



192 HIGHWAY 92 • BISBEE, ARIZONA 85603

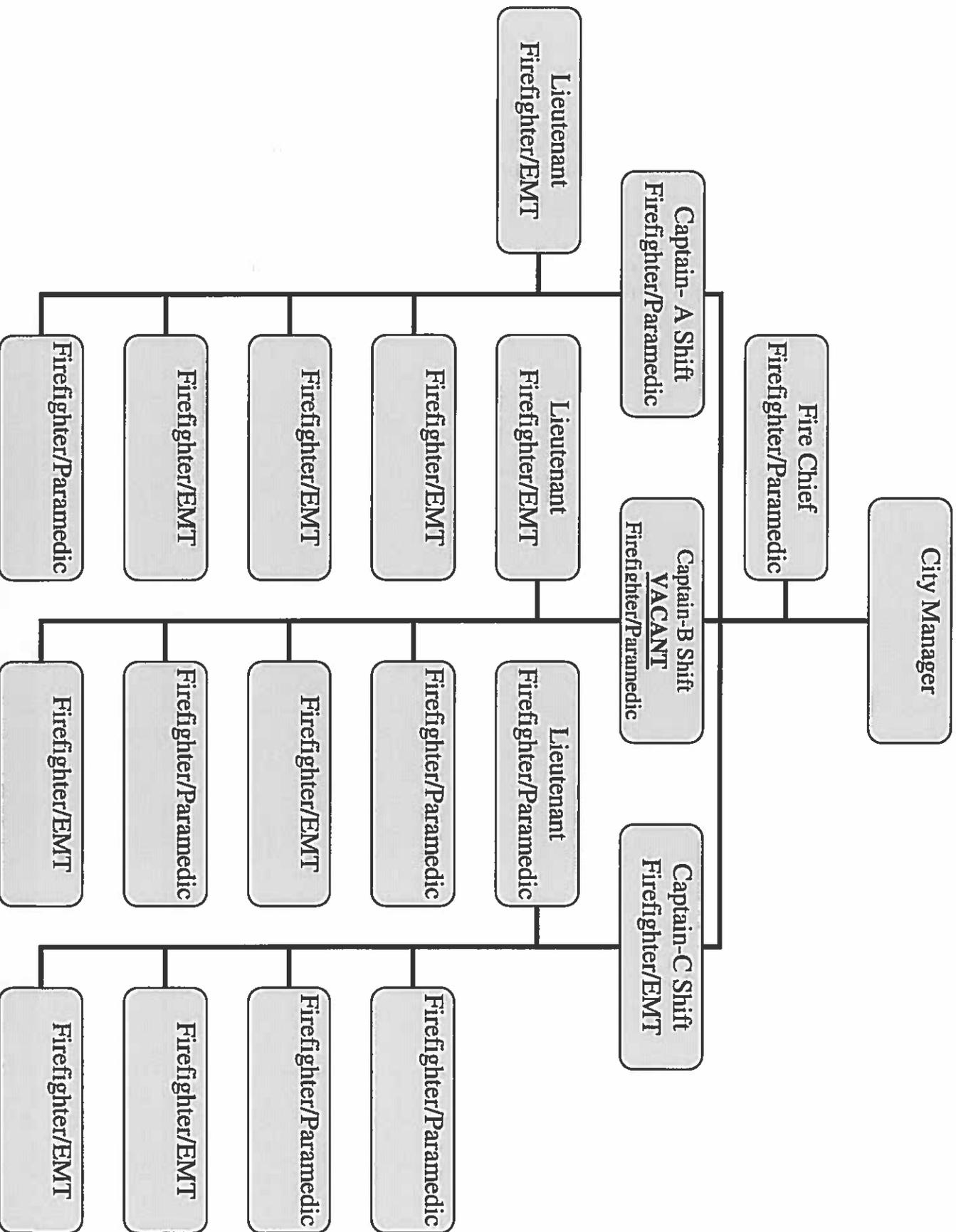
(520) 432-4110 • FAX: (520) 432-2594

DATE: MARCH 7, 2017
TO: MAYOR SMITH & CITY COUNCIL
FROM: MARC BURNELEIT, FIRE CHIEF & OFFICERS
SUBJECT: FIRE DEPARTMENT ANNUAL REPORT FOR 2016

As stated in the Bisbee City Code 4.2.2 B.9, the Bisbee Fire Department Chief and Officers submit to you our 2016 Annual Report. This report contains information and activity which took place during the 2016 calendar year within the Fire Department.

