Bunkers Lawncare	219 Main St	705-842-2646
Carolyn Beach Restaurant	1 Lakeside Dr.	705-842-3330
Carolyn Beach Motel	1 Lakeside Dr.	705-842-3330
Child Care Algoma	206 Federation St.	705-842-5454
Creative Basket	210 Main St	705-842-2018
Dawson & Keenan Insurance	162 Main St.	705-949-3740
Driftwood Cremation	54 Peachey St.	705-842-2520
Flukes Timbermart	Hwy 17W	705-842-2710
Forestland	168 Main St.	705-842-0378
Forever Flowers by Design	219 Main St.	705-542-8005
Hair Designs	75 Stanley St.	705-842-2509
Home Hardware	119 Main St.	705-842-2435
Jones Valumart	215 Main St.	705-842-2132
Joshua Tree Insurance	158 Main St.	1-866-838-0010
KP Aerodynamics Docks	53 Algoma St. E	705-842-2497
Kings Plumbing & Heating	32 Frances St.	705-842-3644
Kosmos Pizza	160 Main St.	705-508-2008
LCBO	163 Main St.	705-842-2112
Northshore Sentinel	359 River St.	705-842-2504
Northern Credit Union	186 Main St.	705-842-3916
PoppinBay food/Laundromat	39 Frances St.	519-476-8138
Rankin Supply	359 River St.	705-842-2131
Renewable Energy Solutions	48 Feltham Rd	705-842-6911
Reverie Artistry	212 Main St.	289-987-2028
Service Ontario	214 Main St.	705-842-6295
Shannon Vine Photography	156 Pine Ridge Rd.	705-943-2339
Shaws Garage	349 River Rd.	705-987-1952
Sinton Tavern & Restaurant	176 Main St.	705-842-2414
Smitjes Small Engines	111 Brownlee Rd.	705-206-4174
Stedmans Dept store	208 Main St.	705-842-0324
Sunset Beach Restaurant	47 Frances St.	705-842-0924
The Arbor Barber Tree removal	299 River St.	705-849-0947
Thessalon Insurance services	201 Main St.	705-842-3240
Thessalon Marina	56 Algoma St. E	705-842-5188
Thessalon Post Office	145 Main St.	705-842-3342
Thessalon Public Library	187 Main St.	705-842-2306
Thinking Rock Artists	199 Main St.	705-542-1100
Tim Hortons	10 Lakeside Dr.	705-842-9697
Tulloch Engineering	200 Main St.	705-842-3372



<b>Building Stock Profile Risks- Industrial</b>					
<b>Occupancy Classification</b>	<b># of buildings per type + LWC</b>	<b>Issues/Concerns (age/use/density/historic/cultural)</b>	<b>Probability</b>	<b>Consequence</b>	<b>Assigned Risk Level</b>
Group F Industrial Public Works	3	Main building – trucks Quanza – sand Garage - Office/Storage	Unlikely	Catastrophic	Moderate
Water Treatment Plant	1	<b>Fire Alarm Protocol provided</b>	Unlikely	Catastrophic	Moderate
Smelter Bay	2 +1	Freighters – port for emergency *land-based fire department 2 framed + 1 MCC	Possible	Catastrophic	High
Crematorium	1		Unlikely	Minor	Low
Birchland Veneer (Town) (Automatic aid)	Multiple	<b>Fire Safety Plan requested</b>	Unlikely	Major	moderate
Birchland Plywood (Hwy) (Automatic aid)	Multiple	<b>Fire Safety Plan requested</b>	Unlikely	Major	Moderate
Midway Lumber (Automatic aid)	15	Main office/Forestry/Open Retail shed/Scale building/Garage/Sawmill/Select shed/Dry Kilns/Pole shed/Shipping building/Planning mill/Hammer mill/Bagger/Yard office/Open shed <b>Emergency Response/Evacuation plan provided</b>	Unlikely	Major	Moderate
Esso Gas station & Truckstop	1	<b>Fire Safety Plan requested</b>	Unlikely	Major	Moderate
Marina – gas dock	1	External supplier - annual inspections- double lined gastank	Unlikely	Moderate	Moderate
Shaws garage	1	Automotive Repair	Unlikely	Moderate	moderate
Mr. Suds (service Ontario)	1	Body Shop	Unlikely	Moderate	moderate
Lakeview gas bar	1	Vacant – still has gas tanks underground – no inspections	Unlikely	Moderate	moderate

Please note the information on this worksheet should be used in conjunction with other worksheets in this assessment.

