

# LAKE JOHANNA FIRE DEPARTMENT

## 2022 ANNUAL FIRE REPORT



Fire Chief – Tim Boehlke  
Assistant Fire Chief – Eric Nordeen  
Deputy Chief / Emergency Manager – Matt Sather  
Deputy Chief / Fire Marshal – Kris Rewald  
Office Manager – Debi Krause

Serving the Cities of Arden Hills, North Oaks, Shoreview

# Lake Johanna Fire Department 2022 Annual Fire Report

In 2022 the Lake Johanna Fire Department responded to 4,291 calls for service which is an increase of 241 calls, 105.9%, from the previous year. We assisted neighboring Fire Departments a total of 54 times. We received aid 27 times in 2022.

## AUTO-AID / MUTUAL-AID – STRUCTURE FIRES

### Aid Given – 54

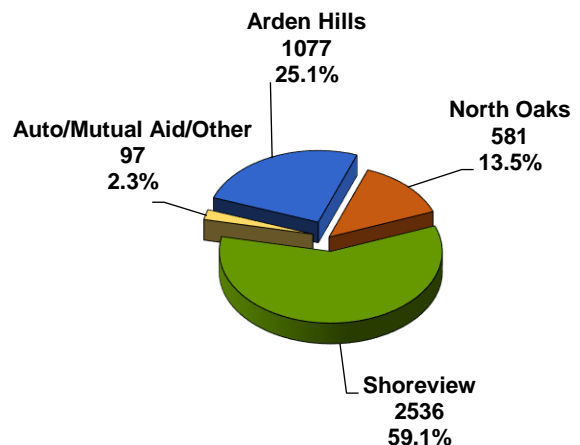
New Brighton – 3 calls  
 Roseville – 19 calls  
 Vadnais Heights – 8 calls  
 White Bear Lake – 6 calls

### Aid Received – 27

Arden Hills – 10 calls  
 North Oaks – 0 calls  
 Shoreview – 17 calls

## CALLS BY CITY

	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>
<b>ARDEN HILLS:</b>	1039	1138	1044	<b>1178</b>	<b>1077</b>
<b>NORTH OAKS:</b>	556	573	497	<b>564</b>	<b>581</b>
<b>SHOREVIEW:</b>	1948	2037	2020	<b>2211</b>	<b>2536</b>
<b>AUTO AID:</b>	39	65	57	<b>32</b>	<b>54</b>
<b>MUTUAL AID:</b>	7	7	9	<b>14</b>	<b>25</b>
<b>OTHER:</b>				<b>51</b>	<b>15</b>
<b>TOTALS:</b>	<b>3589</b>	<b>3820</b>	<b>3627</b>	<b>4050</b>	<b>4291</b>



City of Shoreview calls for service increased by 325 calls or 14.6% over the previous year 2021. The City of Arden Hills calls decreased 101 calls, or .85% over last year. The City of North Oaks calls increased by 17 calls or 3%.

## CLOSEST UNIT DISPATCHING

Closest Unit Dispatching is used for specific Emergency Calls: Structure Fires, Cardiac Arrest calls and Water Emergencies. When one of those call types occurs, the Computer Aided Dispatch will instantly determine if there is a response unit from another agency that is closer to the incident than the host units dispatched, if so, that closest unit is added to the response.

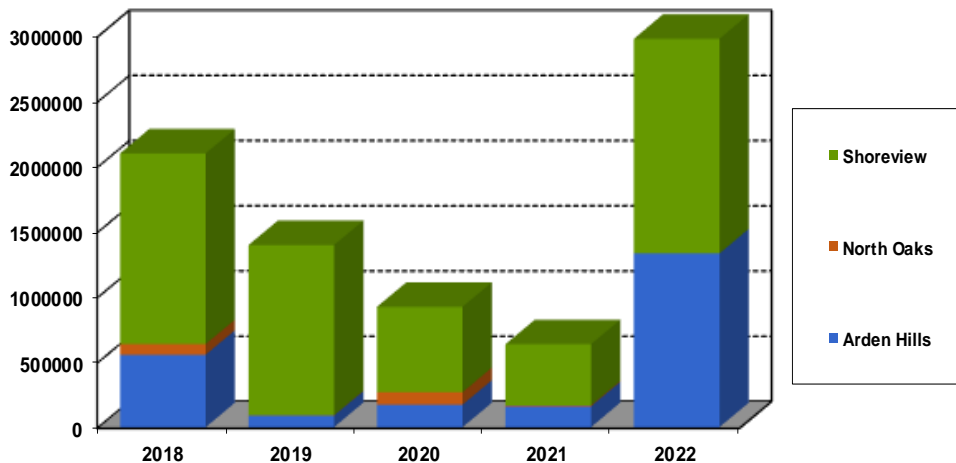
Of the 72 Closest Unit Dispatches in 2022, Lake Johanna responded on five incidents (four Cardiac Arrests and one Accident Delta call). We received aid on seven incidents (four Cardiac Arrests, one Dwelling fire and two Water Emergencies).

