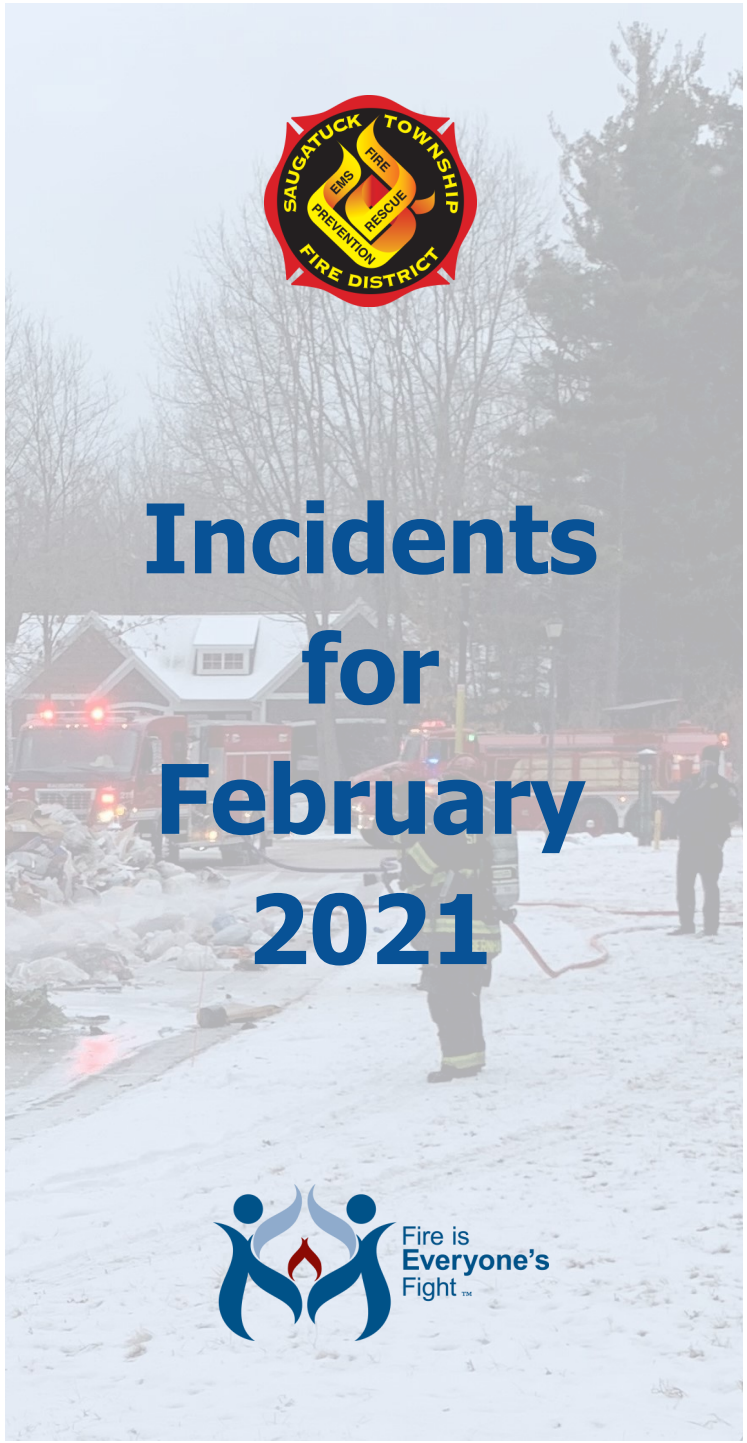


Incidents for February 2021

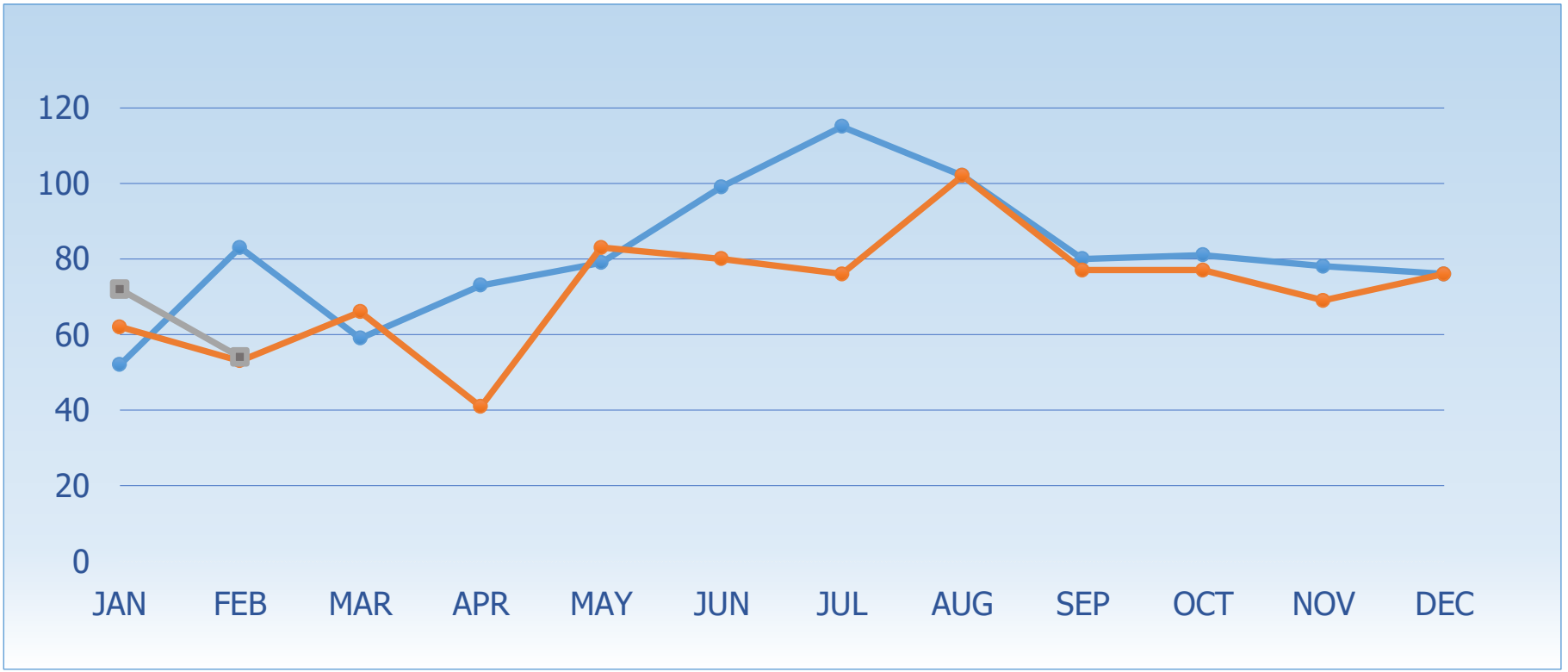
Fire is Everyone's Fight™

Summary of Incidents

- February was comparable to last year. We ended up with 54 calls and a total for the first two months of 126. That is 11 more than last year or an increase of 10%
- It is still a bit too early to judge the busy days of the week, Friday seems to be the least busy for now, 12 calls so far. The time of day when we run the most calls are a bit premature as well to judge. We see an uptick between the hours of 10AM-2PM then it levels off at 8PM-9AM the following day.
- Overlapping calls in line with last year's pattern.
- Year to date we have responded to 3 gas leak incidents that could have evolved into a major loss, luckily they were all mitigated prior to reaching explosive levels. These three properties had a total value of app. $750,000.
- Type of calls comes out as a "normal" month, EMS counts for 57% of our volume. MVIs, due to weather and road conditions are still higher than last year – 10 compared to 2 – and comparable to 2019 where we had similar road and weather issues.
  We responded to a double vehicle fire where drivers had tried to jump-start one vehicle, unfortunately there was a mishap and one engine compartment ignited and spread to the other compartment. Both vehicles were a total loss.
- Location of calls shows Township is way ahead 58% compared to Douglas 24% and Saugatuck City that list at 18%.
- Our response time for February was 7:28 or almost 2 minutes slower than February last year and a minute slower than 2019. Weather, road conditions and locations were a factor. January showed 31 priority 1 and 2 calls (lights and siren).

2021 Incidents by Month

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2021	72	54											126
2020	62	53	66	41	83	80	76	102	77	77	69	76	862
2019	52	83	59	73	79	99	115	102	80	81	78	76	977



2011-21 Incidents by month

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2021	72	54											126
2020	62	53	66	41	83	80	76	102	77	77	69	76	862
2019	52	83	59	73	79	99	115	102	80	81	78	76	977
2018	61	58	55	79	85	94	103	101	83	77	52	59	907
2017	54	35	62	51	68	89	116	76	66	91	48	57	813
2016	47	51	53	64	76	95	113	105	82	64	60	65	875
2015	57	61	50	50	73	67	110	90	71	58	49	47	783
2014	62	51	49	56	85	77	84	59	72	52	59	39	745
2013	67	62	44	39	57	53	70	74	42	58	66	58	690
2012	52	33	58	55	54	74	104	77	54	40	52	76	729
2011	42	38	57	34	52	51	92	70	63	61	40	41	641
Average	57	53	55	54	71	78	98	84	69	66	56	58	796

