



# **Northern Yamhill County Fire Departments & Districts**

**Fire District & Departments  
Consolidation Feasibility Study  
Cost Modeling  
Standards of Cover  
Strategic Implementation Plan**

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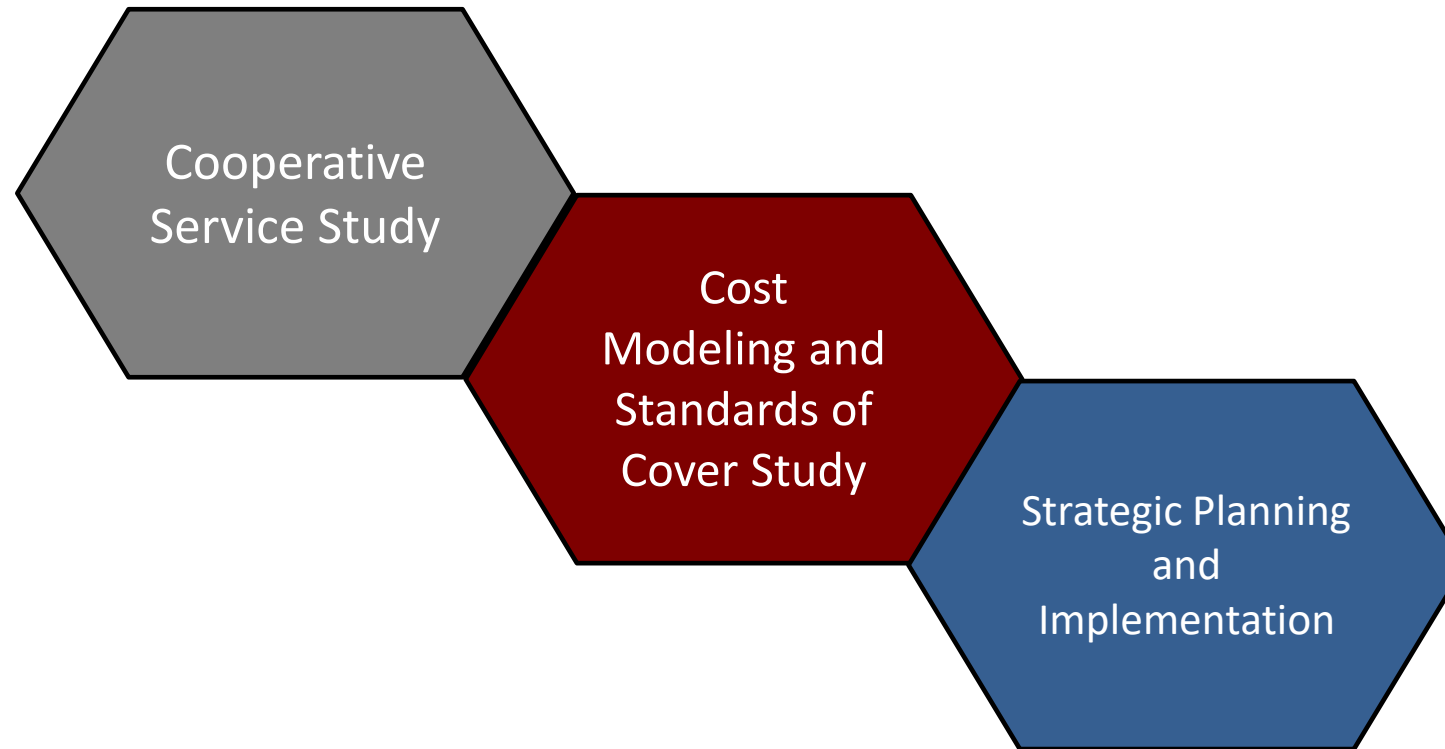
**ESCI** Emergency Services  
Consulting International

