

LAKE JOHANNA FIRE DEPARTMENT

2020 ANNUAL FIRE REPORT



**REPORT PREPARED BY:
DEBI KRAUSE
OFFICE MANAGER
&
TIM BOEHLKE
FIRE CHIEF**

Lake Johanna Fire Department 2020 Annual Fire Report

In 2020 the Lake Johanna Fire Department responded to 3,627 calls for service which is a decrease of 193 calls from the previous year. We assisted neighboring Fire Departments a total of 66 times. Automatic Aid responses totaled 57 calls; Mutual Aid Responses totaled 9 calls over the last year.

Automatic Aid – Given: 57

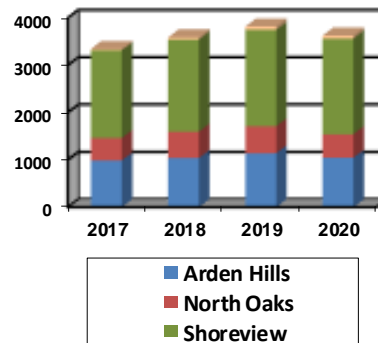
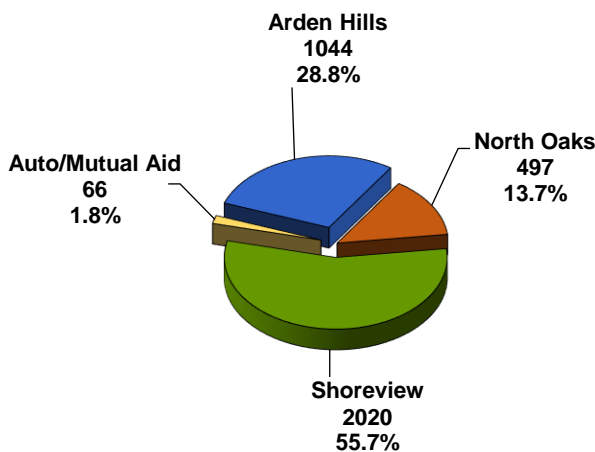
- Roseville- 18 calls
- Little Canada – 17 calls
- Vadnais Heights- 10 calls
- White Bear Twp- 5 calls
- White Bear Lake- 7 calls

Mutual Aid – Given: 9

- New Brighton- 4 calls
- Becker, Mn – 1 call
- St. Paul – 4 calls

CALLS BY CITY

	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>
ARDEN HILLS:	930	986	1039	1138	1044
NORTH OAKS:	406	471	556	573	497
SHOREVIEW:	1784	1858	1948	2037	2020
AUTO AID:	22	22	39	65	57
MUTUAL AID:	9	10	7	7	9
TOTALS:	3151	3347	3589	3820	3627



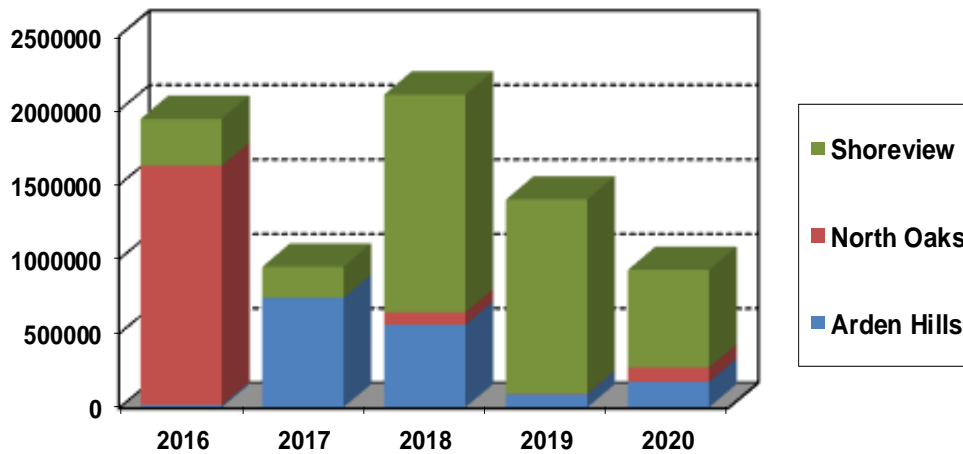
City of Shoreview calls for service decreased by 17 calls over last year, which was 55.7% of total calls for 2020. The City of Arden Hills accounted for 28.8% of the calls, down by 94 calls over last year. The City of North Oaks had also decreased by 76 calls in 2020 which represents 13.7% of the total calls.

