



2022 GRFD Annual Report



Public Safety Committee
Presentation

Mission, Vision, and Values

The Grand Rapids Fire Department values all people by saving lives, protecting property, and responding to the needs of our entire community.

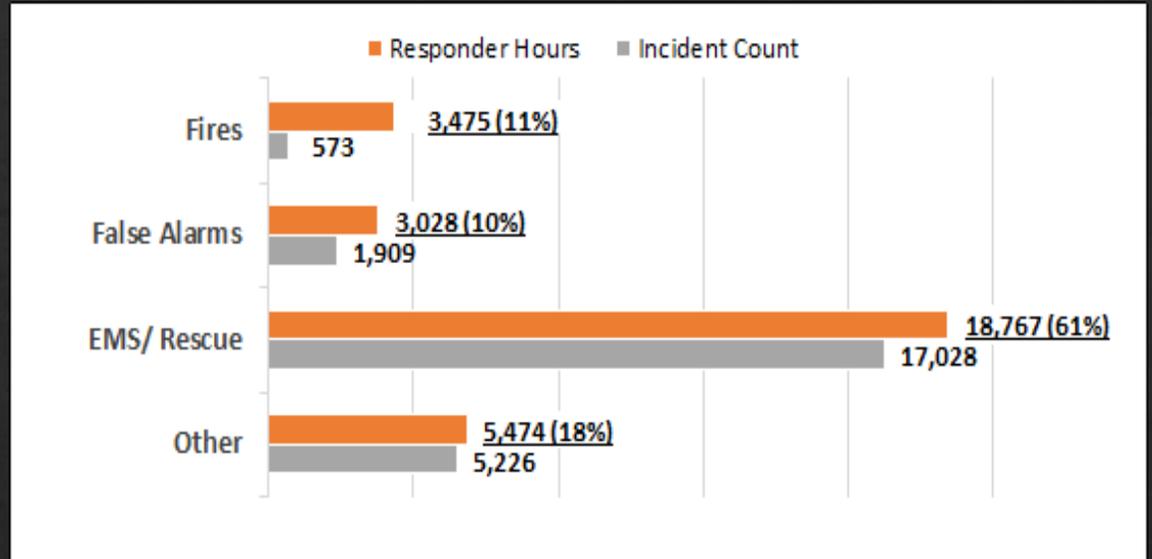
Providing world class fire services for our community by employing a diverse workforce which respects, values, and develops our members.

Honesty
Integrity
Loyalty
Teamwork
Excellence

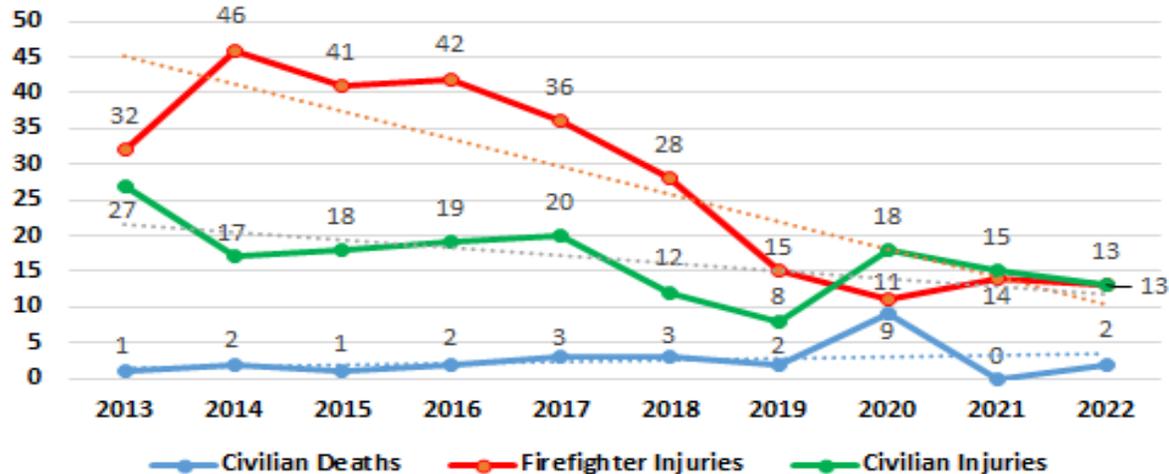


2022 At A Glance page 3

Property Saved Rate	91.50%
Property Saved Value	\$80,752,053
Property Loss Rate	8.50%
Property Loss Value	\$7,497,116
Civilian Injuries*	13
Civilian Deaths*	2
Firefighter Injuries*	13
Firefighter Deaths*	0



2013-2022 Fire Incident Casualties



Total Incidents
24,736
Apparatus Responses
35,134

2022 Chief's Special Mentions page 6

- ❖ Newly promoted executive command staff
- ❖ Successful contract negotiations with Local 366
- ❖ Launched our Cadet Program
- ❖ Homeless Outreach Team officially became a permanent and funded program
- ❖ Franklin Station was renamed to Martin Luther King Jr. Station
- ❖ Grand Rapids hosted the Firefighter Challenge with 184 participants
- ❖ Celebrating Chief Lehman's departure of the department with his final annual report



John S. Lehman

FY23-25 Strategic Plan page 8

2023-25 STRATEGIC PLAN

MISSION

The Grand Rapids Fire Department values all people by saving lives, protecting property, and responding to the needs of our entire community.