*Providing Expertise and Guidance that Enhances Community Safety*

# The Process



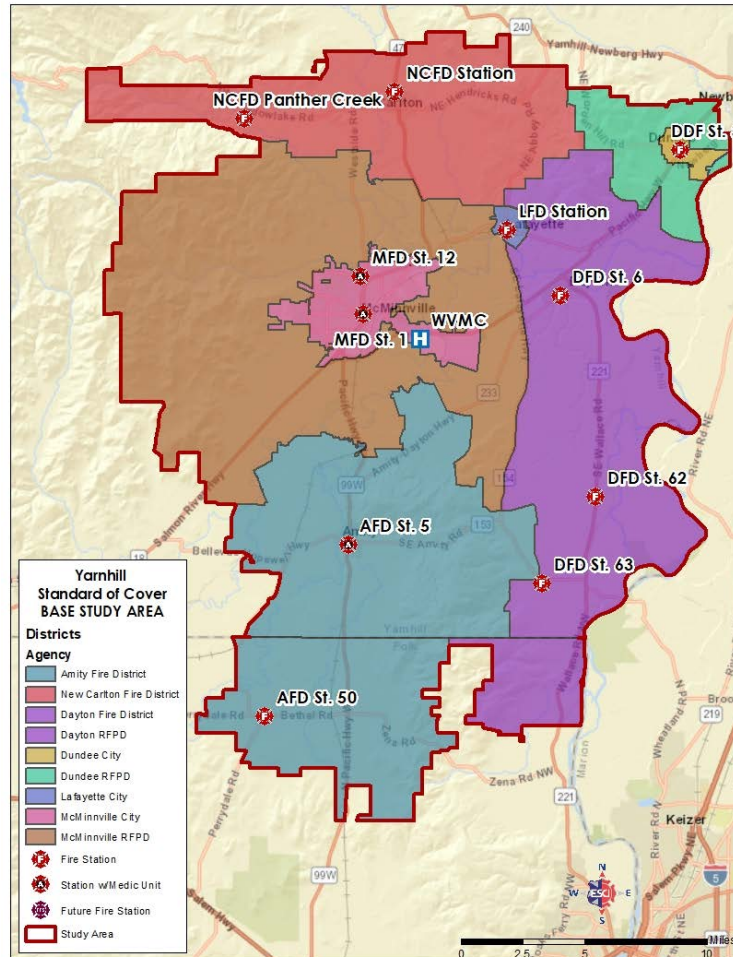
# The Process



## Study's Purpose

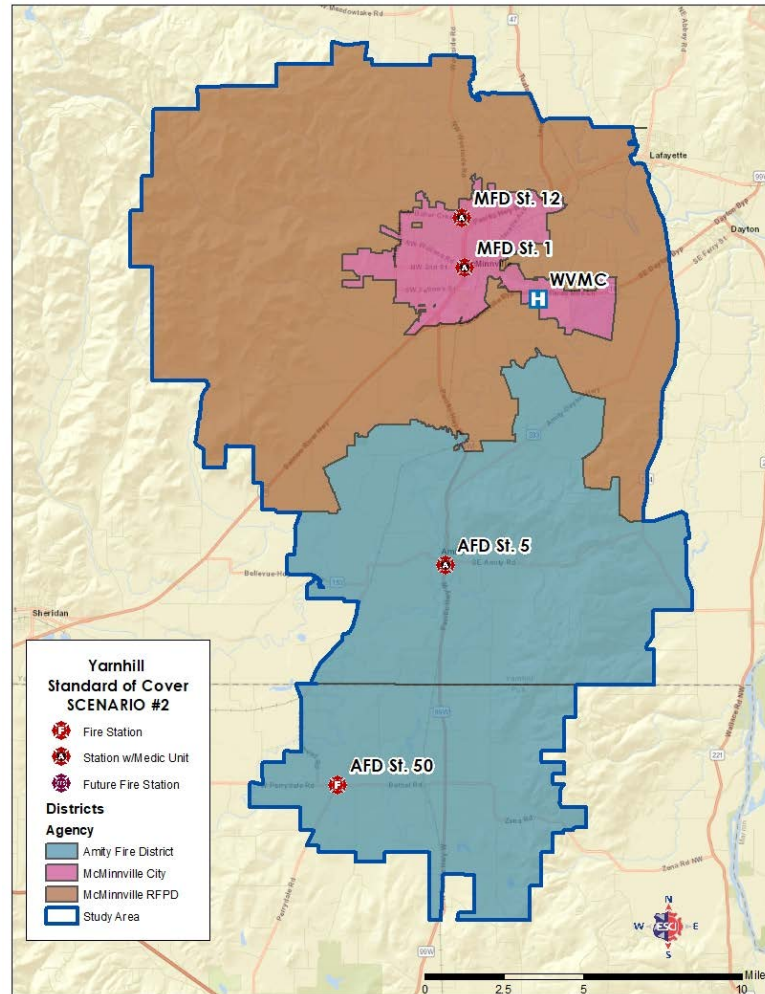
- Assess current fiscal, service level, and infrastructure conditions of each agency; provide a side-by-side comparison of existing services and processes; forecast each agency's fiscal future for the next five years
- Evaluate a base and two optional scenarios for district formation options
- Analyze these options and alternatives, evaluate the potential of the options and the opportunity for success

# Base District Scenarios



- Amity Fire District
- New Carlton Fire District
- Dayton Fire District
- Dundee Fire District
- City of Dundee
- Lafayette Fire Department
- McMinnville City
- McMinnville Rural Fire District

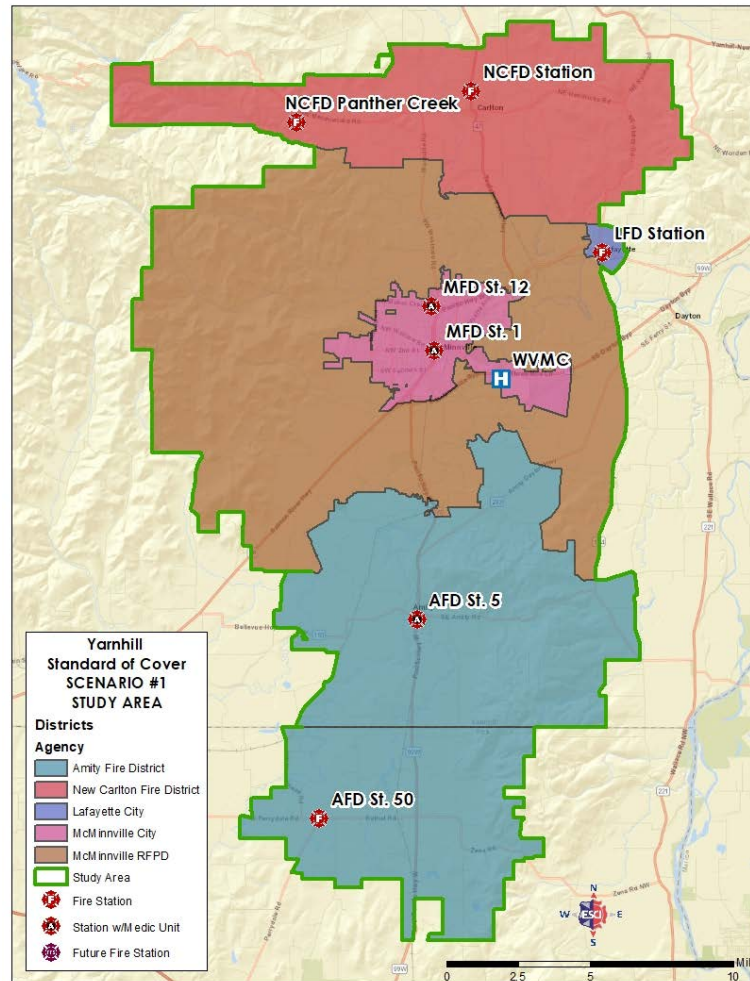
# District Scenario #1



- Amity Fire District
- McMinnville City
- McMinnville Rural Fire District



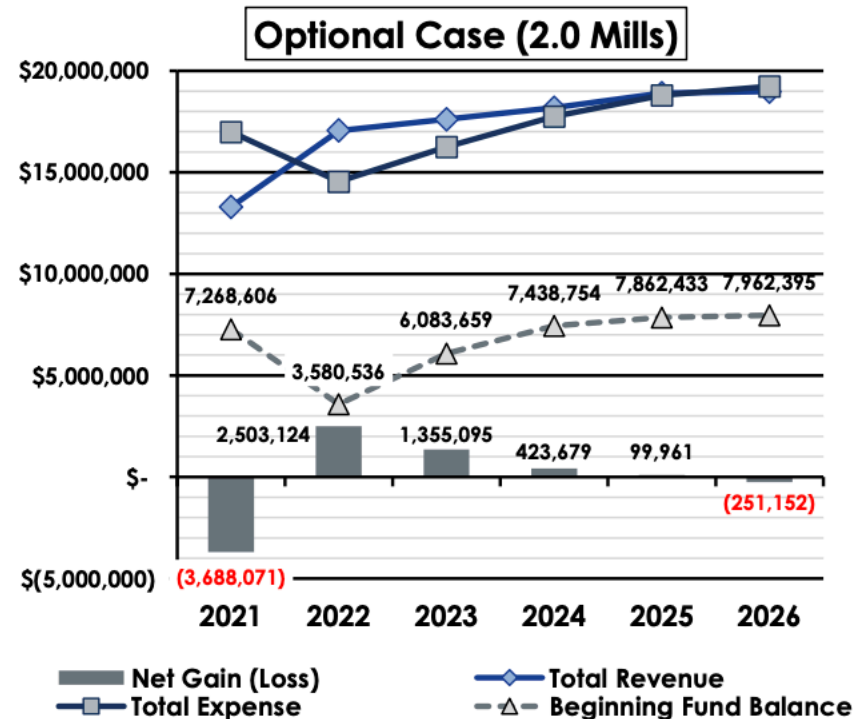
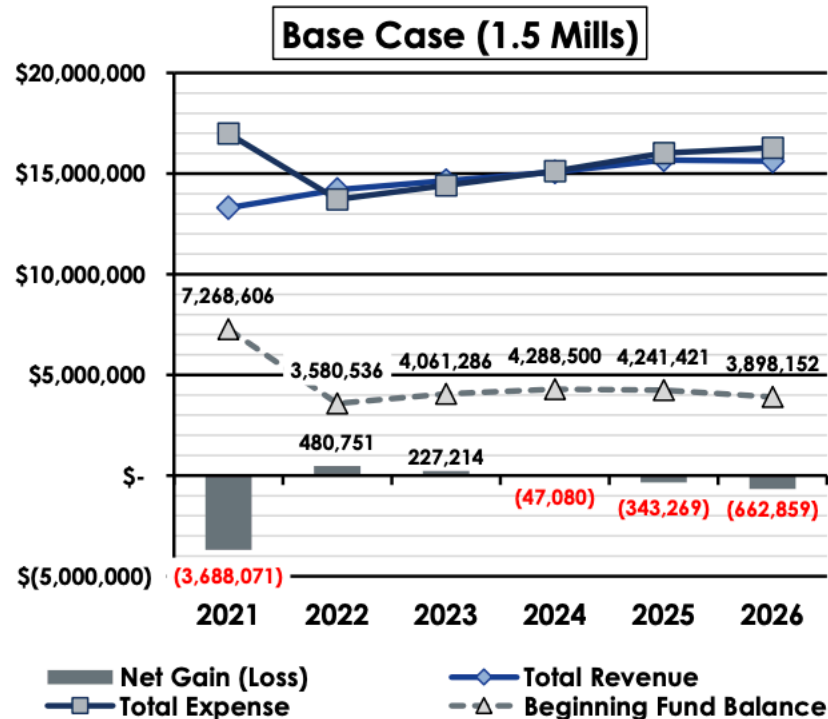
## District Scenario #2



