Daisy Mountain Fire & Medical

Community Risk Reduction

(2024-2028)

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COMMUNITY RISK REDUCTION PLAN TIMEFRAME

In alignment with the Sums Coda Associates Community Risk Reduction Assessment Report delivered to the Daisy Mountain Fire and Medical (DMFM) Fire Board in February of 2023, DMFM has established a Community Risk Reduction Plan for department implementation beginning in February 2024. From February 2024 to February 2028, DMFM will work to evaluate all available information to establish a baseline for future organizational goals in support of community education and outreach opportunities.

DMFM's Community Risk Reduction (CRR) Plan will be established per the National Fire Protection Association (NFPA) 1730/1300, 2018/2019 to effectively assign the Fire District's limited resources—funding, personnel, time, and partnerships—where and when they are needed most.

Year 1: Create and adopt a DMFM Community Risk Reduction Plan. (February 2024)

Years 2-3: DMFM will establish properly trained and equipped Public Program staff members to meet the objectives of the specific CRR Plans with a focus on public education, outreach, and overall program development. (February 2025-2026)

Years 3-4: DMFM will achieve full CRR Plan implementation. (February 2026-2027)

Years 4-5: DMFM will evaluate and review all available data and evaluate the impacts of the CRR Plan. Conduct a Community Risk Assessment and update the Community Risk Reduction Plan. (February 2027-2028)

NFPA has published an official guidance document on writing a Community Risk Reduction plan, **NFPA 1300: Standard on Community Risk Assessment and Community Risk Reduction (CRR) Plan Development.** DMFM's CRR plan follows NFPA 1300, and each goal listed has incorporated the following components:

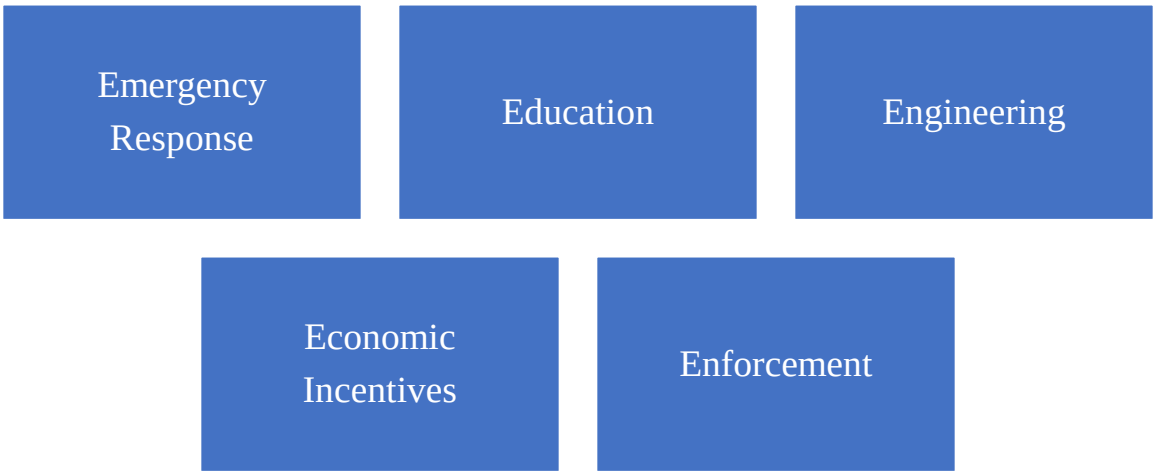
- **Risk Statement –** What is the current risk? According to what data?
- **Goal Statement –** What is the broad vision of addressing the problem (reducing the risk)?
- **Objectives –** How will that goal generally be reached, whether through enforcement, education, engineering, emergency response, economic incentive, or a combination of these methods?
- **Strategies and Activities –** What are the essential steps and tasks to fulfill the objectives?
- **Internal Participants –** Which Fire District personnel/officials will be needed?
- **Strategic Partners –** Which external individuals or community groups will be needed?
- **Resources Required –** What resources will be needed, such as funding, staff time, equipment/gear, educational materials, or written policies and processes?
- **Communication and Marketing Methods –** How will the Fire District inform the affected persons or increase their participation?

