

LAKE JOHANNA FIRE DEPARTMENT

2019 ANNUAL FIRE REPORT



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Lake Johanna Fire Department 2019 Annual Fire Report

In 2019 the Lake Johanna Fire Department responded to 3,820 calls for service which is an increase of 231 calls from the previous year. We assisted neighboring Fire Departments a total of 72 times. Automatic Aid responses totaled 65 calls, Mutual Aid Responses totaled 7 calls over the last year:

Automatic Aid – Given: 65

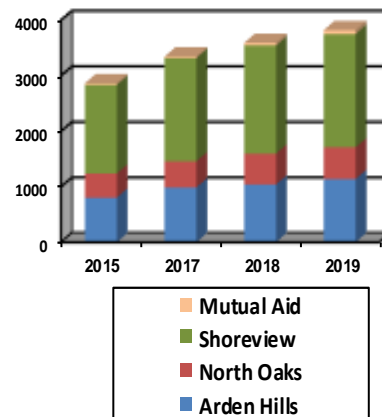
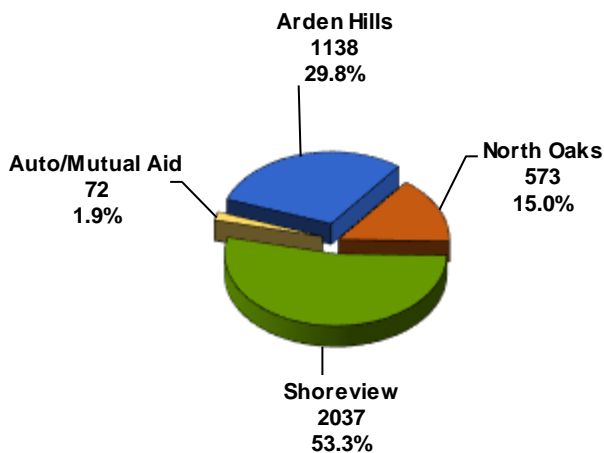
Roseville- 26 calls
 Little Canada – 15 calls
 Vadnais Heights- 10 calls
 White Bear Twp- 9 calls
 White Bear Lake- 5 calls

Mutual Aid – Given: 7

New Brighton- 4 calls
 St. Anthony- 1 call
 Fridley – 1 call
 Mounds View – 1 call

CALLS BY CITY

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
ARDEN HILLS:	804	930	986	1039	1138
NORTH OAKS:	434	406	471	556	573
SHOREVIEW:	1597	1784	1858	1948	2037
AUTO AID:	27	22	22	39	65
MUTUAL AID:		9	10	7	7
TOTALS:	2875	3151	3347	3589	3820



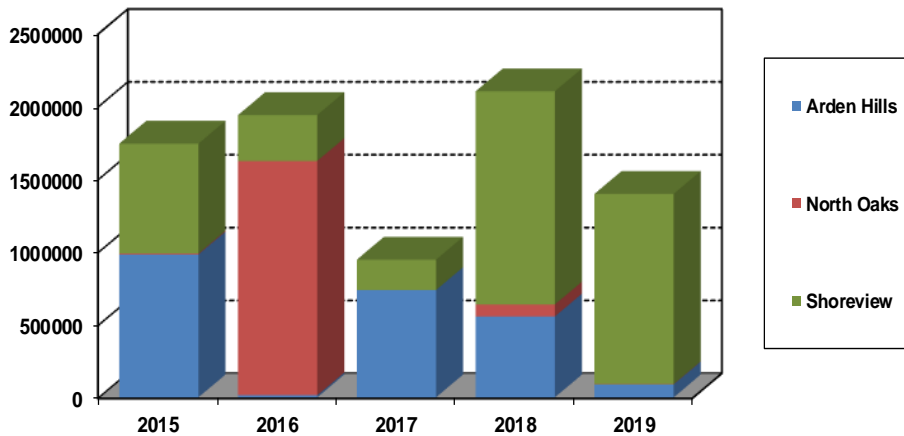
City of Shoreview calls for service increased by 89 calls which works out to be 53.3% of total calls for 2019. The City of Arden Hills accounted for 29.8% of the calls, up by 99 calls over last year. The City of North Oaks had an increase of 17 calls in 2019 which represents 15.0% of the total calls.