ESTIMATED FIRE DOLLAR LOSS

	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>
ARDEN HILLS:	\$ 14,100	\$736,200	\$555,000	\$88,950	\$172,400
NORTH OAKS:	\$1,608,074	\$0	\$82,000	\$2,351	\$96,100
SHOREVIEW:	\$ 314,802	\$208,300	\$1,462,750	\$1,304,629	\$654,300
TOTALS:	\$1,936,976	\$944,500	\$2,099,750	\$1,395,930	\$922,800

The City of Shoreview had \$654,300 in fire dollar loss in 2020 down almost half from the previous year. The City of Arden Hills had \$172,400 in fire dollar loss which was doubled from 2019. The City of North Oaks recorded \$96,100 in fire dollar, up from 2019.

ANNUAL DOLLAR LOSS COMPARISON



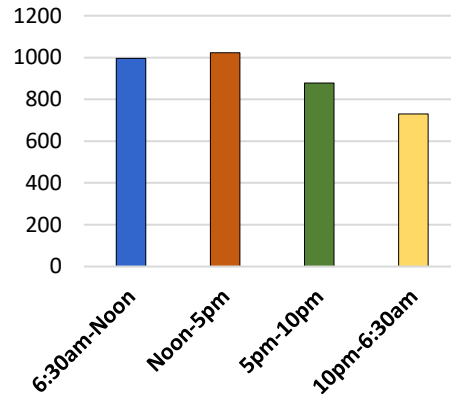
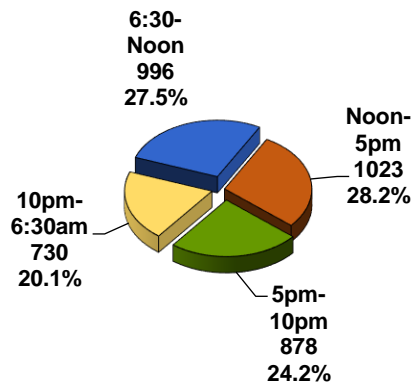
Over the last 5 years the cities combined average dollar loss from Fire was \$1,459,991.

In 2020, Building fires attributed for most of the dollar loss totaling about \$848,200. The next highest loss total was from Vehicle fires which totaled \$56,600.

THE DEPARTMENT RESPONSE

On Duty Shift crews handled 98.8% of the calls responding to 3,585 calls in 2020. Stations were called back to assist the Shift Crews 42 times throughout the year which is roughly 1.2% 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.

2020

Double Triple Quadruple

Month	Double	Triple	Quadruple	Total	calls
Jan	38	5	1	332	calls
Feb	38	7	1	284	calls
Mar	30	3	0	276	calls
Apr	25	2	0	242	calls
May	32	0	0	274	calls
Jun	43	1	1	295	calls
Jul	41	3	1	301	calls
Aug	50	5	0	324	calls
Sep	44	8	1	334	calls
Oct	43	3	1	348	calls
Nov	36	4	0	304	calls
Dec	45	6	1	313	calls
Total	465	47	7	3627	

2019

Double Triple Quadruple

Month	Double	Triple	Quadruple	Total	calls
Jan	33	5	0	299	calls
Feb	47	8	2	310	calls
Mar	38	5	1	301	calls
Apr	40	8	1	316	calls
May	39	3	1	328	calls
Jun	37	5	2	311	calls
Jul	46	6	0	338	calls
Aug	52	4	2	354	calls
Sep	33	7	0	280	calls
Oct	42	2	0	318	calls
Nov	44	5	1	328	calls
Dec	54	7	1	337	calls
Total	505	65	11	3820	

RESPONSE TIME

	<u>2018</u>	<u>2019</u>	<u>2020</u>
Emergency Response Time Average to Contract Cities	5:31	5:32	5:35