## ESTIMATED FIRE DOLLAR LOSS

	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>
<b>ARDEN HILLS:</b>	\$555,000	\$88,950	\$172,400	\$159,200	\$1,332,957
<b>NORTH OAKS:</b>	\$82,000	\$2,351	\$96,100	\$7,500	\$0
<b>SHOREVIEW:</b>	\$1,462,750	\$1,304,629	\$654,300	\$469,400	\$1,645,920
<b>TOTALS:</b>	<b>\$2,099,750</b>	<b>\$1,395,930</b>	<b>\$922,800</b>	<b>\$636,101</b>	<b>\$2,978,877</b>

The City of Shoreview had significantly higher dollar loss of \$1,645,920 in 2022 versus the previous year. The City of Arden Hills had the next highest dollar loss for the year \$1,332,957. The City of North Oaks had no dollar loss in 2022.

### ANNUAL DOLLAR LOSS COMPARISON



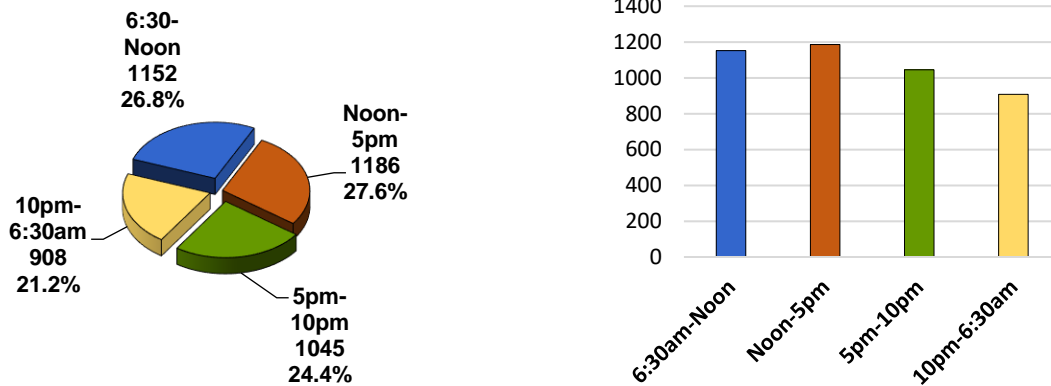
Over the last 5 years the cities combined average dollar loss from Fire was \$1,606,691.

In 2022, Building fires attributed for most of the dollar loss totaling about \$2,821,289. The next highest loss total was from Vehicle fires which totaled \$133,601.

# THE DEPARTMENT RESPONSE

On Duty Shift crews handled 98.5% of the calls responding to 4219 calls in 2022. Stations were called back to assist the Shift Crews 65 times throughout the year which is roughly 1.5% of the calls.

## CALL BREAKDOWN BY SHIFTS



## CALL OVERLAP

It is very common to have more than one incident occurring at a time, the charts below show the number of times each month we had two, three or four calls overlapping. Our goal is to have personnel available and able to respond to an emergency fire or EMS call that occurs.

### 2021

	Double	Triple	Quadruple	
Jan	35	5	0	282 Calls
Feb	36	2	1	271 Calls
Mar	38	3	0	279 Calls
Apr	42	7	2	306 Calls
May	46	8	1	339 Calls
Jun	48	7	2	339 Calls
Jul	52	11	2	354 Calls
Aug	73	20	3	418 Calls
Sep	51	4	0	364 Calls
Oct	46	11	3	347 Calls
Nov	47	7	2	354 Calls
Dec	66	11	1	397 Calls
<b>Total</b>	<b>580</b>	<b>96</b>	<b>17</b>	<b>4050 Calls</b>