### **Critical Infrastructure Profile- Worksheet 3**

Critical infrastructure of our Community that could impact the risk and response to fire and other emergency includes:

<b>Identified Critical Infrastructure</b>	<b>Potential Impact on Fire Services and delivery</b>
Water Distribution	Failure of plant or reduced water availability/pressure No water tower
Electricity Distribution	Downed hydro lines Transformer/pole fires Lack of power for residential & business operations with dangerous heat alternatives Generator in fire hall -activation/monitoring required
Natural Gas Distribution	Gas leaks No heat in cold weather – dangerous heat alternatives
Telecommunications Telephone/Cellphone	Emergencies not able to be relayed to dispatch
Telecommunications Internet	Information disruption from external sources including Emergency Management Ontario/Hydro
Mobile Radio/Dispatch	Emergencies not able to be relayed from dispatch Dispatch unable to reach responders
Hospital/Nursing Home	Large number of patients to be evacuated/transported with fire/gas leak
Transportation/Roads	Downed trees/road barriers/increased traffic flow affecting movement including emergency response delay
	No 911 signage
	No road directional signage
	Parking on both sides of streets during events narrows for firetrucks to pass (Peace Park/Parade routes)
	Construction road closure and access to homes/hydrants
	Construction road & Fullerton bridge closure – detour via highway as Government (Red) Bridge has weight restriction of 10 tonnes and truck weight is 15 tonnes.
	Hwy 17/129 intersection -Restricted access if closure/Mutual & Automatic aid response delays

Please note the information on this worksheet should be used in conjunction with other worksheets in this assessment.

## Demographic Profile- Worksheet 4a

Demographic profile of our Community that could impact the risk and response to fire and other emergency including prioritization. Characteristics of age, culture, education, socio-economics, transient populations and vulnerable registered individuals includes:

Ages of Population	# of People	% of Total Population (2021 census)
0-4	40	3.2
5-9	45	3.6
10-14	75	6
15-19	60	4.8
20-24	40	3.2
25-29	40	3.2
30-34	25	2
35-39	55	4.4
40-44	35	2.8
45-49	65	5.2
50-54	90	7.1
55-59	100	7.9
60-64	140	11.1
65-69	120	9.5
70-74	110	8.7
75-79	70	5.6
80-84	70	5.6
85 and over	85	6.7
<b>Total Population</b>	1260	100

### Specific age groups making up large portion of the community?

- Seniors 60+ make up 47.2% of the population
- Primary household maintainers 55+ make up 76.8% of the population

### Groups whose language/cultural practices impact fire safety?

- 1150 residents identify with English

### Transient populations in community (seasonal tourists)?

- Lakeside Park accounts for 102 trailer sites – average occupancy 208 seasonal people \*Community Day weekend visiting population increases

### Specific socio-economic groups/circumstances that impact fire safety in community?

- Lower income/Seniors and equipment kept up to date/change batteries on Fire/CO alarms
- Kitchen fires with seniors
- Rescue challenges with mobility

Please note the information on this worksheet should be used in conjunction with other worksheets in this assessment.

## Demographic Profile- Worksheet 4b

Answers to the questions above:

<b>Demographic Profile Risks:</b> <b>List the demographic groups of concern in the community and the fire and other emergency issues/concerns relating to each group:</b>	
<b>Identified Demographic Group</b>	<b>Issues/Concerns</b>
Large Senior population	Multiple Senior residential buildings High number of seniors receiving assistance Mobility issues Kitchen dangers Vulnerable Persons Registry (limited users) Limited transportation available including accessible transportation
Summer tourist population-Lakeside park	How does the fire department reach this audience with fire safety messages if they don't live in the community Signs up for fire ban & restrictions Town website Social media
Community Day weekend influx	Events: Parade – pedestrian traffic/parking Road closures – notice to department Fireworks – large volume of people at Marina; fire department (2 men & 1 truck) at Smelter Bay to man fireworks display; rest are on standby Baseball tournament – increase in human/vehicle impedes traffic flow for responders
Proposed subdivision across highway 17	Increase in houses will require additional resources for response. Lack of Lake Huron water source restricts water to only hydrants

Please note the information on this worksheet should be used in conjunction with other worksheets in this assessment.