AVERAGE RESPONSE TIME BY CITY Emergency Calls Only

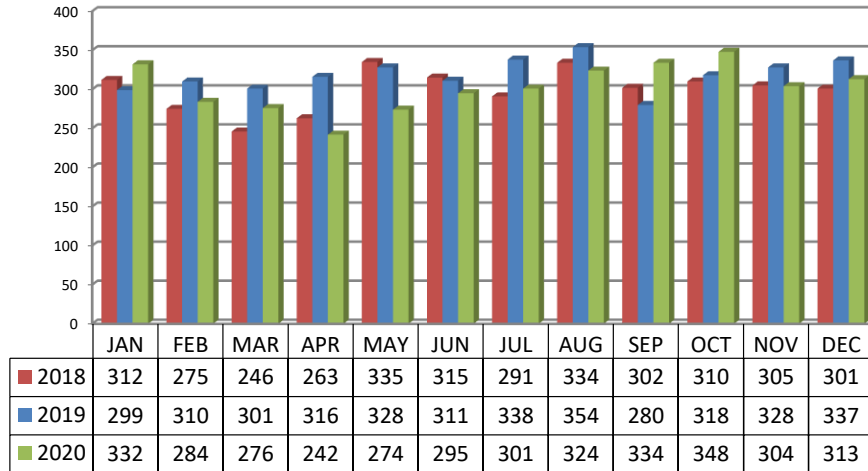
	Initial Response Avg. Response Time
Arden Hills	6:00
North Oaks	7:33
Shoreview	4:50
	5:35

North Oaks Average Response Time: 6:36 (excluding 5919 Centerville Rd.)

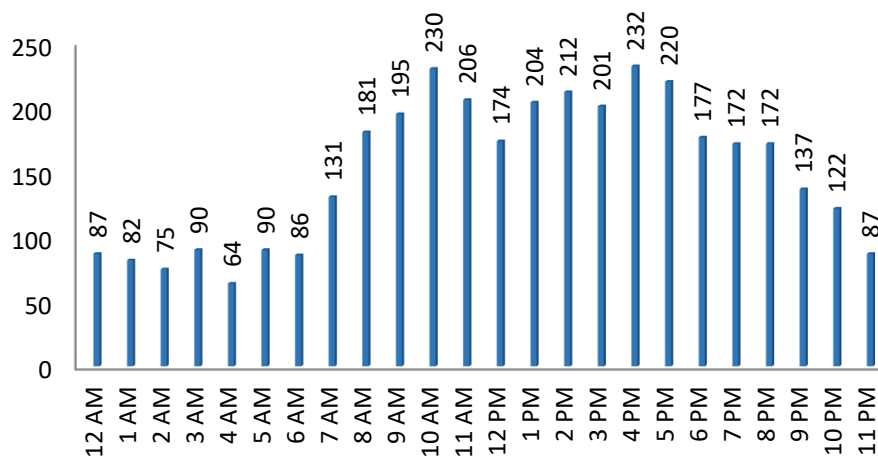
ANNUAL ALARM SUMMARY REPORT

Situation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total
100 Series - Fire	5	1	1	7	7	5	8	4	5	3	1	3	50
200 Series - Overpressure Rupture, Explosion, Overheat (No Fire)			1						1				2
300 Series - Rescue & Emergency Medical Service Incident	261	221	215	178	191	231	218	240	239	260	213	234	2700
400 Series - Hazardous Condition (No Fire)	6	7	10	7	7	6	12	21	16	10	8	5	115
500 Series - Service Call	8	9	9	15	21	9	11	13	23	22	18	17	175
600 Series - Good Intent Call	41	33	24	26	33	27	36	31	32	44	50	27	404
700 Series - False Alarm & False Call	11	13	15	9	14	16	16	15	18	9	12	26	174
800 Series - Severe Weather & Natural Disaster			1										1
900 Series - Special Incident Type					1	1					2	1	5
Grand Total	332	284	276	242	274	295	301	324	334	348	304	313	3627