### 2022

	Double	Triple	Quadruple	
Jan	53	7	1	369 Calls
Feb	50	10	3	285 Calls
Mar	26	8	0	301 Calls
Apr	39	11	2	330 Calls
May	62	14	6	367 Calls
Jun	53	8	2	369 Calls
Jul	62	10	1	396 Calls
Aug	55	5	0	385 Calls
Sep	54	12	0	371 Calls
Oct	55	6	1	364 Calls
Nov	52	8	2	344 Calls
Dec	62	14	6	410 Calls
<b>Total</b>	<b>623</b>	<b>113</b>	<b>24</b>	<b>4291 Calls</b>

# EMERGENCY RESPONSE TIME

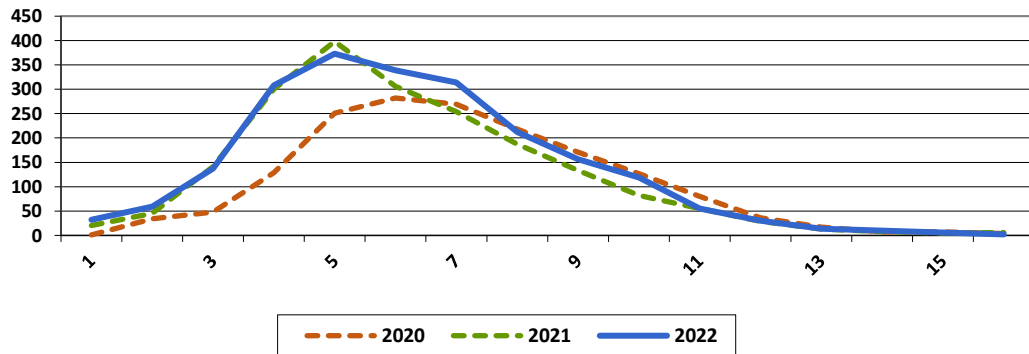
	<u>2020</u>	<u>2021</u>	<u>2022</u>
Emergency Response Time Average to Contract Cities	5:35	5:38	5:49
Median Response Time to Contract Cities	5:20	5:10	5:29

## AVERAGE RESPONSE TIME BY CITY Emergency Calls Only

	Average Initial Response Time	Median Response Time
Arden Hills	6:17	6:08
North Oaks	7:48*	8:18*
Shoreview	5:07	4:46
	5:49	5:10

*\*North Oaks (excluding 5919 Centerville Rd, 325-525-400 Wilkinson)  
Average Response Time: 6:11 Median 5:57*

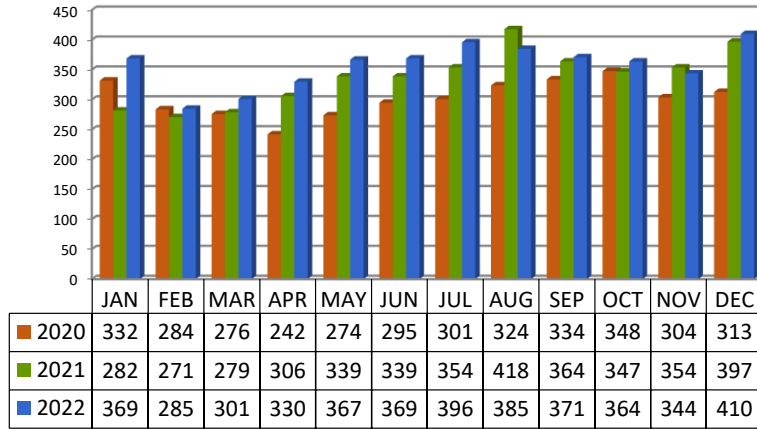
## 3-year Comparison Response Time in Minutes