## Hazard Profile- Worksheet 5

Hazard profile of our Community that could impact the risk and response to fire and other emergency includes:

<b>Hazard Profile Risks</b>			
<b>Hazards in the community and the fire/emergency risk of each with assigned Probability, Consequence and Risk Levels to each</b>			
<b>Identified Hazard</b>	<b>Probability</b> (refer to Table 1 for suggested probability levels)	<b>Consequence</b> (refer to Table 2 for suggested Consequence level)	<b>Assigned Risk Level</b> (refer to the Risk Level Matrix for suggested risk levels)
Fires (forest & wild/urban interface)	Unlikely	Minor	Low
Snowstorms/blizzard	Likely	Moderate	Moderate
Ice/Sleet storms i.e MV accident	Likely	Moderate	Moderate
Hailstorms	Unlikely	Minor	Low
Lightning storms	Possible	Moderate	Moderate
Windstorms	Likely	Moderate	Moderate
Extreme temperatures	Likely	Minor	Minor
Building/Structure collapse	Unlikely	Moderate	Moderate
Explosions/fires	Likely	Moderate	Moderate
Boat/Freighter fire - docked	Rare	Moderate	Low
EV battery fire	Rare	Moderate	Low
Transportation accident -passenger road/rail/air/marine	Possible	Moderate	Moderate
Hazardous Materials-fixed site	Rare	Major	Moderate
Hazardous Materials-transport incident	Rare	Major	Moderate
Gas spill - marina	Rare	Moderate	Low
Gas spill – gas station	Rare	Major	Moderate
Adverse event – Smelter Bay	Rare	Major	Moderate
Energy (hydro/nat gas) Emergency	Possible	Moderate	Moderate
Ice/snow storm – power/communication interruption	Possible	Moderate	Moderate
Event Crowd control (social/fire)	Almost certain	Minor	Moderate
Ice rescue – land based	Likely	Major	High Risk
Water rescue- land based	Likely	major	High risk

## Public Safety Profile- Worksheet 6

Public Safety response agencies that might be tasked with or able to assist in the response to emergencies or in mitigating the impact of emergencies. Types of incidents each is able to respond to and issues or concerns that may impact the fire department response:

<b>Public Safety Response Profile Risks</b>			
Other public safety response agencies in our community and the incidents they respond to			
<b>Identified Public Safety Response Agency</b>	<b>Types of Incidents they respond to</b>	<b>What is their Role at the incident</b>	<b>Issues/Concerns</b>
Ontario Provincial Police	Motor Vehicle Accident Fire Scene	Scene control Traffic control	Limited resources to respond & maintain traffic control at scene
Paramedic/Ambulance	Medical/Accident	Public or Firefighter Medical aid	Community Day events & manpower
Thessalon Fire Department	Fire	Incident Command & Assess	Volunteer firefighter's daytime jobs out of town & recruitment/retention
			Land based department – for ice/water rescue
			Funding restrictions and compliance requirements for equipment/PPE
Huron Shores Fire Department	Automatic Aid/Mutual Aid response	Follow Thessalon Incident Command  Currently support with Automatic Aid	Dispatch to HSHD communication  Auto extraction Ice/water rescue - shared service agreement under consideration
Mutual Aid responding municipalities	Mutual aid response to fire	Follow Thessalon Incident Command	Update and redistribute signed agreement via J.Kent
OCWA Ontario Clean Water Agency	Water distribution	Maintain water pressure	Main office - Espanola
Sault Fire Department-Hazmat Team	Hazmat Fire	Command	Availability/Distance
Ministry of Natural Resources	Wild Fire	Command	Timelines with demand
Ontario Fire Marshall Office	Investigation	Investigate/Advise	Timelines with demand
Emergency Management Ontario	Any Major	Command upon request	Timelines with demand
Coast Guard/OPP Marine	Water rescue	Command	Timelines with demand