ESTIMATED FIRE DOLLAR LOSS

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
ARDEN HILLS:	\$980,400	\$ 14,100	\$736,200	\$555,000	\$88,950
NORTH OAKS:	\$6,300	\$1,608,074	\$0	\$82,000	\$2,351
SHOREVIEW:	\$753,800	\$ 314,802	\$208,300	\$1,462,750	\$1,304,629
TOTALS:	\$1,740,500	\$1,936,976	\$944,500	\$2,099,750	\$1,395,930

The City of Shoreview had \$1,304,629 in fire dollar loss in 2019 down slightly from 2018. The City of Arden Hills had \$88,950 in fire dollar loss which was a significant decrease from the previous year. The City of North Oaks recorded \$2,351 in fire dollar loss down from 2018.

ANNUAL DOLLAR LOSS COMPARISON



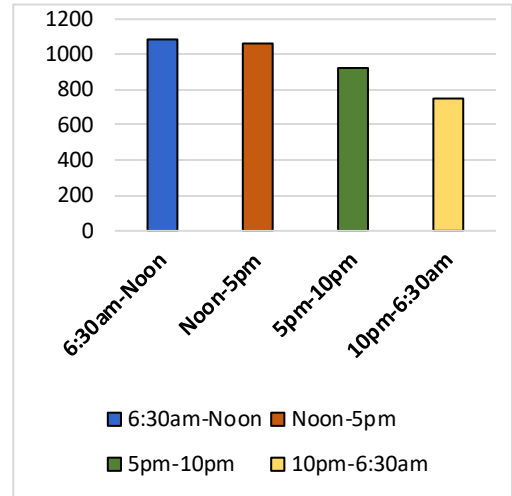
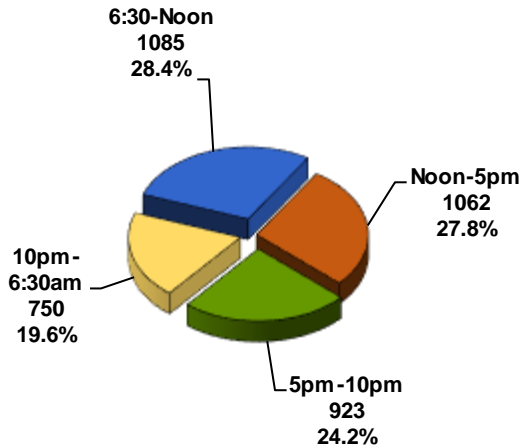
Over the last 5 years the cities combined average dollar loss from Fire was \$1,623,531.

In 2019, Building fires attributed for the majority of dollar loss totaling about \$1,266,102. The next highest loss total was from Vehicle fires which totaled \$93,551.

THE DEPARTMENT RESPONSE

On Duty Shift crews handled 98.7% of the calls responding to 3,771 calls in 2019. Stations were called back to assist the Shift Crews 49 times throughout the year which is roughly 1.3% of the calls.

CALL BREAKDOWN BY SHIFTS



CALL OVERLAP

It is very common to have more than one incident occurring at a time, the chart below shows 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.

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

RESPONSE TIME

	<u>2017</u>	<u>2018</u>	<u>2019</u>
Emergency Response Time Average to Contract Cities	5:33	5:31	5:32

AVERAGE RESPONSE TIME BY CITY Emergency Calls Only

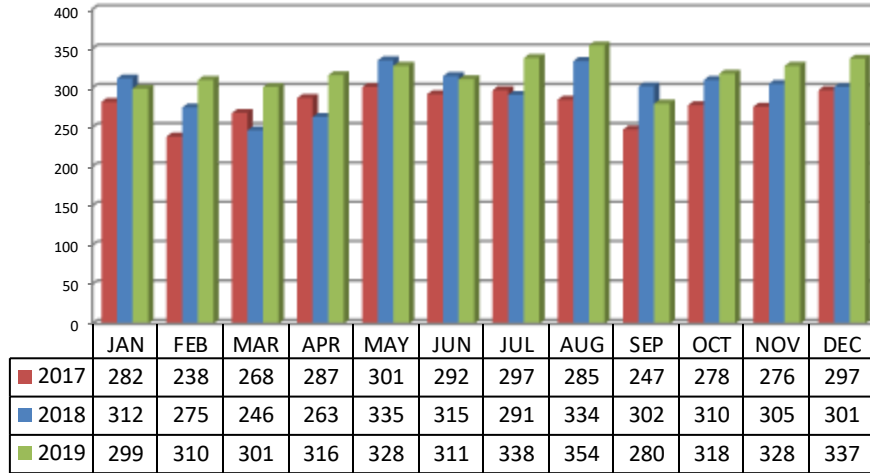
	Initial Response Avg. Response Time
Arden Hills	6:01
North Oaks	7:18
Shoreview	4:45
	5:32