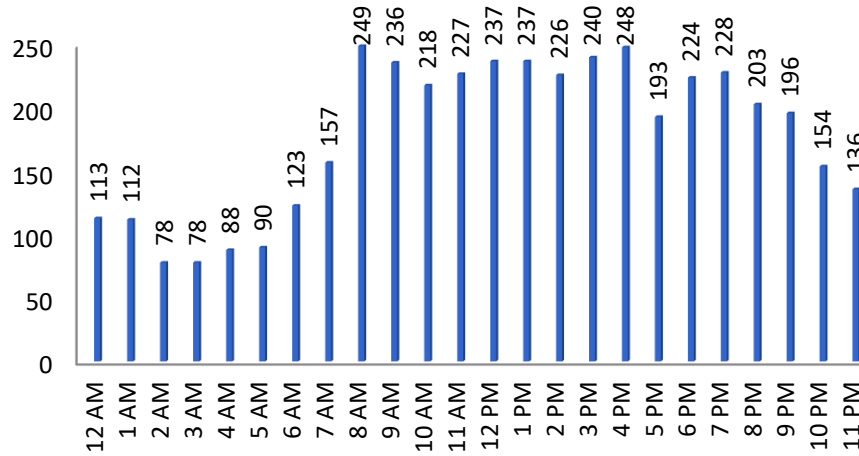
# ANNUAL ALARM SUMMARY REPORT

Situation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1 - Fire	9	7	2	5	7	9	8	3	6	6	4	4	70
2 - Overpressure Rupture, Explosion, Overheat (No Fire)	1									1			2
3 - Rescue & Emergency Medical Service Incident	255	202	223	242	281	263	276	298	280	278	270	304	3172
4 - Hazardous Condition (No Fire)	6	11	6	6	20	13	8	18	14	9	10	10	131
5 - Service Call	28	18	19	13	17	23	24	18	17	16	10	26	229
6 - Good Intent Call	46	32	36	44	33	48	47	32	31	34	37	48	468
7 - False Alarm & False Call	23	15	15	20	9	13	33	15	22	19	13	18	215
8 - Severe Weather & Natural Disaster								1					1
9 - Special Incident Type	1								1	1			3
<b>Grand Total</b>	<b>369</b>	<b>285</b>	<b>301</b>	<b>330</b>	<b>367</b>	<b>369</b>	<b>396</b>	<b>385</b>	<b>371</b>	<b>364</b>	<b>344</b>	<b>410</b>	<b>4291</b>