## Community Services Profile- Worksheet 7

The following organizations, agencies, associations that provide service that may support the fire department in the delivery of public fire safety education, Fire Code inspection and enforcement and emergency response. This may include services in-kind, financial support, provisions of venues for training, increased access to high-risk groups in the community, and temporary shelter for displaced residents following an incident:

<b>Community Services Profile Risks</b>		
Community service agencies and the type of service they can provide		
<b>Community Service Agencies</b>	<b>Types of Assistance they can provide</b>	<b>Issues/concerns</b>
Facebook – Firemen Association	Public Education	Limits of users
Thessalon Public School	In house education	Transfer of knowledge to household
Thessalon Municipal Office	Public education/Communication/ Hosting events for Seniors for education & smoke alarm distribution	# of occurrences/audience includes higher risk members
Canadian Red Cross 705-759-4547 475 Trunk Rd. unit 5 SSM	Emergency supplies – blankets etc.	Declaration of Emergency
Salvation Army 705-759-4143 78 Elgin St. SSM	Emergency Assistance – clothing	Distance - transportation
Fairview Bus lines 705-842-3049 160 Station Rd Thessalon	Bus transportation	Availability
A.J. Bus lines 705-248-2157 3474 Hwy17B Echo Bay	Bus transportation	Availability
Vulnerable Persons Registry	Provides emergency response team with essential info on Vulnerable persons registered – prevent emergencies & provide assistance to those at greater risk	Limited number of people registered.
Churches	Communication via Flyers/Bulletins	None
Legion	Financial Assistance via annual Grant submission	None
Ontario Fire Marshall Public Fire Safety Council	Financial assistance for Resource/training material	Limited to training – not equipment for compliance

Please note the information on this worksheet should be used in conjunction with other worksheets in this assessment.

## **Economic Profile- Worksheet 8**

Industrial or commercial sectors that provide significant economic production and jobs to the local economy and the impact to the community's economy if a fire or other emergency occurred in occupancies housing those sectors:

<b>Economic Profile Risks</b>				
Economies of significant production and jobs and fire or emergency risks				
<b>Identified Occupancy</b>	<b>Key Risk</b>	<b>Probability</b>	<b>Consequence</b>	<b>Assigned Risk Level</b>
Vulnerable Occupancies	Fire/Gas leak	Possible	Minor	Moderate
Birchland Veneer (Town)	Fire	Possible	Major	Moderate
Birchland Veneer (Town)	Gas leak	Possible	Minor	Moderate
Birchland Plywood (Hwy)	Fire	Possible	Major	Moderate
Birchland Plywood (Hwy)	Gas leak	Possible	Minor	Moderate
Smelter Bay	Fire/Spill	Possible	Major	Moderate
Esso	Fire	Possible	Catastrophic	High risk
Esso	Gas leak	Possible	Minor	Moderate
Tulloch Engineering	Fire	Rare	Minor	Low
Jones Valumart	Fire	Possible	Major	Moderate
Jones Valumart	Gas Leak	Possible	Minor	Moderate
Main st pharmacy	Fire	Possible	Major	Moderate
Main st pharmacy	Gas leak	Possible	Minor	Moderate
Credit Union	Fire	Possible	Major	Moderate
Credit Union	Gas leak	Possible	Minor	Moderate
Post Office	Fire	Possible	Major	Moderate
Post Office	Gas leak	Possible	Minor	Moderate

Please note the information on this worksheet should be used in conjunction with other worksheets in this assessment.



## Past Events and Event History Profile- Worksheet 9a

Data trends regarding deaths, injuries, dollar loss, cause. To assist in determining the leading cause of fires and high risk locations and occupancy – in the absence of data, local knowledge to be used as reliable predictor of fire risk.

Worksheet data from 9a will be used for types/causes of fire emergency calls on worksheet 9b.

