

LAKE JOHANNA FIRE DEPARTMENT

2021 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 2021 Annual Fire Report

In 2021 the Lake Johanna Fire Department responded to 4,050 calls for service which is an increase of 423 calls, 111.7%, from the previous year. We assisted neighboring Fire Departments a total of 32 times. We received aid 14 times in 2021.

AUTO-AID / MUTUAL-AID – STRUCTURE FIRES

Aid Given – 32

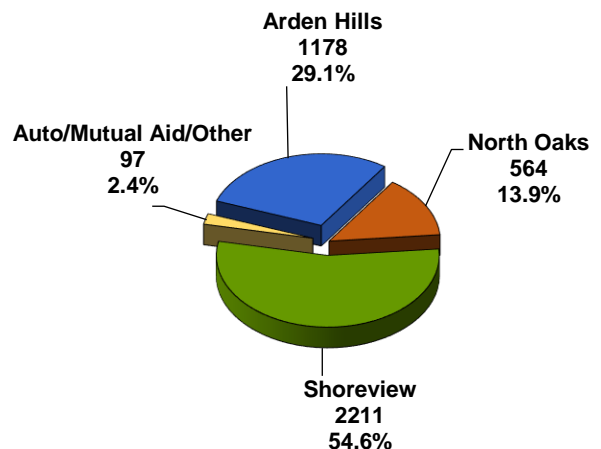
Roseville – 17 calls
Vadnais Heights – 1 call
White Bear Lake – 5 calls
New Brighton – 9 calls

Aid Received – 14

Arden Hills – 6 calls
North Oaks – 3 calls
Shoreview – 5 calls

CALLS BY CITY

	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
ARDEN HILLS:	986	1039	1138	1044	1178
NORTH OAKS:	471	556	573	497	564
SHOREVIEW:	1858	1948	2037	2020	2211
AUTO AID:	22	39	65	57	32
MUTUAL AID:	10	7	7	9	14
OTHER:					51
TOTALS:	3347	3589	3820	3627	4050



City of Shoreview calls for service increased by 191 calls or 9.5% over the previous year 2020. The City of Arden Hills calls increased 134 calls, or 12.8% over last year. The City of North Oaks calls also increased by 67 calls or 9.5%.

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.

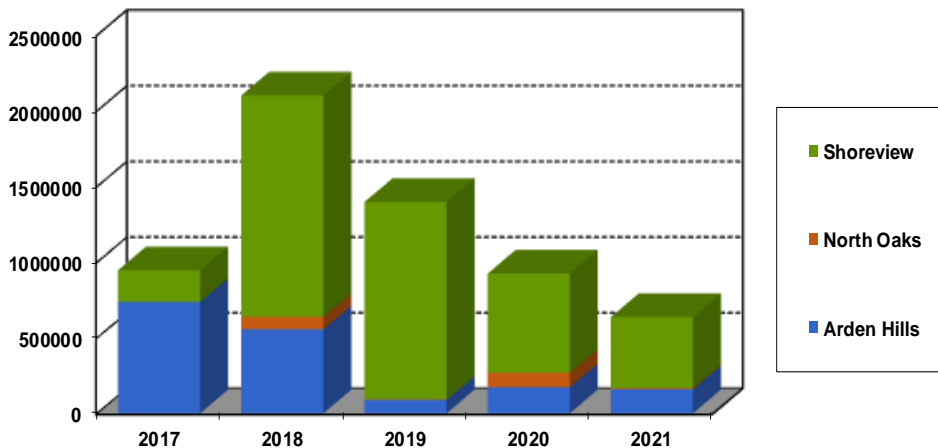
Of the 75 Closest Unit Dispatches in 2021 within Ramsey County, Lake Johanna provided aid on six incidents (five Cardiac Arrests and one Commercial Fire) and received aid on three incidents (two Cardiac Arrests and one Water Emergency).

ESTIMATED FIRE DOLLAR LOSS

	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
ARDEN HILLS:	\$736,200	\$555,000	\$88,950	\$172,400	\$159,200
NORTH OAKS:	\$0	\$82,000	\$2,351	\$96,100	\$7,500
SHOREVIEW:	\$208,300	\$1,462,750	\$1,304,629	\$654,300	\$469,400
TOTALS:	\$944,500	\$2,099,750	\$1,395,930	\$922,800	\$636,101

The City of Shoreview had \$469,400 in fire dollar loss in 2021 down 28.0% from the previous year. The City of Arden Hills had \$159,200 in fire dollar loss, down almost 7.5%. The City of North Oaks recorded \$96,100 in fire dollar, down over 92.0% from 2020.