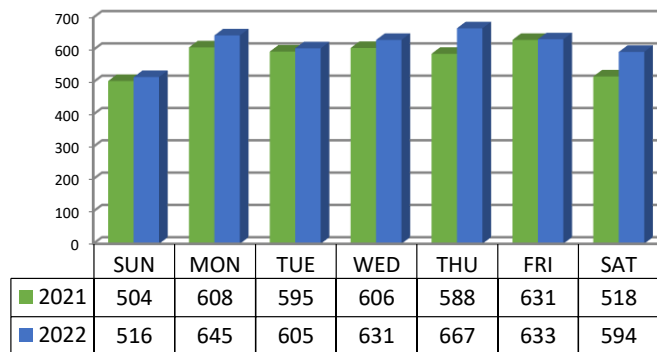
## CALLS BY MONTH



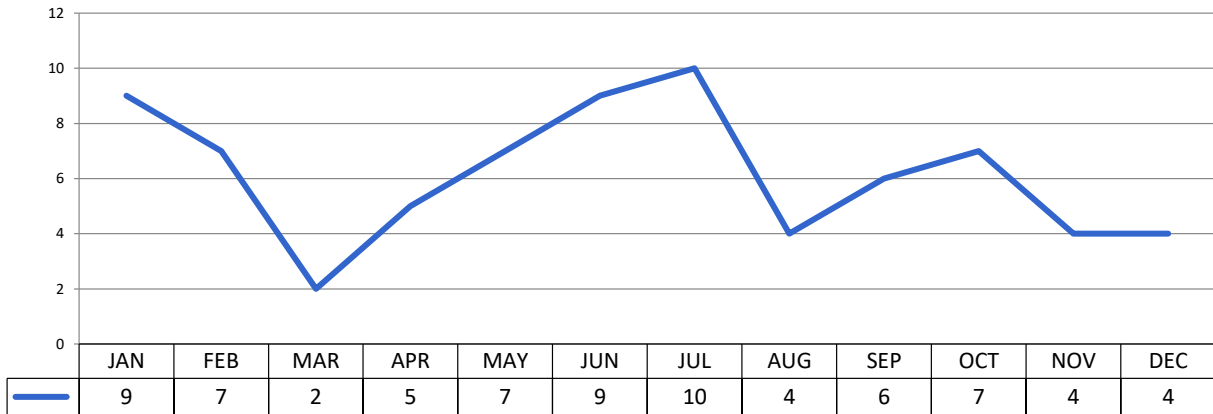
## CALLS BY TIME OF DAY



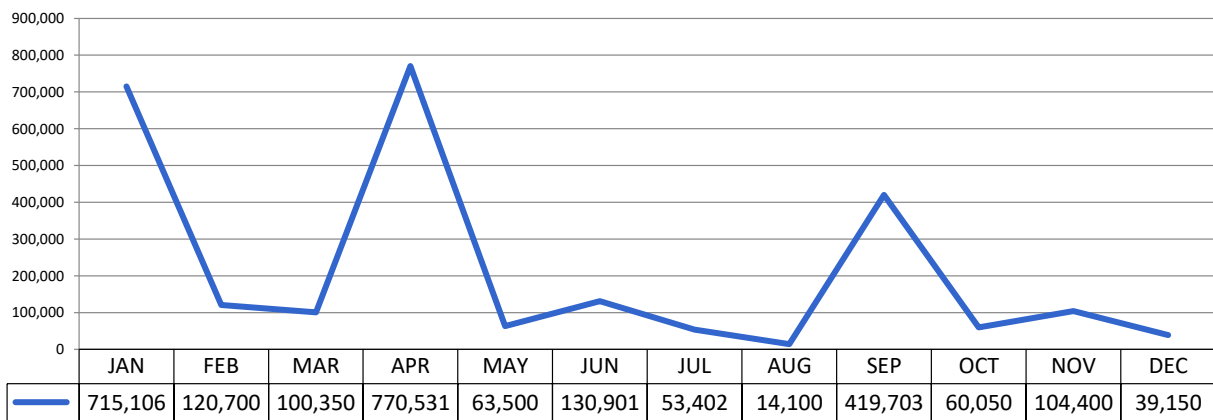
## CALLS BY DAY OF WEEK



## FIRE INCIDENTS (100 Series – Fire)



## FIRE DOLLAR LOSS BY MONTH



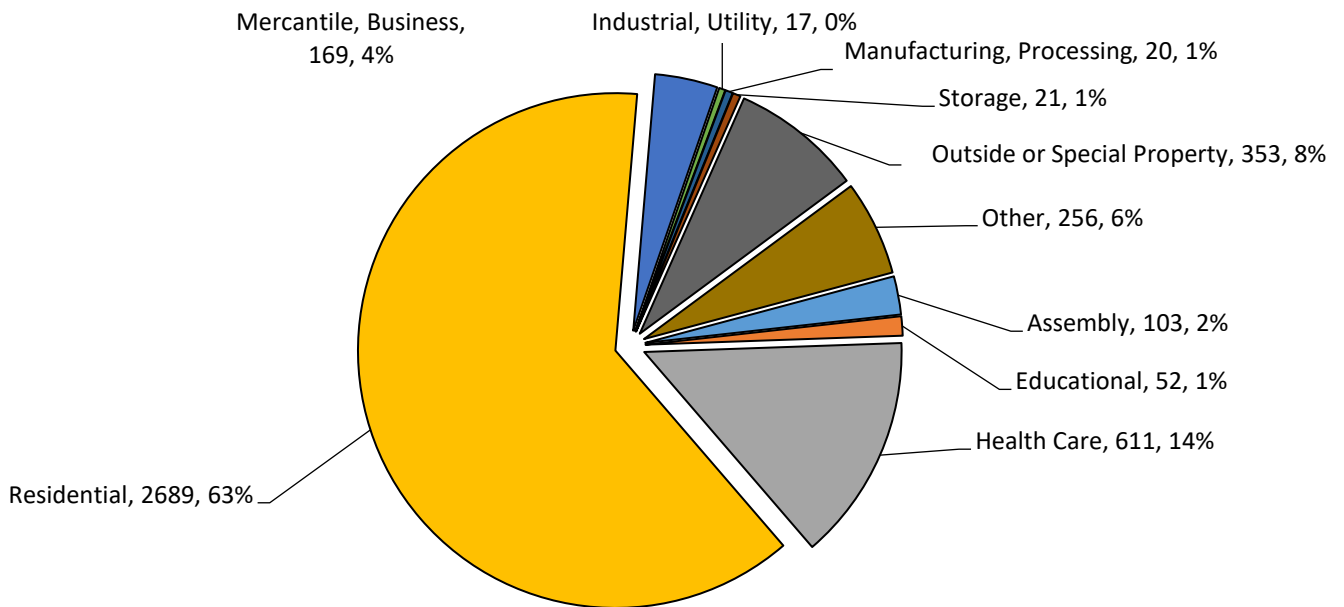
## FIRES BY INCIDENT TYPE

Incident Type	Total Incidents	Total Incidents % of Incidents	Total Property Loss	Total Content Loss	Total Loss	Total Loss % of Total
<b>Incident Type Category: 1 - Fire</b>						
111 - Building fire	27	0.60%	1,916,250.00	905,040.00	2,821,289.00	94.55%
113 - Cooking fire, confined to container	7	0.20%	1	1	2	0.00%
116 - Fuel burner/boiler malfunction, fire confined	1	0.00%	5,000.00	5,000.00	10,000.00	0.34%
118 - Trash or rubbish fire, contained	3	0.10%	2,500.00	0	2,500.00	0.08%
123 - Fire in portable building, fixed location	2	0.00%	2,000.00	0	2,000.00	0.07%
130 - Mobile property (vehicle) fire, other	1	0.00%	200	1,000.00	1,200.00	0.04%
131 - Passenger vehicle fire	10	0.20%	132,400.00	1,201.00	133,601.00	4.48%
140 - Natural vegetation fire, other	1	0.00%	100	100	200	0.01%
142 - Brush or brush-and-grass mixture fire	3	0.10%	0	0	0	0.00%
143 - Grass fire	6	0.10%	1	0	1	0.00%
150 - Outside rubbish fire, other	1	0.00%	0	0	0	0.00%
151 - Outside rubbish, trash or waste fire	4	0.10%	1	1	2	0.00%
154 - Dumpster or other outside trash receptacle fire	1	0.00%	200	0	200	0.01%
162 - Outside equipment fire	3	0.10%	350	0	350	0.01%