- Amity Fire District
- New Carlton Fire District
- Lafayette Fire District
- McMinnville City
- McMinnville Rural Fire District

# Financial Analysis of Base Option

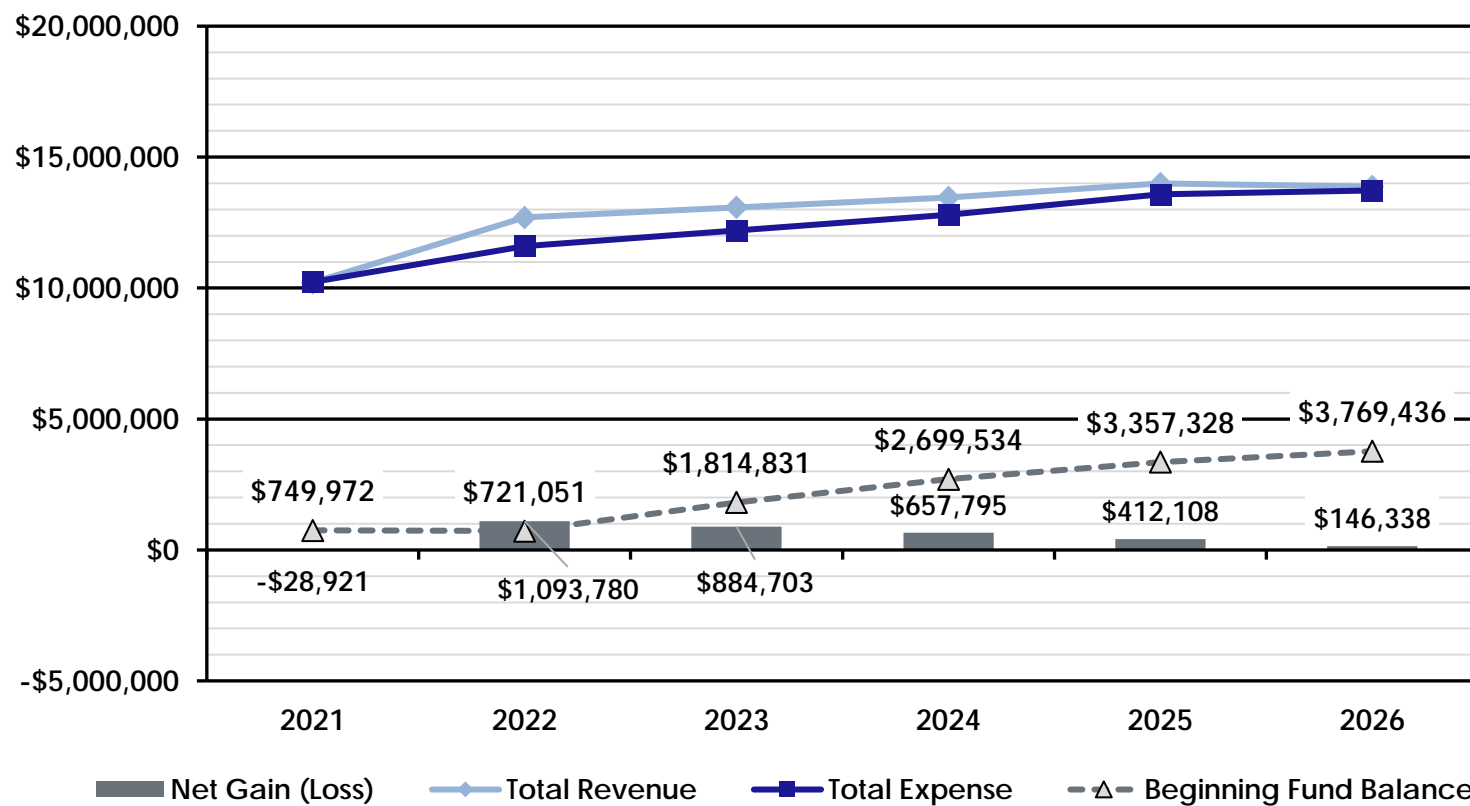
The assumed effective, permanent levy rate in the base case for the North Willamette Valley Fire District model is 1.5 mills and 2.0 Mills per 1,000 AV for the forecast period FY 2022–26