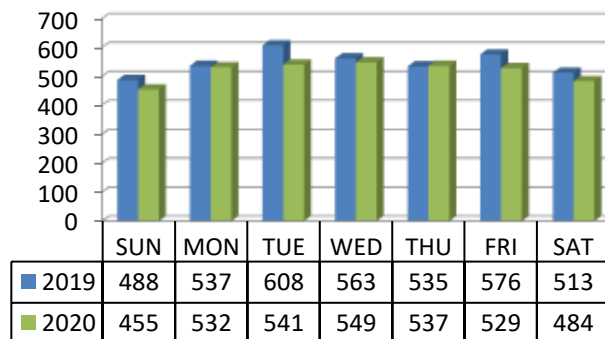
CALLS BY MONTH



CALLS BY TIME OF DAY

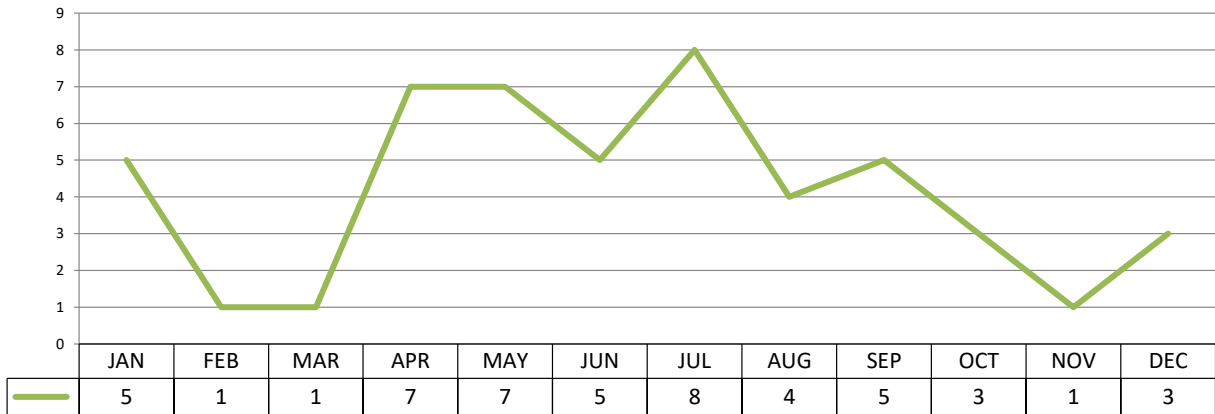


CALLS BY DAY OF WEEK

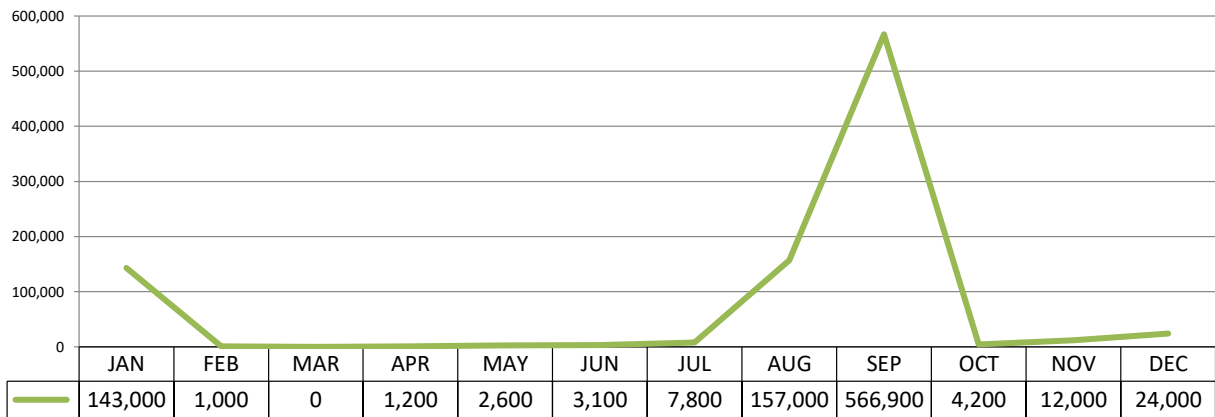


FIRE INCIDENTS

(100 Series – Fire)