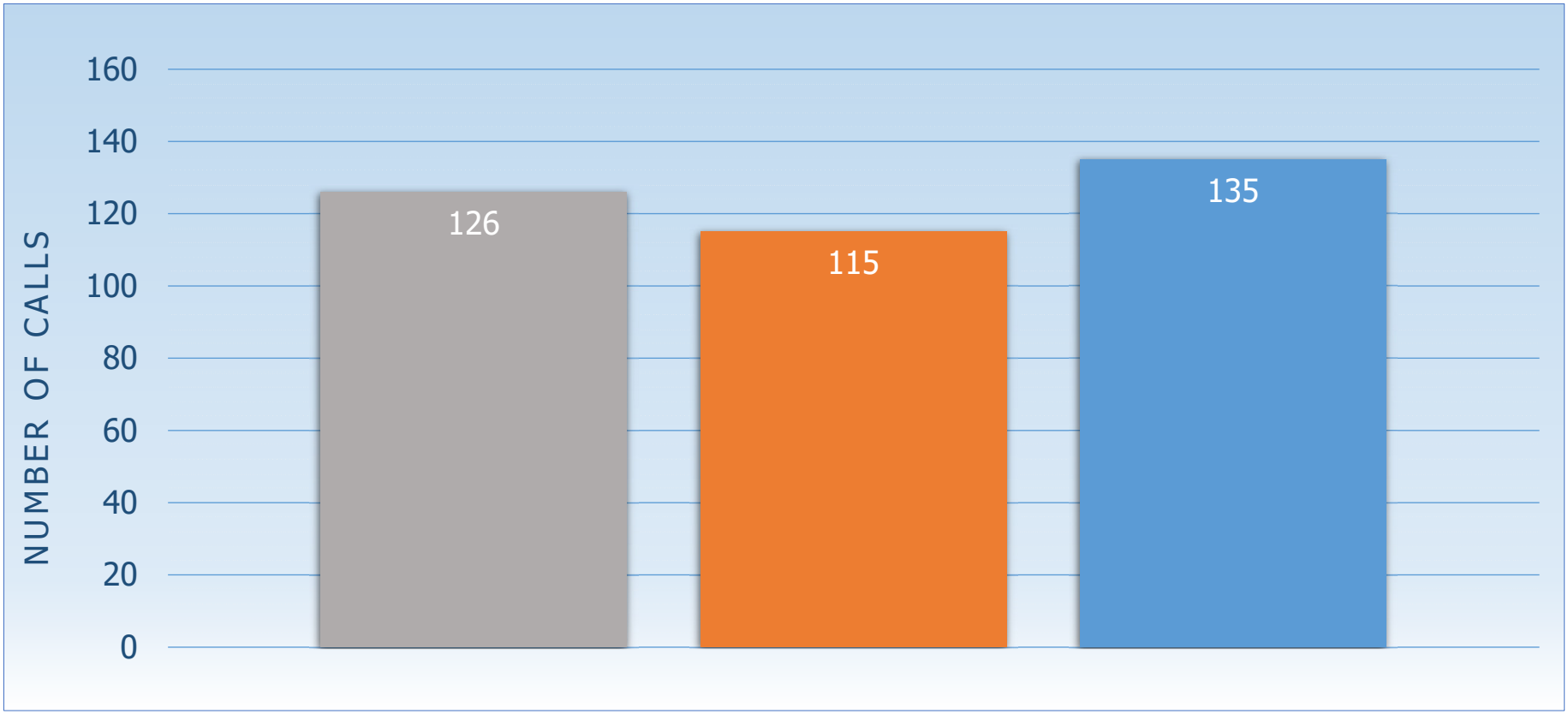
Lowest Highest

1999-2021 Incidents by month

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2021	72	54											126
2020	62	53	66	41	83	80	76	102	77	77	69	76	862
2019	52	83	59	73	79	99	115	102	80	81	78	76	977
2018	61	58	55	79	85	94	103	101	83	77	52	59	907
2017	54	35	62	51	68	89	116	76	66	91	48	57	813
2016	47	51	53	64	76	95	113	105	82	64	60	65	875
2015	57	61	50	50	73	67	110	90	71	58	49	47	783
2014	62	51	49	56	85	77	84	59	72	52	59	39	745
2013	67	62	44	39	57	53	70	74	42	58	66	58	690
2012	52	33	58	55	54	74	104	77	54	40	52	76	729
2011	42	38	57	34	52	51	92	70	63	61	40	41	641
2010	36	26	46	52	50	48	98	72	58	54	40	32	612
2009	46	46	38	40	43	61	65	57	58	45	44	49	592
2008	46	35	23	32	41	53	101	54	43	48	29	53	558
2007	35	44	34	39	44	64	78	59	55	37	33	37	559
2006	41	33	41	23	58	48	64	46	42	43	47	42	528
2005	42	28	48	47	37	57	75	58	49	40	40	34	555
2004	41	28	34	34	51	45	50	48	46	51	30	41	499
2003	25	30	35	36	54	61	55	63	39	35	39	45	517
2002	36	27	41	35	35	54	62	65	53	44	36	30	518
2001	29	33	38	38	46	51	69	43	46	43	34	28	498
2000	44	40	44	50	42	48	64	38	41	42	46	45	544
1999	32	34	31	31	37	37	41	40	31	39	31	31	415
Average	47	43	46	45	57	64	82	68	57	54	45	47	645