North Oaks Average Response Time: 6:24 (excluding 5919 Centerville Rd.)

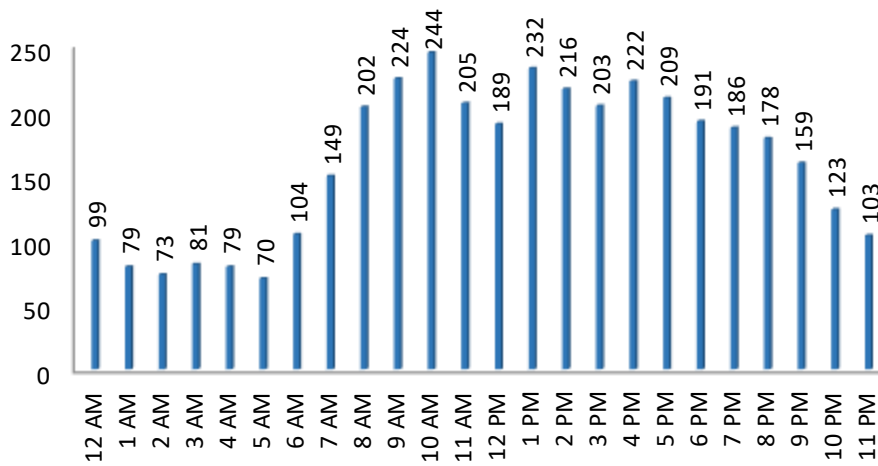
ANNUAL ALARM SUMMARY REPORT

Situation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total
100 Series - Fire	6	3	4	9	11	11	2	5	1	4	3	4	63
200 Series - Overpressure Rupture, Explosion, Overheat (No Fire)							1	2	1		1		5
300 Series - Rescue & Emergency Medical Service Incident	218	232	246	221	247	209	250	263	205	248	241	256	2836
400 Series - Hazardous Condition (No Fire)	5	13	8	15	9	16	19	16	14	12	14	9	150
500 Series - Service Call	14	13	10	17	11	13	11	12	10	6	22	19	158
600 Series - Good Intent Call	30	37	23	40	29	34	29	32	28	34	40	35	391
700 Series - False Alarm & False Call	25	12	10	14	21	26	25	24	21	14	6	14	212
800 Series - Severe Weather & Natural Disaster						2	1						3
90 Series - Special Incident Type	1										1		2
Grand Total	299	310	301	316	328	311	338	354	280	318	328	337	3820