VISION

Providing world class fire services for our community by employing a diverse workforce which respects, values, and develops our members.

VALUES

- Honesty
- Integrity
- Loyalty
- Teamwork
- Excellence

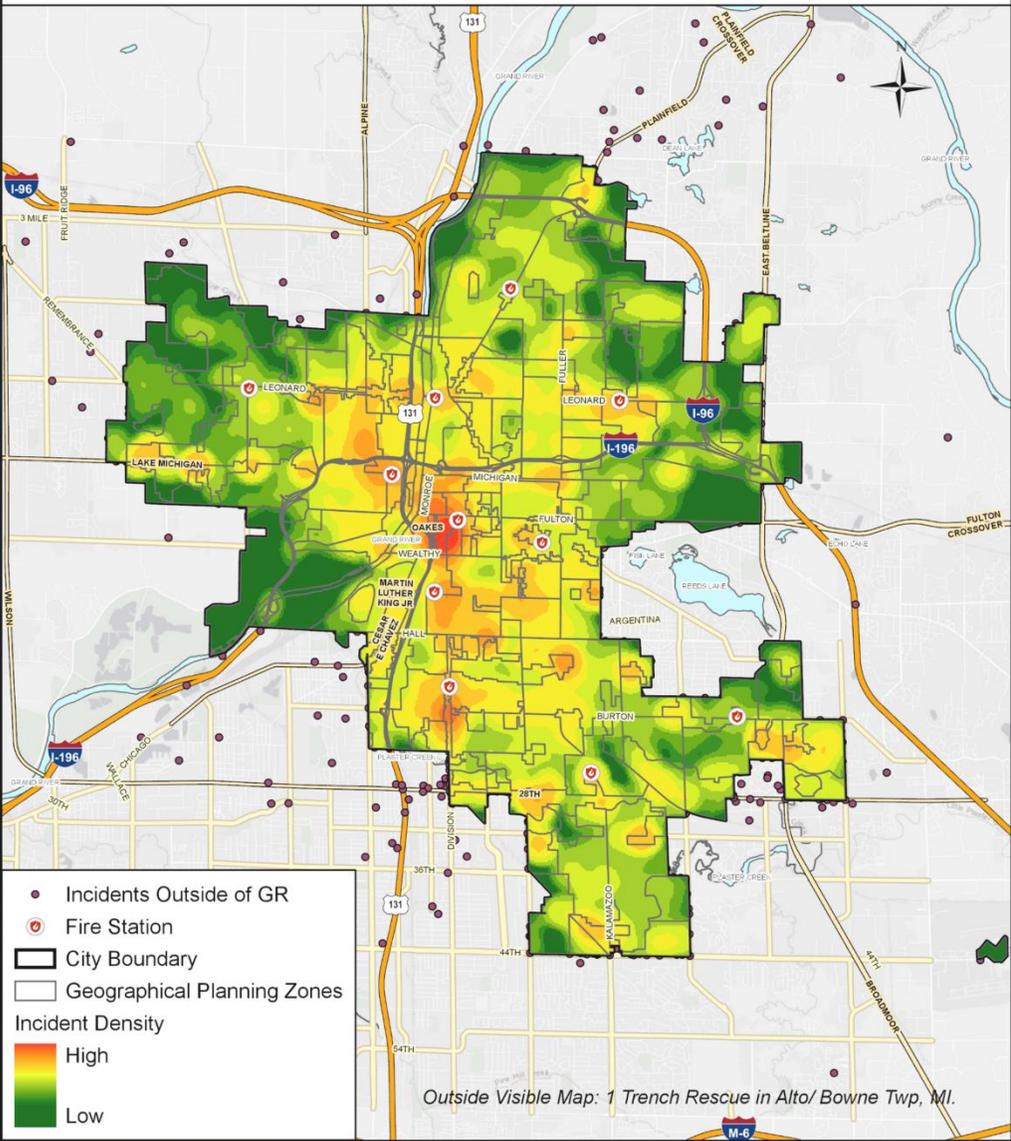


The creation process
 The GRFD strategic planning process uses a collaborative approach to collect input from three groups of stakeholders: the community, partnering agencies, and GRFD membership.