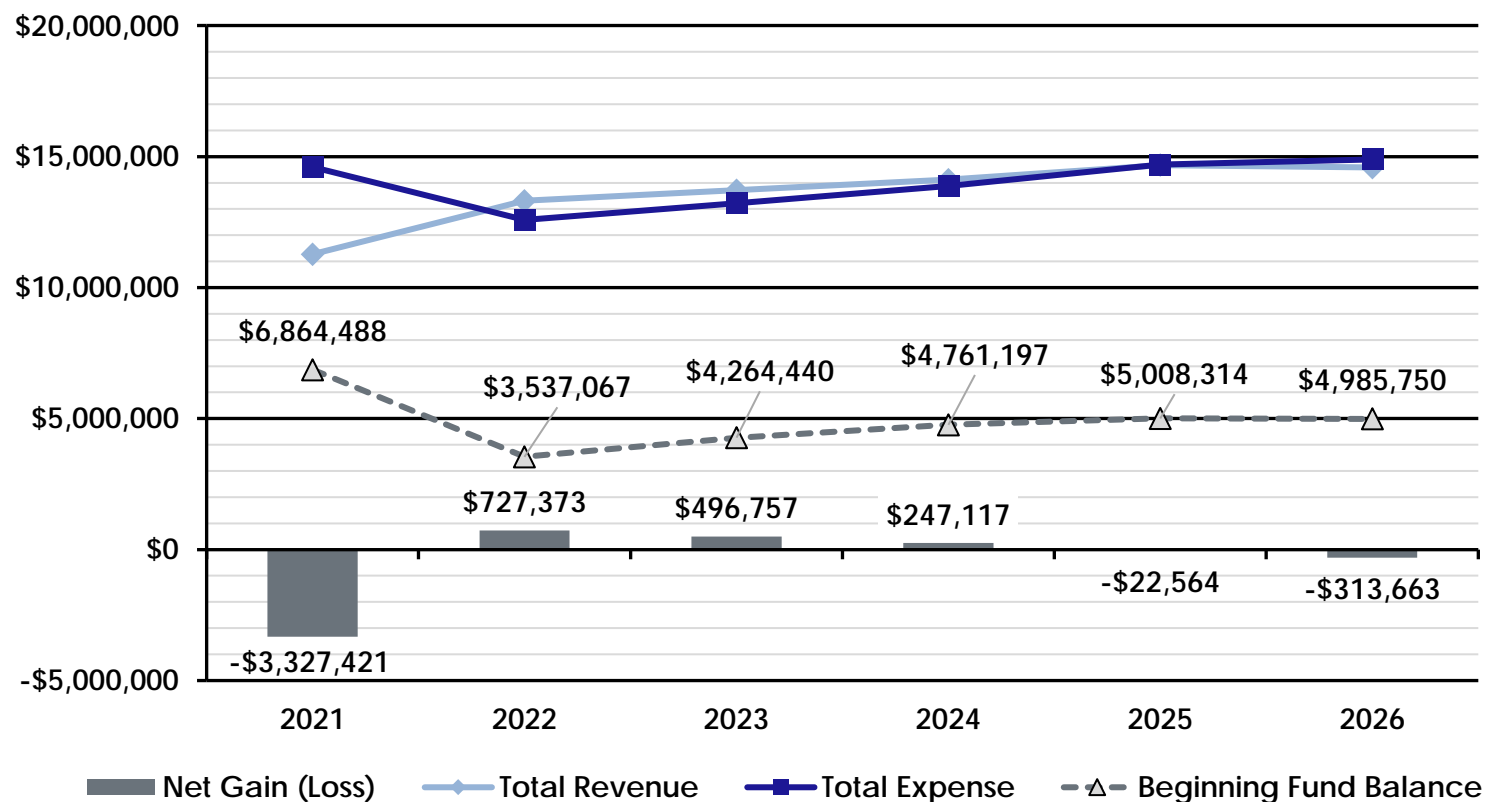
# Subsequent Modeling of Scenario 1 at 1.5 Mills

## McMinnville, McMinnville Rural, Amity



## Subsequent Modeling of Scenario 2 at 1.5 Mills

### McMinnville, McMinnville Rural, Amity, Lafayette, New Carlton



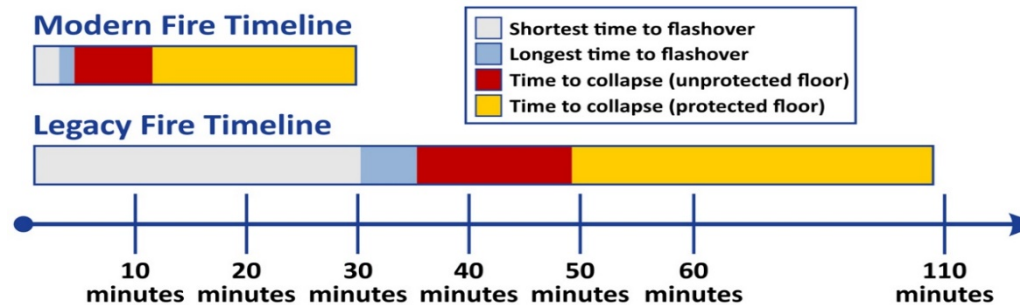
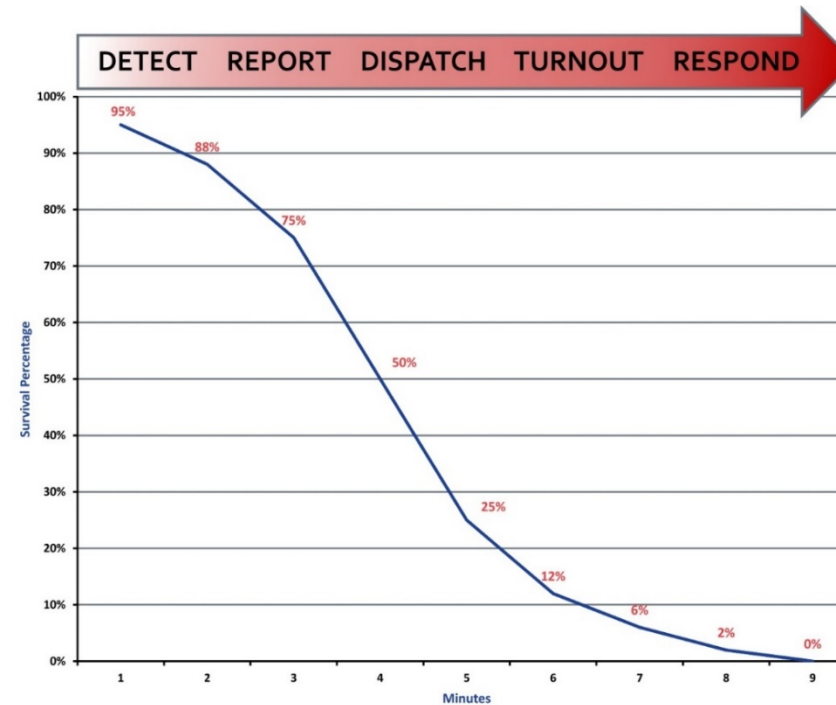
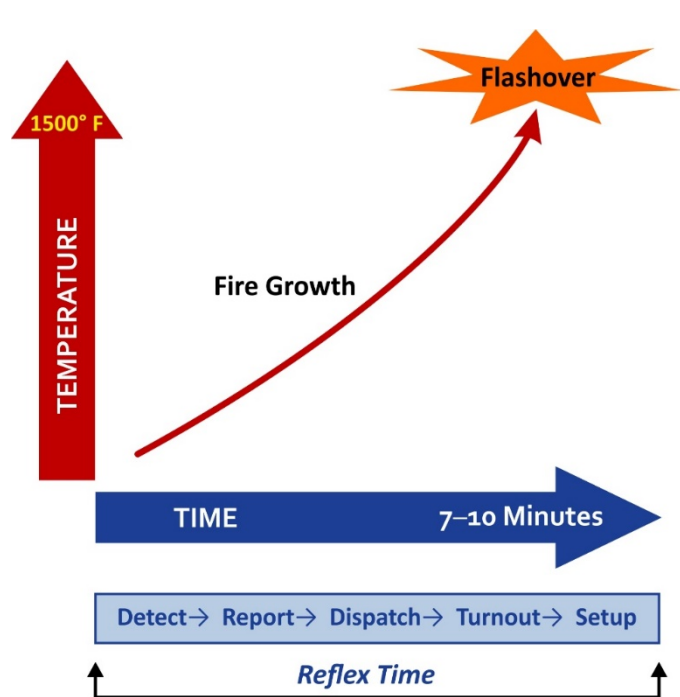
## Mills and FTEs with Updated Values

