

BONDURANT EMERGENCY SERVICES ANNUAL REPORT

FY 2018

Presented by Chief Aaron Kreuder



Ambulance 414 before remount on 2006 Chassis

This unit was placed out-of-service for a major mechanical failure on May 25, 2018.



Ambulance 414 after remounted on 2018 chassis

This remounted unit returned to service on September 17, 2018.

BONDURANT EMERGENCY SERVICES

State of the Department (2017-2018)

I am pleased to provide you with this report. This report includes statistics regarding the type and number of calls, response times, staffing, apparatus conditions and performance measures utilized to deliver services to our customers. As I sat at my computer gathering information for this report, I have decided to do this report different than I have in years past. It became very apparent that this was not an average year so this report needs to reflect that.

The timeline and numbers for this report are from July 1, 2017 through September 1, 2018 (14 months). I realize this is normally a 12-month window but I believe we can all agree that when this report was originally scheduled to be delivered, we as a community, were very busy dealing with natural disasters (flooding and a tornado). I included the additional 2 months in the report in an effort to avoid missing things. This summer is all running together, so this report will continue with that trend.

In the last years report, I stated that we needed to change our internal thought process from one of reactionary to a more progressive approach. We need to grow our membership base and improve our overall numbers. We need to embrace technology and incorporate it into all aspects of what we do. We have been very active and initiated multiple projects to address this.

We have addressed training needs and have made significant changes and strides in that process. As you are aware, we had our scheduled ISO evaluation this past year. Even though we dramatically improved our overall score, training was one area that could have been even better. A project that has been on the back burner for a few years, jumped to the head of the line after the ISO evaluation. We are now using Target Solutions, an on-line training company, and have an internal enterprise with Altoona, Ankeny and Urbandale Fire Departments. This allows us, and our members that work for these other agencies, to better train together and share resources. It is our intention to expand this process even further, through our work with the Central Iowa EMS Directors Association (CEIMSD). Together we are building a program for EMS agencies throughout the region to train together. Assistant Chief Morris, as part of the Central Iowa EMS Directors Associations, CIEMSD Training and STEMI committees, is working on behalf of Bondurant Emergency Services to make advancements on a regional level.

We also have the very first Ultra High Pressure system in the state of Iowa in service and a second system in service with the pickup truck (this is the fourth system in the state and the first cold weather system ever made, to the best of my knowledge). Our Ultra High Pressure (UHP) program has put Bondurant Emergency Services as the Iowa, local experts with this technology. We have gone to Elkhart and Marion, Iowa to assist in training with the new technology. We have also held our own training classes with Van Meter FD, Perry FD, Redfield FD and Desoto FD. We have done well with the trainings and will continue to do trainings, to share our knowledge and put Bondurant Emergency Services on the leading edge of UHP in the fire service nationwide. By doing the classes, it will allow for more data and input for NFPA to develop standards for the new and safer way of fighting fires.

Below is a list of all the projects that are either underway or implemented to address all the changes that have occurred over the past 14 months:

- **Staffing**
 - Addition of fulltime Assistant Chief, Rebecca Morris.
 - Addition of part-time Assistant Chief, Troy Harmison.
- **Grants obtained**
 - State grant to obtain additional LUCAS device, \$15,000.00 value.
 - Prairie Meadows Community Betterment Grant, additional UHP system \$15,000.00.
 - SAFER grant to add staffing 3-fulltime, 6-partime employees. \$727,787.00 federal funding.
 - Kawasaki Loan Program-We were able to utilize a program through Kawasaki and Struthers Brothers to have use of a brand new UTV at no cost for 11 months. \$14,000 value.
- **Updated software and technology solutions to improve processes and efficiency**
 - ESO-Improved reporting software to streamline process of reporting calls for service. This effects all calls for service, fire and EMS. By streamlining the process, we ensure that we maintain compliancy with state of Iowa reporting regulations. This will also have a training tracking module. This also adds a properties and inspection module that will be utilized in the rental inspection program. Eliminates any duplication of effort that was previously required for admin staff, thus freeing up admin staff to refocus on other areas of need.
 - Desktop/vehicle computers-Chief officer desktop computers were replaced with computers that are utilized as not only a desktop but as a vehicle mobile data terminal. This eliminates the need for (2) computers per chief officer and is a more economical solution.
 - I pads in ambulance-Ipads instituted in all ambulances, allowing for more efficient capture and communication of patient data.
 - Pulsara-Through the ipads we are able to utilize the Pulsara app, which allows rapid dissemination of patient information with all care teams, involved in treatment at hospital. This speeds the process of hospitals ability to prepare for incoming patient, especially in the cases of cardiac, stroke, or trauma.
- **Updated equipment**
 - Battery operated extrication tools-These tools allow for a quicker deployment of extrication tools, reducing time needed to remove an injured patient from a vehicle. With reduced time in removing patients, we can positively impact patient outcomes by delivering them to an advanced care medical facility faster. These tools are more mobile and not limited by hose length.
 - Auto Crib-It-These are auto adjusting car-stabilizing cribbing. These will auto adjust up when the car moves. This removes the need to have a firefighter dedicated to monitoring cribbing and to make adjustments if cribbing becomes loose. This role puts a firefighter in close proximity to a potentially dangerous situation.

- Rescue Struts-These struts allow us to stabilize a vehicle that is on its side or balanced on another object. These increase safety of not only fire personnel but of potential patients. These struts bring a capability previously not available.
- Rescue Airbags-These airbags provide us the ability to lift a vehicle as well as stabilize the vehicle temporarily while cribbing is being placed to properly stabilize the vehicle. This also allows us the ability to lift a vehicle off a victim trapped under the vehicle.
- Replacement of out dated turnout gear.
- KNOX box key control update-Update allows increased ability to track key usage through individualized access codes.
- New heart monitors-Heart monitors updated in all ambulances. The new monitors will allow better identification of life threatening issues. New monitors will also communicate directly with the area hospitals allowing medical staff to see exactly what is going on prior to our arrival at their facility.
- **Vehicles**
 - Replacement of 2006 ambulance-Remount and refurbishment of box onto new 2018 chassis.
 - Addition of third ambulance to fleet-Remount box on new 2018 chassis. This will be a twin to the replacement of the 2006.
 - E411 Bodywork-E411 has been scheduled to have exterior doors replaced that are rusting through.
- **Initiatives**
 - Flu Clinic-Flu clinic being established for city employees and families
 - B-Safe kids-This was the second year of working with kindergarten age children, teaching them about safety (fire, stranger, bus, traffic, etc.)
 - Fire safety program-Fire safety program put on at Bondurant elementary schools during fire prevention week.
 - Fire prevention class-New program started with Bondurant Middle school and Family Consumer Science program.
 - Rental Inspection Program-This is still in the development stages. Through this program, rental properties will be inspected for safe living conditions as well as fire safety, and the creation of pre-plans that can be used in the event of incidents at locations.
 - DMACC-Continued collaboration with DMACC in the development of regional training facility/academy. This will place Bondurant in a unique position to not only utilize but also possibly help direct the method of instruction and material.
 - Coloring Contest-Bondurant Fire instituted a coloring contest in which the winners will have their picture made into a decal that will be placed on fire vehicles for (1) year.
 - Fire Extinguisher Training-Bondurant Fire provided fire extinguisher training to city hall and library staff.
- **Training**
 - Active Shooter-Personnel have gone through active shooter/rescue taskforce training that has been brought back to the department and will be utilized in planning for an active shooter/threat response. These personnel are also been appointed to the working group developing new standards for Polk County and potentially the state.