ANNUAL DOLLAR LOSS COMPARISON



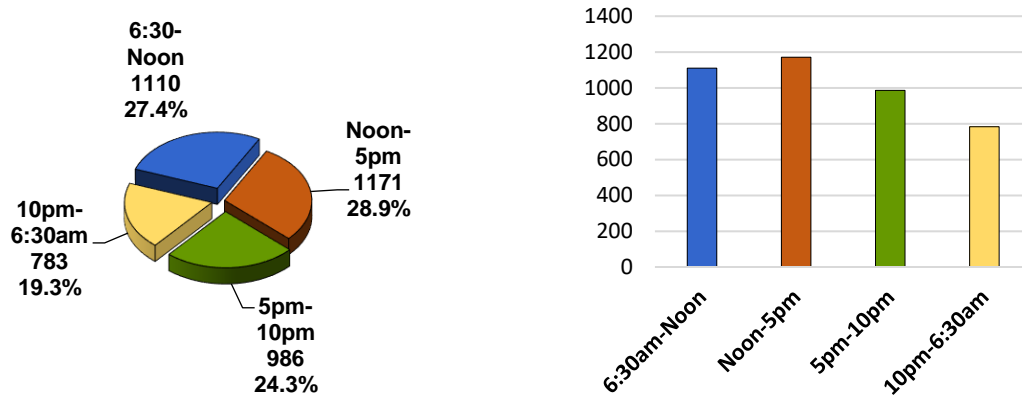
Over the last 5 years the cities combined average dollar loss from Fire was \$1,199,816.

In 2021, Building fires attributed for most of the dollar loss totaling about \$430,200. The next highest loss total was from Vehicle fires which totaled \$128,100.

THE DEPARTMENT RESPONSE

On Duty Shift crews handled 98.7% of the calls responding to 4016 calls in 2021. Stations were called back to assist the Shift Crews 52 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 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

	Double	Triple	Quadruple	
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 Calls

2021

Double Triple Quadruple

	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
Total	580	96	17	4050 Calls

EMERGENCY RESPONSE TIME

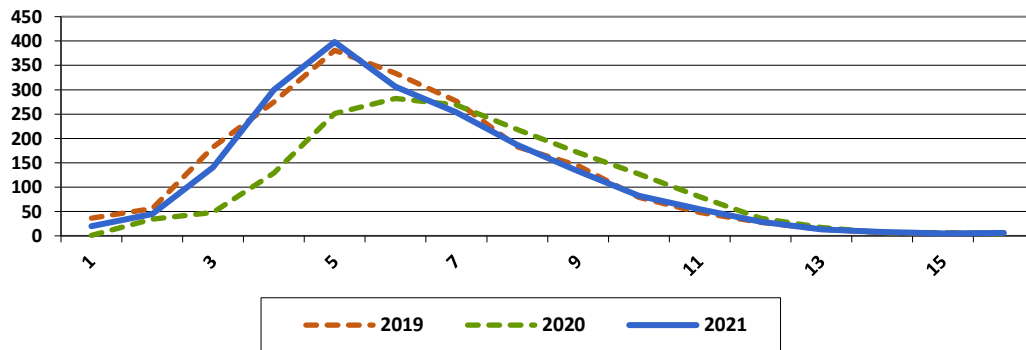
	<u>2019</u>	<u>2020</u>	<u>2021</u>
Emergency Response Time Average to Contract Cities	5:32	5:35	5:38
Median Response Time to Contract Cities	5:13	5:20	5:10

AVERAGE RESPONSE TIME BY CITY Emergency Calls Only

	Average Initial Response Time	Median Response Time
Arden Hills	5:54	5:51
North Oaks	7:48*	8:20*
Shoreview	4:56	4:30
	5:38	5:10