	RESPONSE	TRAINING	PREVENTION	WELLNESS	SUPPORT SERVICES
	Owner: Chief Johnson Support: Chief Lehman	Owner: Chief Race Support: Captain Kernodie	Owner: Fire Marshal Dokter Support: Captain Gerkey	Owner: Chief Freeman Support: Chief Thompson	Owner: Chief Brown Support: Captain Marchinda
DESIRED OUTCOMES	Increase and then maintain response capabilities to meet the growing and evolving needs of our community by meeting the 90% critical performance metric compliance.	Provide the appropriate skills and education to ensure all ranks can address existing and emerging threats.	Continue to foster a safe community by improving the Community Risk Reduction program through measurable outcomes.	Provide progressive wellness programming that improves the well-being of our members, families, and communities.	Ensure systems and processes meet the needs of the organization.
FISCAL 2023 STRATEGIES	Forecast and analyze our response model	Ensure training curriculum meets existing and emerging threats	Provide sustainable Residential Safety Program services	Align resources to desired outcomes	Analyze and improve maintenance programs, hiring process and information systems
FISCAL 2024 STRATEGIES	Modify our response model to maximize critical performance metrics	Elevate department-wide training experience	Develop a Public Education Program for the whole community	Deliver progressive wellness programming	Ensure policies and guidelines align with ISO qualifications and accreditation needs
FISCAL 2025 STRATEGIES	Analyze effects of response model modification and make adjustments accordingly	Ensure training resources meet our training needs	Partner with Emergency management to build a Community Emergency Response Team (CERT) and Community Outreach	Evaluate Effectiveness of Wellness Programming	Analyze and improve facilities, supplies and internal/external communications

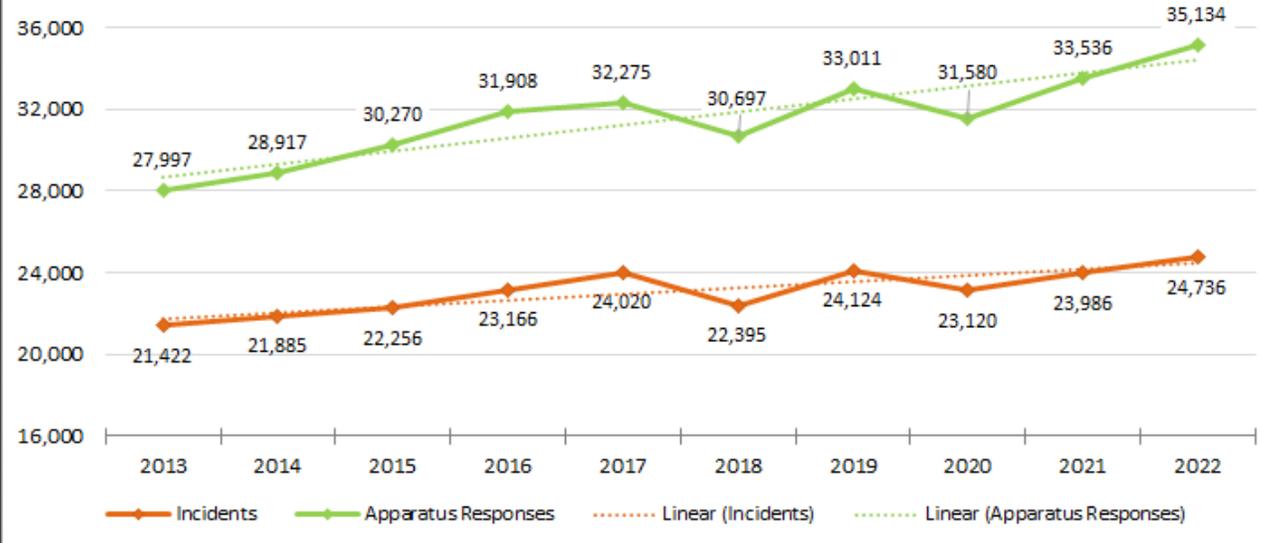
Total Incidents Review page 10-11

2022 Grand Rapids Incident Hotspots



- Since 2013, overall trend lines for both incidents and apparatus activity continue to rise.
 - **Apparatus responses** since 2013 have risen **25.49%**, with a **4.76%** rise from 2021 to 2022.
 - **Incident counts** since 2013 have risen **15.47%**, with a **3.13%** rise from 2021 to 2022.
- The increased jump in apparatus responses over incident counts is due to an August 2021 change in response requirements to fire alarms in higher risk buildings, which now require four apparatus instead of three.