<b>Total:</b>	<b>70</b>	<b>Total: 1.6%</b>	<b>Total: 2,059,003.00</b>	<b>Total: 912,343.00</b>	<b>Total: 2,971,345.00</b>	<b>Total: 99.58%</b>

# RESPONSE TO PROPERTY TYPES

(Annual Fires by Property Category)

Situation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1 - Assembly	9	7	10	10	8	7	13	9	2	7	11	10	103
2 - Educational		5	5	7	9	2		4	8	6	3	3	52
3 - Health Care, Detention & Correction	55	46	39	45	62	42	43	49	63	48	63	56	611
4 - Residential	230	170	178	203	226	239	260	242	221	245	220	255	2689
5 - Mercantile, Business	13	12	16	8	11	16	20	17	22	8	9	17	169
6 - Industrial, Utility, Defense, Agriculture, Mining		1	3	3		3		1		3	2	1	17
7 - Manufacturing, Processing		2			2	1		4	6	3		2	20
8 - Storage	1	3	2	3	4		2	1	2			3	21
9 - Outside or Special Property	29	27	28	27	25	37	35	32	30	31	18	34	353
none	29	12	20	24	21	22	24	26	17	13	18	30	256
<b>Grand Total</b>	<b>366</b>	<b>285</b>	<b>301</b>	<b>330</b>	<b>368</b>	<b>369</b>	<b>397</b>	<b>385</b>	<b>371</b>	<b>364</b>	<b>344</b>	<b>411</b>	<b>4291</b>



Of the 4,291 calls for service in 2022, 2,689 of those calls were to **Residential** properties, the next highest category was **Health Care** facilities where we responded to 611 times; these include health clinics, senior assisted living apartments as well as nursing homes. **Outside, Special Properties** include calls to fires, accidents and EMS calls on roadways as well as open spaces, and parks that accounted for 353 of the calls for the year.