- **Evaluation Measures –** What will the Fire District assess to determine program productivity and results? Each goal will include three measures:
    - **"Process" Outputs –** Measures that don't indicate impact, usually in the form of tallies such as the number of inspections completed or the number of participants. **"Impact" Outputs –** Comparative measures that indicate initial impacts, such as improved inspection compliance or the percentage increase in participant knowledge.
    - **"Outcomes" –** Measures that account for all of the work done in pursuit of a goal, such as zero fire deaths over 5 years or percentage reduction of a particular call type.
- **Flowchart –** The DMFM CRR plan will be structured to provide detailed explanations of each goal, followed by a 1-page flow chart as a summary snapshot of the goal.

NAVIGATING COMMUNITY RISK REDUCTION

NFPA considers five methods of reducing community risks, which all start with "E": **Education, Enforcement, Engineering, Economic Incentives,** and **Emergency Response.** DMFM will work to incorporate multiple methods of reducing risk in each goal.

The 5 E's of Community Risk Reduction



GOALS

While the Fire District will continue to provide valuable programs and services for risks not specifically listed below, the following issues are prioritized for this CRR plan (in no particular order):

1. **Wildfire –** Minimize the impact of Wildfire Fires incidents on our community through the use of established Wildland Urban Interface guidelines.
2. **Smoke Alarms –** Reduce life safety risks through the increased presence of working smoke alarms in single-family homes.
3. **Falls –** Reduce the frequency of Fall Injury calls for service in residential occupancies and commercial care homes.
4. **CPR/First Aid –** Increase community training on CPR/First Aid.
5. **Child Car Seat Safety –** Increase community access to car seat safety inspections and installations by nationally certified Child Passenger Safety Technicians.
6. **Fire Investigations –** Increase the availability and attention to detail of fire investigation reporting of qualified DMFM Fire Investigators.
7. **Fire Inspections –** Develop a process to inspect all new buildings and pre-existing commercial occupancies following the adopted Fire Code.
8. **Water Safety** – Minimize the impact of water-related accidents/incidents in our community through water safety training and education for pools and hazardous water crossings.

Each of these identified areas has a corresponding Community Risk Reduction Plan listed as an appendix for further reference.

DISTRICT FOCUS

Daisy Mountain Fire & Medical serves a diverse population that spans two counties and five communities. These dynamics pose multiple challenges ranging from population densities, geographical features, residential and commercial locations, and specific hazards associated with the Fire District. Because of this diversity, DMFM should focus on identifying and mitigating risks to the area to reduce the impacts of these threats.

Community Risk Reduction involves a systematic approach and typically does not involve a quick response to identified threats and risks present within the community. DMFM is committed to developing a long-term approach to reducing the hazards and risks that impact our communities. This CRR Plan will serve to provide DMFM with documentation of identified hazards and risks within the Fire District. Additionally, the CRR Plan will focus on the development of specific plans to address unique hazards and risks within each community.

DMFM's CRR incorporates the Fire District's 2024-2028 Strategic Plan:

DMFM Mission Statement:
We are **Honorable, Compassionate,** and **Exceptional.**

District Values

Service: We will commit to service before self, service that exceeds expectations, courtesy, and compassion.

Regional cooperation: We will participate in partnerships that provide all communities with the highest level of service, reciprocate, collaborative, and seamless. This value aligns itself with the value of service in that it reflects the Department's commitment to provide a high level of customer service regardless of the community.

Professional image: Our professional image is far more than just appearance or how you are dressed. It is not only a visible representation but also a set of behaviors, real or perceived, that are linked to ethical behavior, our commitment, and competent/professional behavior.

Commitment to quality: We will pursue excellent quality in service, forward-thinking, seek access to cutting-edge technology, and creativity. This value is about doing the right thing consistently and in a timely manner. We seek better ways to continuously sustain an exceptional level of service. It is about seeking continuous improvement through a variety of means.