This report is comprised of information which includes; Fire Department Operations, EMS Operations, Training, Business Inspections, Emergency Calls, Service Calls, Inventory of emergency vehicles, and a Department Organizational Chart.

Bisbee Fire Department Organizational Chart





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FIRE DEPARTMENT OPERATIONS

We the members of the Bisbee Fire Department, dedicate our efforts to provide for the safety and welfare of the public through preservation of life, property and the environment.

To provide 24 hour response to all types of hazardous and emergency situations to include 24 hour ALS response as well as inter-facility patient transports from one hospital to another. This service is provided to all of the citizens of Bisbee and residents living within our State licensed CON. The Fire Department is also responsible for enforcement of the Uniform Fire Code and inspection of all businesses and public access areas. The Fire Department is charged with investigating for cause and origin of any and all fires within its jurisdiction. Public education is also provided through many different avenues such as schools and civic organizations and is responsible for fire prevention education and training within the city.

Pre-hospital 9-1-1 emergency response is one of the essential public safety functions provided by the fire service in support of community health, security and prosperity. Fire service-based emergency medical services (EMS) systems are strategically positioned to deliver time critical response and effective patient care. Fire service-based EMS provides this pivotal public safety service while also emphasizing responder safety, competent and compassionate providers, and cost-effective operations. It is critical that the citizens and local government understand the importance of having EMS provided through the fire service. Due to the training, expertise and equipment of fire service-based EMS responders, we are capable of simultaneously securing a scene, mitigating the hazard and triaging, extricating, treating, decontaminating, and transporting patients to the appropriate medical facility. Time efficiency is a key component of the best designed EMS systems. There is no service more capable of rapid multi-faceted response than a fire based EMS system, as opposed to a private ambulance or volunteer system.

The Bisbee Fire Department has been providing paramedic level EMS service since the early 1990's. The Bisbee Fire Department provides the most advanced medical care to our city and surrounding areas with our EMT'S and Paramedics being some of the most highly educated and trained in Arizona.

At our current staffing levels, the Bisbee Fire Department will continue to provide the highest quality of service possible while enhancing the general fund revenues.



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EMS OPERATIONS

The City of Bisbee Fire Department provides advanced life support (ALS) emergency medical services to the city of Bisbee and the surrounding areas. Our area of medical coverage is designated by the state of Arizona through our certificate of necessity (CON). Our CON covers over 400 square miles and includes the Naco POE, the Cochise County jail, and the Freeport-Mcmorran mine and the CQCH. Our patient pool includes all the citizens of Bisbee, tourists and visitors, and all travelers along SR80-SR90-SR92 within our CON. Our patients vary widely from newborns to the elderly, as do our reasons for emergency response. Cardiac emergencies, Respiratory emergencies, diabetic emergencies, stroke, cancer, allergic reactions, chronic illness, pediatric emergencies, OB, psychiatric emergencies and all types of trauma from car wrecks, industrial accidents or accidents at home are some but not all of the reasons we are called.

All of our paramedics and EMTs are state certified and some of us are also nationally certified. In addition our paramedics must have certificates in advanced cardiac life support (ACLS) and pediatric advanced life support (PALS). All Bisbee fire fighters are CPR certified. All these certifications must be re-certified every two years and that requires that we complete refresher courses, continuing education (CEs) requirements and skill competency reviews that include advanced airway management.

Our EMS program although approved by the state of Arizona is monitored and medically directed by Tucson Medical Center (TMC), our base hospital. The base hospital provides a medical director, Dr Ottman, under whose license we are able to practice our skills and level of care. The base hospital provides a pre-hospital coordinator, Dawn Daniels, who sets the standard of care for our department and other agencies in the county. She does this through standing orders (SO), quality insurance (QI), and continuing education (CEs). Through the base hospital our department has received additional training that sets us apart from other departments. This training includes rapid sequence intubation (RSI), advanced IV therapy, and IV certified EMTs.