# INCIDENT TYPE REPORT

Incident Type	Total Incidents	Total Incidents % of Incidents
<b>Incident Type Category: 1 - Fire</b>		
111 - Building fire	27	0.60%
113 - Cooking fire, confined to container	7	0.20%
116 - Fuel burner/boiler malfunction, fire confined	1	0.00%
118 - Trash or rubbish fire, contained	3	0.10%
123 - Fire in portable building, fixed location	2	0.00%
130 - Mobile property (vehicle) fire, other	1	0.00%
131 - Passenger vehicle fire	10	0.20%
140 - Natural vegetation fire, other	1	0.00%
142 - Brush or brush-and-grass mixture fire	3	0.10%
143 - Grass fire	6	0.10%
150 - Outside rubbish fire, other	1	0.00%
151 - Outside rubbish, trash or waste fire	4	0.10%
154 - Dumpster or other outside trash receptacle fire	1	0.00%
162 - Outside equipment fire	3	0.10%
	<b>Total: 70</b>	<b>Total: 1.6%</b>
<b>Incident Type Category: 2 - Overpressure Rupture, Explosion, Overheat (No Fire)</b>		
200 - Overpressure rupture, explosion, overheat, other	1	0.00%
251 - Excessive heat, scorch burns with no ignition	1	0.00%
	<b>Total: 2</b>	<b>Total: 0.0%</b>
<b>Incident Type Category: 3 - Rescue &amp; Emergency Medical Service Incident</b>		
300 - Rescue, EMS incident, other	2	0.00%
3009 - Person Down	118	2.70%
311 - Medical assist, assist EMS crew	2,506	58.40%
320 - Emergency medical service, other	21	0.50%
321 - EMS call, excluding vehicle accident with injury	385	9.00%
322 - Motor vehicle accident with injuries	83	1.90%
323 - Motor vehicle/pedestrian accident (MV Ped)	1	0.00%
324 - Motor vehicle accident with no injuries.	33	0.80%
331 - Lock-in (if lock out , use 511 )	1	0.00%
341 - Search for person on land	2	0.00%
352 - Extrication of victim(s) from vehicle	2	0.00%
353 - Removal of victim(s) from stalled elevator	7	0.20%
361 - Swimming/recreational water areas rescue	1	0.00%
362 - Ice rescue	1	0.00%
371 - Electrocution or potential electrocution	1	0.00%
381 - Rescue or EMS standby	8	0.20%
	<b>Total: 3,172</b>	<b>Total: 73.9%</b>
<b>Incident Type Category: 4 - Hazardous Condition (No Fire)</b>		
400 - Hazardous condition, other	1	0.00%
410 - Combustible/flammable gas/liquid condition, other	1	0.00%
411 - Gasoline or other flammable liquid spill	5	0.10%
412 - Gas leak (natural gas or LPG)	37	0.90%
413 - Oil or other combustible liquid spill	1	0.00%
421 - Chemical hazard (no spill or leak)	1	0.00%
422 - Chemical spill or leak	1	0.00%
424 - Carbon monoxide incident	16	0.40%
440 - Electrical wiring/equipment problem, other	3	0.10%
442 - Overheated motor	2	0.00%
444 - Power line down	43	1.00%
445 - Arcing, shorted electrical equipment	6	0.10%
460 - Accident, potential accident, other	2	0.00%
463 - Vehicle accident, general cleanup	10	0.20%
481 - Attempt to burn	2	0.00%
	<b>Total: 131</b>	<b>Total: 3.1%</b>

# INCIDENT TYPE REPORT *..continued*

Incident Type Category: 5 - Service Call		
500 - Service call, other	2	0.00%
5009 - Service Call, Keybox Request	1	0.00%
510 - Person in distress, other	7	0.20%
512 - Ring or jewelry removal	1	0.00%
521 - Water evacuation	1	0.00%
522 - Water or steam leak	6	0.10%
531 - Smoke or odor removal	19	0.40%
542 - Animal rescue	2	0.00%
550 - Public service assistance, other	4	0.10%
551 - Assist police or other governmental agency	9	0.20%
552 - Police matter	3	0.10%
553 - Public service	51	1.20%
554 - Assist invalid	40	0.90%
561 - Unauthorized burning	10	0.20%
571 - Cover assignment, standby, moveup	73	1.70%
	<b>Total: 229</b>	<b>Total: 5.3%</b>
Incident Type Category: 6 - Good Intent Call		
600 - Good intent call, other	6	0.10%
611 - Dispatched and cancelled en route	196	4.60%
6111 - EMS Dispatched and cancelled en route	207	4.80%
621 - Wrong location	3	0.10%
622 - No incident found on arrival at dispatch address	17	0.40%
631 - Authorized controlled burning	3	0.10%
632 - Prescribed fire	1	0.00%
641 - Vicinity alarm (incident in other location)	1	0.00%
650 - Steam, other gas mistaken for smoke, other	1	0.00%
651 - Smoke scare, odor of smoke	20	0.50%
652 - Steam, vapor, fog or dust thought to be smoke	2	0.00%
661 - EMS call, party transported by non-fire agency	1	0.00%
671 - HazMat release investigation w/no HazMat	10	0.20%
	<b>Total: 468</b>	<b>Total: 10.9%</b>
Incident Type Category: 7 - False Alarm & False Call		
700 - False alarm or false call, other	3	0.10%
712 - Direct tie to FD, malicious false alarm	1	0.00%
714 - Central station, malicious false alarm	2	0.00%
715 - Local alarm system, malicious false alarm	1	0.00%
731 - Sprinkler activation due to malfunction	9	0.20%
732 - Extinguishing system activation due to malfunction	1	0.00%
733 - Smoke detector activation due to malfunction	13	0.30%
734 - Heat detector activation due to malfunction	1	0.00%
735 - Alarm system sounded due to malfunction	38	0.90%
736 - CO detector activation due to malfunction	22	0.50%
740 - Unintentional transmission of alarm, other	14	0.30%
7409 - Area of Refuge Alarm	1	0.00%
741 - Sprinkler activation, no fire - unintentional	6	0.10%
742 - Extinguishing system activation	1	0.00%
743 - Smoke detector activation, no fire - unintentional	30	0.70%
744 - Detector activation, no fire - unintentional	4	0.10%
745 - Alarm system activation, no fire - unintentional	53	1.20%
746 - Carbon monoxide detector activation, no CO	15	0.30%
	<b>Total: 215</b>	<b>Total: 5.0%</b>
Incident Type Category: 8 - Severe Weather & Natural Disaster		
814 - Lightning strike (no fire)	1	0.00%
	<b>Total: 1</b>	<b>Total: 0.0%</b>
Incident Type Category: 9 - Special Incident Type		
900 - Special type of incident, other	1	0.00%
911 - Citizen complaint	2	0.00%
	<b>Total: 3</b>	<b>Total: 0.1%</b>
	<b>Total: 4,291</b>	<b>Total: 100.0%</b>