- Fire Investigator-The department now has (4) trained fire investigators on staff. This provides us with increased capabilities when dealing with fires of an unknown cause.
- Difficult Airway Class-This training gives our ALS provides increased training on intubation during difficult situations and patients with complications causing intubation to be extremely challenging.
- Fire Instructor-We have added an additional certified fire service instructor.
- EMT-We had (3) members complete and become certified as EMTs. We currently have an additional (4) members currently in class to become EMTs.
- Critical Care Paramedic-We added an additional Critical Care Paramedic. This bring us to (3) Critical Care Paramedics. This is the highest level of certification that a paramedic can achieve.
- CPR-We have (2) in house CPR instructors. Through them, we are able to refresh on CPR certification and skill on an annual basis at negligible cost to department.
- Stop the bleed-We have (2) members that became instructors in stop the bleed. We are able to offer classes through the fire department to outside entities. Offers have been extended to multiple organizations including Bondurant Schools.
- Epi/Narcan-Through training and collaboration with our medical director we have been able to Epi-Pens and Narcan to the EMT level skill set. This allows EMTs to administer either medication when the situation dictates.
- Large incident planning-We have been working with Altoona Fire Department and Facebook to establish a pre-plan for response to large incidents at the Facebook campus. This training and collaboration gives the department increased insight into large facility responses. This provides us with a stepping off point for potential growth within our own community.

Over the past 14 months, Bondurant Emergency Services has made large strides. As we continue to evolve to meet the coming challenges of tomorrow, we must remember where we have been to help guide us. We hope to carry our current momentum well into the future.

In closing, the volunteer, part-time and full-time members of Bondurant Emergency Services are professionals in every aspect of what they do. The dangerous environment that they work in gets deadlier every day. The preparation, training and leadership ensure that every one of them returns home safely after every emergency response.

I hope this report is useful and informative. I encourage you to please email, call or stop in for additional information or to make any suggestions you may have.

Respectfully submitted,

Aaron Kreuder

Aaron Kreuder, Fire Chief



BONDURANT

Incidents by District (Summary)

Alarm Date Between {07/01/2017} And {09/01/2018}

District	Count	Pct of Incidents	Est Losses	Pct of Losses
* < Not Reported >	4	0.67 %	\$0	0.00 %
01 BAXTER	1	0.16 %	\$0	0.00 %
02 Altoona	80	13.42 %	\$0	0.00 %
03 DELWARE TOWNSHIP	25	4.19 %	\$0	0.00 %
04 Maxwell	8	1.34 %	\$0	0.00 %
05 MITCHELLVILLE	31	5.20 %	\$0	0.00 %
09 Pleasant Hill	6	1.00 %	\$0	0.00 %
1 BONDURANT	404	67.78 %	\$0	0.00 %
113 Ankeny	5	0.83 %	\$0	0.00 %
57 Mitchellville	17	2.85 %	\$0	0.00 %
BER Berwick	3	0.50 %	\$0	0.00 %
CLFX Colfax	1	0.16 %	\$0	0.00 %
DSM-E Des Moines (east side)	6	1.00 %	\$0	0.00 %
MIN Mingo	3	0.50 %	\$0	0.00 %
VAL Valeria	2	0.33 %	\$0	0.00 %
Total Incident Count: 596			Total Est Losses: \$0	

BONDURANT

Monthly Incident Counts By Station

Alarm Date Between {07/01/2017} And {09/01/2018}

Station #	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Percent
BNF	49	38	39	44	48	41	88	80	47	42	40	40	596	100.00

Total Runs by Month											
Jan	49	Feb	38	Mar	39	Apr	44	May	48	Jun	41
Jul	88	Aug	80	Sep	47	Oct	42	Nov	40	Dec	40

Grand Total Runs: 596

BONDURANT

Average Turnout per Incident

Alarm Date Between {07/01/2017} And {09/01/2018}

Total Number of Incidents	596	Total Number of Responding Personnel	3913
Average Turnout per Incident		7	

BONDURANT

Aid Responses by Department (Summary)

Alarm Date Between {07/01/2017} And {09/01/2018}

Type of Aid	Count	Type of Aid	Count
00021 Ankeny		COL Colfax	
Mutual aid received	1		
Automatic aid received	1		
Mutual aid given	2	FRA FRASER AMBULANCE	
	<u>4</u>	Mutual aid given	
2500 Altoona Fire			
Mutual aid received	37	MAX Maxwell Fire Dept	
Automatic aid received	2	Mutual aid given	
Mutual aid given	44		
Automatic aid given	5		
	<u>88</u>		
3300 DELWARE			
Mutual aid received	2		
Automatic aid received	1		
Mutual aid given	20		
Automatic aid given	3		
	<u>26</u>		
4300 Pleasant Hill			
Automatic aid received	1		
Mutual aid given	2		
	<u>3</u>		
50168 Mingo			
Mutual aid given	3		
Automatic aid given	1		
	<u>4</u>		
5700 Mitchellville			
Mutual aid received	3		
Mutual aid given	35		
Automatic aid given	1		
	<u>39</u>		
COL Colfax			
Mutual aid given	2		