Total Incident & Apparatus Activity Summary



Total Incidents by Type pages 12

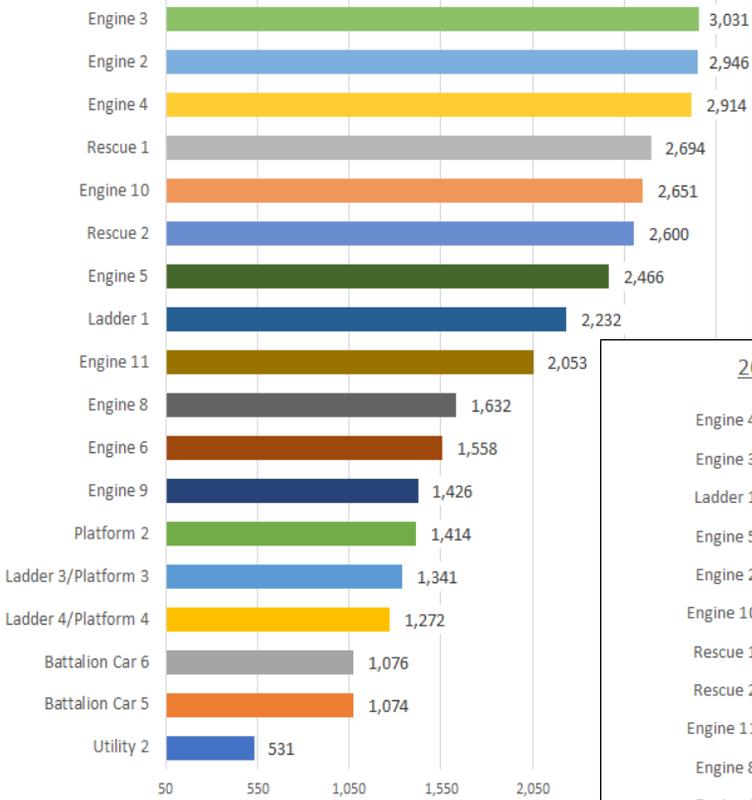
- EMS incidents since 2013 rose 30.13%, with a 3.31% rise from 2021 to 2022, marking another record year increase.
- Fire incidents since 2013 have risen 2.87%, with a 3.06% rise from 2021 to 2022.



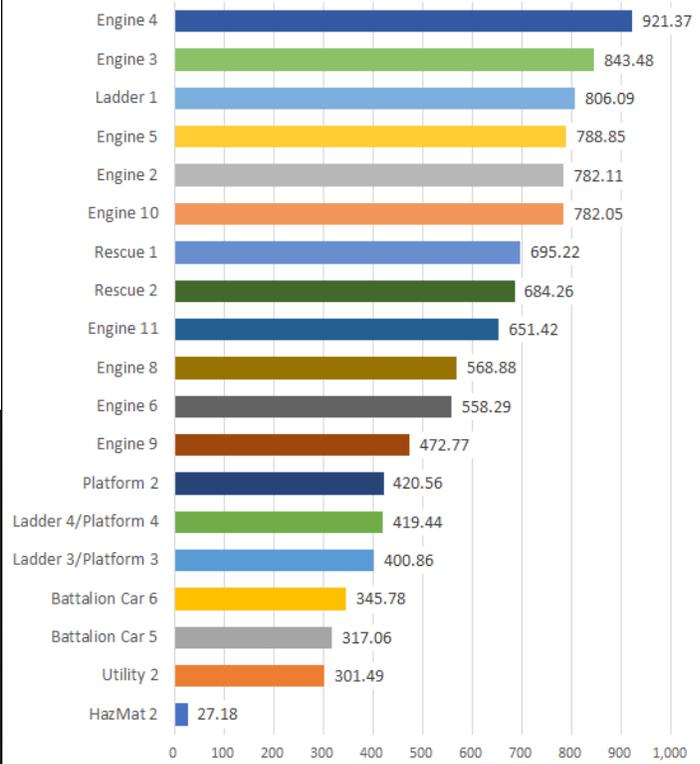
<u>Total Incidents by Type</u>	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Fires	557	580	617	661	615	608	555	666	556	573
Overpressure/Rupture	36	45	43	51	191	202	158	113	138	115
EMS/ Rescue	13,085	13,510	14,792	14,687	15,345	14,509	15,465	15,539	16,483	17,028
Hazardous Conditions	1,035	990	898	1,166	1,155	1,006	1,574	1,006	1,064	1,147
Service Call	2,037	2,003	1,368	1,492	1,704	1,542	1,252	1,053	876	953
Good Intent	3,085	3,143	2,976	3,315	3,462	3,033	3,258	3,252	3,070	2,995
False Alarm/Calls	1,579	1,600	1,555	1,774	1,537	1,487	1,849	1,488	1,783	1,909
Severe Weather	3	9	4	14	10	6	11	2	5	8
Special Incident	5	5	3	6	1	2	2	1	11	8
Total	21,422	21,885	22,256	23,166	24,020	22,395	24,124	23,120	23,986	24,736