In addition to running 911 emergencies our department also takes interfacility transfers from Copper Queen Community Hospital (CQCH) to hospitals with a higher level of service. As with 911 calls the level of care and the severity of the patient's condition may vary, but our department is capable of providing special care transports and critical care transports. Because of our increased training in transport IV drip medications Bisbee Fire is the only Department in Cochise County that does both 911 and critical care IFTs. This provides a valuable and necessary service to our community, as well as relieving our city leaders of the sole burden of financing our department by bringing in substantial additional revenue. Through our IGA with PFD we have been able to manage the substantial increase in IFTs that the CQCH has generated. Even though TMC is our base hospital, when we transport a pt to another base hospital in Tucson (TMC, UMC, UMC-SOUTH, SJH, SMH, NWH) we contact that hospitals E.R. DR and he/she becomes our medical control for that pt. Providing any orders needed to treat that pt en-route to their facility.

At this time our department currently has 8 paramedics , 3 of which have just recently become certified ,and 10 EMTs. We have two EMTs currently in this years paramedicine course at Cochise College in Sierra Vista. We are committed to keeping and advancing our EMS training, education and skills through scheduled monthly tape and chart reviews, in-house exercises and scenarios, individual call after action plans, advanced airway and skills labs.

In 2014 our ALS scope of practice increased to include continuous positive airway pressure (CPAP) that allows us to better treat patients in respiratory distress or respiratory failure. Also our two LP-15 cardiac monitors allow us to monitor end-tidal CO2 which is a very valuable and necessary tool in monitoring severe breathing problems as well as verifying endotracheal tube placement. In addition to treating patients our EMTs and paramedics must document and record all calls where emergency treatment is provided or refused. Traditionally this has been accomplished manually by hand written patient care forms. We are now doing this documentation electronically by using computer type notebooks known as "Tuff Books". This also will allow us to conform to the accepted standard of care expected of our department. We have equipped our department with 4 Tough Books and the associated soft ware so that we are able to document and record the appropriate information from anywhere.

The minimal optimal level of EMS for our dept to run at is 9 paramedics 12 EMT's, with 5 ambulances. This size dept would provide our citizens with the most complete and uninterrupted service available from Bisbee fire. This would take in consideration most of the difficult situations that can occur from time to time. With 3 paramedics per shift we could easily cover back-to-back medical calls, medical calls during structure fires, handle more IFT'S , and better provide for the health and safety of our citizens and loved ones. This is our goal to continually provide the best possible service with the highest quality scope of practice.



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TRAINING

The Bisbee Fire Department conducts training in accordance with N.F.P.A 1500. Training is done at a minimum of 16 hours per month per Firefighter. Training is logged and or documented in the daily log and training forms. Each firefighter has a folder which has copies of all certifications.

We do different evolutions each month to keep our firefighting skills at a high level. Examples are tagging hydrants, pulling and deploying pre-connected hose loads, rescue drills etc.

In addition we log hundreds of hours in driver area training. This training helps us in hydrant location, possible placement of fire engines, and address recognition especially in Old Bisbee where “C” or “D” address would be accessed easier from a different street. This training is essential due to the high turnover rate we have experienced in recent years.

Every firefighter has taken FEMA IC’s 100, 200, and 700 classes. These classes train the individual in proper command structure in all incidents both small and large. All personnel are also Wildland Firefighter Certified.

The fire service is constantly evolving with new upgraded techniques. We strive to keep current with all upgrades which involves sending people to schools and seminars. We have created an Emergency Vehicle Operators Class to further advance our driving skills. We are also working on a TIMS or Traffic Incident Management Class.

Public education, we offer CPR certifications including: Health Care Provider, Heartsaver, and Heartsaver First Aid. Fire prevention is also an important issue for us. Since this program was started, fires from juveniles have drastically decreased.

EMS training is also extensive, every member must maintain a current EMT certification at a minimum. This involves keeping a current CPR card. Attending a minimum of 6 Q.I. session per year. Every 2 years attending a refresher class of 40 hours.



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Business inspections

The City of Bisbee Fire Dept. has a Fire Inspection Program used to perform Business inspections. The goal of the inspection program is to minimize the risk of life and property loss from fire, as well as educating the Business owners in fire prevention. Fire inspections are the single most important nonemergency activity performed by the fire dept. This activity helps Fire Fighters create a strategic plan of action to identify any and all fire hazards. This helps Fire Fighters to understand building construction, utility shut off locations and hydrant locations. Fire inspections are performed on all new business and any business that has changed ownership, changes occupancies or a change in name. Inspections are also done annually when possible or when hazardous conditions are brought to our attention from the public.