BONDURANT

EMS To-Scene (Response) Time Analysis

Alarm Date Between {07/01/2017} And {09/01/2018}

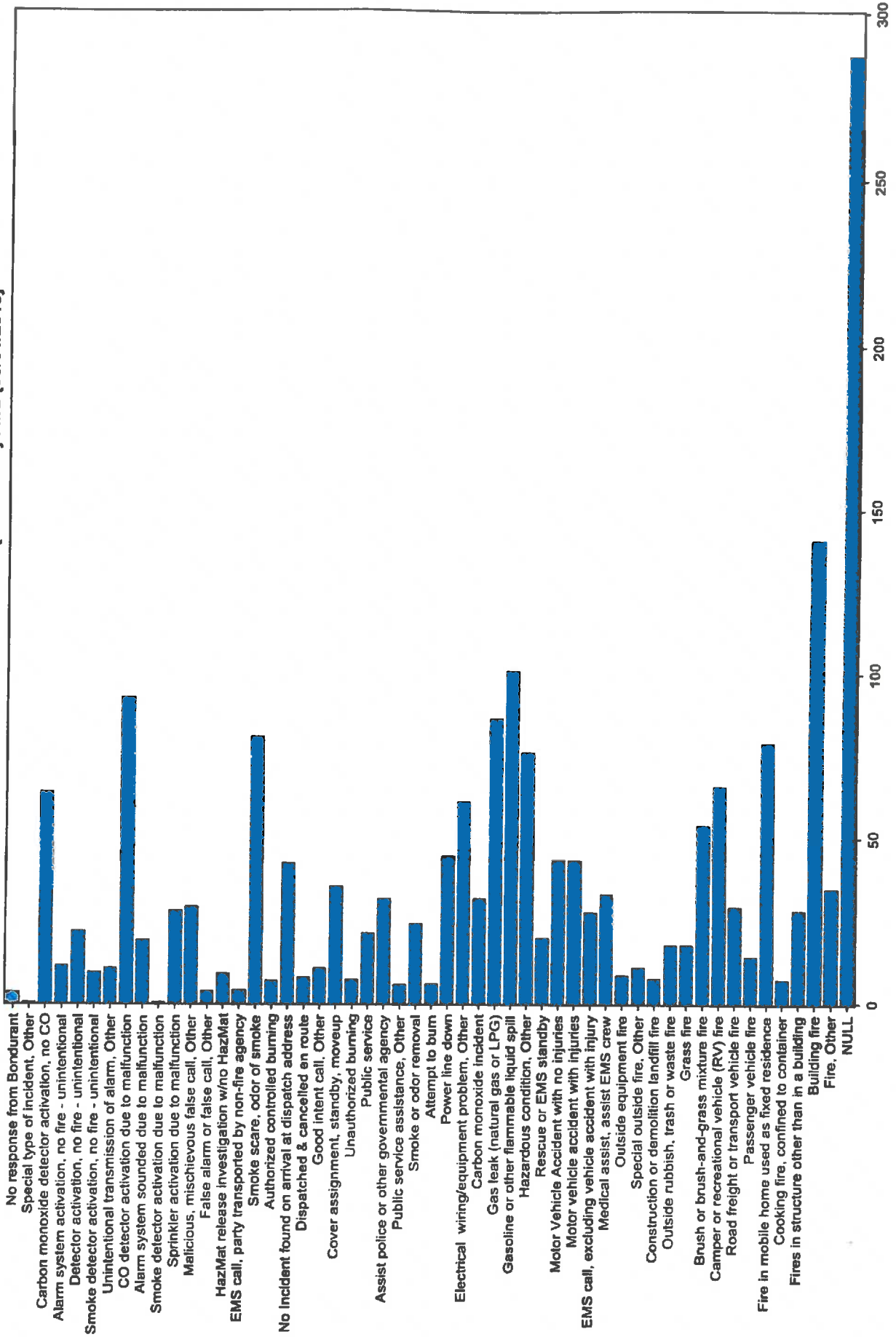
To Scene (Response)			
Hrs	Mins	Count	Percent
	<	21	7.92 %
	01	49	18.49 %
	02	46	17.35 %
	03	36	13.58 %
	04	19	7.16 %
	05	23	8.67 %
	06	15	5.66 %
	07	16	6.03 %
	08	9	3.39 %
	09	12	4.52 %
	10	7	2.64 %
	11	3	1.13 %
	12	4	1.50 %
	13	1	0.37 %
	14	2	0.75 %
	16	1	0.37 %
	21	1	0.37 %