District Incident Activity pages 15-17

2022 Frontline Apparatus Responses



2022 Frontline Apparatus Deployment Hours

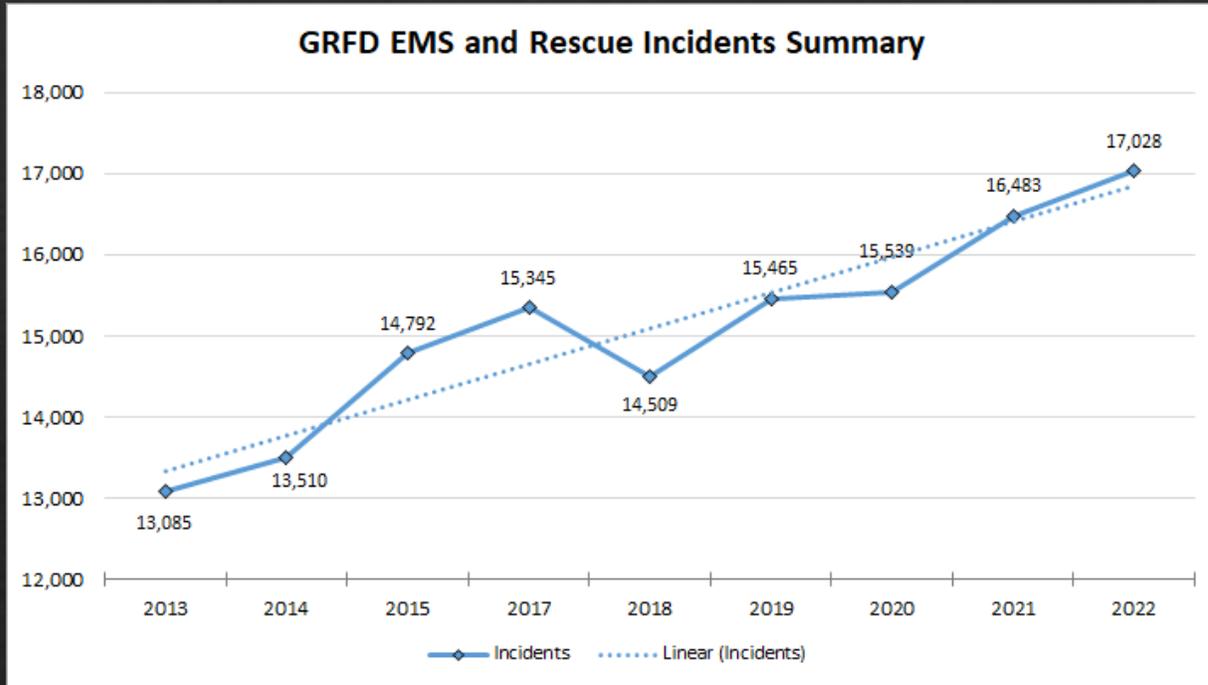


Simultaneous Call Percentage by Station District

Station	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Bridge	9.07%	9.54%	10.19%	10.01%	11.49%	9.62%	10.62%	10.18%	10.96%	10.48%
Burton	4.85%	4.43%	6.07%	4.80%	5.50%	6.07%	6.90%	5.97%	7.33%	7.43%
Chester	7.69%	8.57%	7.05%	9.00%	11.59%	8.61%	11.80%	8.10%	8.59%	8.63%
Covell	6.52%	7.22%	7.28%	7.31%	9.39%	7.84%	13.15%	7.45%	8.07%	8.10%
Division	8.70%	6.71%	7.18%	9.53%	9.31%	8.00%	9.38%	9.91%	9.07%	10.58%
Kalamazoo	11.31%	10.79%	11.56%	12.73%	13.70%	22.65%	13.07%	10.26%	13.54%	14.05%
La Grave	9.72%	10.32%	7.45%	9.81%	10.49%	11.71%	11.22%	7.88%	9.09%	11.03%
Leonard	6.86%	8.70%	6.97%	9.23%	7.70%	7.57%	12.89%	8.79%	9.28%	10.76%
MLK Jr.	5.03%	5.60%	7.30%	6.61%	7.05%	7.35%	7.85%	7.10%	10.16%	8.06%
Monroe	6.90%	5.37%	8.59%	8.25%	6.75%	7.45%	11.69%	8.41%	9.15%	8.46%
Plainfield	3.62%	4.14%	6.68%	3.96%	5.27%	4.59%	10.40%	5.51%	6.33%	6.56%

Simultaneous Calls
Kalamazoo district leads the city in simultaneous call volume at 14.05%. This district also experiences an increased wait time for ALS transport during medical emergencies. Continued evaluation of this metric will aid in future station planning and resource deployment.

Emergency Medical Services (EMS) page 20



- Lieutenant Jim Betz, our pediatric champion, was instrumental in building the Infant Safe Sleep training with the Kent County Health department.
- GRFD was the first agency in Michigan to get certified in this training, which will provide families with education on how to safely put infants to sleep.
- For his efforts, Lieutenant Betz was recognized as the 2022 Firefighter of the Year.



Total Cardiac Arrest Events.....	279
Witnessed Events.....	98
ROSC in Witnessed Events.....	54%
ROSC in all Cardiac Arrest Events.....	34%

Special Operations page 21

Technical Rescue

36 Team Members

- Successfully passed a rigorous two-day evaluation by the MI-MABAS Special Operations Division to assess and validate the department's ability to effectively respond to and mitigate each type of technical incident. The team stands ready to respond to technical rescue incidents throughout the state when called upon
- La Grave Station now houses Rescue 1, Rescue 2, Tech 1, and Tech 2 for management, training, and response