Model	Mill Rate	FTEs Over 5-Year Period
Base	1.5/1.8	10/28
Scenario 1	1.8	20
Scenario 2	1.67	15

## Standard of Cover Findings /Observations

- Each agency has made significant effort to meet the service delivery needs of the communities served
- There are distinctive risk and response attributes that cover Urban/Suburban, Rural, and Wilderness response elements
- There is significant variation in the level of capabilities and resources within the participating agencies
- There is significant potential for standardization, enhanced coordination, and increased capabilities through a unified fire district

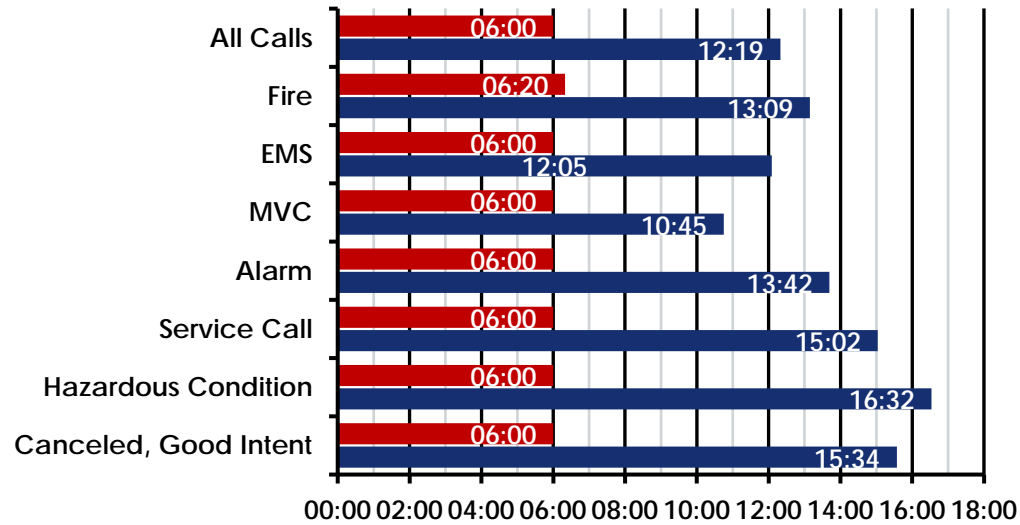
# Why Do We Need Quick and Adequate Response?