To-Scene (Response) time calculate from unit enroute to arrival at scene

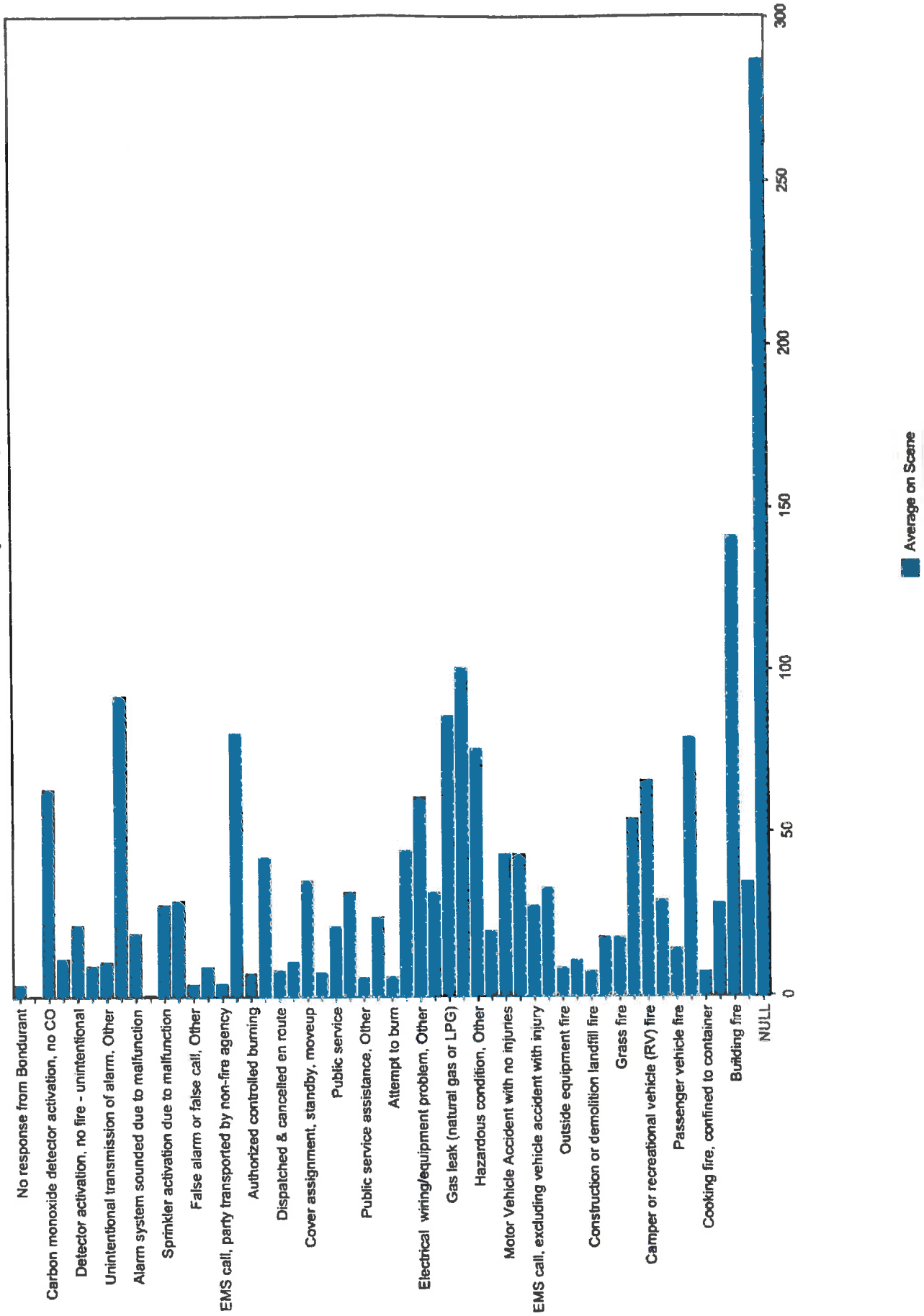
09/14/2018 12:55

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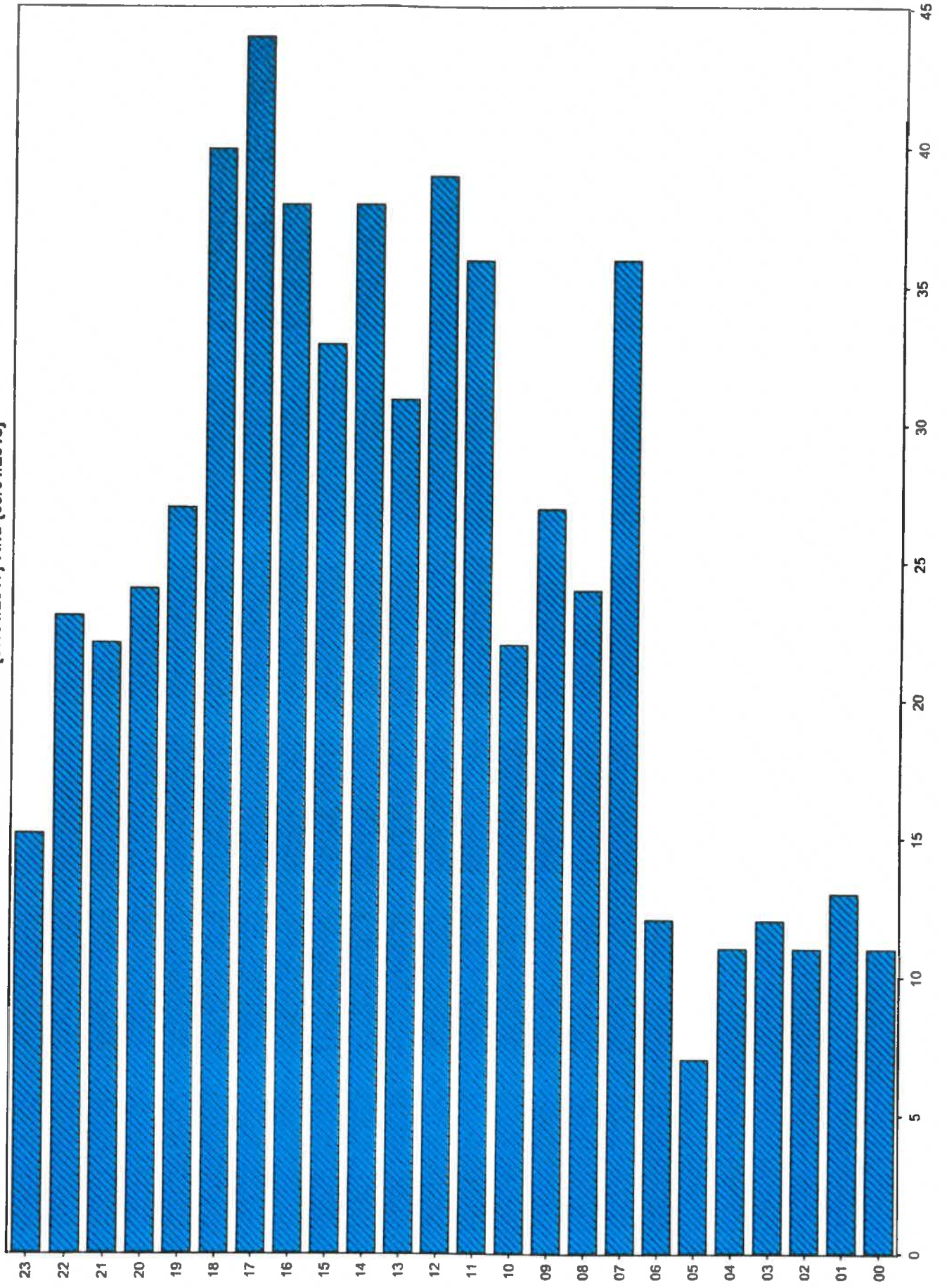
Average Minutes on Scene by Incident Type
 Alarm Date Between {07/01/2017} And {09/01/2018}



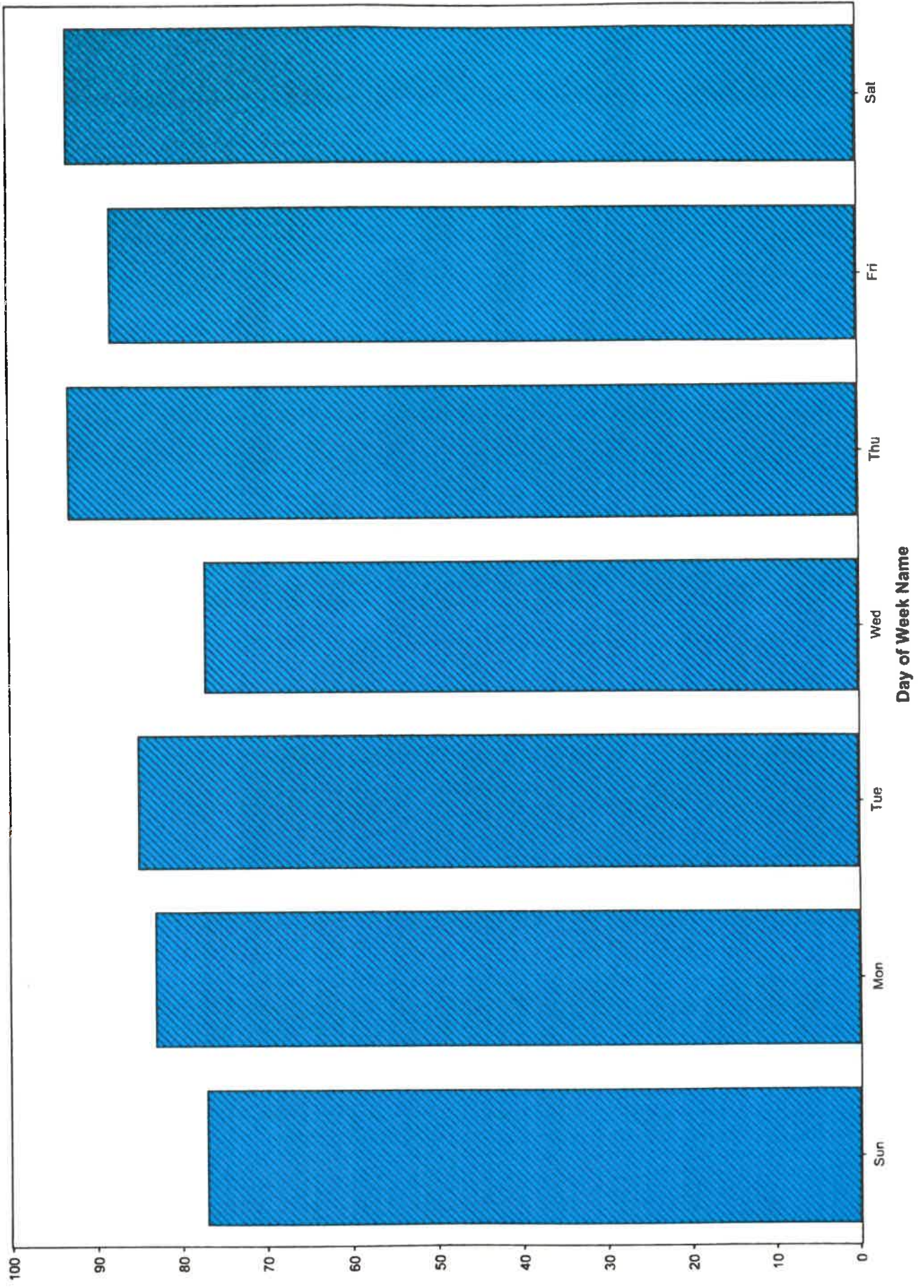
Average Minutes on Scene by Incident Type
 Alarm Date Between {07/01/2017} And {09/01/2018}