FIRE DOLLAR LOSS BY MONTH



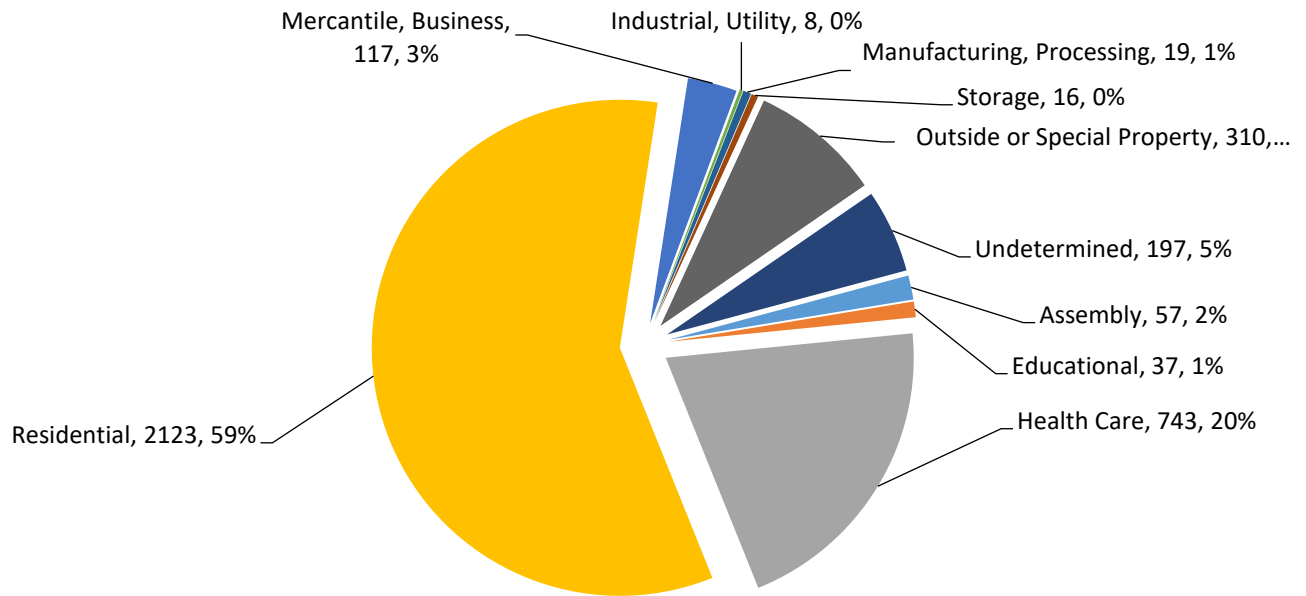
FIRES BY INCIDENT TYPE

Incident Type	Total Incidents	Total Incidents % of Incidents	Total Property Loss	Total Content Loss	Total Loss	Total Loss % of Total
Incident Type Category: 1 - Fire						
111 - Building fire	11	0.3%	746,200.00	102,000.00	848,200.00	91.92%
113 - Cooking fire, confined to container	7	0.2%	2,300.00	200.00	2,500.00	0.27%
118 - Trash or rubbish fire, contained	5	0.1%	0.00	2,000.00	2,000.00	0.22%
130 - Mobile property (vehicle) fire, other	1	0.0%	1,500.00	0.00	1,500.00	0.16%
131 - Passenger vehicle fire	10	0.3%	46,500.00	10,100.00	56,600.00	6.13%
140 - Natural vegetation fire, other	2	0.1%	0.00	0.00	0.00	0.00%
142 - Brush or brush-and-grass mixture fire	6	0.2%	0.00	0.00	0.00	0.00%
150 - Outside rubbish fire, other	3	0.1%	0.00	0.00	0.00	0.00%
151 - Outside rubbish, trash or waste fire	4	0.1%	0.00	0.00	0.00	0.00%
154 - Dumpster or other outside trash receptacle fire	1	0.0%	10,000.00	2,000.00	12,000.00	1.30%
Total:	50	Total: 1.4%	Total: 806,500.00	Total: 116,300.00	Total: 922,800.00	Total: 100.00%

RESPONSE TO PROPERTY TYPES

(Annual Fires by Property Category)