Water Rescue

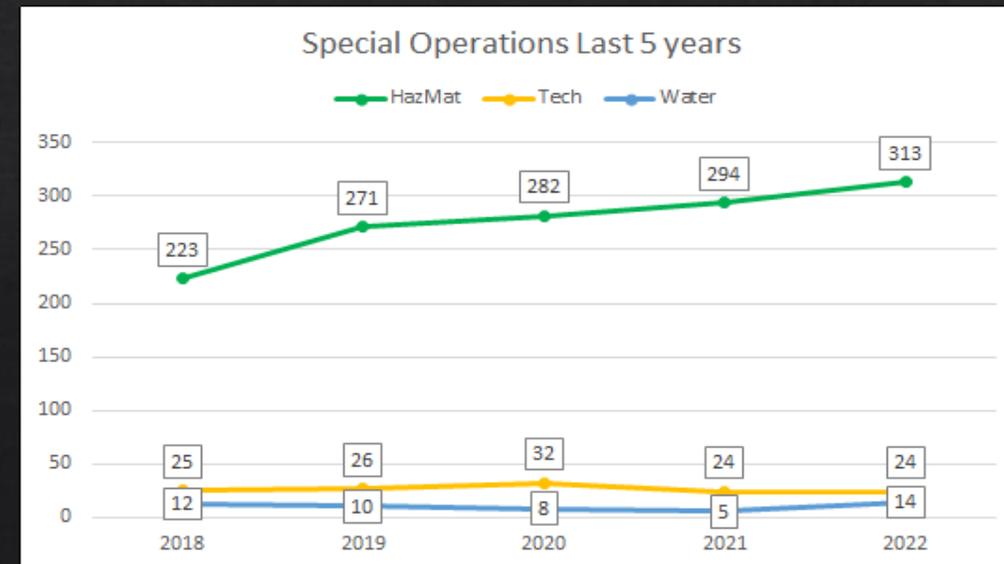
36 Team Members

- Dive Rescue became operational in December, first response was on December 31st, 2022
- Started the process of preparing for MI-MABAS validation, which will continue through 2023 with necessary training and equipment purchases
- 19 team members completed Dry suit, Full Face Mask and Dive rescue 1 training

Hazardous Materials

36 Team Members

- 30 members completed MI-MABAS Type 1 HazMat Team validation
- 4 CO2 meters (grant funded), 2 Chlorine meters, and 2 Ammonia meters added to cache
- Continued cooperation with Region 6 and Statewide HazMat workgroup, attending multiple training exercises
- Presented to GR City's Public Safety Committee about GRFD HazMat capabilities



Critical Performance Measures page 24

Distribution Travel Time

	3	6	11	8	10	4	7	1	2	5	9	
	Bridge	Burton	Chester	Covell	Division	Kalamazoo	La Grave	Leonard	MLK Jr.	Monroe	Plainfield	Citywide
Pass	1867	621	1134	663	1663	1225	2622	1017	1469	1197	580	14058
Fail	327	500	401	617	433	1356	130	675	194	319	319	5271
Compliance	85.10%	55.40%	73.88%	51.80%	79.34%	47.46%	95.28%	60.11%	88.33%	78.96%	64.52%	72.73%

Distribution is the ability to get our first unit on scene within a set time; **Distribution Travel Time** being the biggest factor for meeting this benchmark.

Reliability is the percentage of time a unit is able to answer calls in their own district.

Reliability										
Station	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Bridge	88.34%	92.62%	92.07%	89.88%	79.83%	78.04%	80.14%	81.57%	83.65%	84.93%
Burton	84.02%	87.16%	88.06%	86.87%	83.30%	84.24%	83.41%	84.45%	86.72%	86.43%
Chester	79.45%	83.39%	84.02%	81.17%	73.76%	72.64%	71.56%	65.89%	69.47%	73.99%
Covell	82.40%	85.82%	85.01%	85.19%	77.53%	78.43%	76.87%	79.81%	82.72%	82.65%
Division	82.55%	83.90%	83.27%	82.19%	78.91%	79.86%	76.04%	80.96%	81.53%	81.97%
Kalamazoo	90.76%	95.43%	95.34%	94.13%	86.92%	87.90%	90.93%	91.72%	91.52%	90.97%
La Grave	85.41%	83.50%	91.20%	94.13%	88.29%	85.30%	85.50%	89.10%	88.55%	89.37%
Leonard	84.49%	86.99%	86.47%	85.13%	76.36%	81.29%	78.69%	83.45%	80.50%	82.56%
MLK Jr.	87.22%	95.78%	94.77%	93.07%	81.62%	87.25%	89.02%	88.82%	89.22%	88.41%
Monroe	81.17%	85.80%	79.59%	77.77%	76.35%	74.56%	72.68%	76.42%	77.21%	79.28%
Plainfield	81.78%	90.09%	86.70%	85.38%	84.50%	82.81%	81.37%	85.16%	85.48%	84.30%
CITYWIDE	84.33%	88.20%	88.55%	87.37%	81.29%	81.48%	81.00%	82.66%	83.67%	84.64%

Concentration (ERF)

	3	6	11	8	10	4	7	1	2	5	9	
	Bridge	Burton	Chester	Covell	Division	Kalamazoo	La Grave	Leonard	MLK Jr.	Monroe	Plainfield	Citywide
Pass	83	12	45	29	70	98	75	39	52	47	22	572
Fail	13	8	12	21	23	15	21	55	3	11	29	211
Compliance	86.46%	60.00%	78.95%	58.00%	75.27%	86.73%	78.13%	41.49%	94.55%	81.03%	43.14%	73.05%

Concentration is the ability to assemble an **effective response force (ERF)** within a set time. **ERF** is the number of personnel required to perform the required critical tasking per incident type in alignment with GRFD policies.