## 2022 PUBLIC FIRE EDUCATION

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Scout Tours/Demos				1	2					1			4
Truck/Station Tours				1	4	4	5	2	5	17	1	1	40
Fire Extinguisher Training				2					3				5
Fire Drills/Smoke Alarm Check			12		1				1	6			20
Parades					1	2	5	1					9
Fire Truck Rides						1							1
Block Parties						1		108	1	3		2	115
Misc			3		1	1			3	1		2	11
EMS Standby						1							1
<b>Monthly Totals</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>4</b>	<b>9</b>	<b>10</b>	<b>10</b>	<b>111</b>	<b>13</b>	<b>28</b>	<b>1</b>	<b>5</b>	<b>206</b>

## 2022 MONTHLY INSPECTION REPORT

Inspection Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total
Consultation - General	4	3	3	2	2			1	1	1	3	6	26
Consultation - Site	3	6	3	2	2		2	2	1	1	1		23
Consultation-General	1	1	6	2	1	2		1	2	5	1	3	25
Consultation-Site	1	1	1			1							4
Daycare - Inspection												3	3
Fire Alarm System - Plan Review	5	2	7	3	14	3	2	1		2	1	3	43
Fire Code Complaint - Inspection	2	2	13	6	11	2	5	4	5	1	2	9	62
General - Plan Review			1	1	1	1			1			2	7
Inspection - Business License											27	15	42
Inspection - Certificate of Occupancy		1		1						1			3
Inspection - Construction Site						2							2
Inspection - Fire Alarm	2	3	1	3	12	10			1	1	6	3	42
Inspection - Fire Prevention Activity										3			3
Inspection - Fire Protection	3	7	8		16	5	4	13	5	20	7	4	92
Inspection - Fireworks					2	4							6
Inspection - General	2		16	1	4	3	13	10	12	4	2		67
Inspection - Hoarding								4					4
Inspection - Site					1								1
Inspection - Sprinkler System	6	2	3	6	10	6	20	16	3	6	7	2	87
Inspection-Business License												2	2
Inspection-Cert of Occupancy								1					1
Inspection-Fire Alarm					2						1	1	4
Inspection-General							1		9				10
Inspection-Reinspection		4	6	2	3	1	2	5	3	4		4	34
Inspection-Sprinkler System	5	1	1	1	2		2	1	2	4		2	21
Misc. - Inspection											1		1
Multi-Tenant - Inspection											8	25	33
Public Education - General												1	1
Sprinkler System - Plan Review	4	2	5	4	4	34	8	5		4	6	5	81
Temporary Membrane Structure - Inspection	1		1		2			2	1				7
<b>Grand Total</b>	<b>39</b>	<b>35</b>	<b>75</b>	<b>34</b>	<b>89</b>	<b>74</b>	<b>59</b>	<b>66</b>	<b>46</b>	<b>57</b>	<b>73</b>	<b>90</b>	<b>737</b>