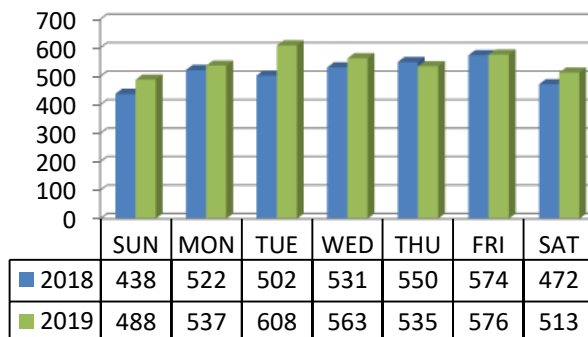
CALLS BY MONTH



CALLS BY TIME OF DAY

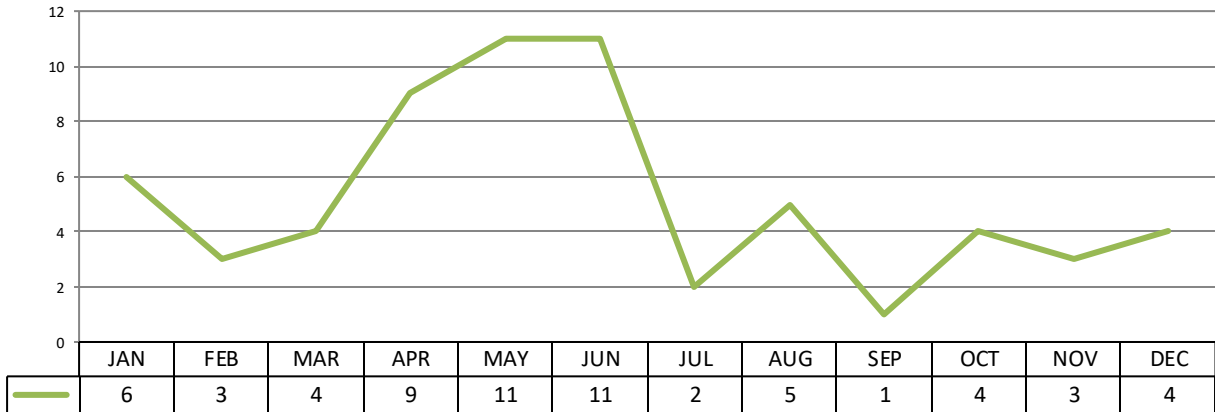


CALLS BY DAY OF WEEK

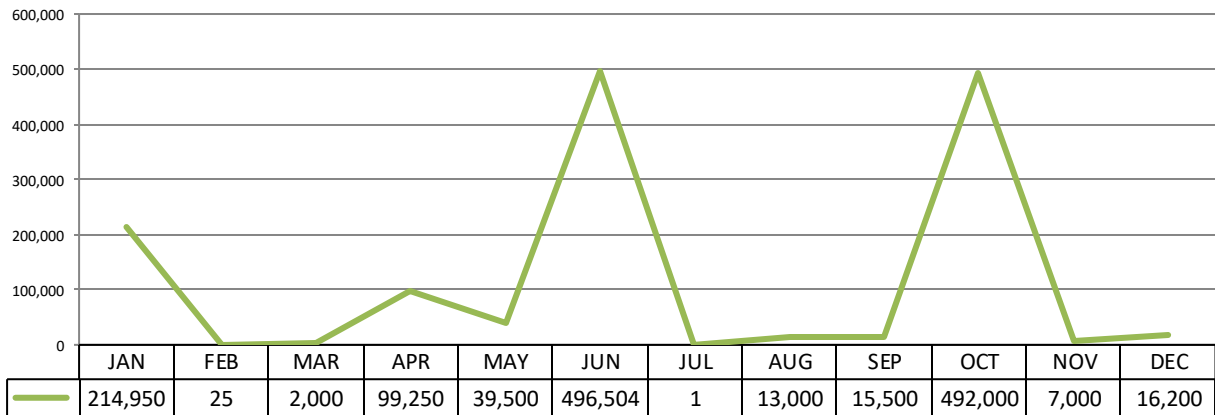


FIRE INCIDENTS

(100 Series – Fire)