Lowest Highest

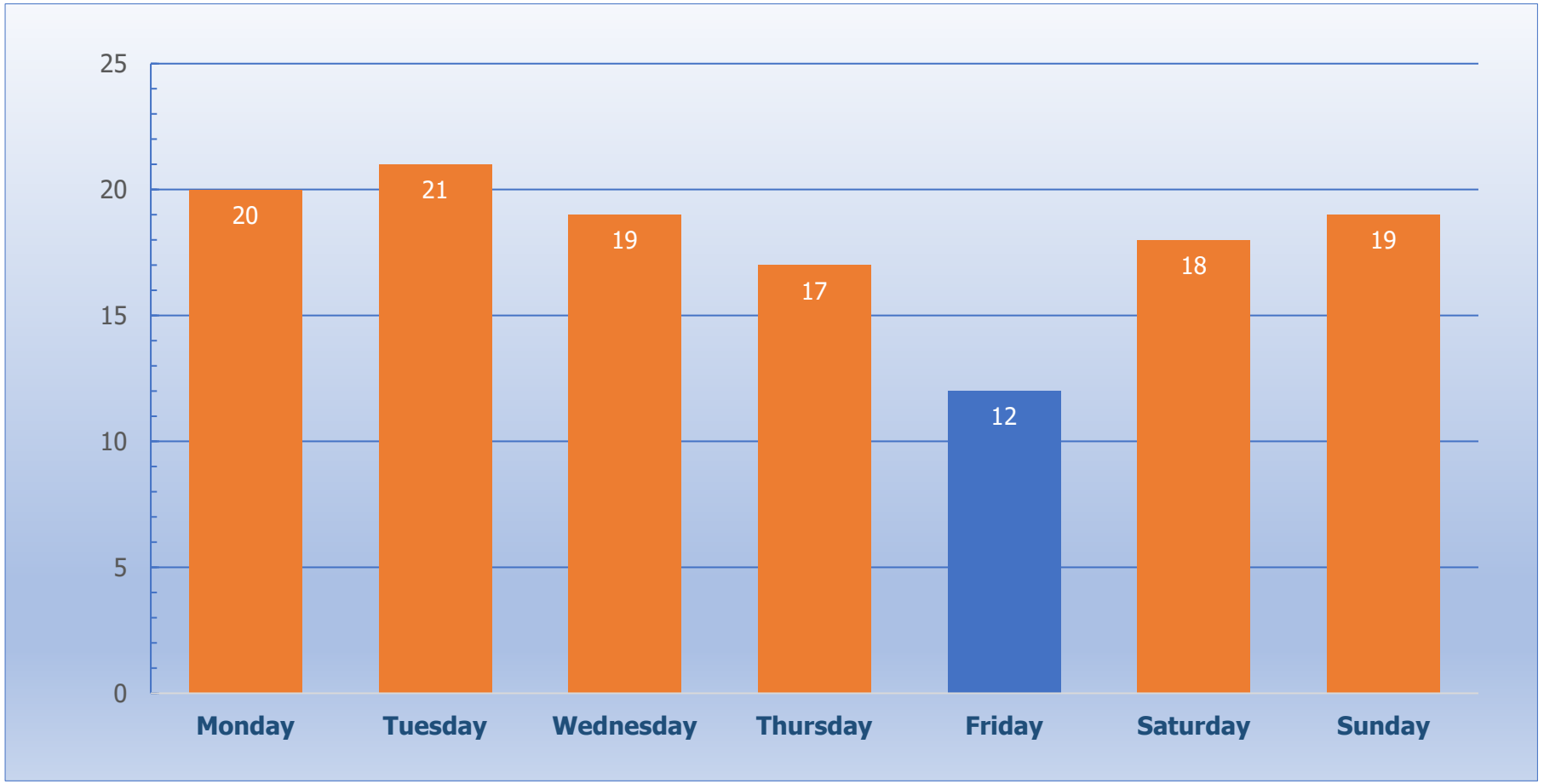
2019-2021 Incident Comparison



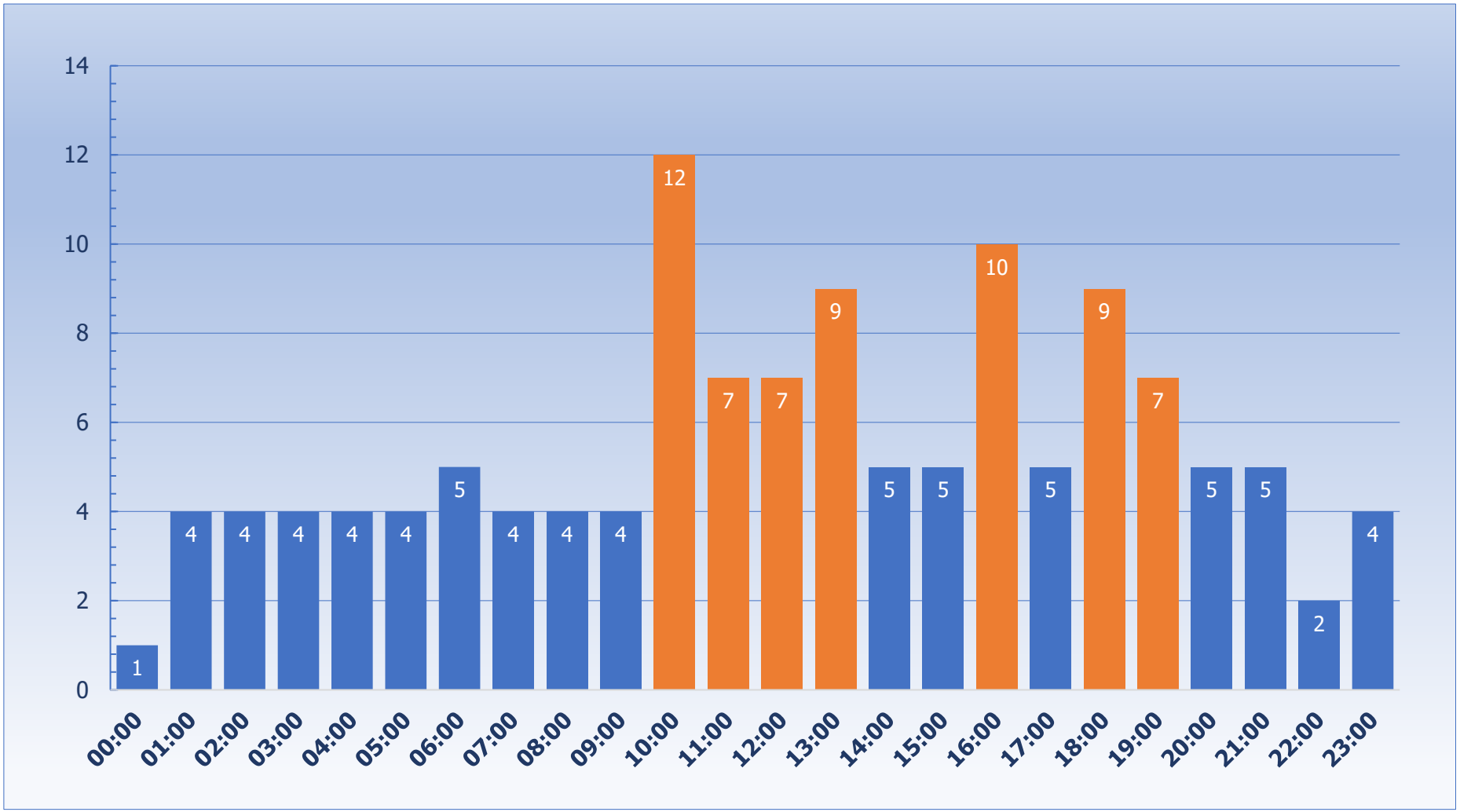
Year	February 28	+/-	+/- %
2021	126	11	9.6
2020	115	(20)	(14.8)
2019	135		

2021 Incidents per Day of the Week

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
20	21	19	17	12	18	19



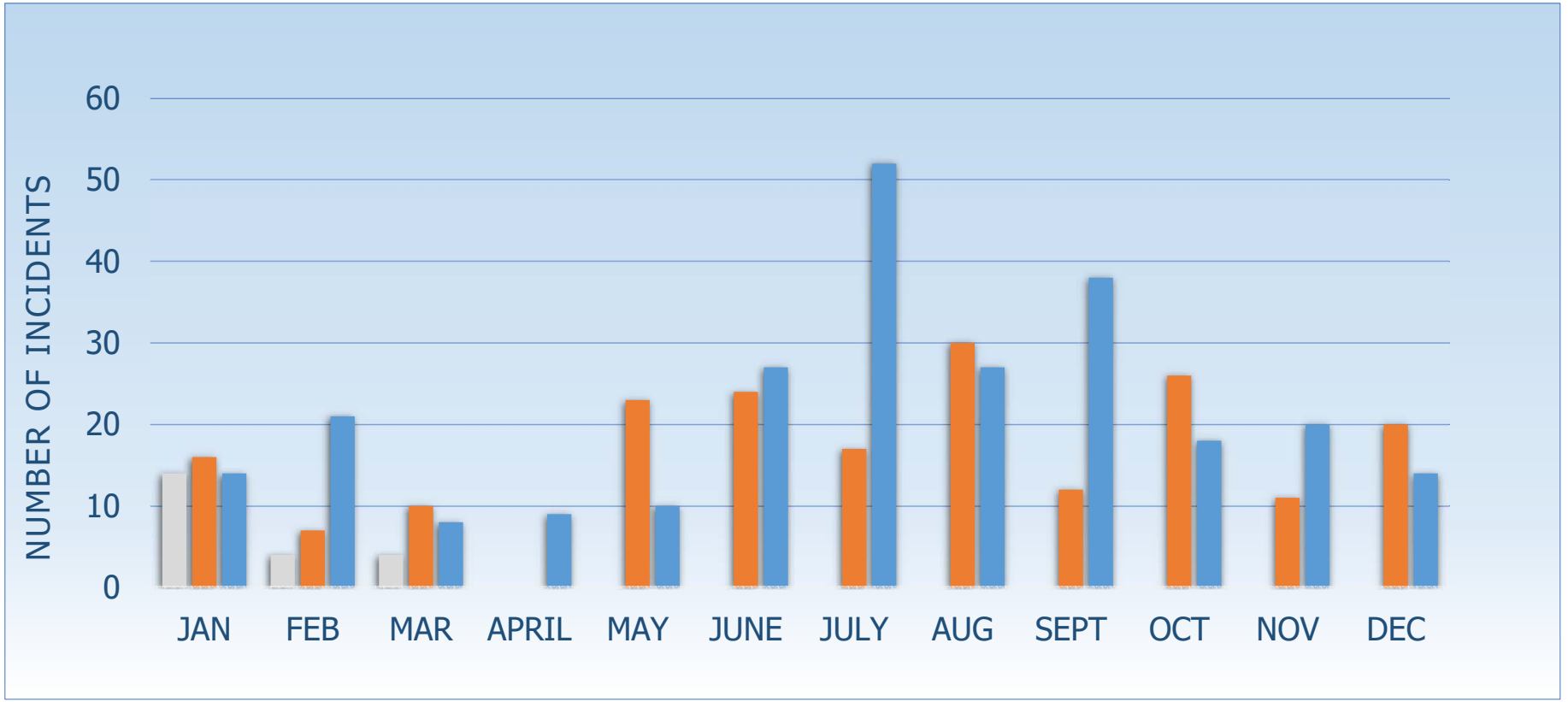
2021 Incidents by Time of Day



2021 Overlapping Incidents YTD

[Another emergency incident that requires fire department response that occurs within the time frame of a previous emergency incident.]

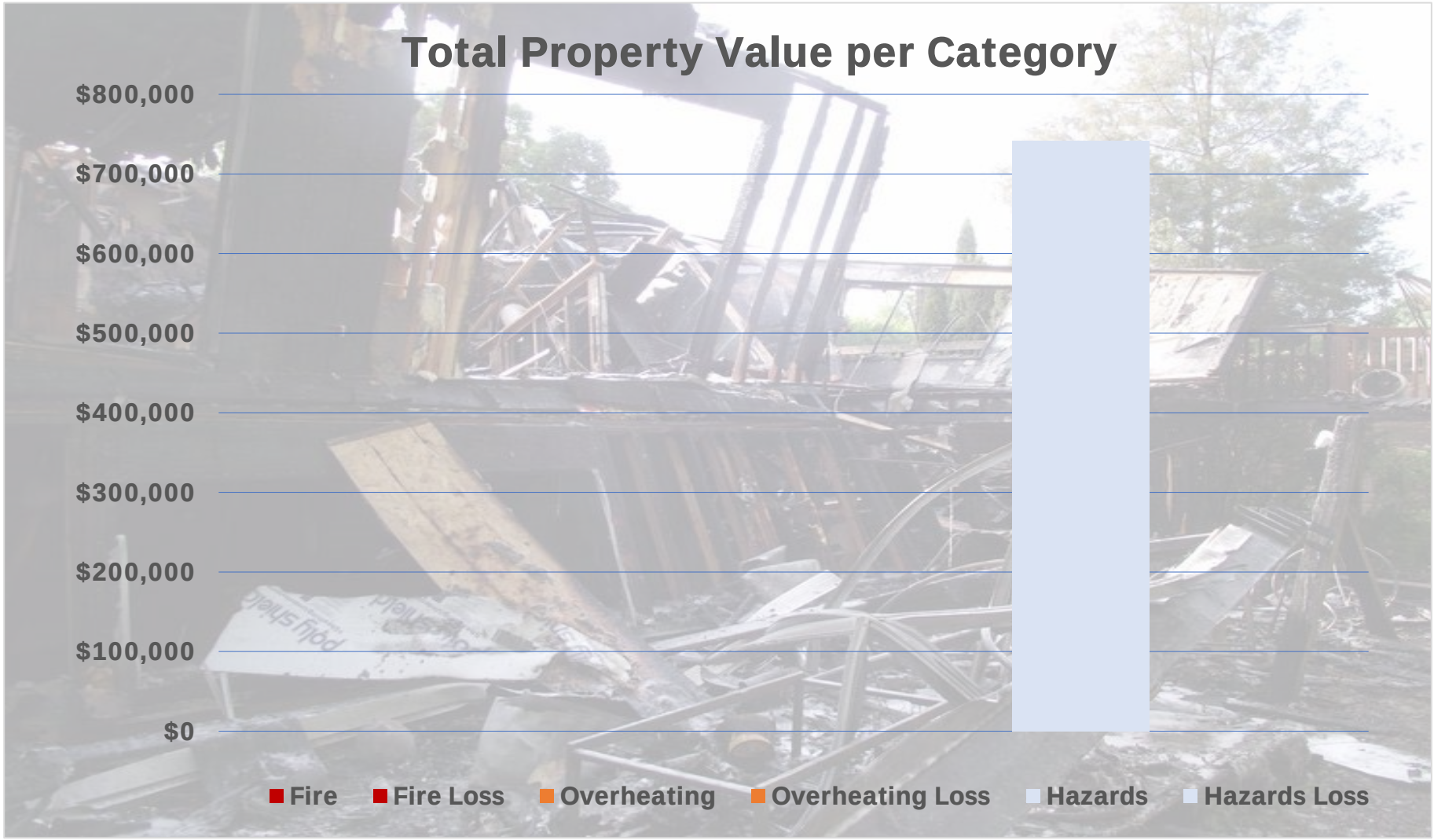
Year	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
2021	14	4	4										22
2020	16	7	10	0	23	24	17	30	12	26	11	20	196
2019	14	21	8	9	10	27	52	27	38	18	20	14	258