Our Purpose Statement: The Daisy Mountain Fire & Medical Department is committed to providing the highest level of public safety services for our communities. We protect lives & property through fire suppression, emergency medical and transportation services, disaster management and planning, fire prevention, and public education services.

DATA COLLECTION

To effectively measure progress toward the desired outcomes described in the CRR plan, DMFM will utilize existing data collection systems and institute processes to collect, analyze, and review information to improve CRR Plan impacts or deficiencies within the Fire District. Data collection will be focused on the previously listed goals for this CRR Plan (2024-2028):

1. **Wildfire:**
   A. On all Wildfires, Identification/Documentation of homes at high risk of experiencing a Wildfire.
   B. Identification/documentation of any Wildland Urban Interface guidelines present.
2. **Smoke Alarms:**
   A. Successful functionality of alarms during residential calls.
   B. Documentation of homeowners/renters in need of working Smoke Alarms.

3. **Falls:**
   A. On all residential and commercial care home calls, identification/documentation of residents at high risk of experiencing a fall due to environmental factors.
   B. On fall calls, identification/documentation of the primary factor(s).
4. **CPR/First Aid:**
   A. Identification/documentation of CPR/First/Aid Classes provided by DMFM.
   B. Identification/documentation of CPR/First Aid provided via bystanders before DMFM arrival.
5. **Child Car Seat Safety:**
   A. Identification/documentation of Child Car Seat Safety Inspections.
   B. Identification/documentation of Child Car Seat Installations.
   C. Identification/documentation of Child Car Seat use in Motor Vehicle Accidents.
6. **Fire Investigations:**
   A. Identification/documentation of all fire calls requiring investigation.
   B. Increase attention to detail in report writing.
7. **Fire Inspections:**
   A. Identification/documentation of all new buildings.
   B. Identification/documentation of pre-existing commercial occupancies are inspected per the adopted Fire Code.
8. **Water Safety:**
   A. Provide public outreach through training and community interaction in water safety for pools and hazardous water crossings.
   B. Identification/documentation of all water-related incidents.
   C. Identification/documentation of all hazardous water crossings.

REPORT BACKGROUND

In October 2022, Daisy Mountain Fire & Medical (DMFM) retained the services of Shums Coda Associates (SCA) to assist the district's community risk reduction efforts and community outreach programs.

DMFM has committed to establishing a Community Risk Reduction plan through the utilization of the Community Risk Assessment (CRA) process. The CRA is a strategic process for fire departments to gather and analyze data, and to set organizational priorities across all divisions: Operations, Prevention, and Administration. DMFM will analyze information for the CRA by reviewing five years of emergency call data, occupancy data, housing age, and U.S. Census demographic data (age, race, language, disabilities, and income).

DISTRICT DESCRIPTION

DMFM is a special taxing district authorized under the Arizona Revised Statute (A.R.S.) Title 48 with operations in Maricopa and Yavapai Counties. The Fire District covers approximately 250 square miles, including a dangerous 35-mile stretch of Interstate 17. Six strategically located stations serve the population with over 100 fully trained and certified firefighters providing an "all

hazards" response including Fire Suppression, Emergency Medical Services, Hazardous Materials Response, Swift Water Rescue, Technical Rescue (Operational April 2024), and Wildland Fire capabilities. Additionally, DMFM is part of the Phoenix Automatic Aid Consortium providing the same response capabilities throughout Maricopa County regardless of jurisdictional boundaries.

Department resources include 6 Fire Engines, 1 Ariel Platform, 3 Ambulances, 1 Hazardous Materials Response Team, 6 Wildland Brush Engines, 5 Water Tenders, 1 (56-hour) & 1 (40-hour) Battalion Chief. Each DMFM fire engine is staffed with four personnel, each DMFM Ambulance unit is staffed with two personnel. Each Fire Engine has at least two certified emergency paramedics and one paramedic on each Ambulance unit, ensuring that advanced emergency care is never far away.

DISTRICT POPULATION

The Fire District serves the unincorporated communities of Anthem, Black Canyon City, Desert Hills, and New River. The Town of Cave Creek is serviced by DMFM through a long-term contract for "all hazard" response services. The population residing within the Fire District and the Town of Cave Creek is approximately 61,447 according to 2022 U.S. Census data.