***North Oaks (excluding 5919 Centerville Rd, 325-525-400 Wilkinson)**
Average Response Time: 6:20 Median 6:08

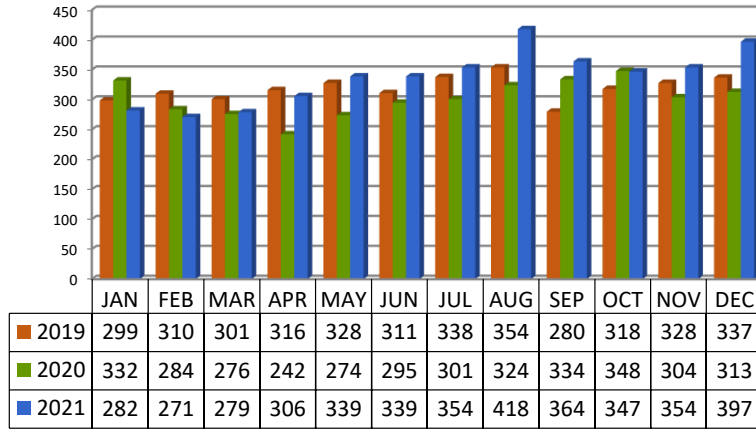
3-year Comparison Response Time in Minutes



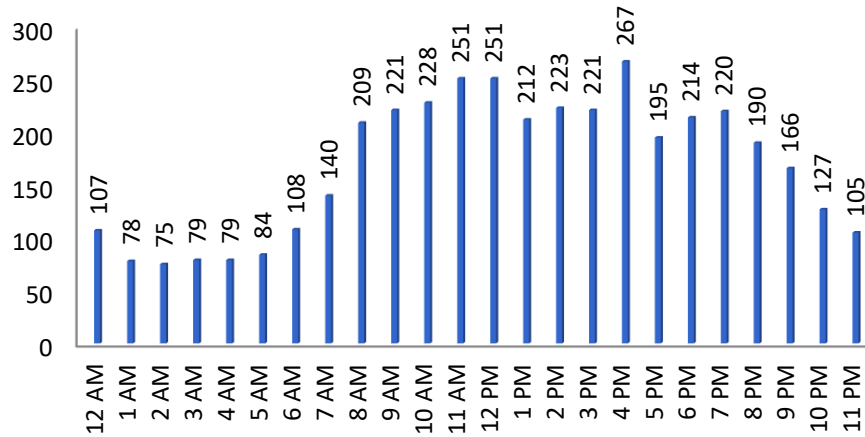
ANNUAL ALARM SUMMARY REPORT

Situation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total
1 - Fire	5	5	6	7	9	9	6	9	5	5	3	1	70
2 - Overpressure Rupture, Explosion, Overheat (No Fire)								1		1			2
3 - Rescue & Emergency Medical Service Incident	208	192	200	231	238	237	259	304	266	259	272	305	2971
4 - Hazardous Condition (No Fire)	5	5	10	6	15	15	13	16	11	14	9	10	129
5 - Service Call	4	16	14	12	16	16	26	16	22	14	18	23	197
6 - Good Intent Call	48	30	34	39	43	42	36	51	45	37	35	35	475
7 - False Alarm & False Call	12	22	15	11	18	20	14	21	15	16	17	23	204
8 - Severe Weather & Natural Disaster										1			1
9 - Special Incident Type		1											1
Grand Total	282	271	279	306	339	339	354	418	364	347	354	397	4050