2021 Protected Property Value

NFIRS Category	Call #	Date	Address	Zillow Market Value	Loss
Fire					
			TOTAL	$0	$0
Overpressure Explosion, Overheat - No Fire					
			TOTAL	$0	$0
Hazardous Conditions - No Fire					
412	210019	01/07/2021	Elizabeth Street	$418,233	$0
412	210094	02/14/2021	Sandra Lane	$248,287	$0
412	210101	02/14/2021	Maple Lane	$75,000	$0
			TOTAL	$741,520	$0

2020 Protected Property Value



National Fire Incident Reporting System (NFIRS) Incident Code Guide

100 Series (Fire)

(11) Structure Fire
- (111) Building Fire
- (112) Fires in structures other than in a building
- (113) Cooking fire, confined to container
- (114) Chimney or flue fire, confined to chimney or flue
- (115) Incinerator overload or malfunction, fire confined
- (116) Fuel burner/boiler malfunction, fire confined
- (117) Commercial compactor fire, confined to rubbish
- (118) Trash, or rubbish fire in a structure, no flame damage

(12) Fire in mobile property used as a fixed structure
- (121) Fire in mobile home used as a fixed residence
- (122) Fire in motor home, camper, recreational vehicle
- (123) Fire in portable building, fixed location

(13) Mobile property (vehicle) fire
- (131) Passenger vehicle fire
- (132) Road freight or transport vehicle fire
- (133) Rail vehicle fire
- (134) Water vehicle fire
- (135) Aircraft vehicle fire
- (136) Self-propelled motor home or recreational vehicle fire
- (137) Camper or recreational vehicle
- (138) Off-road vehicle or heavy equipment fire

(14) Natural vegetation fire
- (141) Forest, woods, or wildland fire
- (142) Brush, or brush and grass mixture fire
- (143) Grass fire, includes fire confined to area.

(15) Outside rubbish fire
- (151) Outside rubbish, trash, or waste fire
- (152) Garbage dump or sanitary landfill fire
- (153) Construction or demolition landfill fire
- (154) Dumpster or other outside trash receptacle fire
- (155) Outside stationary compactor/compacted trash fire

(16) Special outside fire
- (161) Outside storage fire on residential or commmercial/ industrial property
- (162) Outside equipment fire
- (163) Outside gas or vapor combustion explosion
- (164) Outside mailbox fire

(17) Cultivated vegetation, crop fire
- (171) Cultivated grain or crop fire
- (172) Cultivated orchard or vineyard fire
- (173) Cultivated trees or nursery stock fire

All Incident Type Codes are part of the National Fire Incident Reporting System standard NFIRS used in this document.

200 Series (Overpressure Explosion, Overheat - No Fire)

(21) Overpressure rupture from steam (no ensuing fire)
- (211) Overpressure rupture of steam pipe or pipeline
- (212) Overpressure rupture of steam boiler
- (213) Steam rupture of pressure or process vessel

(22) Overpressure rupture from air or gas - no fire
- (221) Overpressure rupture of air or gas pipe/pipeline
- (222) Overpressure rupture of boiler from air or gas
- (223) Air or gas rupture of pressure or process vessel

(23) Overpressure rupture, chemical reaction - no fire
- (231) Chemical reaction rupture of pressure or process vessel

(24) Explosion (no fire)
- (241) Munitions or bomb explosions (no fire)
- (242) Blasting agent explosion (no fire)
- (243) Fireworks explosion (no fire), all classes of fireworks

(25) Excessive heat, scorch burns with no ignition
- (251) Excessive heat, scorch burns with no ignition

300 Series (Rescue & EMS Incidents)

(31) Medical assist
- (311) Medical assist, assist EMS crew

(32) Emergency medical service (EMS) incident
- (321) EMS call, excluding vehicle accident with injury
- (322) Vehicle accident with injuries
- (323) Motor vehicle/pedestrian accident (MV Ped)
- (324) Motor vehicle accident with no injuries

(33) Lock-in
- (331) Lock-in, includes vehicles (if lock-out, use 511)

(34) Search for lost person
- (341) Search for person on land
- (342) Search for person in water
- (343) Search for person underground

(35) Extrication, rescue
- (351) Extrication of victim(s) from building/structure
- (352) Extrication of victim(s) from vehicle
- (353) Removal of victim(s) from stalled elevator
- (354) Trench/below grade rescue
- (355) Confined space rescue
- (356) High angle rescue
- (357) Extrication of victim(s) from machinery

(36) Water or ice-related rescue
- (361) Swimming/recreational water areas rescue
- (362) Ice rescue
- (363) Swift water rescue
- (364) Surf rescue
- (365) Watercraft rescue

(37) Electrical rescue
- (371) Electrocution or potential electrocution
- (372) Trapped by power lines

(38) Rescue or EMS standby
- (381) Rescue or EMS standby; hazardous conditions

400 Series (Hazardous Conditions - No Fire)

(41) Combustible/flammable spills & leaks
- (411) Gasoline or other flammable liquid spill, Class I
- (412) Gas leak (natural gas or LPG)
- (413) Oil or other combustible liquid spill, Class II or III

(42) Chemical release, reaction or toxic condition
- (421) Chemical hazard (no spill or leak)
- (422) Chemical spill or leak
- (423) Refrigeration leak
- (424) Carbon monoxide incident

(43) Radioactive condition
- (431) Radiation leak, radioactive material

(44) Electrical wiring/equipment problem
- (441) Heat from short circuit (wiring), defective/worn insulation
- (442) Overheated motor or wiring
- (443) Breakdown of light ballast
- (444) Power line down
- (445) Arcing, shorted electrical equipment

(45) Biological hazard
- (451) Biological hazard, confirmed or suspected

(46) Accident, potential accident
- (461) Building or structure weakened or collapsed
- (462) Aircraft standby
- (463) Vehicle accident, general cleanup

(47) Explosive, bomb removal
- (471) Explosive, bomb removal (for bomb scare, use 721)

(48) Attempted burning, illegal action
- (481) Attempt to burn
- (482) Threat to burn

500 Series (Service Call)

(51) Person in distress
- (511) Lock-out
- (512) Ring or jewelry removal, no transport to hospital

(52) Water problem
- (521) Water (not people) evacuation
- (522) Water or steam leak, includes open hydrants

(53) Smoke problem
- (531) Smoke or odor removal

(54) Animal problem or rescue
- (541) Animal problem
- (542) Animal rescue

(55) Public service assistance
- (551) Assist police or other governmental agency
- (552) Police matter
- (553) Public service, not government agencies
- (554) Assist invalid
- (555) Defective elevator, no occupants

(56) Unauthorized burning

Cover assignment, standby at fire station, move-up
- (571) Cover assignment, standby, moveup

600 Series (Good Intent Calls)

(61) Dispatched and canceled enroute
- (611) Dispatched & canceled enroute

(62) Wrong location, no emergency found
- (621) Wrong location
- (622) No incident found at dispatch address

(63) Controlled burning
- (631) Authorized controlled burning
- (632) Prescribed fire (with prior written, approved fire plan)

(64) Vicinity alarm
- (641) Vicinity alarm (incident in other location)

(65) Steam, other gas mistaken for smoke
- (651) Smoke scare, odor of smoke, not steam
- (652) Steam, vapor, fog or dust thought to be smoke
- (653) Smoke from barbecue, tar kettle (not hostile fire)

(66) EMS call where party has been transported
- (661) EMS call, party transported by non-fire agency

(67) Hazmat release investigation w/ no hazmat
- (671) Hazmat release investigation w/ no hazmat found
- (672) Biological hazard, none found

700 Series (False Alarms & False Calls)

(71) Malicious, mischievous false alarm
- (711) Municipal alarm system, malicious false alarm
- (712) Direct tie to FD, malicious/false alarm
- (713) Telephone, malicious false alarm
- (714) Central station, malicious false alarm
- (715) Local alarm system, malicious false alarm

(72) Bomb scare
- (721) Bomb scare - no bomb

(73) System or detector malfunction
- (731) Sprinkler activation due to system malfunction or failure
- (732) Extinguishing system activation due to malfunction
- (733) Smoke detector activation due to malfunction
- (734) Heat detector activation due to malfunction
- (735) Alarm system activation due to malfunction
- (736) CO detector activation due to malfunction

(74) Unintentional system/detector operation - no fire
- (741) Sprinkler activation, no fire - unintentional
- (742) Extinguishing system activation
- (743) Smoke detector activation, no fire -unintentional
- (744) Detector activation, no fire - unintentional
- (745) Alarm system activation, no fire - unintentional
- (746) Carbon monoxide detector activation, no CO

(75) Biological hazard
- (751) Biological hazard, malicious false report

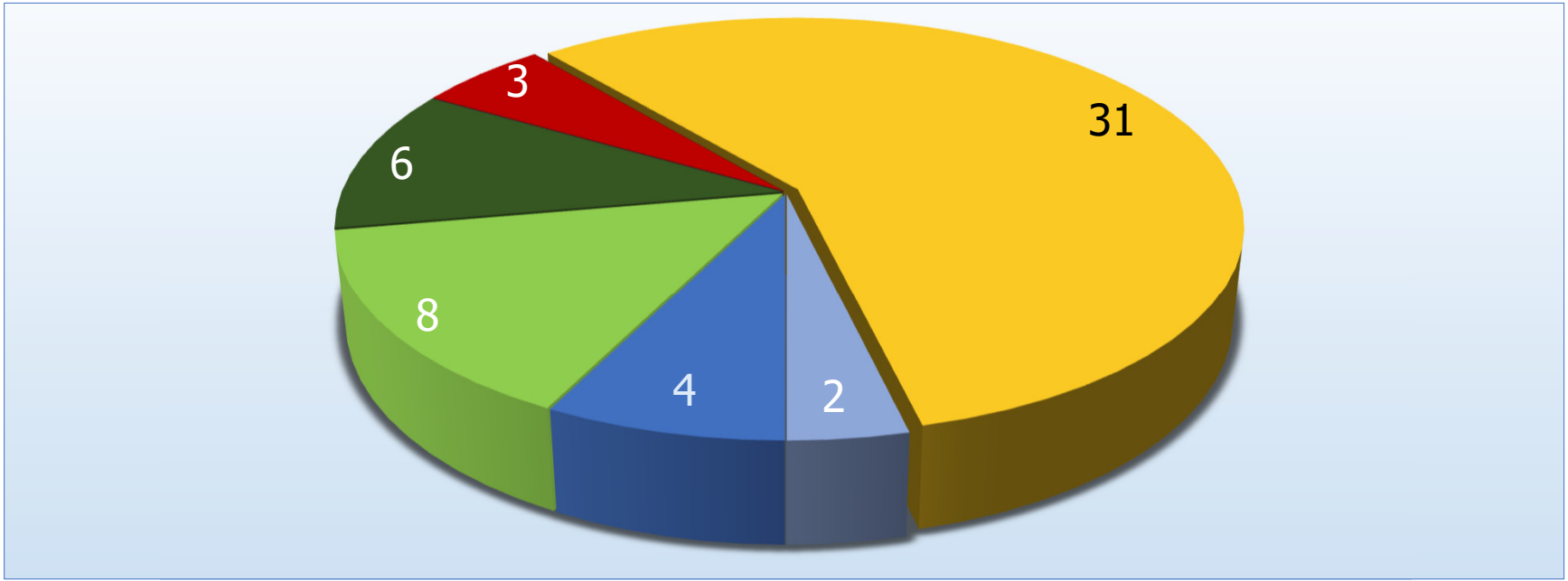
800 Series (Severe Weather & Natural Disaster)