Performance Gap Analysis page 25

This page evaluates performance gaps for the total response area, such as inadequacies, inconsistencies, and negative trends. In addition, this data compares the current operational capabilities and capacity of the department to the identified risk level within the community. Once the gaps have been identified, a continuous improvement plan will be developed and tracked throughout the following year to address these existing gaps and variations.

Reliability

- Monroe saw a slight improvement from 77.21% in 2021
- Chester also saw an improvement since 2021 at 69.47%

Distribution

- Citywide Distribution decreased to 71.0% from 73.78% in 2021
- Kalamazoo Distribution travel time fell to 47.46% from 52.95% in 2021

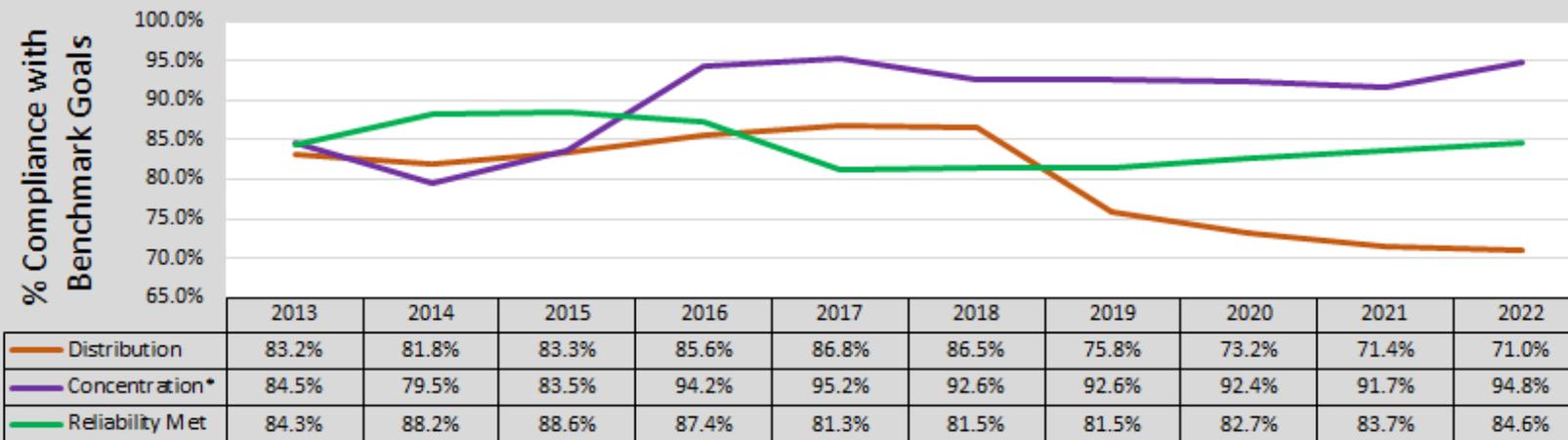
Concentration (ERF)

- Covell, Plainfield, Burton, and Leonard stations all showed a decline in 2022 due to the location of these station, making it difficult to assemble the effective response force.

Simultaneous Responses

- 8 districts saw increases compared to 2021
- Kalamazoo, largest district population, continues to be the highest district for simultaneous calls at 14.05%

Critical Performance Measures 2013 - 2022



City Wide Simultaneous	
2013	51.81%
2014	56.18%
2015	55.29%
2016	60.04%
2017	59.60%
2018	63.15%
2019	61.05%
2020	57.88%
2021	61.98%
2022	62.48%