Studies have shown a dramatic drop in residential and commercial fires and fire related fatalities since fire inspection and fire prevention programs have been implemented. In 2016 we were able to send two Firefighters to Fire Inspector class so now The City of Bisbee currently has 5 Fire inspectors, 1 Fire Marshall / Lieutenant. In the year 2016 we performed 60 inspections for the City of Bisbee. In 2015 there were 93 Business inspections and in 2014 there were 80.

In 2017 the Fire Dept is proposing to start charging a fee of \$25.00 per inspection of New Businesses and Annual Business Inspections. There will be no additional charges as long as the Business owner complies and fixes all deficiencies set forth by the Fire Marshall and or Inspectors. The Fire Inspectors following the 2012 International Fire Code. If the owner does not comply there will be an additional charge of \$75.00 for the first follow up inspection. There will be a subsequent charge for each additional non compliant inspection. The fees will progress to \$150.00, \$300.00, \$600.00. If the business owner is noncompliant on the fifth follow up inspection the business license will be suspended until compliance is met.

This year the Fire Dept. would like to implement an Annual Business Inspection Program. This program will help Fire Fighters “fight the fire, before the fire.” This means we have an obligation to educate the community and business owners we serve by pointing out potential fire hazards and other problems. Annual inspections keep property owners thinking about compliance. Educating citizens on fire hazards and having those corrected helps increase the survivability of both the community we serve and the firefighters sworn to serve. The Fire Dept would need an additional four to six inspectors to make this program efficient and successful.

The minimum potential revenue that could have been generated by the inspection program this year on new businesses alone would have been \$1500.00.



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BISBEE FIRE DEPT. EMERGENCY VEHICLES

The City of Bisbee Fire Dept. currently has 15 vehicles. These vehicles are utilized by Fire and EMS personnel to respond to emergency calls from the public.

- Engine 81 is a 2016 Rosenbauer Freightliner Structural Firefighting Engine. This front line engine is our newest engine and is housed at Sta. 81.
- Engine 82 is a 2004 GMC 8500 Structural Firefighting Engine. This engine is also a front line unit housed at Sta. 82 in Old Bisbee.
- Engine 811 is a 1992 Navistar International Structural Firefighting Engine. This engine is a back up engine housed at Sta. 81.
- Brush 81 is a 2004 GMC Sierra 3500 Duramax Diesel Ext cab 4x4 Type 6 Brush truck used in wild land firefighting with a new 2014 skid unit with foam.
- Squad 81 is a 2012 Dodge Ram 3500 Heavy duty 4x4 Type 6 Brush truck /Quick Attack
- Tender 81 is a 1993 Ford L 8000. A 2000 gal water tender primarily utilized by the Public Works Dept.
- Rescue 81 is a 2004 GMC 3500 Duramax Diesel 4x4 Rescue Truck.
- Medic 81 is a 2016 Chevrolet Duramax Diesel. This is our newest ALS ambulance and a front line unit housed at Sta. 81.
- Medic 82 is a 2010 GMC Duramax Diesel Ambulance. This is a front line unit housed at Sta. 82.
- Medic 811 is a 2005 Ford E-350 Wheeled Coach ALS ambulance. This ambulance is primarily used for interfacility transfers and a back up unit for Medic 81.
- Staff 81 is a 2003 Chevrolet Trail Blazer staff vehicle. This vehicle is used as an on call Vehicle.
- Support 81 is a 2004 GMC Sierra ¾ ton Support vehicle. This vehicle is used as a back up Rescue truck and an on call vehicle.
- Support 811 is also a 2004 GMC ¾ ton Support vehicle. This vehicle is used as an on call vehicle.
- Chief 8 is a 2002 Chevrolet Tahoe. Chiefs vehicle.
- 1941 Ford Fire Engine used for show and in Parades.