(81) Severe Weather & Natural Disaster
- (811) Earthquake assessment, not rescue/other service
- (812) Flood assessment, not water rescue
- (813) Wind storm, tornado/hurricane assessment
- (814) Lightning strike (no fire), includes investigation
- (815) Severe weather or natural disaster standby

900 Series (Special Incident Type)

(91) Citizen compliant
- (911) Citizen complaint, includes code violations

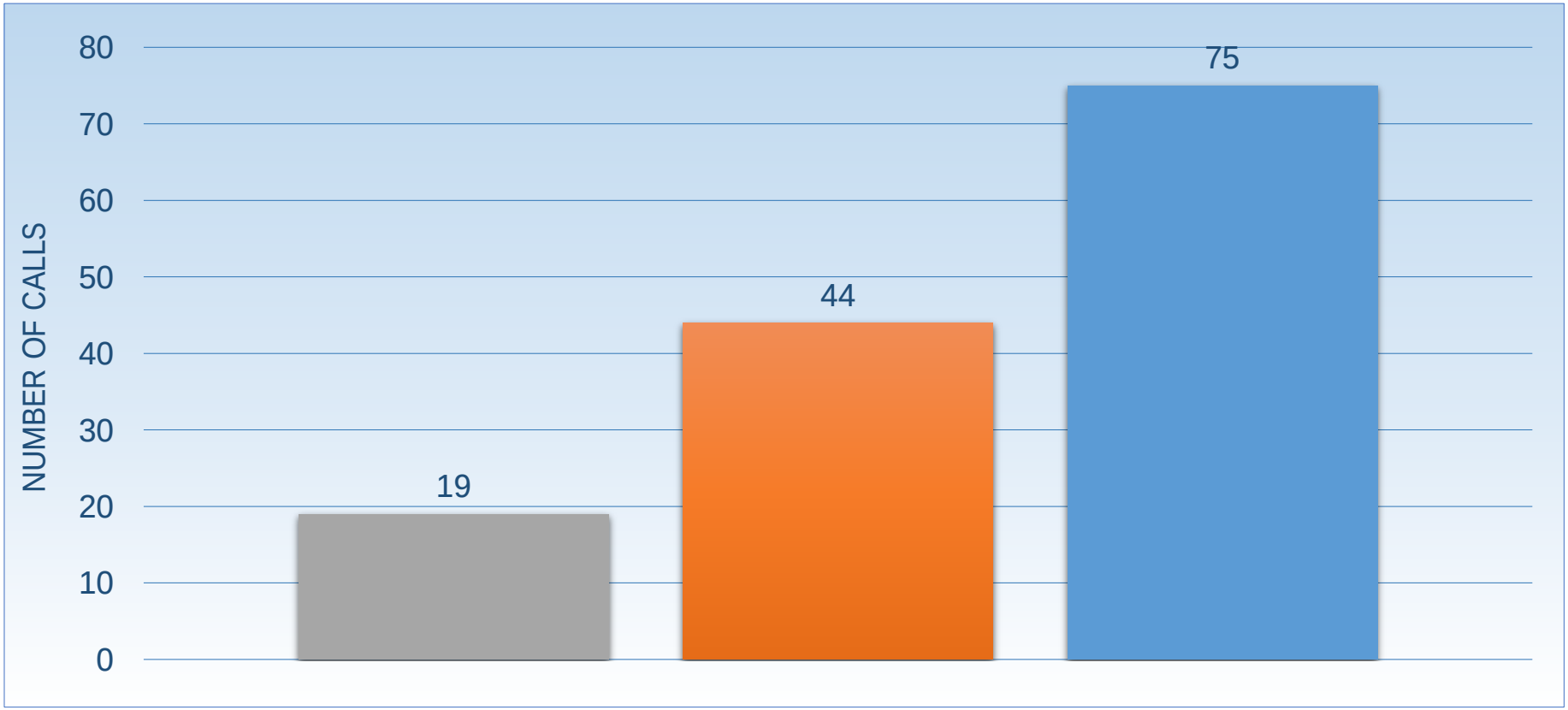
February 2021 Incidents by NFIRS Type



Type Of Incident:	Total Incidents:	Percentage Value:
100s - All types of fire, structure, vehicle and wildland.	**3**	**5.6%**
200s - Excessive heat, explosions and ruptured pipelines. No Fire.	**0**	**0.0%**
300s - Medical assist, traffic accidents, water and ice rescues.	**31**	**57.4%**
400s - Hazardous Conditions, gas leaks and carbon monoxide etc.	**2**	**3.7%**
500s - Public service Calls. Water and smoke problems. Animal rescue.	**4**	**7.4%**
600s - Cancelled calls, controlled burns and smoke invstigation.	**8**	**14.8%**
700s - False alarms. Smoke, heat and CO detector malfunctions.	**6**	**11.1%**
800s - Severe weather, flooding, storm and lightning strike damage.	**0**	**0.0%**
900s - Community participation and citizen concerns.	**0**	**0.0%**
	54	**100.0%**

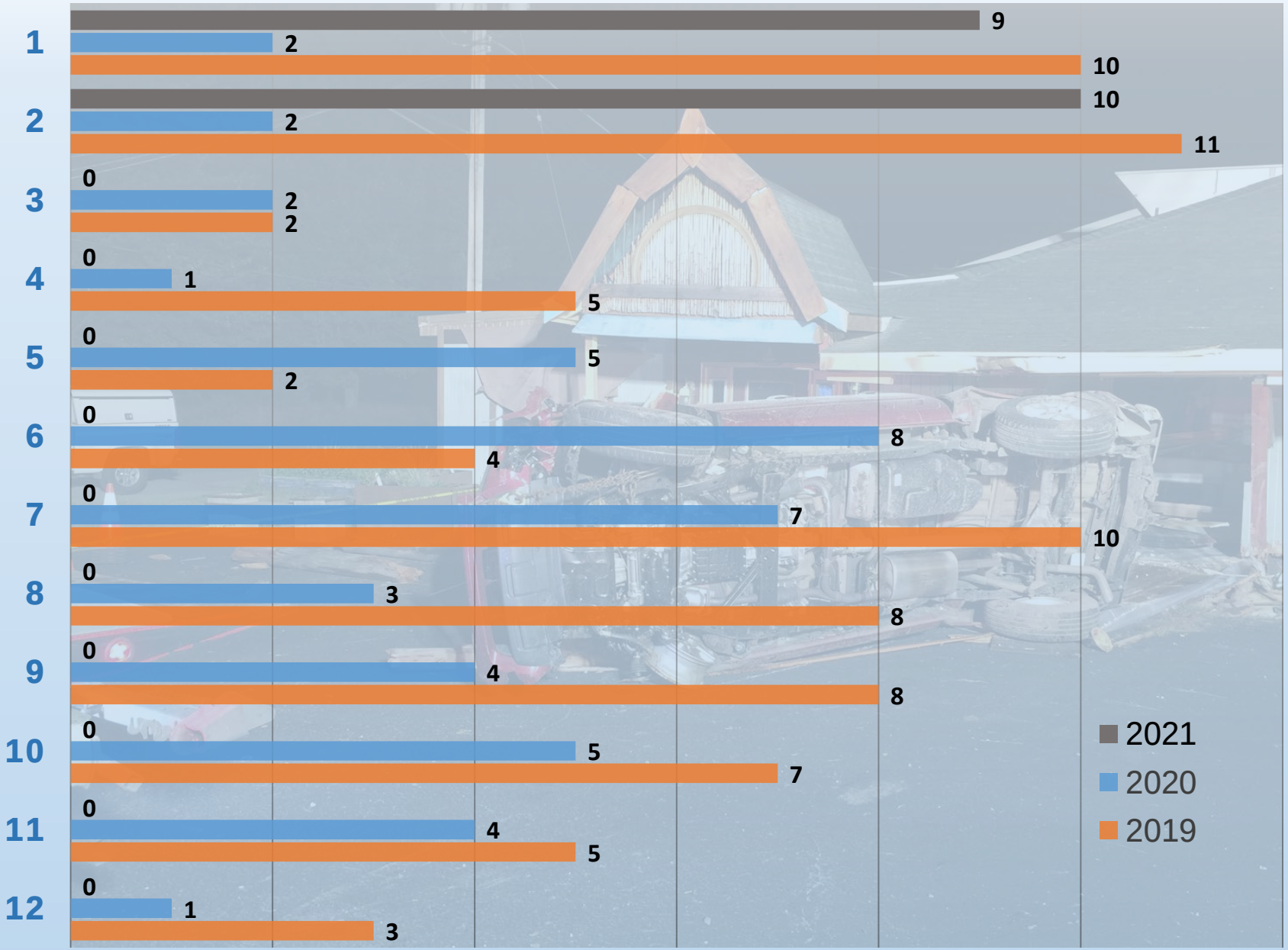
2019-2021 Motor Vehicle Incidents

[All incidents with any motorized vehicle involved in accidents, fires etc.]



