

# City of Rogers

## Fire Department



### Fire Department Fleet Assessment and Deployment Plan

December 2009  
Updated July 2011  
Updated December 2013  
Updated January 2021

Fire Chief  
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## **Introduction**

The purpose of this plan is to provide a review of the fire and rescue apparatus for the City of Rogers, Arkansas. To complete this plan, all apparatus were inventoried and comparisons made to national standards from the National Fire Protection Association regarding maintenance and replacement. A proposed inventory and replacement schedule is included herein. This proposal further addresses the need to standardize the fleet for future cost reduction.

The findings and suggestions made in this plan are based on the risk found within the City of Rogers as characterized by the Rogers Fire Department Standard of Cover (2011, 2016, and 2021). It must be understood that future growth and changes in strategy for the City, may cause this plan to become partially or totally void. Any decisions relating to funding of the replacement schedule and standardization of the fleet ultimately rest with the Mayor and City Council. This document serves as a tool to help improve public safety for the citizens of Rogers.

## **Apparatus Descriptions**

Some readers may not be familiar with the differences in apparatus within the fire department. Therefore a glossary is provided.

There are three basic types of fire and rescue apparatus:

1. Pumper trucks are responsible for delivering water to the fire and carries hose and other firefighting tools.
2. Ladder trucks are responsible for forcible entry into locked buildings, search and rescue of people trapped, and ventilation of smoke from a structure. They carry portable ground ladders and have at least a 75-foot ladder mounted to the top of the truck.
3. Rescue trucks are responsible for technical rescues and hazardous materials emergencies.

Historically, the Rogers Fire Department has purchased multifunction vehicles to reduce the personnel needed for segregated emergency response units. Specifically, the department's Ladder Trucks are specially designed "quints". Quints are a single chassis that can perform the functions

of both pumpers and ladder trucks. These trucks cost more, but ultimately save the City money in personnel costs.

### Current Apparatus

The figure below reflects the current fire company apparatus fleet inventory (January 2021).

Type	Assignment	Asset Number	Apparatus Description
Pumper	Engine 2	216	2020 Rosenbauer Commander
Pumper	Engine 3	175	2012 Spartan Gladiator
Pumper	Engine 4	217	2020 Rosenbauer Commander
Pumper	Engine 6	218	2020 Rosenbauer Commander
Pumper	Engine 7	183	2013 Rosenbauer Commander
Pumper	Engine 8	182	2013 Rosenbauer Commander
Pumper	Engine 27	122	2010 Spartan Gladiator
Pumper	Engine 28	177	2012 Spartan Gladiator
Pumper	Engine 20	176	2012 Spartan Gladiator
Pumper	Not Assigned	113	1997 KME Protector
Quint	Ladder 1	220	2020 Rosenbauer Commander 78'
Quint	Ladder 5	184	2013 Rosenbauer Commander 78'
Quint	Ladder 21	178	2012 Spartan Gladiator 75'
Quint	Ladder 20	117	2005 Pierce Dash, 75'
Rescue	Rescue 2	219	2020 Rosenbauer Commander
Rescue	Collapse Rescue 1	123	2010 Spartan Gladiator

### ISO Apparatus Evaluation

The Insurance Service Office (ISO) evaluated the Rogers Fire Department in 2008, 2013, and 2020. During that evaluation, it was determined that the City required the following resources to receive maximum credit:

Resource	ISO Recommended	RFD Inventory (2013)	RFD Inventory (2021)
Engine Companies	8	6	8
Reserve Engine Companies	2	3	3
Ladder Companies	2	2	2
Service Companies*	3	3 (Ladders + Rescue)	3 (Ladders + Rescue)
Reserve Ladder Companies	1	2	2

\*Service companies perform ventilation and salvage functions in areas where a true ladder truck is not needed. In this ISO evaluation, RFD received only partial credit for Service Company functions due to lack of equipment on some of the apparatus.

Reducing the ISO rating for the City is important because of the economic development implications it can have. The City has made substantial improvement to its required apparatus for ISO purposes.