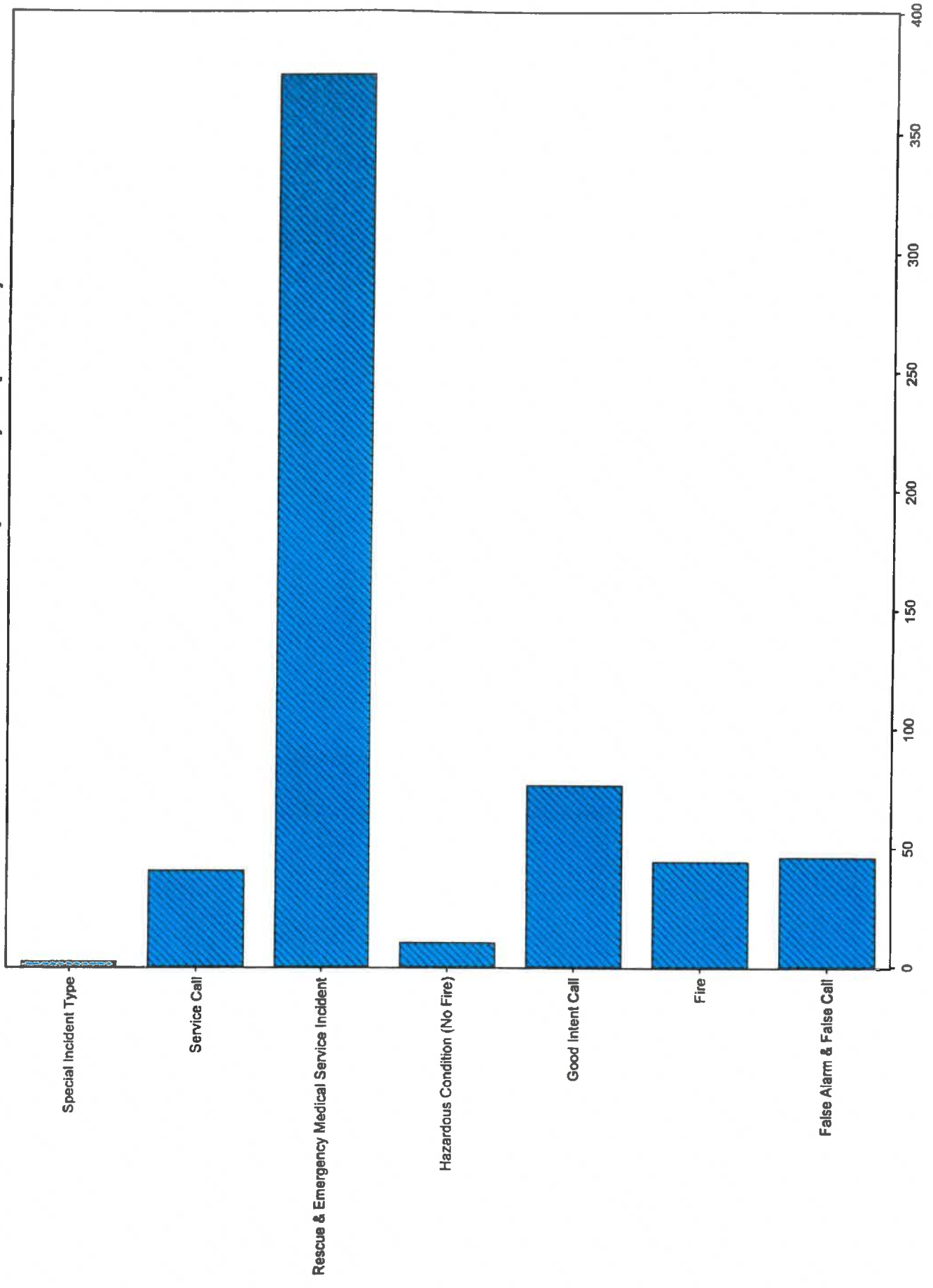
Count of Incidents by Alarm Hour
Alarm Date Between {07/01/2017} And {09/01/2018}



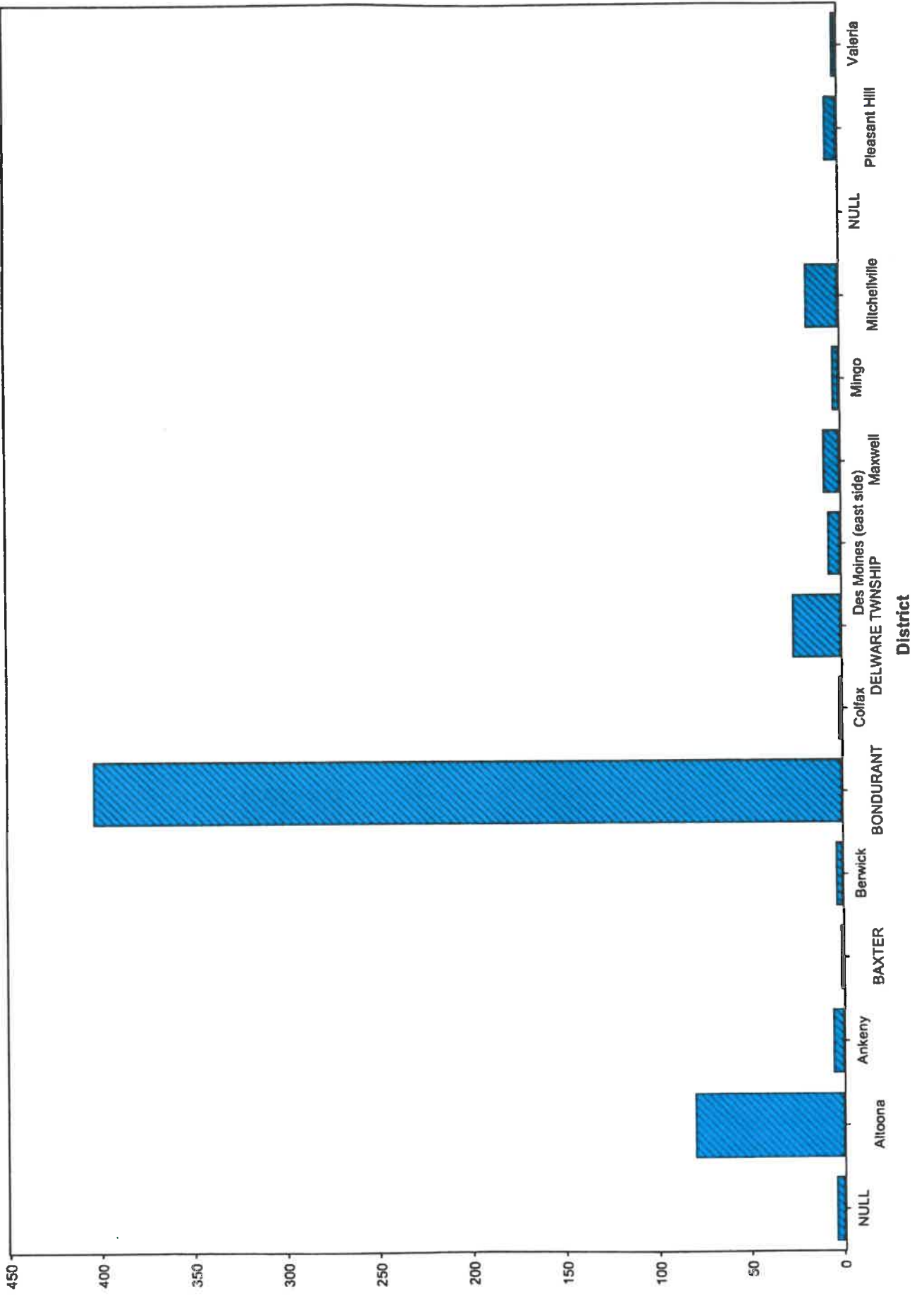
Incident Responses by Day of Week
Alarm Date Between {07/01/2017} And {09/01/2018}