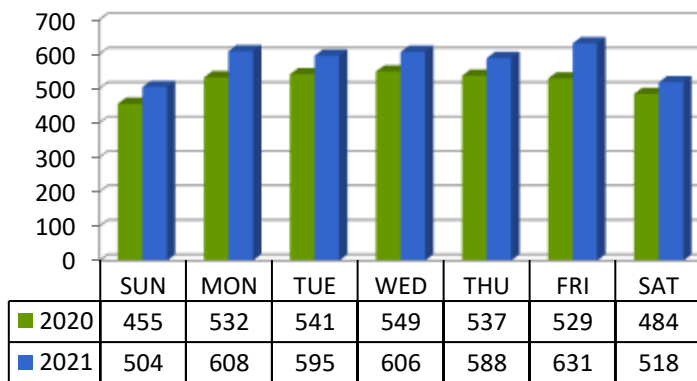
CALLS BY MONTH



CALLS BY TIME OF DAY

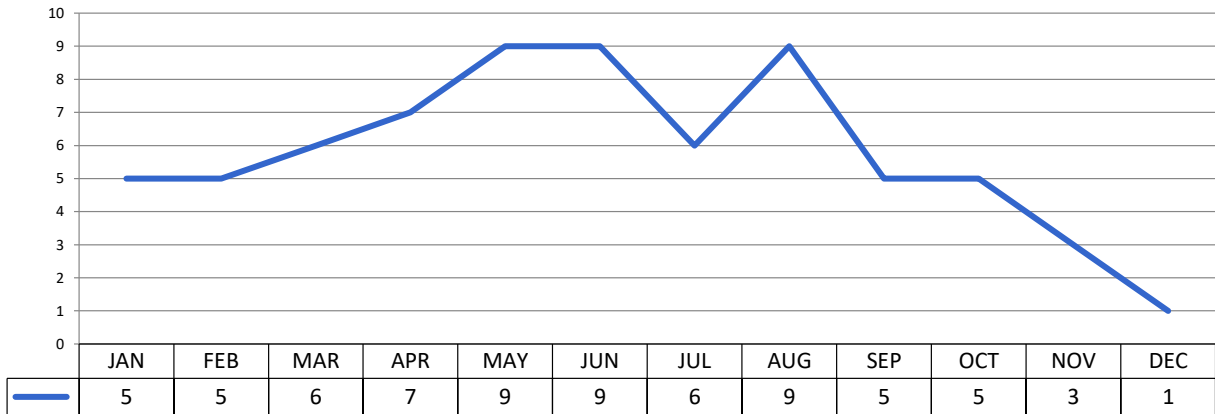


CALLS BY DAY OF WEEK

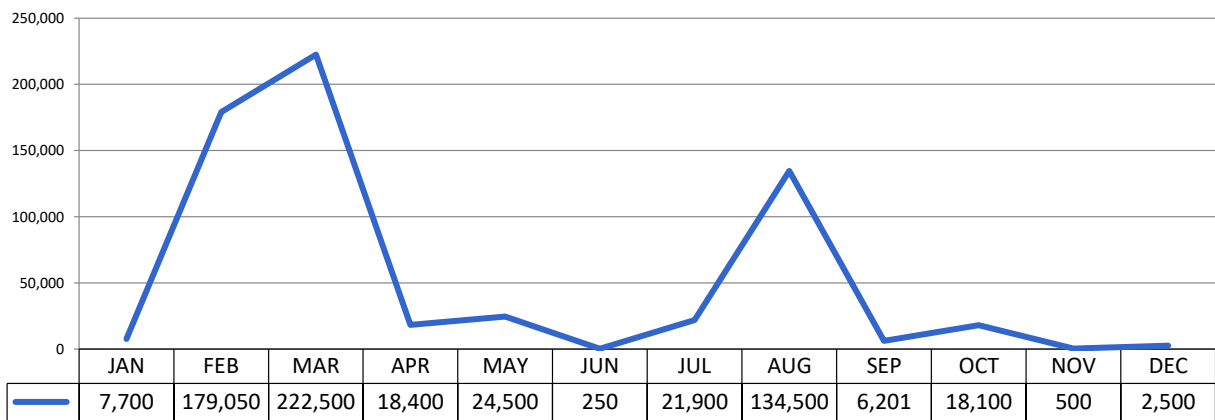


FIRE INCIDENTS

(100 Series – Fire)