FIRE DOLLAR LOSS BY MONTH



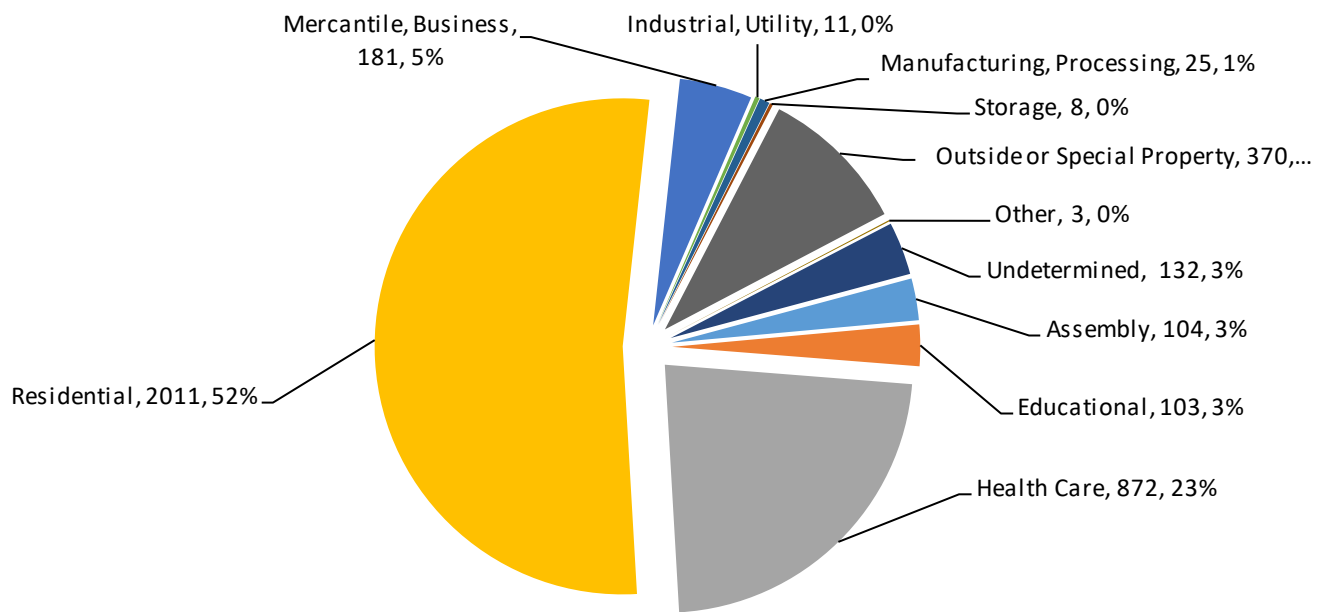
FIRES BY INCIDENT TYPE

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	17	0.4%	994,403.00	271,700.00	1,266,102.00	90.70%
113 - Cooking fire, confined to container	5	0.1%		350.00	350.00	0.03%
114 - Chimney or flue fire, confined to chimney or flue	1	0.0%	0.00	0.00	0.00	0.00%
118 - Trash or rubbish fire, contained	1	0.0%				
131 - Passenger vehicle fire	12	0.3%	90,500.00	3,051.00	93,551.00	6.70%
132 - Road freight or transport vehicle fire	1	0.0%	500.00	0.00	500.00	0.04%
137 - Camper or recreational vehicle (RV) fire	2	0.1%	20,000.00	1,500.00	21,500.00	1.54%
140 - Natural vegetation fire, other	2	0.1%				
141 - Forest, woods or wildland fire	1	0.0%	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%
143 - Grass fire	4	0.1%	1.00	0.00	1.00	0.00%
150 - Outside rubbish fire, other	1	0.0%	0.00	500.00	500.00	0.04%
151 - Outside rubbish, trash or waste fire	5	0.1%	0.00	0.00	0.00	0.00%
154 - Dumpster or other outside trash receptacle fire	1	0.0%	5,000.00	0.00	5,000.00	0.36%
162 - Outside equipment fire	4	0.1%	4,300.00	4,100.00	8,400.00	0.60%
Total:	63	Total: 1.6%	Total: 1,114,704.00	Total: 281,201.00	Total: 1,395,904.00	Total: 100.00%

RESPONSE TO PROPERTY TYPES

(Annual Fires by General Property Use)

General Use	JAN 2019	FEB 2019	MAR 2019	APR 2019	MAY 2019	JUN 2019	JUL 2019	AUG 2019	SEPT 2019	OCT 2019	NOV 2019	DEC 2019	Total
*NA													
100-Assembly	5	9	14	4	7	11	9	12	9	11	5	8	104
200-Educational	7	9	7	9	9	8	7	5	10	14	12	6	103
300-Health Care, Detention & Correction	81	63	61	63	80	73	73	83	63	74	66	92	872
400-Residential	153	172	175	176	169	151	176	172	145	164	183	175	2011
500-Mercantile, Business	19	12	14	15	19	14	18	24	11	12	11	12	181
600-Industrial, Utility, Defense, Agriculture, Mining		2	1	1	1	1		1		2	1	1	11
700-Manufacturing, Processing	4	3	2	1	2	4		4	2	1	1	1	25
800-Storage	1	2			1		1			1	1	1	8
900-Outside or Special Property	25	31	23	31	32	41	41	41	31	24	27	23	370
Other			1				1	1					3
Property Use, other													0
Undetermined	4	7	3	16	8	8	12	11	9	15	21	18	132
Grand Total	299	310	301	316	328	311	338	354	280	318	328	337	3820