<b>Municipal Fire Losses, Deaths, Injuries and Causes – Year 2023</b>					
Occupancy Classification	# of fires	\$ Loss	# of injuries	# deaths	Cause
<b>Group A</b> Assembly	0	0	0	0	n/a
<b>Group B</b> Care & treatment	0	0	0	0	n/a
<b>Group C</b> Single Family	3	\$716,000	0	0	undetermined
Multi unit Residential	0	0	0	0	0
Hotel/Motel	0	0	0	0	0
Mobile Homes/Trailers	0	0	0	0	0
Seasonal Homes	0	0	0	0	0
<b>Group D &amp; E</b> Storefront Merchants	0	0	0	0	0
Automotive repair	0	0	0	0	0
Restaurant	0	0	0	0	0
<b>Group F</b> Industrial Public Works	0	0	0	0	0
Smelter Bay	0	0	0	0	0
Birchland (Automatic aid)	0	0	0	0	0
Midway Lumber (Automatic aid)	0	0	0	0	0
Esso Gas station & Truckstop	0	0	0	0	0

Please note the information on this worksheet should be used in conjunction with other worksheets in this assessment.

## Past Events and Event History Profile- Worksheet 9a

<b>Municipal Fire Losses, Deaths, Injuries and Causes – Year 2022</b>					
Occupancy Classification	# of fires	\$ Loss	# of injuries	# deaths	Cause
<b>Group A</b> Assembly	0	0	0	0	
<b>Group B</b> Care & treatment	0	0	0	0	
<b>Group C</b> Single Family	2	undetermined	0	0	undetermined
Multi unit Residential	0	0	0	0	
Hotel/Motel	0	0	0	0	
Mobile Homes/Trailers	0	0	0	0	
Seasonal Homes	0	0	0	0	
<b>Group D &amp; E</b> Storefront Merchants	0	0	0	0	
Automotive repair	0	0	0	0	
Restaurant	0	0	0	0	
<b>Group F</b> Industrial Public Works	0	0	0	0	
Smelter Bay	0	0	0	0	
Birchland (Automatic aid)	0	0	0	0	
Midway Lumber (Automatic aid)	0	0	0	0	
Esso Gas station & Truckstop	0	0	0	0	

Please note the information on this worksheet should be used in conjunction with other worksheets in this assessment.

## Past Events and Event History Profile- Worksheet 9a

<b>Municipal Fire Losses, Deaths, Injuries and Causes – Year 2021</b>					
Occupancy Classification	# of fires	\$ Loss	# of injuries	# deaths	Cause
<b>Group A</b> Assembly	0	0	0	0	
<b>Group B</b> Care & treatment	0	0	0	0	
<b>Group C</b> Single Family	0	0	0	0	
Multi unit Residential	0	0	0	0	
Hotel/Motel	0	0	0	0	
Mobile Homes/Trailers	0	0	0	0	
Seasonal Homes	0	0	0	0	
<b>Group D &amp; E</b> Storefront Merchants	0	0	0	0	
Automotive repair	0	0	0	0	
Restaurant	0	0	0	0	
<b>Group F</b> Industrial Public Works	0	0	0	0	
Smelter Bay	0	0	0	0	
Birchland (Automatic aid)	0	0	0	0	
Midway Lumber (Automatic aid)	0	0	0	0	
Esso Gas station & Truckstop	0	0	0	0	
Other (Hydro pole)	1	n/a	0	0	unknown

Please note the information on this worksheet should be used in conjunction with other worksheets in this assessment.

## Past Loss and Event History Profile- Non-Emergency Calls 9a continued

Previous response data to identify the types of non-fire emergency calls to which the fire department responds. Assists in determining the equipment, training, resources required to respond to non-fire emergency calls.

Non-Fire Emergency Calls						
	Year: 2023		Year: 2022		Year: 2021	
Non Fire Call	Total Calls	% of Calls	Total Calls	% of Calls	Total Calls	% of Calls
Burning Controlled	2	13%	1	7%	2	11%
CO False Call	1	6%	2	14%	0	0
False Fire Call	3	20%	10	72%	11	63%
Medical/Resuscitator calls	0	0	0	0	0	0
Other Response	4	27%	1	7%	2	11%
Overpressure Rupture/Explosion	0	0	0	0	0	0
Pre-Fire Condition/No Fire	0	0	0	0	1	5%
Public Hazard	5	34%	0	0	1	5%
Rescue	0	0	0	0	1	5%
<b>TOTALS</b>	<b>15</b>	<b>100%</b>	<b>14</b>	<b>100%</b>	<b>18</b>	<b>100%</b>

Criteria:

Burning Controlled includes: authorized controlled burning – complain; open air burning/unauthorized controlled burning