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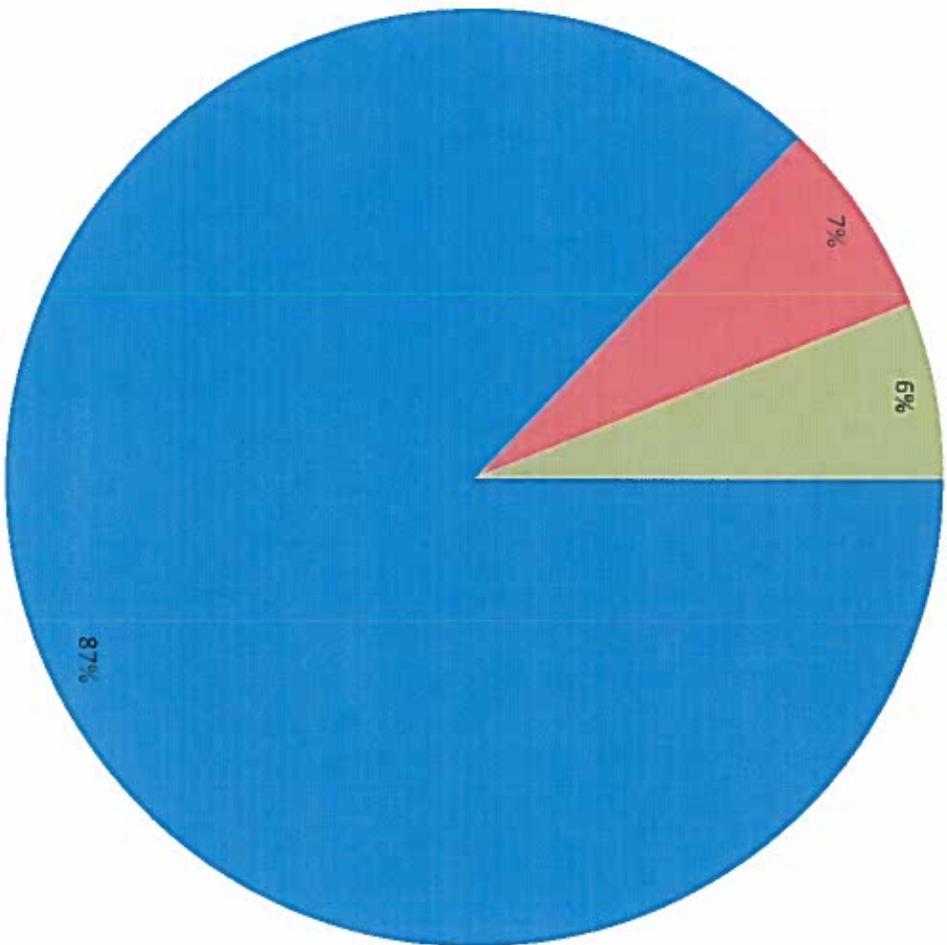
Bisbee Fire Department Call Log

Jan 1, 2016 thru Dec 31, 2016

<u>EMS</u>	<u>Fire</u>	<u>Service Calls</u>
EMS Transports 963	Structure 10	Special Operations 45
BFD Interfacility 519	Fire Alarm 54	Inspection 60
BFD/PFD Interfacility 390	Brush 27	CPR Class 16
Good Intent/Public Assist 352	MVC 53	Bee Calls 6
Mutual Aid EMS 18	Mutual Aid Fire 14	Training 64
Manpower assist 9	Downed Wire 29	
AA Interfacility 470	Hazmat/Natural Gas 18	
	Dumpster Fire 2	
	Helicopter Support 7	
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TOTALS 2721	214	191