### **Apparatus Deployment**

Over the next five years, the City of Rogers is expected to open only one additional fire station. This fire station, Station 9, is slated to be located in the central section of the City and be staffed by a quint, paramedic ambulance and potentially a Battalion Chief. This apparatus is included in the assessment. When considering the ISO report of 2020, the fire department should conduct the following strategic actions regarding its fleet:

1. Station 9 should be equipped with a quint to provide redundant elevated fire protection capability.
2. All quints should continue to be outfitted with sufficient equipment to count as both service and engine companies in addition to their primary purpose as ladder companies.
3. An elevated platform for rescue and long-duration fires should be considered at Station 5, replacing the current quint when Station 9 is opened.
4. In addition to an elevated platform, a smaller "quick response" apparatus should be considered at Station 5. This apparatus could serve as a pull vehicle for the rescue boat and offer less of a workload for the ladder housed at this station.
5. A robust and sufficient reserve apparatus fleet must continue to be prioritized to ensure that adequate quantities of apparatus are available for preventative maintenance programs.
6. The heavy rescue unit (Rescue 2) should serve as an additional service company for structural fire response.
7. Automatic aid should be considered with Bentonville to improve responses on the western side of the City.
8. Automatic aid with Lowell should be maintained and potentially expanded on the south side of the City.

### **Apparatus Specifications**

The City of Rogers uses customized fire apparatus, designed by rank and file members of the fire department. These customized trucks are more expensive, but produce significantly more dividends throughout their life cycles. Besides fitting the mission of the City better, these custom apparatus also have better performance records and less maintenance cost over their life.

The apparatus purchasing process includes a committee of firefighters and officers working with predefined budget restraints. Specifications include common and consistent apparatus systems and subsystems (engines, brakes, transmissions, warning devices, pumps, valves, etc), which helps to facilitate long-term cost-savings and increased efficiency when repairs are necessary. As of this writing the design of pumpers in Rogers has undergone four revisions since the first truly customized units were designed in 2009. Ladders have undergone three revisions since 2009.

**Fleet Replacement Schedule**

Station 8 was opened in August 2020. Station 9 is expected to open between 2023 and 2025. Changes in growth patterns or annexations could escalate this replacement schedule.

Action Number	Apparatus (Company Assignment)	Manufacturer Year	Replacement Year
1	Engine 3	2012	2023
2	Ladder 5	2013	2023
3	Engine 8	2013	2023
4	Engine 7	2013	2023
5	Ladder 9	New	2024
6	Engine 2	2020	2027
7	Engine 4	2020	2027
8	Engine 6	2020	2027
9	Ladder 1	2020	2027
10	Rescue 2	2020	2028

It is expected that apparatus will continue to serve the City in a reserve capacity as they are replaced. After acquisition of the apparatus listed in the table above, the following apparatus will be declared surplus property.

- a. Asset 122 (Current Engine 27)
- b. Asset 175 (Current Engine 3)
- c. Asset 176 (Current Engine 20)

d. Asset 117 (Current Ladder 20)

**10-Year Apparatus Capital Budget**

The figure below outlines the 10-year fire apparatus capital replacement program that is presented in this document. Cost estimates for the items included are presented in increments of thousands. Numerous variables can modify the pricing of the apparatus, most notably emission requirements from the Environmental Protection Agency. The replacement dates are flexible by a few years, but take into account not only the age of the apparatus they're replacing, but also the reserve apparatus inventory. Numerous factors, including ongoing preventative maintenance, may substantially extend the usable frontline lifespan of the apparatus.

Company	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Engine 2					625						
Engine 3	515										
Engine 4					625						
Engine 6					625						
Engine 7	515										
Engine 8	515										
Ladder 1					975						
Ladder 5	975										
Ladder 9		975									
Rescue 2						1000					

**Summary**

Maintaining a healthy and reliable fleet of fire apparatus is a high priority for the department. The replacement schedule ensures that the citizens who live, work, and travel through Rogers will be protected by the finest and most dependable apparatus available. Maintenance costs can be controlled by using modern equipment and standardized systems.