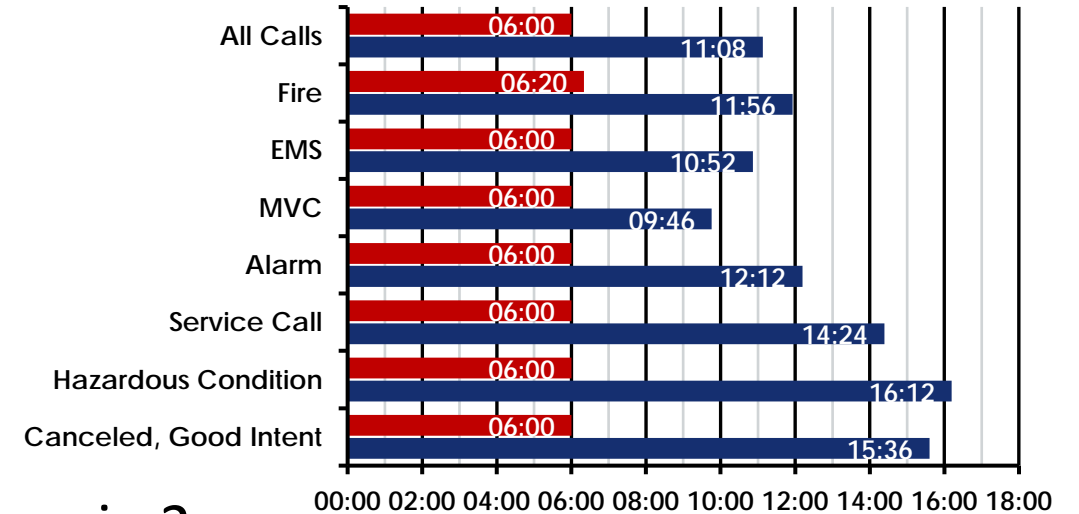
Source: Underwriters Laboratories

# SOC Resource Performance

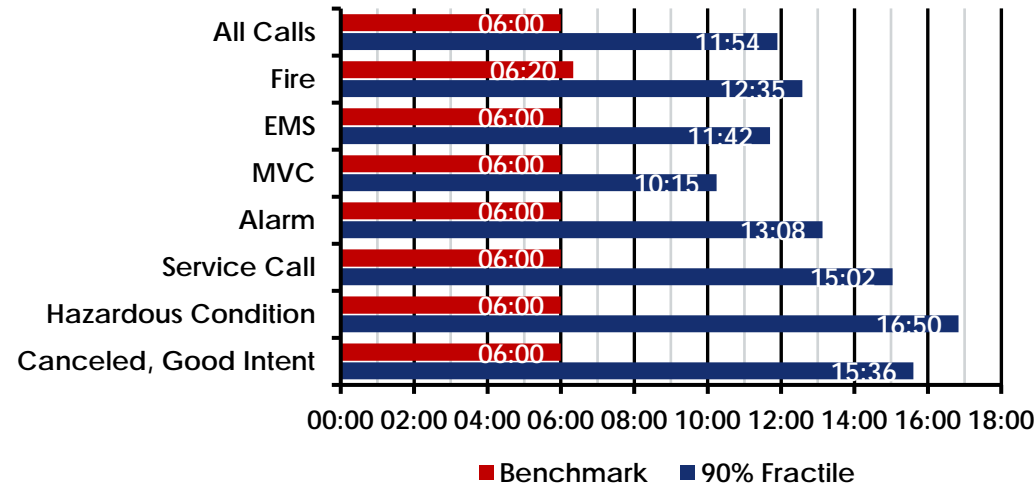
## Base



## Scenario 1



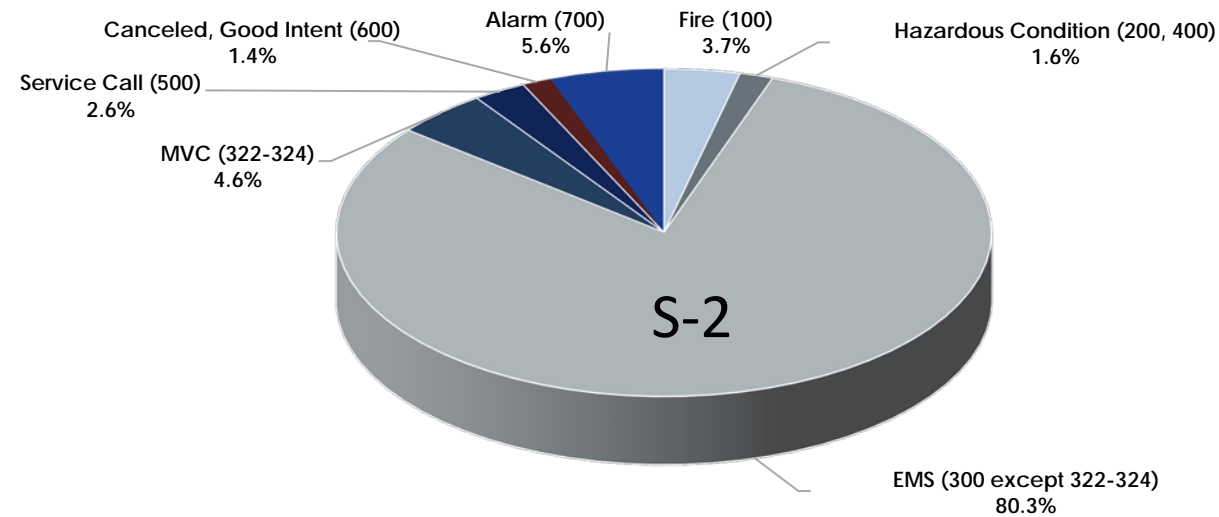
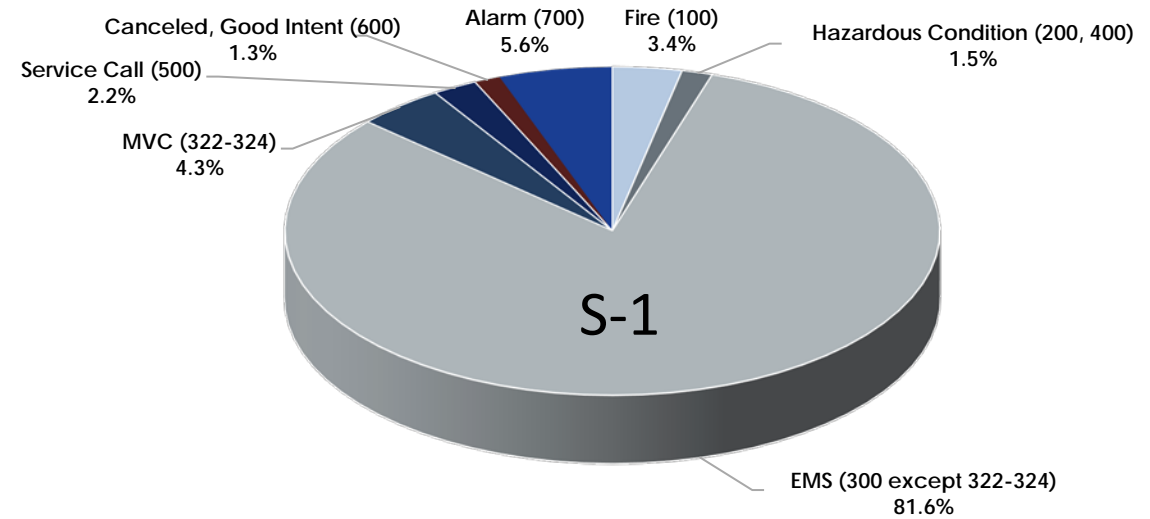
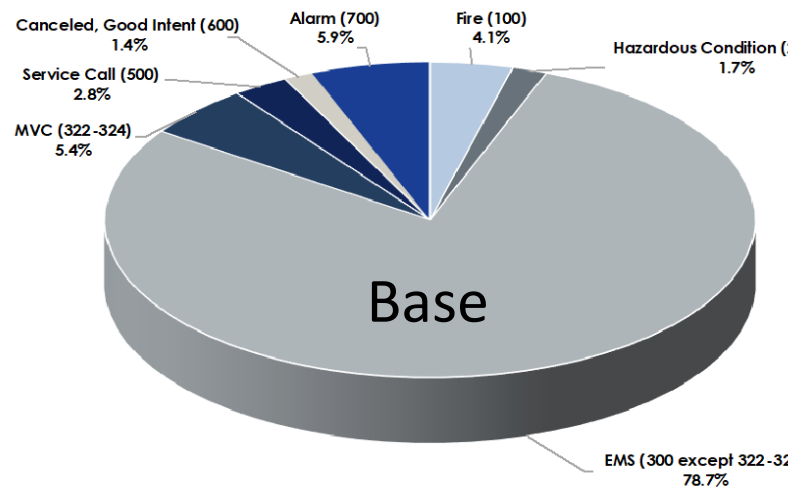
## Scenario 2