CO False: alarm equipment malfunction (no CO present); CO false alarm (no CO present)

False Fire: alarm system equipment – malfunction/accidental activation/human malicious intent/human perceived emergency; other false fire call

Medical/Resuscitator: accident or illness; cut/fracture/fainting/alcohol or drug related/asphyxia/respiratory condition/chest pain or suspected heart attack/CPR administered/Defibrillator used/medical aid not required on arrival/medical false alarm/no action required/other medical resuscitator call/oxygen administered/seizure/traumatic shock/vital signs absent/DOA

Other Response: Assistance not required by other agency/assistance to other agencies/assistance to police/assisting other fire department/automatic aid/mutual aid assistance/other cancelled on route/incident not found/other public service/other response

Overpressure rupture/Explosion: overpressure rupture (no fire – steam boilers or hot water)

Pre-Fire Conditions: lightning (no fire); other -cooking/toasting/smoke/steam; other pre-fire conditions (no heat)/overheat (no fire e.g. engines or mechanical devices)

Public Hazard: CO incident/CO present/Gas leak (natural or propane)/other hazard – powerlines down, arching, public hazard false alarm/public hazard no action required/ruptured water or steam pipe/spill – fuel/miscellaneous – spill toxic chemical

Rescue: animal/building collapse/commercial or industrial accident/home resident accident/low angle rescue (non-fire)/other rescue – elevator/rescue false alarm/no action required/vehicle collision or extraction

## **Past Loss and event History Profile- Worksheet 9b**

Industrial or commercial sectors that provide significant economic production and jobs to the local economy and the impact to the community's economy if a fire or other emergency occurred in occupancies housing those sectors:

<b>Past Loss and Event History Profile Risks</b>				
Risk/cause for each occupancy type <b>and</b> non-fire emergency risks identified in Worksheets 9a. Assigned probability, consequence and risk levels to each cause/risk identified				
<b>Occupancy Type/Location/Risk</b>	<b>Causes</b>	<b>Probability</b>	<b>Consequence</b>	<b>Assigned Risk Level</b>
2023 Group C Residential Huron St.	Undetermined	Possible	Catastrophic	High Risk
2022 Group C Multi-residential Lorne	Undetermined	Unlikely	Moderate	Moderate
2021 Other (Hydro Pole)	Undetermined	Rare	Minor	Low Risk
<b>NON-FIRE</b>				
Burning Controlled	Open air burning	Almost Certain	Moderate	High Risk
CO False alarm	Alarm malfunction	Likely	Minor	Moderate
False Fire call	Alarm Malfunction/Human	Almost certain	Minor	Moderate
Other Response	Incident not found	Likely	Moderate	Moderate
Pre Fire Cond (no fire)	Cooking	Possible	Minor	Moderate
Public Hazard	Gas leak	Likely	Moderate	Moderate

Please note the information on this worksheet should be used in conjunction with other worksheets in this assessment.

## Treatment Options for the Top Risks in our Community Pg1

Preferred treatment options by Risk can be used to assist the fire department to set its type and level of fire protection services:

### Geographic Profile:

<b>Issue &amp; Risk/Concern</b>	<b>Preferred Option &amp; Plan for Treatment</b>
<p>Town is along the Northshore of Lake Huron but with Lighthouse Point and peninsulas within the town, there is wind direction changes from North/East/West and South.</p> <p>Summer Recreational activities on two shorelines.</p> <p>Winter Recreation activities on ice.</p>	<p><b>Accept</b> -Fire Permit – wind restrictions of 15km &amp; permit required for larger than 3x3 feet</p> <p><b>Accept</b> - Land based rescue response for Ice/water rescue  <b>Move towards Transfer:</b> With review of Mutual Aid/service agreement Huron Shores.                      Investigate potential of Coast Guard/OPP marine unit as another source</p>
<p>Thessalon River as it flows into the North Channel bisects the town. Fullerton and Government Road bridges provide north/south access.</p> <p>Summer Recreation activities along river and river mouth.</p> <p>Winter recreation activities on ice.</p>	<p><b>Accept</b> – Land based rescue response for Ice/water rescue  <b>Move towards Transfer:</b> With review of Mutual Aid/service agreement Huron Shores.                      Investigate potential of Coast Guard/OPP marine unit as another source</p>
<p>Highway 17 is a main corridor for west to east travel including transport trucks carrying hazardous goods, increased traffic in summer with tourism and travel trailers.</p>	<p><b>Accept</b> – based on size/location  <b>Mitigate</b> – include in Mutual Aid discussions  <b>Transfer</b> – based on size/location of event                      (Fire Chief to engage Sault Fire Department Hazmat Team)</p>
<p>Highway 129 runs north from highway 17 and is a corridor for travel to Chapleau. The T intersection is directly north of the town with only stop signs on north and south roads.</p>	<p><b>Accept</b> - No plan for treatment</p>
<p>Huron Central Railway Inc passes within 1.6 km north of the town with the bed of the spur into the town owned by The Corporation of the Town of Thessalon. Tracks follow woodland/grassy areas along with housed areas.</p>	<p><b>Accept</b> – based on size/location  <b>Mitigate</b> – include in Mutual Aid discussions  <b>Transfer</b> – based on size/location of event</p>
<p>Fullerton Two lane Bridge used as a detour route for highway 17. Restorations required.</p>	<p><b>Accept</b>  <b>Move towards Transfer</b> - for Restorations</p>
<p>Government Rd (Red) One lane Bridge 10 tonne load limit and 3.0 m vertical clearance. No visual lights to direct traffic. Bridge requires further restoration in near future.</p>	<p><b>Accept</b>  <b>Move towards Transfer</b> - for Restorations</p>
<p>Highway 17 throughway Bridge</p>	<p><b>Accept</b>  <b>Move towards Transfer</b> - for Restorations</p>
<p>Woodland East limit of town south of railway is wooded to the east of abutting township</p>	<p><b>Accept</b> – no plan for treatment</p>

## Treatment Options for the Top Risks in our Community Pg2

Preferred treatment options by Risk can be used to assist the fire department to set its type and level of fire protection services:

### Building Stock Profile:

<b>Issue &amp; Risk/Concern</b>	<b>Preferred Option &amp; Treatment</b>
<b><u>Assembly:</u></b> Arena/Curling Club/Library/Municipal Chambers/Funeral Home/Churches/Fitness Centre/Lodges & Clubs/Schools/Fitness	<b>Accept</b> at this time – <b>Move towards Mitigate &amp; Avoid</b> with: <ul style="list-style-type: none"> <li>• Inspections</li> <li>• Alarm monitor recommendations</li> <li>• Education at school classes (broaden to school assembly)</li> </ul>
<b><u>Care &amp; Treatment:</u></b> Hospital Manor Medical Centre	<b>Mitigate:</b> <ul style="list-style-type: none"> <li>• Inspections</li> <li>• Review Fire Safety Plans</li> <li>• Attend Mock sessions with organizers</li> </ul>
<b><u>Home Occupancy:</u></b> Single Family Multi-Residential Motel Mobile Homes Vacant buildings	<b>Accept</b> – Mobile & Vacant <b>Mitigate</b> – Family/Residentials/Motel <ul style="list-style-type: none"> <li>• Education on social media/Classroom education with materials to bring home</li> <li>• Smoke alarm &amp; battery replacement</li> <li>• Inspections for senior living alone/motel                *check with other municipalities for inspections/fees</li> <li>• <b>Note inspection schedule for new software</b></li> </ul>
<b><u>Business:</u></b> Storefronts Pharmacy Restaurants	<b>Accept:</b> <ul style="list-style-type: none"> <li>• Education on social media – handout pamphlets</li> </ul> <b>Move towards Mitigate</b> with inspections
<b><u>Industrial:</u></b> Public Works Smelter Bay Crematorium Birchland Plywood Birchland Veneer (AA) Midway Lumber (AA) Esso station Marina Gas dock Shaws Garage Mr. Suds Lakeview gas bar (vacant)	<b>Accept</b> – based on size/location  <b>Mitigate</b> - perform inspections/review Fire Safety Plans Tour Smelter Bay operations with fire department  <b>Transfer</b> – Mutual Aid with Huron Shores & may extend further pending the size of the adverse event. <ul style="list-style-type: none"> <li>- External providers as required (i.e. Sault Fire Department Hazmat Team/Ministry of Environment/Emergency Management Ontario)</li> </ul>