As of:	# of Incidents	+/-	+/- %	Extrication	%
02/14/2021	19	(25)	(56.82)	1	5.3
12/31/2020	44	(31)	(41.33)	0	0.0
12/31/2019	75	11	21.15	3	4.0

MV Incidents by Month 2019-2021



2015-21 MVIs by month

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2021	9	10											19
2020	2	2	2	1	5	8	7	3	4	5	4	1	44
2019	10	11	10	5	2	4	10	8	8	7	5	3	83
2018	9	5	4	5	9	5	7	6	6	0	1	7	64
2017	4	4	2	2	7	7	8	4	2	3	2	7	52
2016	15	8	3	13	4	8	16	4	0	2	5	11	89
2015	6	11	3	1	3	6	7	7	4	2	1	2	53
Average	8	7	4	5	5	6	10	6	4	3	3	6	68

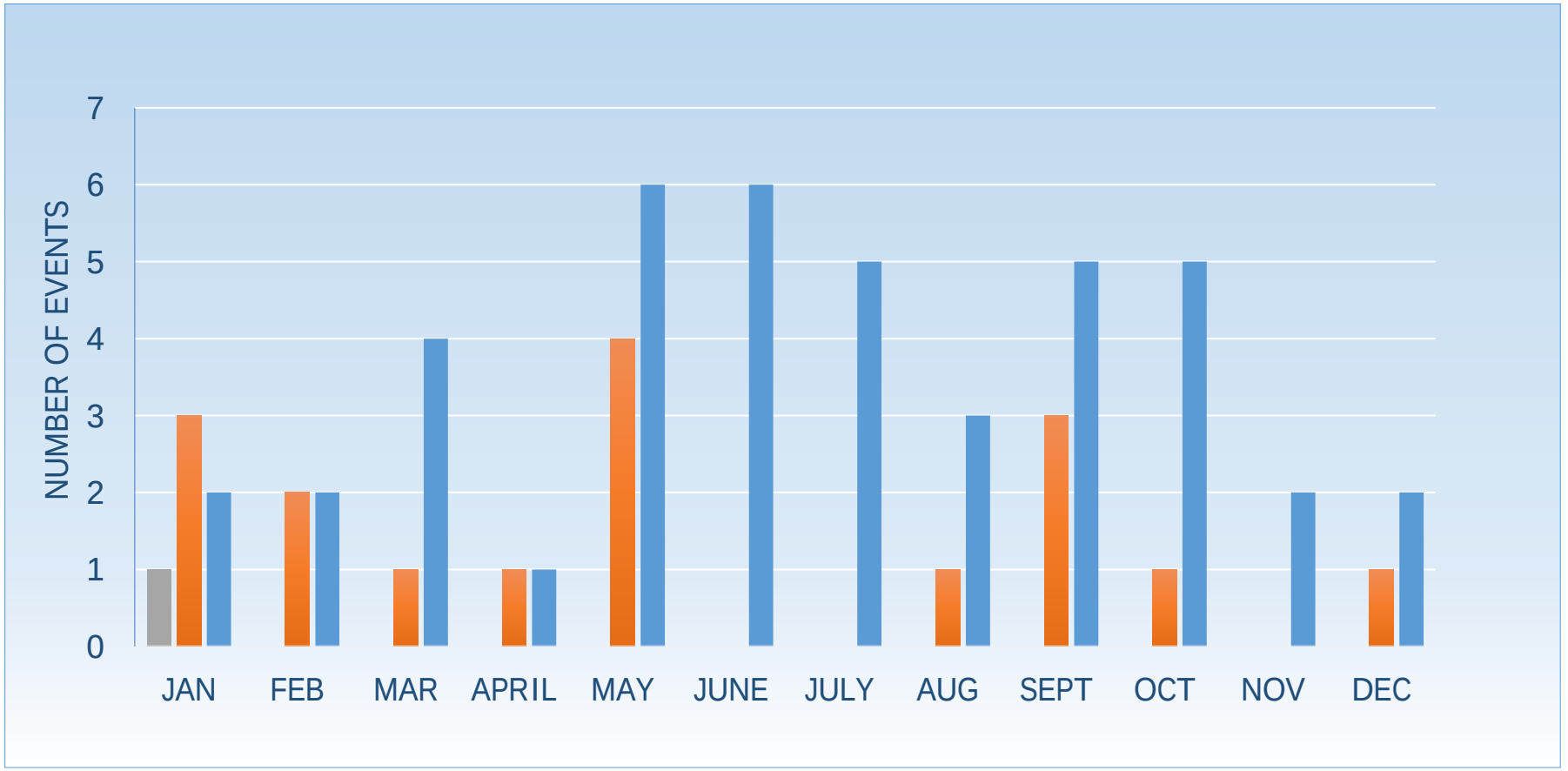
Lowest **Highest**

2021 Vehicle Fires - Value and Loss

NFIRS Category	Call #	Date	Address	Year	Make	Model	Blue Book Value	State	Loss
Fire									
131	0113	02/21/2021	Gaslight Circle		VW	TD Wagon		Totaled	
-	-	-	-		Mazda	Sedan CX5		Totaled	
			TOTAL				$0		$0

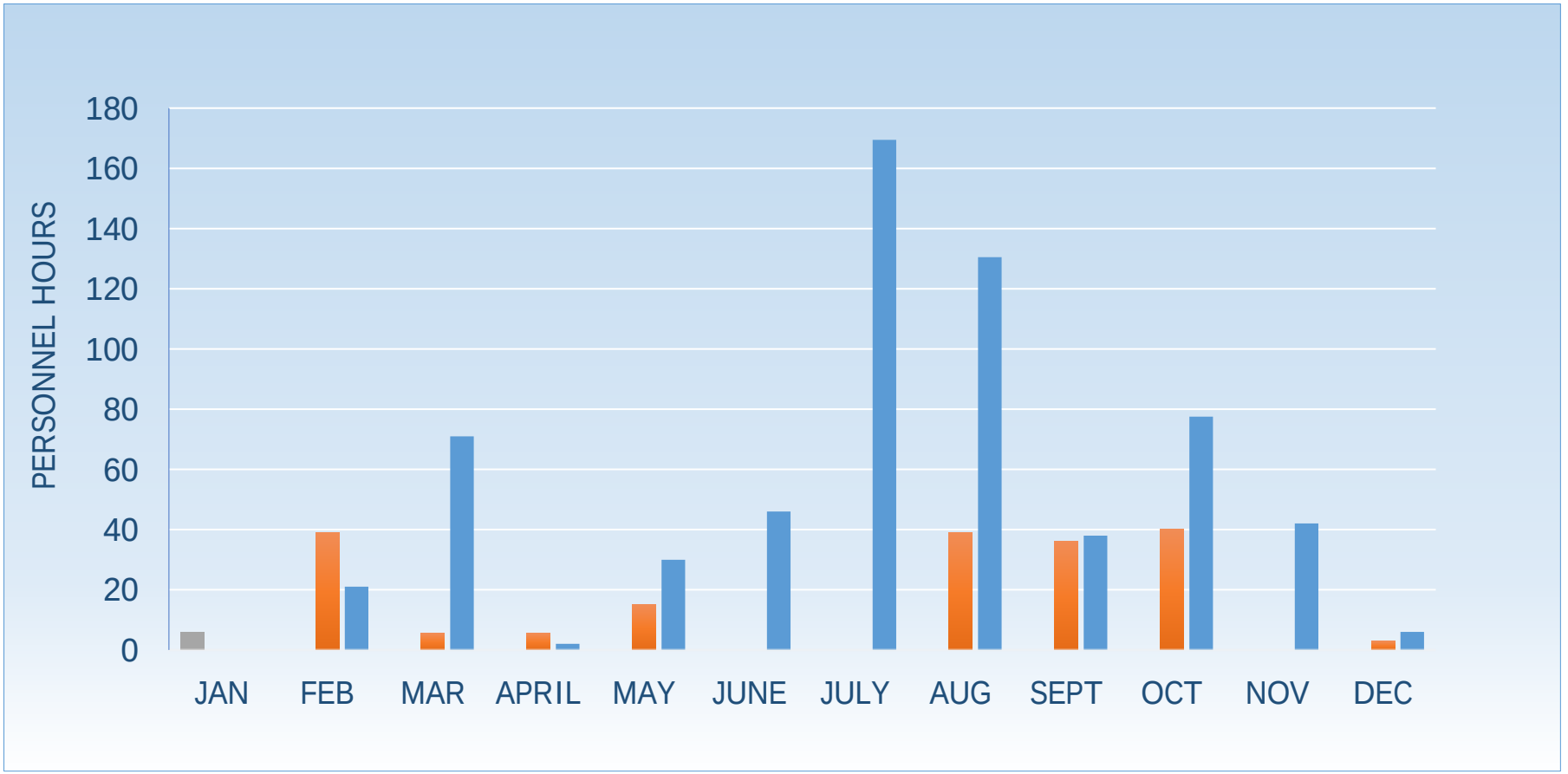
2019-2021 Special Events by month

Year	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	Total
2021	1	0											1
2020	3	2	1	1	4	0	0	1	3	1	0	1	17
2019	2	2	4	1	6	6	5	3	5	5	2	2	43