Property Category	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1 - Assembly	13	5	5	1	3	5	8	5	6	2	3	1	57
2 - Educational	4	4	1	3	3	2	4	2	4	5	1	4	37
3 - Health Care, Detention & Correction	90	68	63	44	39	58	49	69	63	82	62	56	743
4 - Residential	166	156	170	163	175	179	174	189	196	187	175	193	2123
5 - Mercantile, Business	16	13	12	7	6	14	4	7	11	6	6	15	117
6 - Industrial, Utility, Defense, Agriculture, Mining			1	1	1	3		1			1		8
7 - Manufacturing, Processing		1			2	1	2	1	4	2	4	2	19
8 - Storage	2		1		1		4	2	1	3	1	1	16
9 - Outside or Special Property	22	25	14	16	29	22	38	35	31	33	19	26	310
Undetermined	19	12	9	7	15	11	18	13	18	28	32	15	197
Grand Total	332	284	276	242	274	295	301	324	334	348	304	313	3627



Of the 3,627 calls for service in 2020, 2,123 of those calls were to **Residential** properties, the next highest category was **Health Care** facilities where we responded to 743 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 310 of the calls for the year.

INCIDENT TYPE REPORT

Incident Type	Total Incidents	Total Incidents % of Incidents
Incident Type Category: 1 - Fire		
111 - Building fire	11	0.30%
113 - Cooking fire, confined to container	7	0.20%
118 - Trash or rubbish fire, contained	5	0.10%
130 - Mobile property (vehicle) fire, other	1	0.00%
131 - Passenger vehicle fire	10	0.30%
140 - Natural vegetation fire, other	2	0.10%
142 - Brush or brush-and-grass mixture fire	6	0.20%
150 - Outside rubbish fire, other	3	0.10%
151 - Outside rubbish, trash or waste fire	4	0.10%
154 - Dumpster or other outside trash receptacle fire	1	0.00%
	Total: 50	Total: 1.4%
Incident Type Category: 2 - Overpressure Rupture, Explosion, Overheat (No Fire)		
251 - Excessive heat, scorch burns with no ignition	2	0.10%
	Total: 2	Total: 0.1%
Incident Type Category: 3 - Rescue & Emergency Medical Service Incident		
3009 - Person Down	11	0.30%
311 - Medical assist, assist EMS crew	2,354	64.90%
320 - Emergency medical service, other	17	0.50%
321 - EMS call, excluding vehicle accident with injury	202	5.60%
322 - Motor vehicle accident with injuries	74	2.00%
323 - Motor vehicle/pedestrian accident (MV Ped)	5	0.10%
324 - Motor vehicle accident with no injuries.	22	0.60%
341 - Search for person on land	2	0.10%
350 - Extrication, rescue, other	2	0.10%
352 - Extrication of victim(s) from vehicle	1	0.00%
353 - Removal of victim(s) from stalled elevator	5	0.10%
365 - Watercraft rescue	1	0.00%
381 - Rescue or EMS standby	4	0.10%
	Total: 2,700	Total: 74.5%
Incident Type Category: 4 - Hazardous Condition (No Fire)		
400 - Hazardous condition, other	8	0.20%
412 - Gas leak (natural gas or LPG)	28	0.80%
413 - Oil or other combustible liquid spill	2	0.10%
421 - Chemical hazard (no spill or leak)	1	0.00%
424 - Carbon monoxide incident	10	0.30%
440 - Electrical wiring/equipment problem, other	7	0.20%
441 - Heat from short circuit (wiring), defective/worn	2	0.10%
442 - Overheated motor	1	0.00%
444 - Power line down	26	0.70%
445 - Arcing, shorted electrical equipment	7	0.20%
460 - Accident, potential accident, other	1	0.00%
462 - Aircraft standby	1	0.00%
463 - Vehicle accident, general cleanup	10	0.30%
480 - Attempted burning, illegal action, other	11	0.30%
	Total: 115	Total: 3.2%