## Treatment Options for the Top Risks in our Community Pg3

Preferred treatment options by Risk can be used to assist the fire department to set its type and level of fire protection services:

### Critical Infrastructure Profile:

<b>Issue/Risk Concern</b>	<b>Preferred Option &amp; Treatment</b>
Water Distribution- plant failure/reduced water availability/pressure	<b>Accept</b> <b>Transfer</b> – Water Tower development OCWA to ensure they have contingency plans in place. Review their Emerg Response Plan
Natural Gas Distribution Gas leaks/no heat in winter & dangerous alternatives	<b>Mitigate</b> – Public Education
Telecom – Telephone/Cellphone -unable to reach dispatch	<b>Accept</b>
Telecom – Internet Disrupt info from external source (hydro)	<b>Accept</b>
Mobile Radio dispatch- dispatch unable to reach responders	<b>Accept</b>
Hospital/Nursing Home- large number of patients to move d/t fire or gas leak	<b>Accept</b> <b>Transfer</b> – Hospital/Manor responsibility
Transportation/Roads Downed trees/road barriers/increased traffic flow	<b>Mitigate-</b> Public Works staff
no 911 signage/no road directional signage	<b>Mitigate -</b> Pre plan with Apps/Public Works update street signage
Parking on both sides of streets narrow for firetrucks (events)	<b>Mitigate -</b> Public Works -Set up barriers Engage OPP to assist event blockade
Construction road closure & access to homes and hydrants	<b>Mitigate -</b> Consult with Superintendent/Public Works/Construction company
Construction on bridges & detour via highway	<b>Mitigate -</b> Consult with Superintendent/Public Works/Construction company
Hwy 17/129 restricted access with closure/response delays	<b>Accept</b> – notify for Mutual Aid response



**Treatment Options for the Top Risks in our Community Pg4**

<b>Mandatory Profiles</b>	<b>Top Risk or Issues/Concerns</b>	<b>Preferred Treatment Option</b>
Demographic	Seniors/Vulnerable	<b>Avoid &amp; Mitigate</b> – Education Inspections/smoke alarm program Window signs for assistance
	Summer Tourists	<b>Accept</b> - Posters – education & social media
	Community Day	<b>Accept</b> - Posters – education & social media
	Hwy 17 subdivision	<b>Accept</b> <b>Transfer</b> - Huron Shores Mutual Aid
Hazard Profile	Weather	<b>Accept/Mitigate</b> – Educate public of risks to alternate heat
	Hazard/Gas spill	<b>Accept</b> – based on size <b>Transfer</b> -based on size/cleanup
	Fire- Marine/Vehicle/EV	<b>Accept</b> – based on size/location <b>Mitigate</b> – include in Mutual Aid discussions <b>Transfer</b> – based on size/location
	Adverse event- Smelter Bay	<b>Accept</b> – based on size/location <b>Mitigate</b> – include in Mutual Aid <b>Transfer</b> – based on size/location
	Event Crowd control	<b>Accept/Transfer</b> - PW support/OPP support <b>Mitigate</b> – educate public
	Ice/water rescue	See geographic response
Public Safety Response Profile	Automatic Aid agreement	<b>Mitigate</b> – update agreement
	Mutual Aid agreement	<b>Mitigate</b> – under review Mutual Aid discussions
	Thessalon Fire Department	<b>Accept</b> – volunteers work location <b>Mitigate</b> –Mutual Aid agreement <b>Transfer</b> – engage Province for funding to ensure compliance of equipment/training needs
	External Responders	<b>Accept</b>
Community Services Profile	Vulnerable Persons Registry	<b>Transfer</b> – Support groups should raise awareness to seniors/PWD
	Associations/Public	<b>Mitigate</b> -education to follow through to households from school/events/newsletters/themed public education weeks
Economic Profile	Fire	<b>Accept</b> – based on size/location <b>Mitigate</b> – include in Mutual Aid <b>Transfer</b> – based on size/location
	Leaks/Spills	<b>Accept</b> – based on size/location <b>Mitigate</b> – include in Mutual Aid <b>Transfer</b> – based on size/location
Past Loss & Event History Profile	Fires/Gas leaks	<b>Avoid &amp; Mitigate</b> – via public education