■ Benchmark ■ 90% Fractile

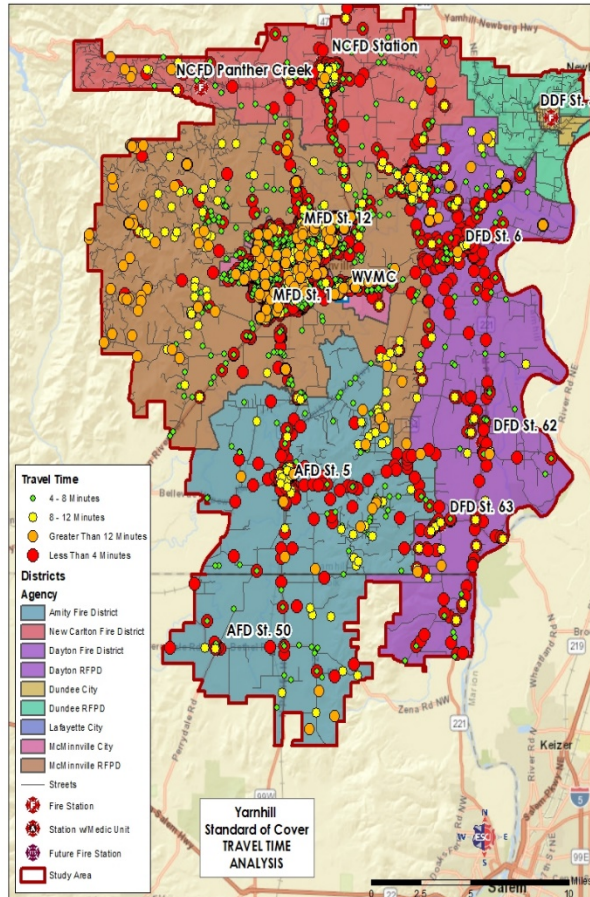


# What Kind of Calls?

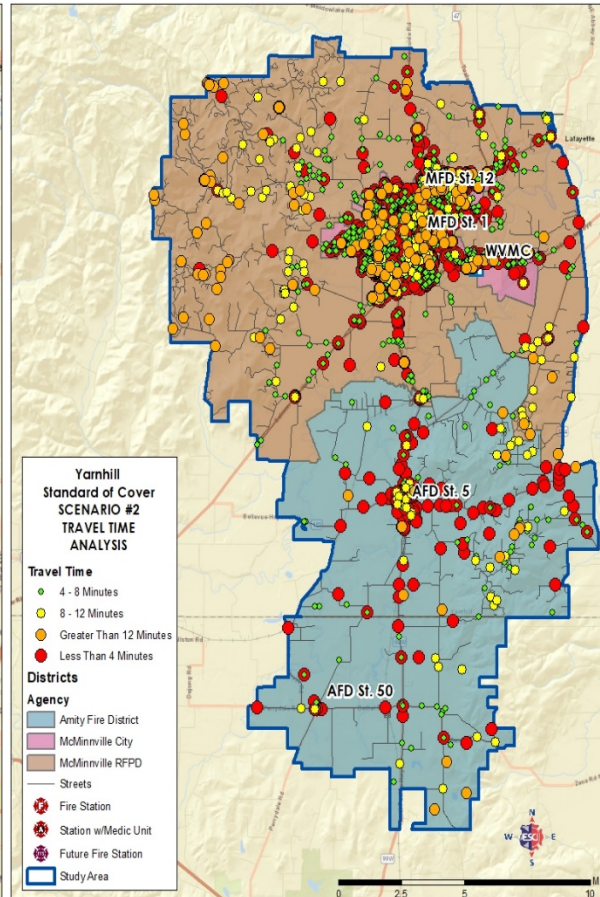


# Resource Distribution Actual First Unit Travel Time

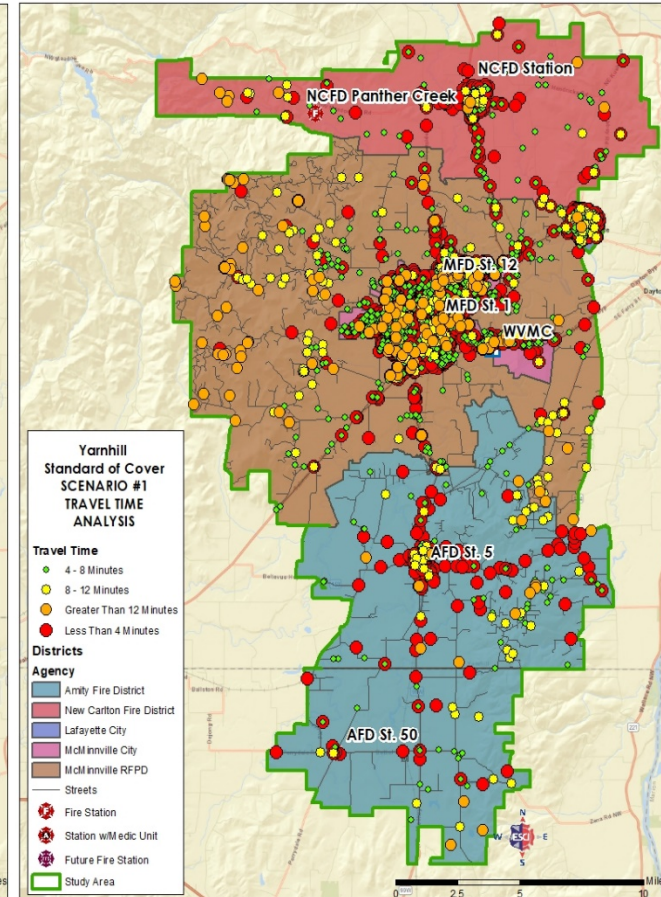
Base 4 Minutes 67.89%



S-1 4 Minutes 67.18%



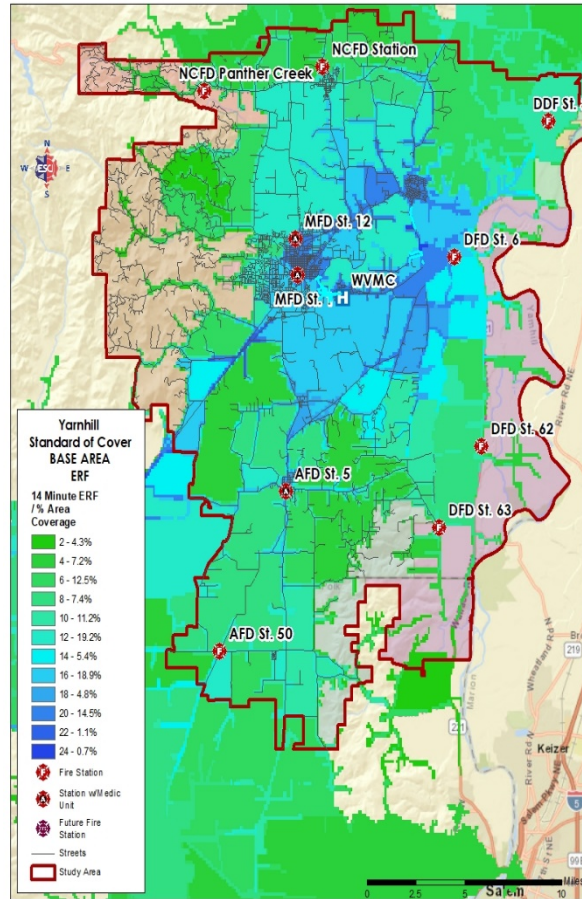
S-2 4 Minutes 67.57%



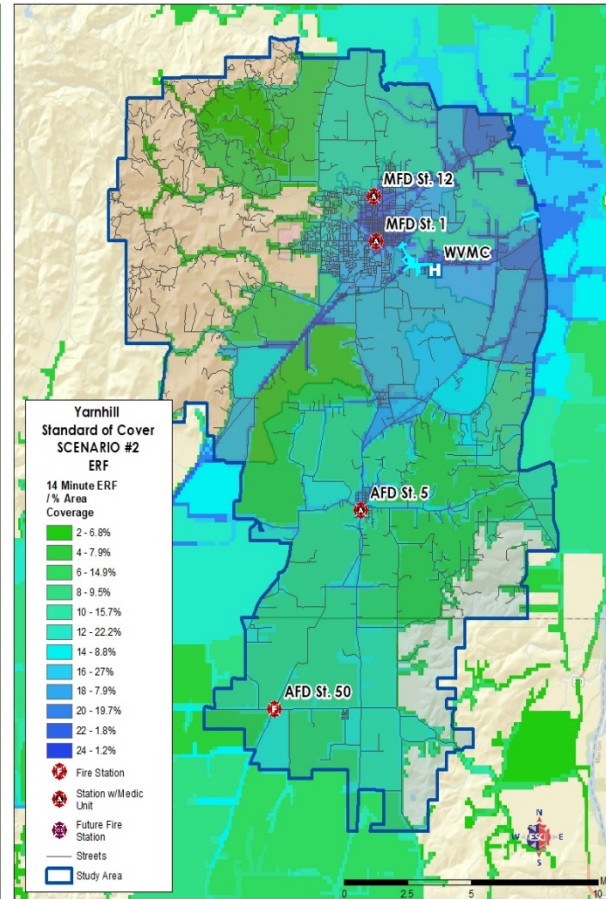


# Resource Concentration 14-Minute Effective Response Force

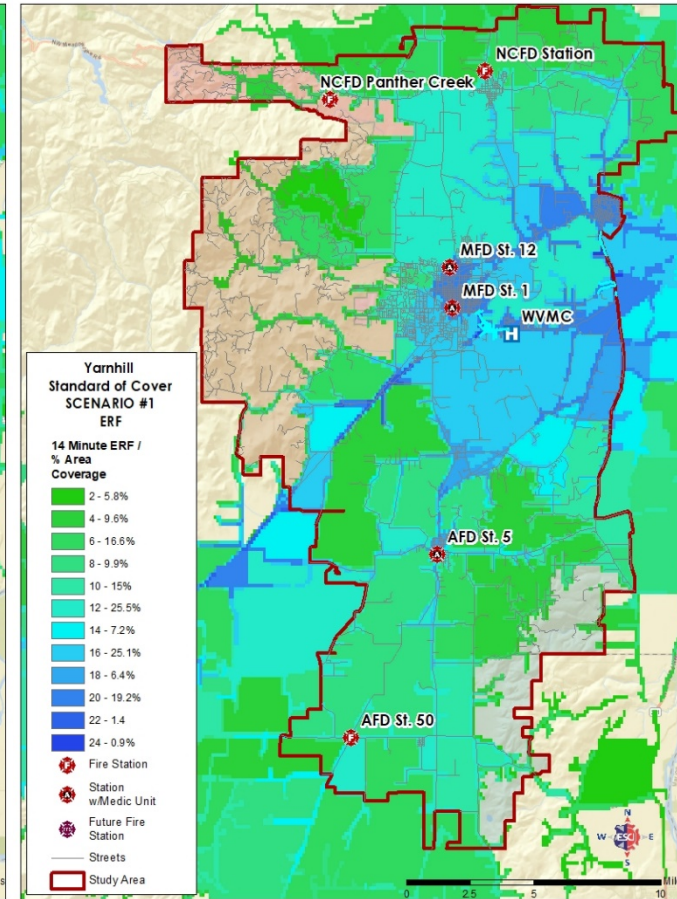
Base 40%



S-1 57.6%



S-2 53%



# SOC Reliability 25% = System Stress

Unit	2019	2020	Change Over Study Period
M1	18.11%	16.67%	-1.44%
M10	17.70%	15.83%	-1.87%
M12	22.86%	22.52%	-0.34%
M13	0.37%	0.33%	-0.04%
M181	0.21%	0.15%	-0.06%
M182	0.00%	0.23%	0.23%
M191	0.34%	1.14%	0.80%
M192	0.07%	0.00%	-0.07%
M193	0.03%	0.31%	0.28%
M20	0.06%	0.82%	0.77%
M21	0.00%	0.01%	0.01%

Unit	2019	2020	Change Over Study Period
E1	9.02%	8.56%	-0.46%
E10	1.83%	1.55%	-0.28%
E101	0.17%	0.17%	-0.01%
E14	1.16%	1.21%	0.05%
E15	0.17%	0.00%	-0.17%
E16	0.36%	0.25%	-0.11%
E191	0.00%	0.11%	0.11%
E198	0.03%	0.08%	0.06%
E20	0.01%	0.08%	0.07%
E21	0.03%	0.00%	-0.03%
E30	0.20%	0.19%	0.00%
E31	0.14%	0.01%	-0.13%
E32	0.03%	0.01%	-0.02%
E4	0.20%	0.20%	0.01%
E41	0.00%	0.05%	0.05%
E42	0.16%	0.04%	-0.12%
E43	0.12%	0.00%	-0.12%
E5	1.12%	0.93%	-0.19%
E51	0.36%	0.34%	-0.02%
E53	0.24%	0.25%	0.00%
E54	0.02%	0.00%	-0.02%
E6	0.49%	0.95%	0.46%
E61	1.13%	0.58%	-0.55%
E62	0.30%	0.26%	-0.04%
E63	0.51%	0.37%	-0.15%
E64	0.29%	0.00%	-0.29%
E7	1.61%	1.09%	-0.52%
E74	0.45%	0.34%	-0.10%
E77	0.17%	0.16%	-0.01%
E8	0.00%	0.00%	0.00%
E9	0.02%	0.00%	-0.02%
E98	0.10%	0.00%	-0.10%
SWE137	0.00%	0.04%	0.04%