FIRE DOLLAR LOSS BY MONTH



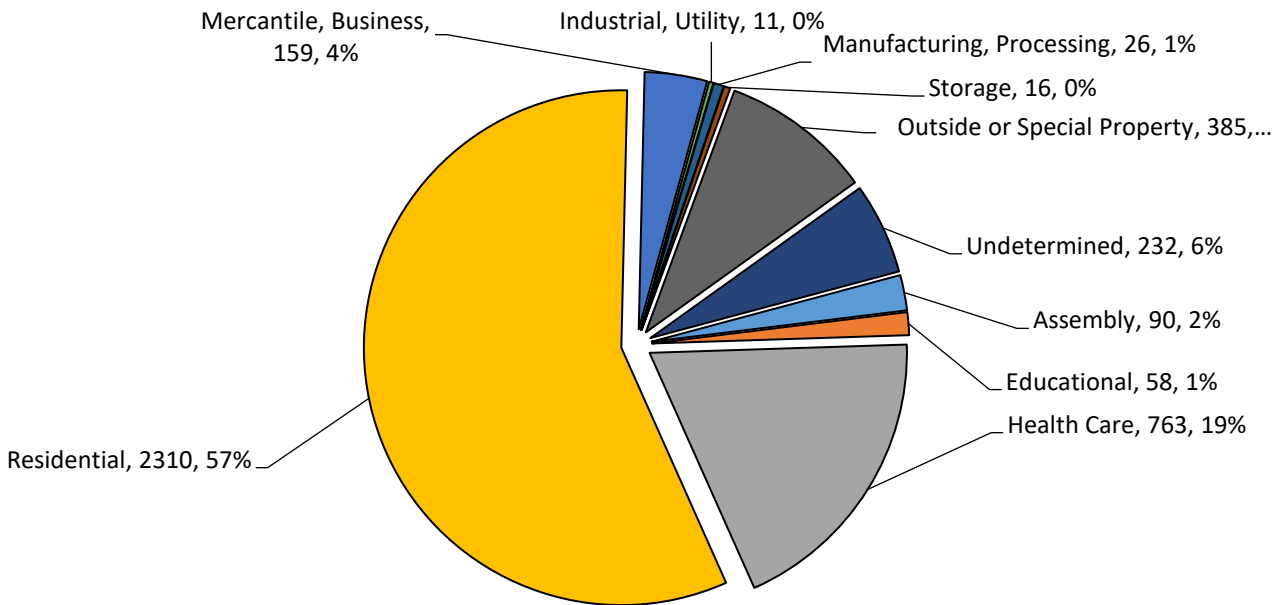
FIRES BY INCIDENT TYPE

Incident Type	Total Incidents	% of Incidents	Property Loss	Content Loss	Total Loss	Total Loss % of Total
Incident Type: 1 - Fire						
111 - Building fire	11	0.30%	259,100.00	171,100.00	430,200.00	67.63%
113 - Cooking fire, confined to container	9	0.20%	5,700.00	500	6,200.00	0.97%
118 - Trash or rubbish fire, contained	3	0.10%	0	0	0	0.00%
121 - Fire in mobile home used as fixed residence	2	0.00%	40,000.00	20,000.00	60,000.00	9.43%
130 - Mobile property (vehicle) fire, other	1	0.00%	500		500	0.08%
131 - Passenger vehicle fire	15	0.40%	114,500.00	13,600.00	128,100.00	20.14%
138 - Off-road vehicle or heavy equipment fire	1	0.00%	1,000.00	0	1,000.00	0.16%
140 - Natural vegetation fire, other	1	0.00%				
141 - Forest, woods or wildland fire	2	0.00%	0	0	0	0.00%
142 - Brush or brush-and-grass mixture fire	8	0.20%	0	0	0	0.00%
143 - Grass fire	5	0.10%	500	0	500	0.08%
150 - Outside rubbish fire, other	4	0.10%	0	200	200	0.03%
151 - Outside rubbish, trash or waste fire	3	0.10%	0	0	0	0.00%
154 - Dumpster or other outside trash receptacle fire	4	0.10%	300	50	350	0.06%
161 - Outside storage fire	1	0.00%	0	50	50	0.01%
Total:	70	Total: 1.7%	Total: 421,600.00	Total: 205,500.00	Total: 627,100.00	Total: 98.58%

RESPONSE TO PROPERTY TYPES

(Annual Fires by Property Category)

Situation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total
1 - Assembly	4	7	7	8	7	8	9	9	10	6	8	7	90
2 - Educational	1	5		4	2	7	4	6	9	9	6	5	58
3 - Health Care, Detention & Correction	59	63	74	56	68	63	68	80	51	61	67	53	763
4 - Residential	157	146	151	191	188	178	186	239	209	206	208	251	2310
5 - Mercantile, Business	7	12	12	10	11	16	18	16	16	12	15	14	159
6 - Industrial, Utility, Defense, Agriculture, Mining		2	1		1	1	2	2	2				11
7 - Manufacturing, Processing	2	6	1	2	2	2	2	2	1	4	1	1	26
8 - Storage	2				2	2	2	1	1	3	1	2	16
9 - Outside or Special Property	22	16	16	19	41	38	48	40	44	30	30	41	385
Undetermined	28	14	17	16	17	24	15	23	21	16	18	23	232
Grand Total	282	271	279	306	339	339	354	418	364	347	354	397	4050