Of the 3,820 calls for service in 2019, 2011 of those calls were to **Residential** properties, the next highest category was **Health Care** facilities where we responded to 872 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 370 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	17	0.40%
113 - Cooking fire, confined to container	5	0.10%
114 - Chimney or flue fire, confined to chimney or flue	1	0.00%
118 - Trash or rubbish fire, contained	1	0.00%
131 - Passenger vehicle fire	12	0.30%
132 - Road freight or transport vehicle fire	1	0.00%
137 - Camper or recreational vehicle (RV) fire	2	0.10%
140 - Natural vegetation fire, other	2	0.10%
141 - Forest, woods or wildland fire	1	0.00%
142 - Brush or brush-and-grass mixture fire	6	0.20%
143 - Grass fire	4	0.10%
150 - Outside rubbish fire, other	1	0.00%
151 - Outside rubbish, trash or waste fire	5	0.10%
154 - Dumpster or other outside trash receptacle fire	1	0.00%
162 - Outside equipment fire	4	0.10%
	Total: 63	Total: 1.6%
Count: 15		
Incident Type Category: 2 - Overpressure Rupture, Explosion, Overheat (No Fire)		
243 - Fireworks explosion (no fire)	1	0.00%
251 - Excessive heat, scorch burns with no ignition	4	0.10%
	Total: 5	Total: 0.1%
Count: 2		
Incident Type Category: 3 - Rescue & Emergency Medical Service Incident		
300 - Rescue, EMS incident, other	1	0.00%
3009 - Person Down	1	0.00%
311 - Medical assist, assist EMS crew	2,496	65.30%
320 - Emergency medical service, other	64	1.70%
321 - EMS call, excluding vehicle accident with injury	129	3.40%
322 - Motor vehicle accident with injuries	94	2.50%
323 - Motor vehicle/pedestrian accident (MV Ped)	6	0.20%
324 - Motor vehicle accident with no injuries.	38	1.00%
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	3	0.10%
365 - Watercraft rescue	1	0.00%
	Total: 2,836	Total: 74.2%
Count: 12		
Incident Type Category: 4 - Hazardous Condition (No Fire)		
400 - Hazardous condition, other	5	0.10%
411 - Gasoline or other flammable liquid spill	6	0.20%
412 - Gas leak (natural gas or LPG)	54	1.40%
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	2	0.10%
424 - Carbon monoxide incident	7	0.20%
440 - Electrical wiring/equipment problem, other	2	0.10%
441 - Heat from short circuit (wiring), defective/worn	1	0.00%
442 - Overheated motor	1	0.00%
444 - Power line down	32	0.80%
445 - Arcing, shorted electrical equipment	7	0.20%
460 - Accident, potential accident, other	6	0.20%
463 - Vehicle accident, general cleanup	15	0.40%
480 - Attempted burning, illegal action, other	10	0.30%
	Total: 150	Total: 3.9%
Count: 15		