The median age of the Fire District population, including the Town of Cave Creek, is 50.7 years old. Approximately 23.8% (12,110) of the population is over 65 years old (senior) and 7.6% (3867) is under the age of 9. Nearly 11.3% (5750) of the population is living below the poverty level.

DISTRICT GEOGRAPHY

The geography of the Fire District is varying and is home to various vegetation types ranging from grass to shrubs. DMFM is predominately designated as a wildland-urban interface region. The Fire District is bordered by the Bureau of Land Management (BLM), U.S. Forrest Service, and Arizona State Land to the North, the cities of Phoenix and Scottsdale to the South, the Town of Carefree to the East, and Arizona State Trust Land and the City of Phoenix to the West. Elevations range from approximately 1700' to 6000' above sea level.

Watershed locations within the Fire District along with seasonal weather patterns contribute to increased chances of flash-flooding. This hazard combined with a lack of transportation infrastructure in the form of bridges or culverted waterway crossings, poses a significant threat to motorists from the presence of rapidly rising water levels. Due to its particular geography, communities within the Fire District are at increased risk from two natural threats: wildfire and flooding.

DISTRICT ECONOMIC DEVELOPMENT

Economic development in the area is centered around Health Care & Social Assistance, Construction, Administration & Support Services. DMFM also plays a crucial role in maintaining the operational capabilities of Interstate 17 which runs through the Fire District. This vital roadway is part of the statewide transportation infrastructure responsible for $332 Billion in annual revenues.

DISTRICT HAZARDS / THREATS

Given the vast area and geography that comprises Daisy Mountain Fire & Medical's primary response region, it is critical to identify potential risks to each community and its residents. After conducting a preliminary Threat Analysis for the Fire District, the following Threats / Hazards have been identified: Drought, Extreme Heat, Flooding, Hazardous Material Release, Pandemic / Epidemic, Terrorism, Thunderstorm / High Wind, and Wildfire. Additional risks to the community can be identified through the evaluation of department response data and input from other organizational members and key community stakeholders.

Organizational Goals

- Explore ways to minimize the impacts of fires, hazardous conditions, injuries, and deaths.
- Minimize risk to life, property, and the environment by mitigating hazards.
- Prepare for emergencies and disasters.
- Respond promptly to emergencies and disasters, suppress fires, control, or eliminate hazards, save lives, and reduce suffering by providing patient care and transportation.
- Recover from emergency incidents and disasters to reduce property loss and restore community well-being.
- Partner with community members and other key stakeholders to provide a safe and secure community.

Organizational Objectives

- Enhance community preparedness through hazard and risk analysis and provide community-based outreach and education.
- Increase safety and perception of safety.
- Reduce incidents that result in injury, death, and property damage.
- Reduce the recurrence of incidents that negatively impact district resources.
- Reduce death, injury, and medical emergencies and trauma.
- Reduce death, injury, and property loss due to fire.
- Prevent occupational injury and illnesses.

- Develop members' knowledge, skills, and abilities to accomplish the mission and goals of the Fire District.

- Develop and implement comprehensive plans to prepare for, respond to, and recover from emergencies and disasters. (Continuity of Operations Plan)

- Provide and maintain facilities, apparatus, equipment, and supplies to deliver quality service.

District Calls for Service Summary (2018-2022)

Daisy Mountain Fire & Medical Service Delivery data has been obtained from Fire District data systems for the calendar years of 2018-2022. The following is a list of the Incident Type Report Categories:

Incident Type (2018-2022)	Count	% of Incidents
No Classification	3697	12.27%
Fire	808	2.68%
Overpressure Rupture, Explosion, Overheat (No Fire)	4	0.0001%
Rescue & EMS Incident	18,980	62.98%
Hazardous Condition (No Fire)	322	1.07%
Service Call	3493	11.59%
Good Intent Call	1369	4.54%
False Alarm & False Call	1370	4.54%
Severe Weather & Natural Disaster	5	0.001%
Special Incident Type	88	0.003%

Total Incidents **30,136**