INCIDENT TYPE REPORT *..continued*

Incident Type Category: 5 - Service Call		
510 - Person in distress, other	8	0.20%
512 - Ring or jewelry removal	1	0.00%
520 - Water problem, other	1	0.00%
522 - Water or steam leak	5	0.10%
531 - Smoke or odor removal	12	0.30%
550 - Public service assistance, other	16	0.40%
551 - Assist police or other governmental agency	4	0.10%
553 - Public service	26	0.70%
554 - Assist invalid	24	0.70%
561 - Unauthorized burning	38	1.00%
571 - Cover assignment, standby, moveup	40	1.10%
	Total: 175	Total: 4.8%
Incident Type Category: 6 - Good Intent Call		
600 - Good intent call, other	8	0.20%
611 - Dispatched and cancelled en route	176	4.90%
6111 - EMS Dispatched and cancelled en route	165	4.60%
621 - Wrong location	3	0.10%
622 - No incident found on arrival at dispatch address	14	0.40%
631 - Authorized controlled burning	5	0.10%
650 - Steam, other gas mistaken for smoke, other	2	0.10%
651 - Smoke scare, odor of smoke	21	0.60%
652 - Steam, vapor, fog or dust thought to be smoke	4	0.10%
671 - HazMat release investigation w/no HazMat	6	0.20%
	Total: 404	Total: 11.1%
Incident Type Category: 7 - False Alarm & False Call		
700 - False alarm or false call, other	4	0.10%
710 - Malicious, mischievous false call, other	2	0.10%
711 - Municipal alarm system, malicious false alarm	2	0.10%
713 - Telephone, malicious false alarm	1	0.00%
715 - Local alarm system, malicious false alarm	2	0.10%
730 - System malfunction, other	3	0.10%
731 - Sprinkler activation due to malfunction	2	0.10%
733 - Smoke detector activation due to malfunction	10	0.30%
735 - Alarm system sounded due to malfunction	31	0.90%
736 - CO detector activation due to malfunction	17	0.50%
740 - Unintentional transmission of alarm, other	2	0.10%
741 - Sprinkler activation, no fire - unintentional	1	0.00%
743 - Smoke detector activation, no fire - unintentional	32	0.90%
744 - Detector activation, no fire - unintentional	5	0.10%
745 - Alarm system activation, no fire - unintentional	51	1.40%
746 - Carbon monoxide detector activation, no CO	9	0.20%
	Total: 174	Total: 4.8%
Incident Type Category: 8 - Severe Weather & Natural Disaster		
814 - Lightning strike (no fire)	1	0.00%
	Total: 1	Total: 0.0%
Incident Type Category: 9 - Special Incident Type		
911 - Citizen complaint	5	0.10%
	Total: 5	Total: 0.1%

2020 PUBLIC FIRE EDUCATION

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Scout Tours/Demos	2	3											5
Truck/Station Tours	1												1
Fire Extinguisher Training													0
Fire Drills/Smoke Alarm Check		5								5			10
Parades				5	17	2	2		1		1	1	29
Fire Truck Rides													0
Block Parties													0
Misc			1										1
EMS Standby													0
Monthly Totals	3	8	1	5	17	2	2	0	1	5	1	1	46

2020 MONTHLY INSPECTION REPORT

Count of Inspection Completed Actual Date	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total
Consultation - General	2	1	5	2	4	1		1				16
Consultation - Site	6		1	3	1	10	2	1	2		4	33
Consultation-General		2	3	2	3	1		4		2		19
Consultation-Site				2	1		1				3	7
Daycare - Inspection			4		1					4		9
Fire Alarm System - Plan Review	5	5		2	3		3	1	6	1	10	39
Fire Code Complaint - Inspection	11	1	2	2		8		7	4	10	5	51
Foster Care - Inspection												1
General - Plan Review			1		1	1	1				1	5
Group Home - Inspection					2							2
Inspection - Business License										10	54	64
Inspection - Certificate of Occupancy	1				1				5	1	2	11
Inspection - Construction Site			1			3	2					6
Inspection - Fire Alarm	1	9	8	7	2	7	6	7	2	4	2	63
Inspection - Fire Protection		1										1
Inspection - Fireworks	2				1							3
Inspection - General	13	3		2	1	1	5	12		32	5	76
Inspection - Hoarding										5	1	6
Inspection - Site				1	8							9
Inspection - Sprinkler System	12	16	11	12	6	6	13	4	9		4	112
Inspection-Business License										4	1	5
Inspection-Fire Alarm	1			1	1						1	5
Inspection-General	5											5
Inspection-Reinspection	7	1		2	4	1	1	2	1	3	6	37
Inspection-Site	1			1	1							3
Inspection-Sprinkler System	5	6	4	6	3	4	2			1		41
Public Education - General	1											2
Sprinkler System - Plan Review	5	9	2	3	5	4	2	1	4	4	2	43
Temporary Membrane Structure - Inspection		1		2								4
Grand Total	78	55	42	50	49	47	38	40	33	81	101	678