Incident Type Report Continued

Incident Type Category: 5 - Service Call		
500 - Service call, other	9	0.20%
5009 - Service Call, Keybox Request	1	0.00%
510 - Person in distress, other	16	0.40%
520 - Water problem, other	5	0.10%
521 - Water evacuation	2	0.10%
522 - Water or steam leak	14	0.40%
531 - Smoke or odor removal	8	0.20%
541 - Animal problem	1	0.00%
542 - Animal rescue	2	0.10%
550 - Public service assistance, other	9	0.20%
551 - Assist police or other governmental agency	5	0.10%
553 - Public service	19	0.50%
554 - Assist invalid	9	0.20%
561 - Unauthorized burning	18	0.50%
571 - Cover assignment, standby, moveup	40	1.00%
	Total: 158	Total: 4.1%
Count: 15		
Incident Type Category: 6 - Good Intent Call		
600 - Good intent call, other	14	0.40%
611 - Dispatched and cancelled en route	202	5.30%
6111 - EMS Dispatched and cancelled en route	122	3.20%
622 - No incident found on arrival at dispatch address	13	0.30%
631 - Authorized controlled burning	3	0.10%
650 - Steam, other gas mistaken for smoke, other	1	0.00%
651 - Smoke scare, odor of smoke	22	0.60%
652 - Steam, vapor, fog or dust thought to be smoke	4	0.10%
671 - HazMat release investigation w/no HazMat	10	0.30%
	Total: 391	Total: 10.2%
Count: 9		
Incident Type Category: 7 - False Alarm & False Call		
700 - False alarm or false call, other	5	0.10%
710 - Malicious, mischievous false call, other	4	0.10%
711 - Municipal alarm system, malicious false alarm	2	0.10%
714 - Central station, 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	3	0.10%
733 - Smoke detector activation due to malfunction	16	0.40%
734 - Heat detector activation due to malfunction	1	0.00%
735 - Alarm system sounded due to malfunction	36	0.90%
736 - CO detector activation due to malfunction	20	0.50%
740 - Unintentional transmission of alarm, other	2	0.10%
741 - Sprinkler activation, no fire - unintentional	4	0.10%
742 - Extinguishing system activation	1	0.00%
743 - Smoke detector activation, no fire - unintentional	40	1.00%
744 - Detector activation, no fire - unintentional	8	0.20%
745 - Alarm system activation, no fire - unintentional	49	1.30%
746 - Carbon monoxide detector activation, no CO	15	0.40%
	Total: 212	Total: 5.5%
Count: 18		
Incident Type Category: 8 - Severe Weather & Natural Disaster		
814 - Lightning strike (no fire)	3	0.10%
	Total: 3	Total: 0.1%
Count: 1		
Incident Type Category: 9 - Special Incident Type		
911 - Citizen complaint	2	0.10%
	Total: 2	Total: 0.1%
Count: 1		
	Total: 3,820	Total: 100.0%

2019 PUBLIC FIRE EDUCATION

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Scout Tours/Demos		1		1					1	1	2	3	9
Truck/Station Tours	1	1	1	2		2		1	3	8	2	1	22
Fire Extinguisher Training		1	1	4		1			1				8
Fire Drills/Smoke Alarm Check		10								13			23
Parades					1		4						5
Fire Truck Rides				1									1
Block Parties							1	122	1		1		125
Misc		1				1		2	1	5	1	1	12
EMS Standby						1			2	2			5
Monthly Totals	1	14	2	8	1	5	5	125	9	29	6	5	210

2019 MONTHLY INSPECTION REPORT

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Consultation - General			1	1	1	2	1	1	2	4			13
Consultation - Site		4		3	2	3	1	6	1	3	1	3	27
Consultation-General					1	3	3	1	2	1		4	15
Consultation-Site		1	3	1		2	1	1			1		10
Daycare - Inspection									3				3
Fire Alarm System - Plan Review			2	2	5	2	5	3	2	1		1	23
Fire Code Complaint - Inspection	7	4	12	3	8	4	2	1	1	3	3	6	54
Foster Care - Inspection		3	3										6
General - Plan Review	2	1	1	2	1	3							10
Group Home - Inspection							1						1
Inspection - Certificate of Occupancy	1							2			1		4
Inspection - Construction Site								6	2		1	1	10
Inspection - Fire Alarm		2	16	3	2	2	1	5	5	3	2	1	42
Inspection - Fire Prevention Activity				1						4			5
Inspection - Fire Protection	4			1	1		1	3				1	11
Inspection - Fireworks					1	1	1						3
Inspection - General	33	65	83	18	16	23	30	3	22	45	41	50	429
Inspection - Hoarding						1			3	1			5
Inspection - Reinspection	3												3
Inspection - School										2			2
Inspection - Site					5	1	1						7
Inspection - Sprinkler System	1	2	2	1	3	2	5	3	4	14	12	3	52
Inspection-Cert of Occupancy							1			1		1	3
Inspection-Construction Site								1					1
Inspection-Fire Alarm								2					2
Inspection-General		4	4		1	2	4		1	1		19	36
Inspection-Reinspection	13	30	12	21	25	26	8	5	9	16	11	8	184
Inspection-Site					1								1
Inspection-Sprinkler System				1						2	2		5
Misc. - Inspection								3	18	2			23
Public Education - General								1		3			4
Residential - Inspection				4									4
Sprinkler System - Plan Review	4	2		3	4	8	4		7	1		7	40
Temporary Membrane Structure - Inspection				2	1		1	1	2				7
Grand Total	68	118	139	67	78	85	71	48	84	107	75	105	1045