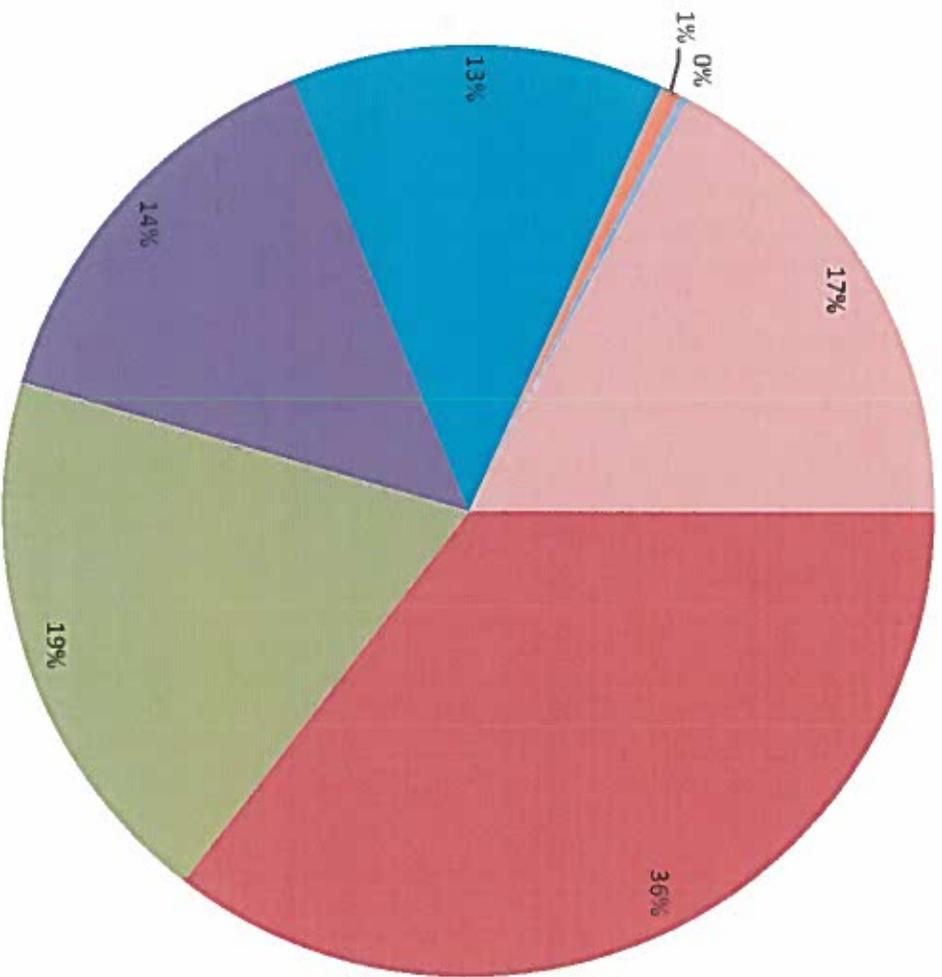
Total calls by Bisbee Fire Department 3126