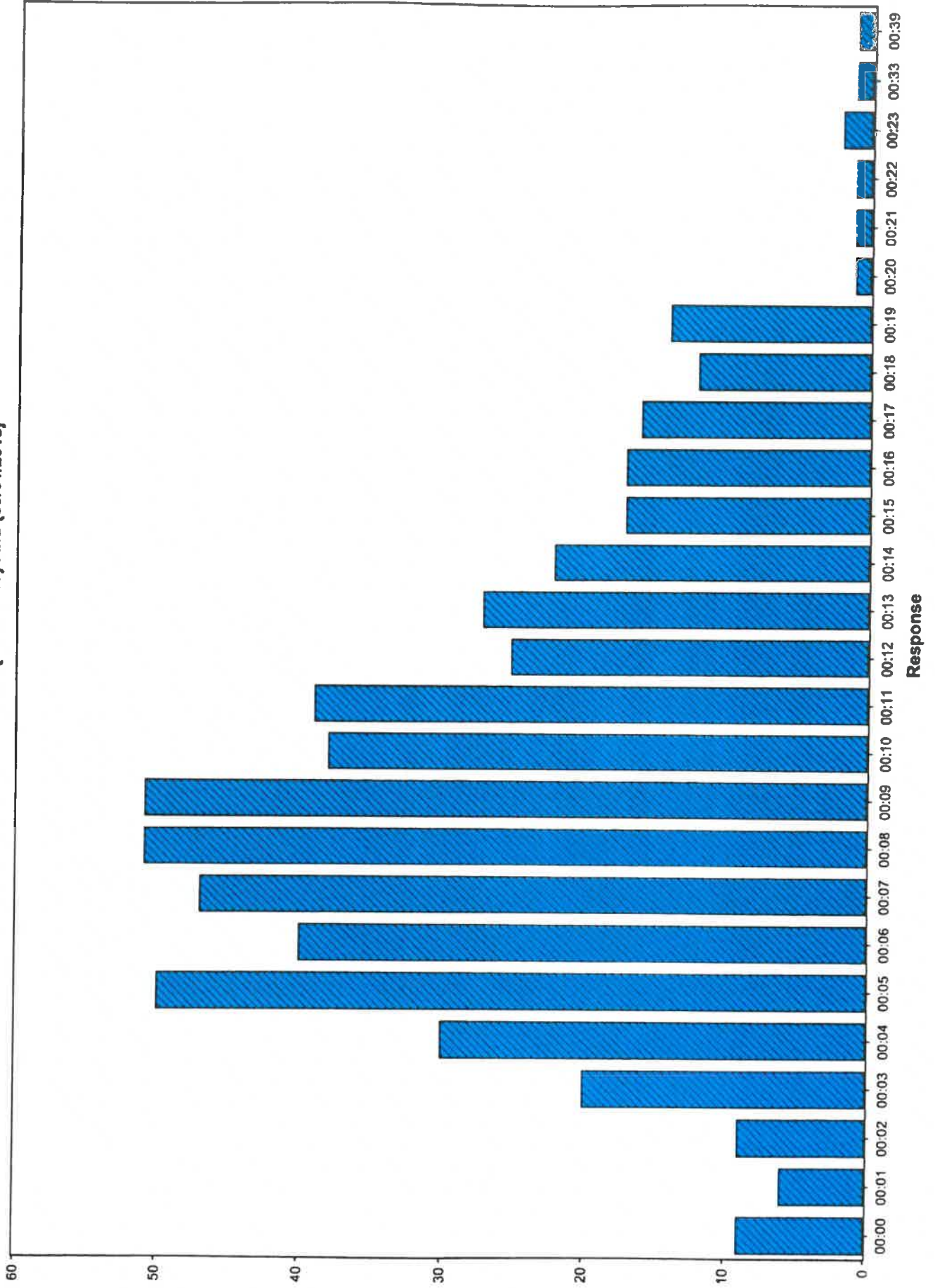
Incident Type Summary
Alarm Date Between {07/01/2017} And {09/01/2018}