Community Risk Reduction page 28-29

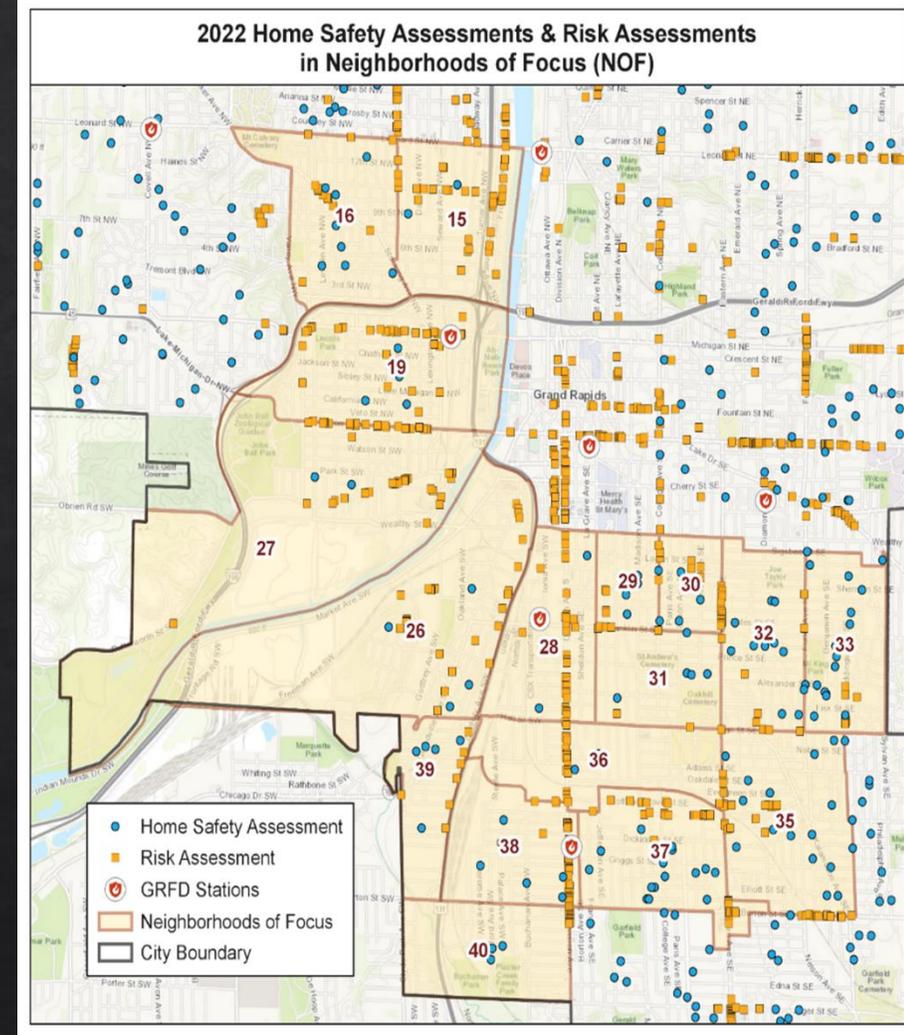
2022 Statistics

Smoke Alarms installed	2,444
CO Alarms installed	1,272

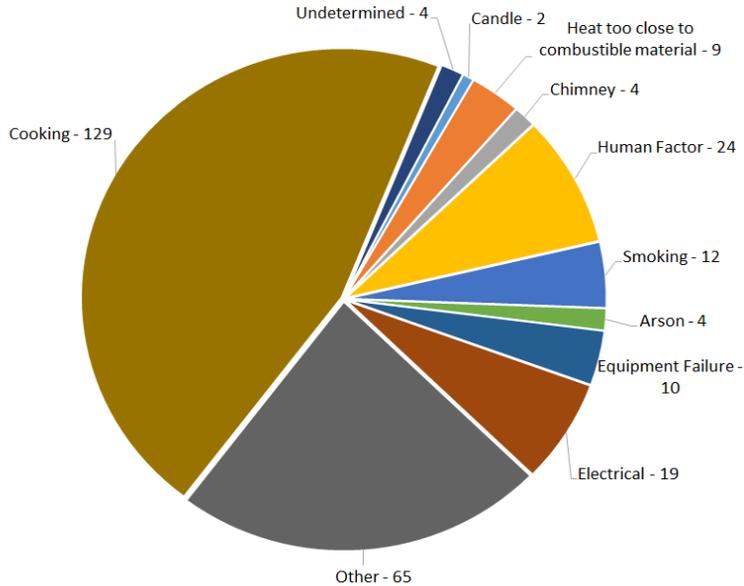
Public Education

The public engaged in fire safety education opportunities at 123 events last year, including community open houses, festivals, school visits, and church gatherings. These are supported, in-part, by the newly funded **Grand Rapids Fire Prevention Foundation**, which achieved 501(c)(3) status in 2022.

	Bridge	Burton	Chester	Covell	Division	MLK	Kalamazoo	La Grave	Leonard	Monroe	Plainfield	Citywide
Home Safety Assessment	10	63	58	86	48	14	89	3	63	13	44	491
Risk Assessment	121	122	119	29	98	89	166	106	134	158	43	1,185



2022 Structure Fire (111-123) Causes



Fire Match Program

- With the assistance of our partnering agencies*, we made successful contact with 17 families out of 22 referrals. All children either successfully completed the program or are still in their 6-month monitoring period.
- Plans are in place to train four new firefighters in 2023 to ensure program sustainability.

Emergency Management page 30

Major Accomplishments

- Facilitated an active shooter functional exercise at GRCC and a full-scale high-rise fire exercise at City Hall
- The Emergency Manager Administrator was accepted into the FEMA Advanced Academy program
- FEMA and the State of Michigan EMHSD approved the 2022 Regional Hazard Mitigation Plan (HMP) for the city of Grand Rapids
- To improve engagement and maintain knowledge, monthly training on VEOCI was scheduled for over 100 users
- Received grant funding to develop a Threat and Hazard Identification Risk Assessment (THIRA)





Thank You!