Of the 4,050 calls for service in 2021, 2,310 of those calls were to **Residential** properties, the next highest category was **Health Care** facilities where we responded to 763 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 385 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	9	0.20%
118 - Trash or rubbish fire, contained	3	0.10%
121 - Fire in mobile home used as fixed residence	2	0.00%
130 - Mobile property (vehicle) fire, other	1	0.00%
131 - Passenger vehicle fire	15	0.40%
138 - Off-road vehicle or heavy equipment fire	1	0.00%
140 - Natural vegetation fire, other	1	0.00%
141 - Forest, woods or wildland fire	2	0.00%
142 - Brush or brush-and-grass mixture fire	8	0.20%
143 - Grass fire	5	0.10%
150 - Outside rubbish fire, other	4	0.10%
151 - Outside rubbish, trash or waste fire	3	0.10%
154 - Dumpster or other outside trash receptacle fire	4	0.10%
161 - Outside storage fire	1	0.00%
Total: 70		Total: 1.7%
Incident Type Category: 2 - Overpressure Rupture, Explosion, Overheat (No Fire)		
221 - Overpressure rupture of air or gas pipe/pipeline	1	0.00%
231 - Chemical reaction rupture of process vessel	1	0.00%
Total: 2		Total: 0.0%
Incident Type Category: 3 - Rescue & Emergency Medical Service Incident		
300 - Rescue, EMS incident, other	3	0.10%
3009 - Person Down	48	1.20%
311 - Medical assist, assist EMS crew	2,458	60.70%
320 - Emergency medical service, other	51	1.30%
321 - EMS call, excluding vehicle accident with injury	278	6.90%
322 - Motor vehicle accident with injuries	76	1.90%
323 - Motor vehicle/pedestrian accident (MV Ped)	5	0.10%
324 - Motor vehicle accident with no injuries.	37	0.90%
331 - Lock-in (if lock out , use 511)	1	0.00%
341 - Search for person on land	3	0.10%
342 - Search for person in water	1	0.00%
350 - Extrication, rescue, other	1	0.00%
352 - Extrication of victim(s) from vehicle	1	0.00%
353 - Removal of victim(s) from stalled elevator	3	0.10%
360 - Water & ice-related rescue, other	1	0.00%
381 - Rescue or EMS standby	6	0.10%
Total: 2,973		Total: 73.4%
Incident Type Category: 4 - Hazardous Condition (No Fire)		
400 - Hazardous condition, other	4	0.10%
411 - Gasoline or other flammable liquid spill	2	0.00%
412 - Gas leak (natural gas or LPG)	35	0.90%
420 - Toxic condition, other	1	0.00%
421 - Chemical hazard (no spill or leak)	1	0.00%
424 - Carbon monoxide incident	13	0.30%
440 - Electrical wiring/equipment problem, other	3	0.10%
441 - Heat from short circuit (wiring), defective/worn	2	0.00%
442 - Overheated motor	2	0.00%
444 - Power line down	23	0.60%
445 - Arcing, shorted electrical equipment	13	0.30%
460 - Accident, potential accident, other	2	0.00%
463 - Vehicle accident, general cleanup	23	0.60%
480 - Attempted burning, illegal action, other	5	0.10%
Total: 129		Total: 3.2%