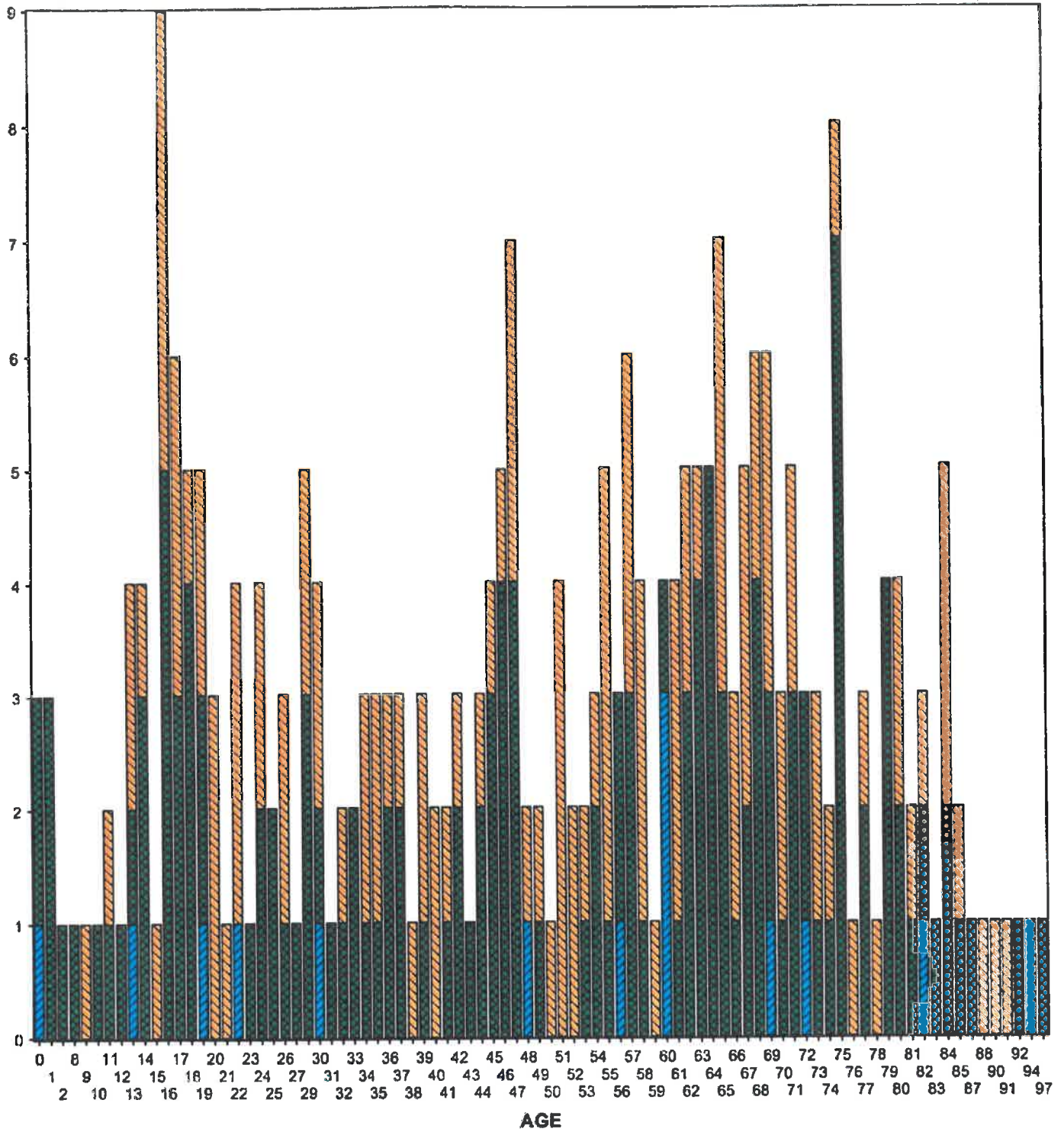
Incidents by District
 Alarm Date Between {07/01/2017} And {09/01/2018}



NFIRS Incidents by Response Time (in minutes)
Alarm Date Between {07/01/2017} And {09/01/2018}