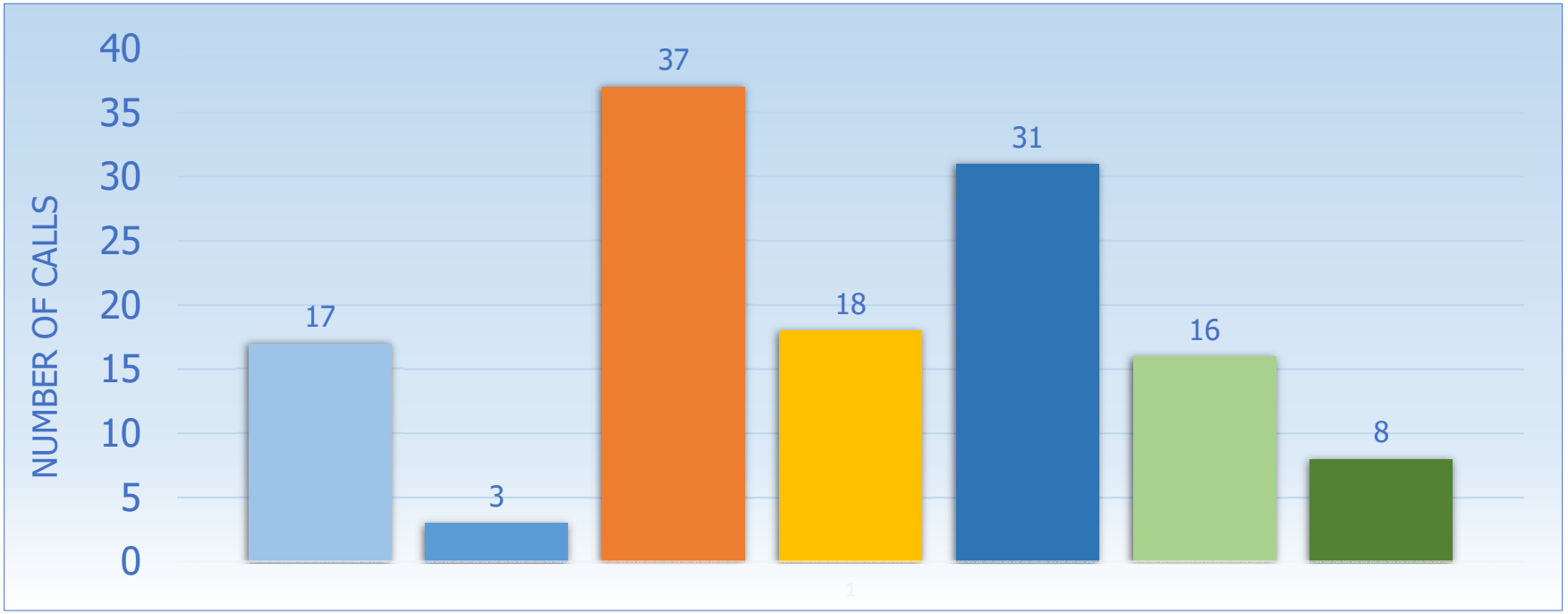


2019-2021 Special Events Personnel Hours

Year	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	Total
2021	6	0											6
2020	0	39	6	6	15	0	0	39	36	40	0	3	183
2019	0	21	71	2	30	46	170	131	38	78	42	6	634

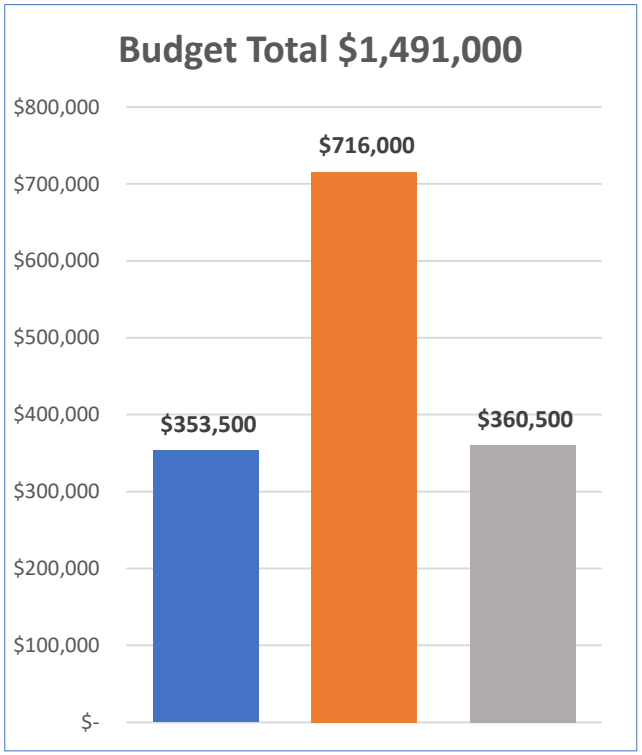


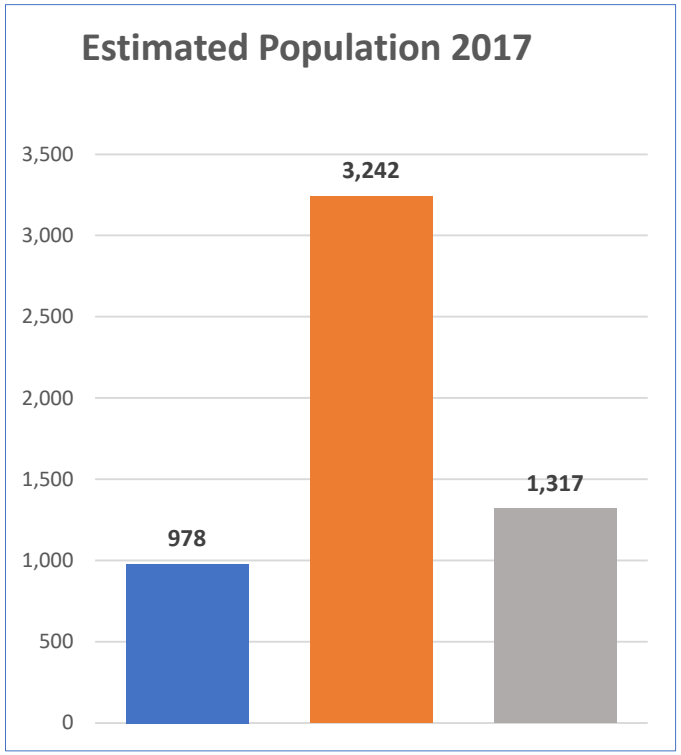
2021 Incidents by Area

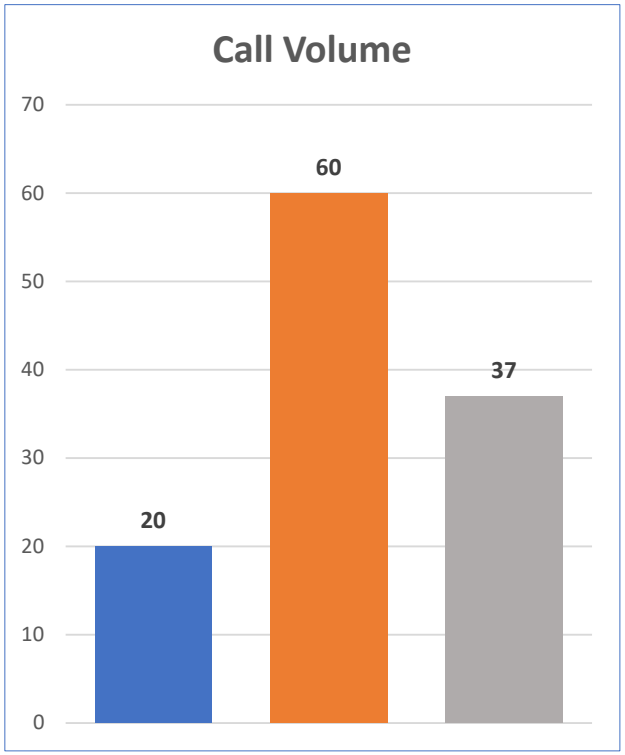


Area	March 01	%
Saugatuck North	17	13.1
Saugatuck South	3	2.3
Douglas	37	28.5
Township North	18	13.8
Township South	31	23.8
I-196	16	12.3
Outside Area	8	6.2
Total	130	100.0