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	10	0.20%
512 - Ring or jewelry removal	1	0.00%
520 - Water problem, other	4	0.10%
521 - Water evacuation	2	0.00%
522 - Water or steam leak	7	0.20%
531 - Smoke or odor removal	11	0.30%
541 - Animal problem	1	0.00%
542 - Animal rescue	7	0.20%
550 - Public service assistance, other	9	0.20%
551 - Assist police or other governmental agency	11	0.30%
552 - Police matter	1	0.00%
553 - Public service	32	0.80%
554 - Assist invalid	21	0.50%
561 - Unauthorized burning	15	0.40%
571 - Cover assignment, standby, moveup	62	1.50%
Total: 197		Total: 4.9%
Incident Type Category: 6 - Good Intent Call		
600 - Good intent call, other	15	0.40%
611 - Dispatched and cancelled en route	204	5.00%
6111 - EMS Dispatched and cancelled en route	198	4.90%
621 - Wrong location	2	0.00%
622 - No incident found on arrival at dispatch address	22	0.50%
631 - Authorized controlled burning	2	0.00%
650 - Steam, other gas mistaken for smoke, other	1	0.00%
651 - Smoke scare, odor of smoke	17	0.40%
652 - Steam, vapor, fog or dust thought to be smoke	8	0.20%
671 - HazMat release investigation w/no HazMat	4	0.10%
Total: 473		Total: 11.7%
Incident Type Category: 7 - False Alarm & False Call		
700 - False alarm or false call, other	2	0.00%
711 - Municipal alarm system, malicious false alarm	1	0.00%
715 - Local alarm system, malicious false alarm	4	0.10%
730 - System malfunction, other	3	0.10%
731 - Sprinkler activation due to malfunction	5	0.10%
733 - Smoke detector activation due to malfunction	19	0.50%
734 - Heat detector activation due to malfunction	3	0.10%
735 - Alarm system sounded due to malfunction	32	0.80%
736 - CO detector activation due to malfunction	15	0.40%
740 - Unintentional transmission of alarm, other	8	0.20%
741 - Sprinkler activation, no fire - unintentional	4	0.10%
743 - Smoke detector activation, no fire - unintentional	21	0.50%
744 - Detector activation, no fire - unintentional	4	0.10%
745 - Alarm system activation, no fire - unintentional	67	1.70%
746 - Carbon monoxide detector activation, no CO	16	0.40%
Total: 204		Total: 5.0%
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	1	0.00%
Total: 1		Total: 0.0%

2021 PUBLIC FIRE EDUCATION

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Totals
Scout Tours/Demos						1				1	1		3
Truck/Station Tours						1	3	3	2	28	1		38
Fire Extinguisher Training				1					2				3
Fire Drills/Smoke Alarm Check						1				4			5
Parades							5	1				2	8
Fire Truck Rides						1			1	2			4
Block Parties					1	5	1	88	1	3		1	100
Misc						1	3						4
EMS Standby													0
Monthly Totals	0	0	0	1	1	10	12	92	6	38	2	3	165

2021 MONTHLY INSPECTION REPORT

Inspection Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total	
Consultation - General			1	1	2	2	5			8	5	5	29	
Consultation - Site			2	4	2	2	1			4	4	3	22	
Consultation-General		2	6	5	9	3	3	1	4	3		1	2	39
Consultation-Site			2	1		1	1	1	1	1	1		9	
Daycare - Inspection		3				2				2			7	
Fire Alarm System - Plan Review	4	1	3	1	2	5	7	1	3	4	2	5	38	
Fire Code Complaint - Inspection	7	6	1	2	13	7	5	3	2	2	1	5	54	
Foster Care - Inspection								4					4	
General - Plan Review	2	1		1	1	3	2	2	3	2			17	
Group Home - Inspection			1						2				3	
Inspection - Business License											11	15	26	
Inspection - Certificate of Occupancy	1	2		1				2	1	1			8	
Inspection - Construction Site						1							1	
Inspection - Fire Alarm	3	15	3	1		1	1	1	1	4			30	
Inspection - Fire Prevention Activity										1			1	
Inspection - Fire Protection	2		16	3	10	2			2	3			38	
Inspection - Fireworks					1	2	1						4	
Inspection - General	2	9	6	7	16	5	12	28	10	6	4		105	
Inspection - Hoarding							5				1		6	
Inspection - School											3		3	
Inspection - Site	1	1	2										4	
Inspection - Sprinkler System	3	1	5	2	1		1	4	3	5	3	4	32	
Inspection-Business License											6	2	8	
Inspection-Fire Alarm	1			1					1				3	
Inspection-General		3		6	3		2	16		3			33	
Inspection-Reinspection	11	27	14	4	15	17	21	2	19	5	1	3	139	
Inspection-Site			1										1	
Inspection-Sprinkler System		1		4	1	1			3	1			11	
Misc. - Inspection						9	1	4			1		15	
Multi-Tenant - Inspection											44	20	64	
Public Education - General				1									1	
Residential - Inspection							1						1	
Sprinkler System - Plan Review	1	4	6	1	1	8	3	4	3	6	1	8	46	
Temporary Membrane Structure - Inspection	1	1		3				1					6	
Grand Total	44	84	68	51	74	71	64	77	71	53	79	58	794	