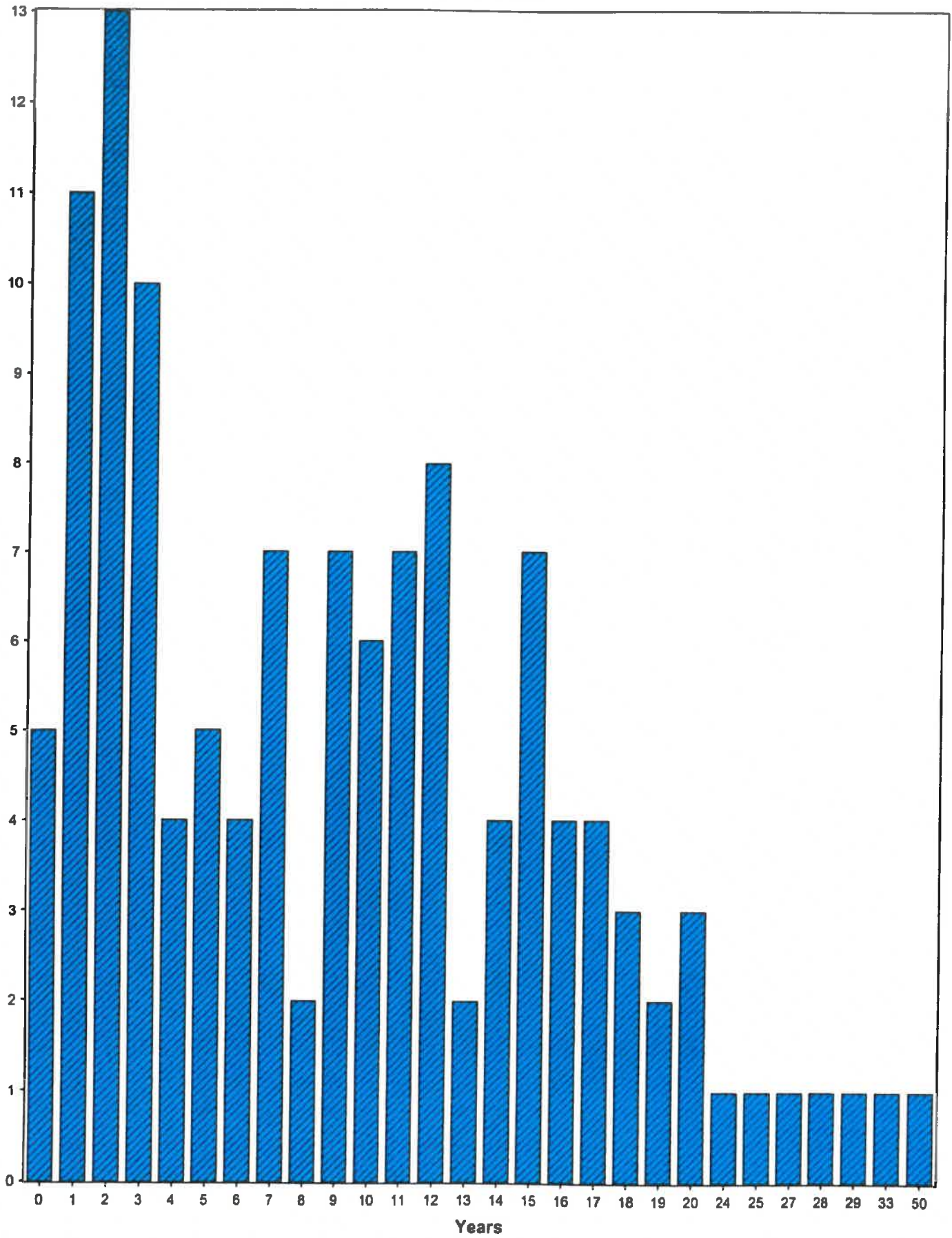


Patients by Age, Gender
 Alarm Date Between {07/01/2017} And {09/01/2018}

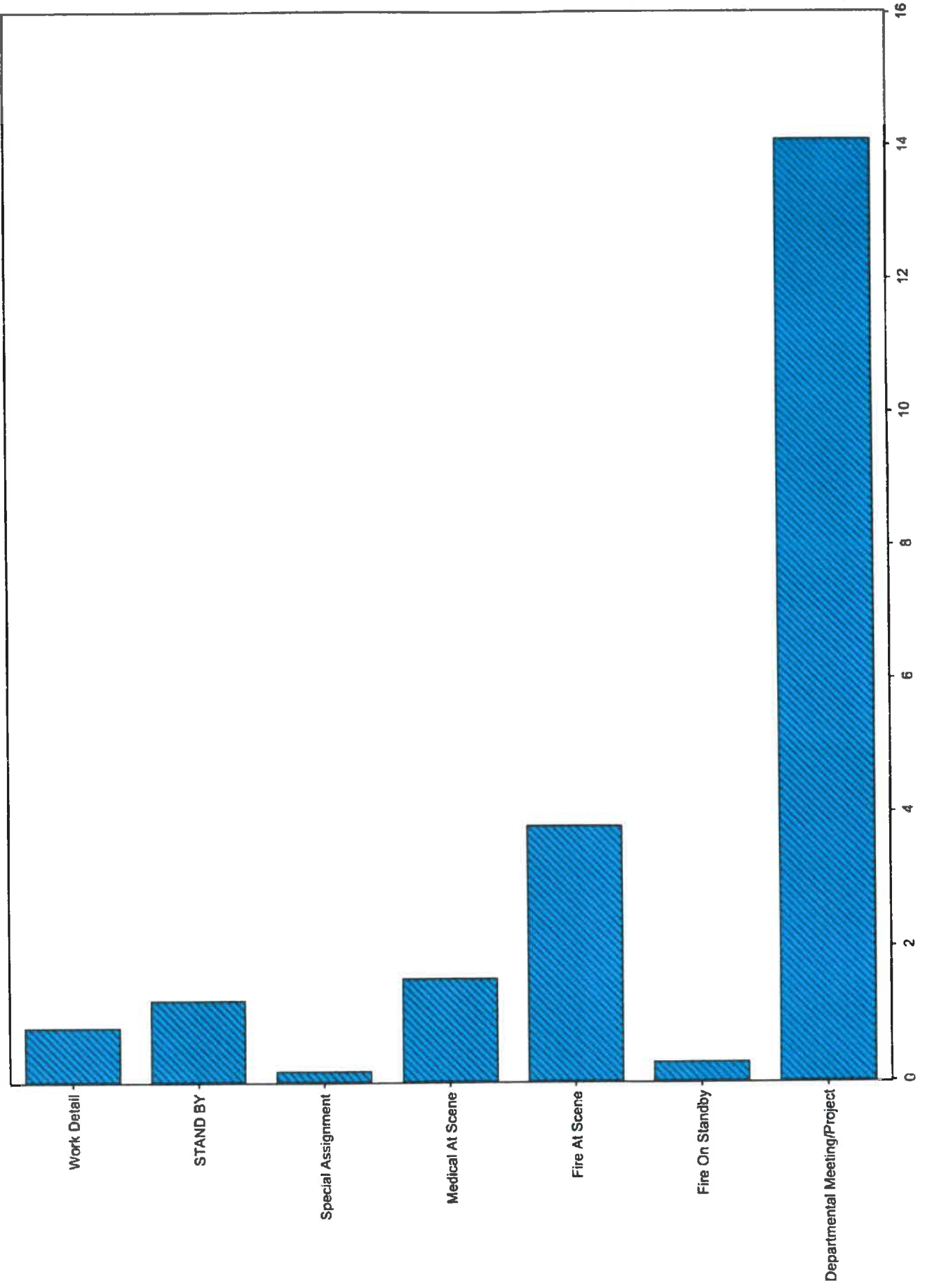


C_NULL
 MALE
 FEMALE

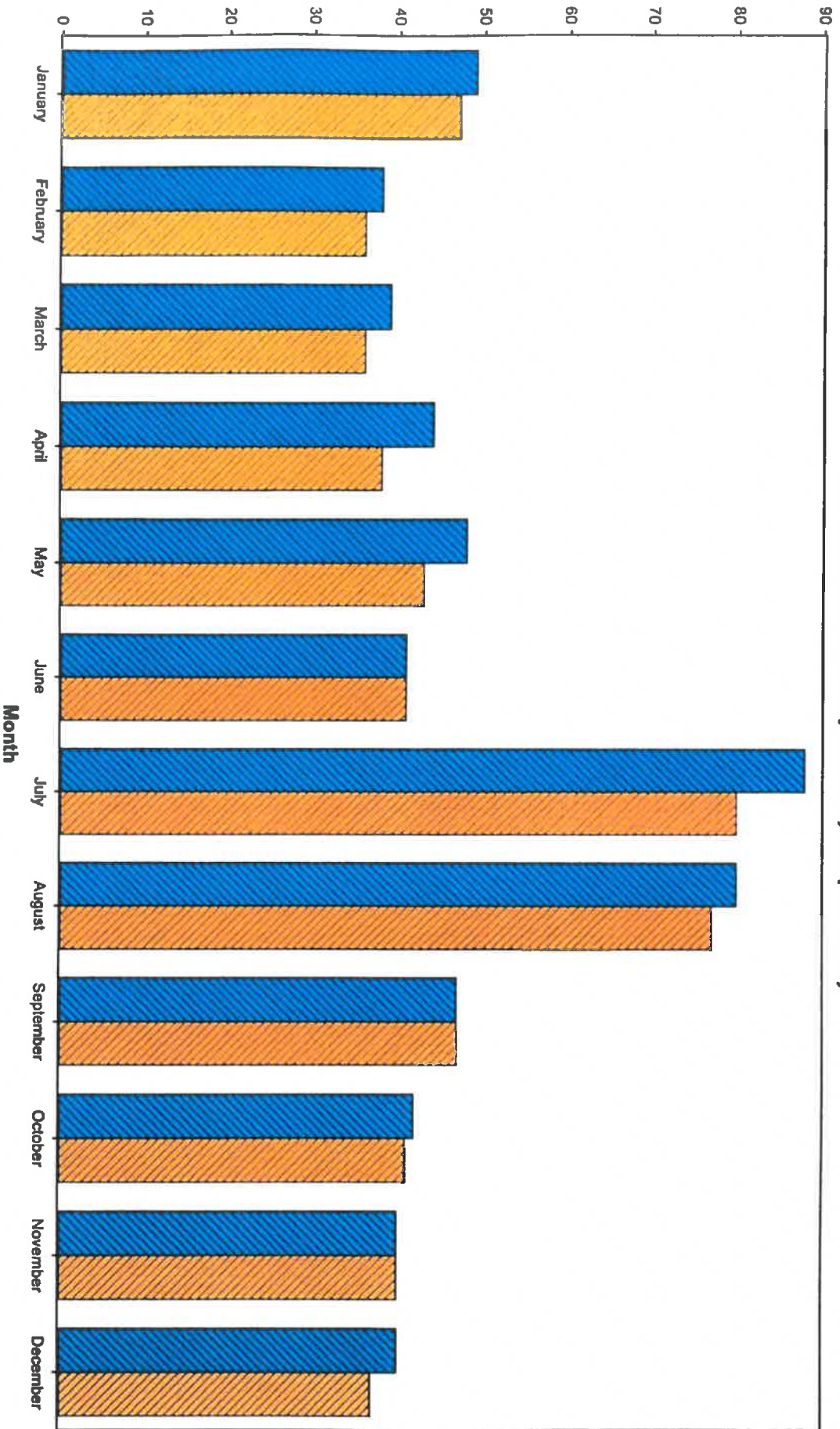
Years of Service



Average Participant Hours by Activity Type
Date Between {07/01/2017} And {09/01/2018}



Fire vs EMS by Month
 Fire Alarm Date Between {07/01/2017} And {09/01/2018}
 EMS Alarm Date Between {07/01/2017} And {09/01/2018}



Fire Count
 EMS Count