2021 Key numbers for Tri-Community





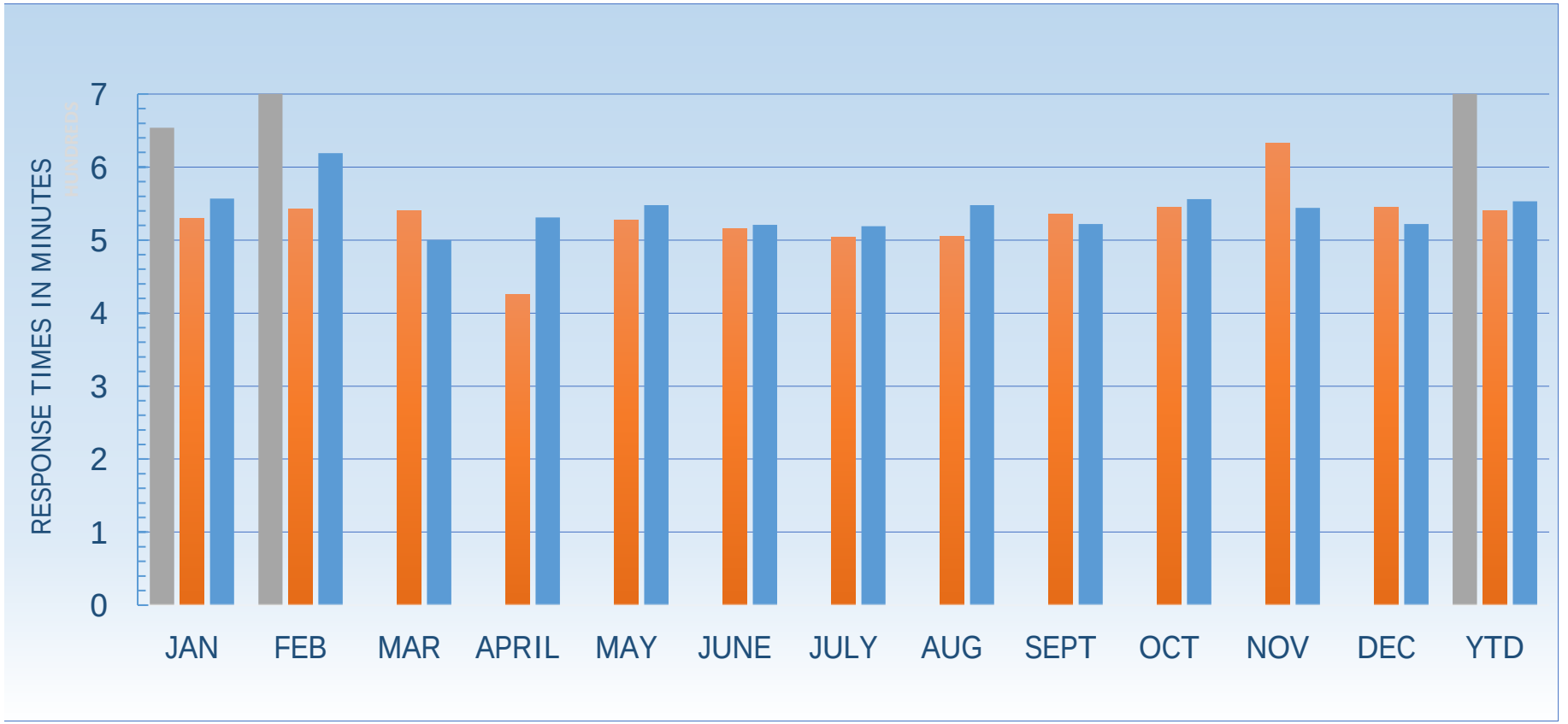


	Square Miles		Budget	%	Est. Population 2017	%	Call Volume	%
Saugatuck City	1.47	$	353,500	24.7	978	17.66	20	17.09
Saugatuck Township	24.21	$	716,000	50.1	3,242	58.55	60	51.28
City of Douglas	1.98	$	360,500	25.2	1,317	23.79	37	31.62
Total	27.66	$	1,430,000	100.0	5,537	100.00	117	100.00

2019-2021 Response Times by Month

[From 2019 Response Times are now emergencies that requires lights and siren.]

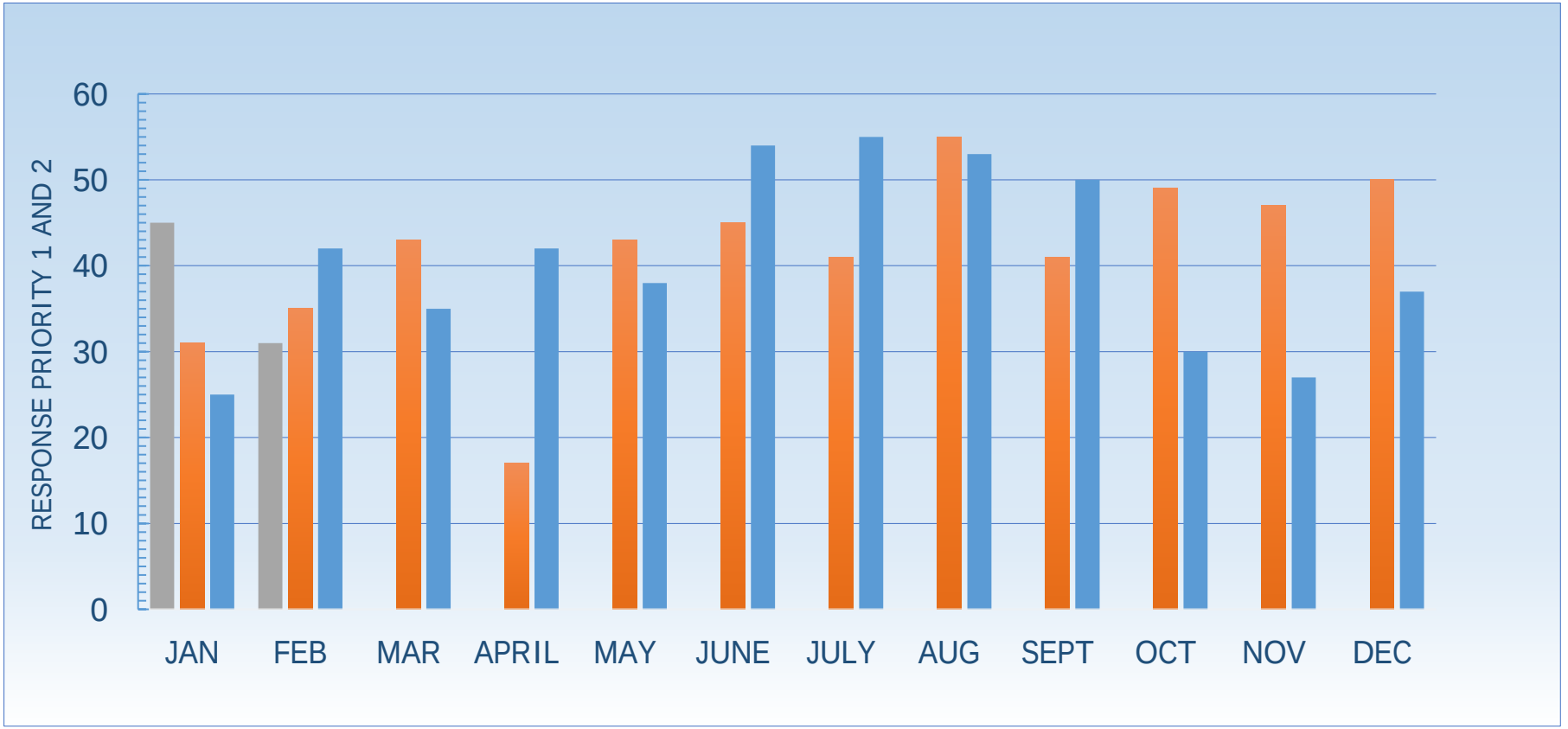
Year	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YTD
2021	6:54	7:28											7:07
2020	5:30	5:42	5:40	4:25	5:27	5:16	5:04	5:05	5:36	5:45	6:33	5:45	5:40
2019	5:57	6:19	5:00	5:31	5:48	5:21	5:19	5:48	5:22	5:56	5:44	5:22	5:53



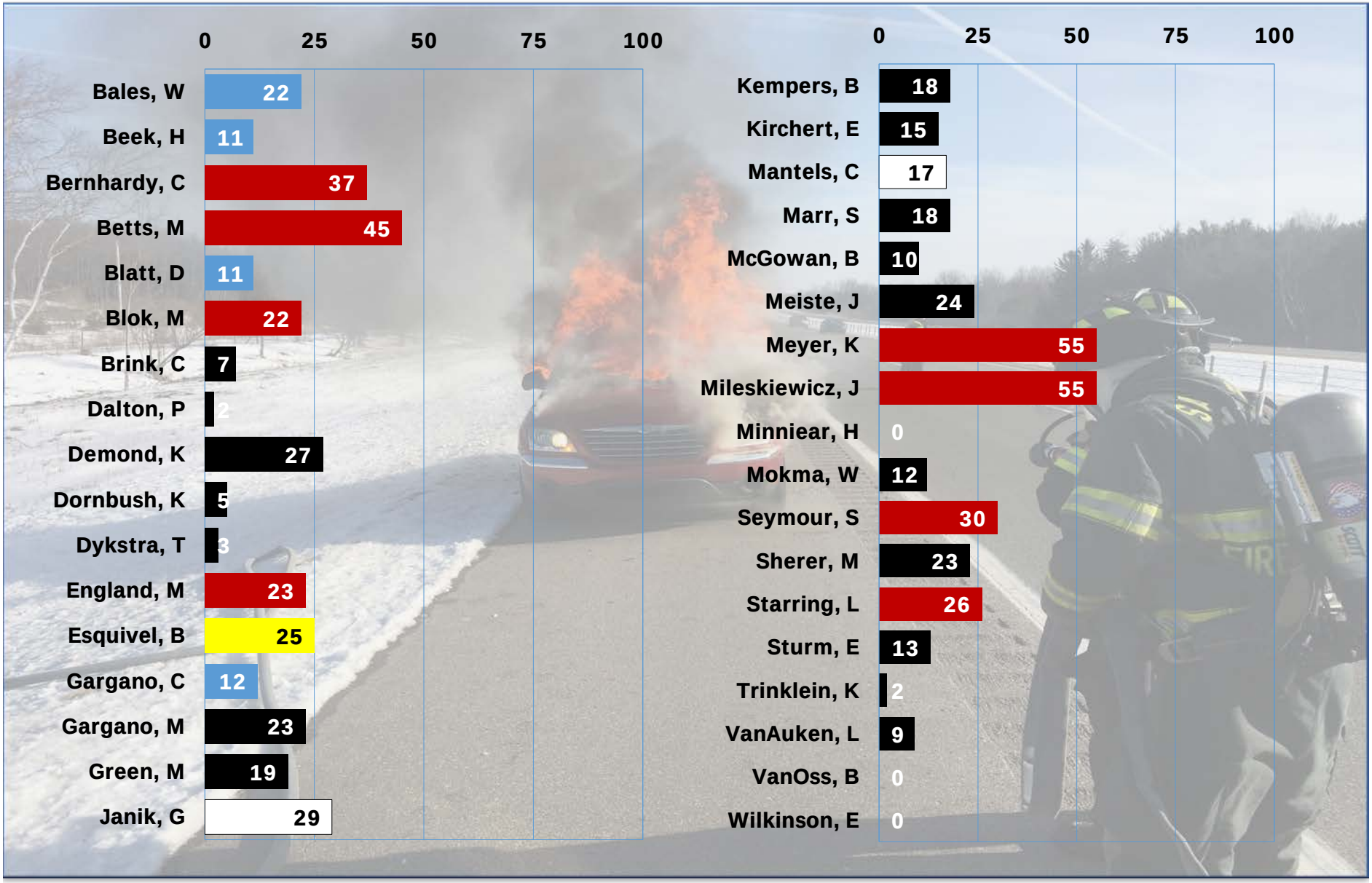
2020 Emergency Responses

[Priority 1 and 2 responses per month in our district.]

Year	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YTD
2020	45	31											76
2020	31	35	43	17	43	45	41	55	41	49	47	50	497
2019	25	42	35	42	38	54	55	53	50	30	27	37	488



2021 Personnel Response to Incidents



Total Incidents: 130	Chiefs	Officers	Firefighters	EMS	Trainee