Total Calls



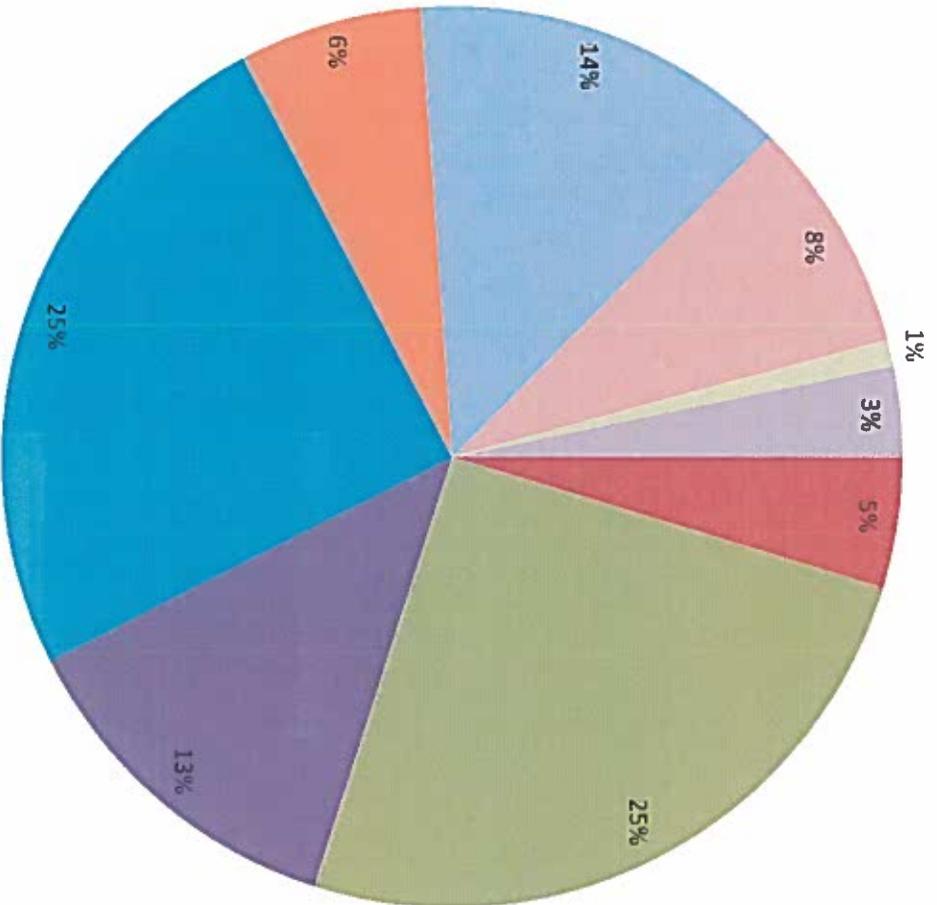
- EMS
- Fire
- Service Calls

EMS



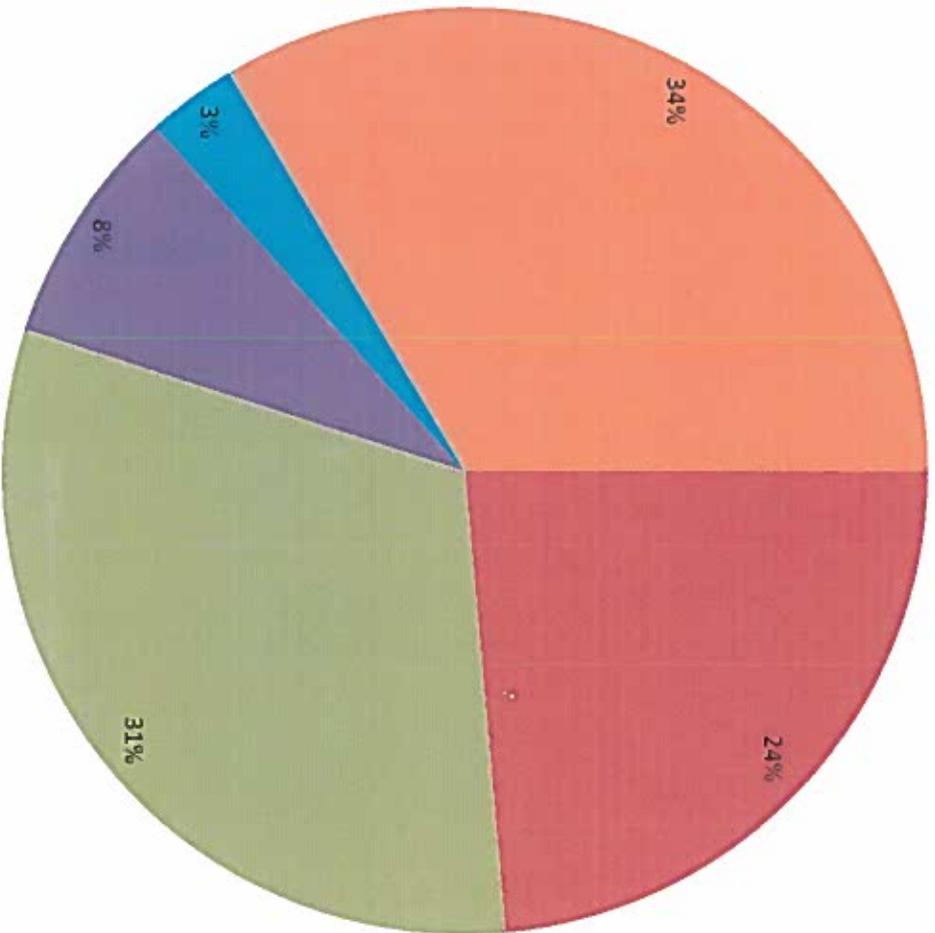
- EMS
- EMS Transports
- BFD Interfacility
- BFD/PPFD Interfacility
- Good Intent/Public Assist
- Mutual Aid EMS
- Manpower assist
- AA Interfacility

Fire



- Fire
- Structure
- Fire Alarm
- Brush
- MVC
- Mutual Aid Fire
- Downed Wire
- Hazardous/Natural Gas
- Dumpster Fire
- Helicopter Support

Service Calls



- Service Calls
- Special Operations
- Inspection
- CPR Class
- Bee Calls
- Training