## 2021 YTD 911 Calls

**M12 27%**

M1 19.334%

M10 19.45%

## Overall Initial Recommendations

- Establish Urban/Suburban, Rural, and Wilderness ERZs
- Adopt Urban/Suburban, Rural, and Wilderness Response Goals
- Enhance 24/7 station coverage with paid staff and volunteer incentive programs
- Work with YCCOM911 to validate stated performance and identify call processing and EMD/tiered response measures for improvement
- Evaluate turnout time components, identify impedance factors, and reduce turnout time

## Additional Base Scenario Recommendations

- Reduce Fire District-wide travel time and ERF performance by providing 24/7 staffing as follows:
  - Additional staffed McMinnville Truck Company (ERF)
  - Staffed Lafayette Engine
  - Staffed Amity Engine at Station 5
  - Staff Dundee Engine 24/7



## Additional Scenario 1 Recommendations

- Reduce Fire District-wide travel time and ERF performance by providing 24/7 staffing as follows:
  - Additional staffed McMinnville Truck Company (ERF)
  - Staffed Amity Engine at Station 5

## Additional Scenario 2 Recommendations

- Reduce Fire District-wide travel time and ERF performance by providing 24/7 staffing as follows:
  - Additional staffed McMinnville Truck Company (ERF)
  - Staffed Engine at Amity Station 5
  - Staffed Engine Company at New Carlton

# Strategic Implementation Planning

- Initial Planning Session Conducted
- Seven Initiatives, Goals, Objectives established
  - Governance
  - Service Delivery
  - Training
  - Funding
  - Community Engagement
  - Communications and Radio
  - Fire Prevention and EMS

**Implementation Task Book Completed**



**Emergency Services  
Consulting International**

Northern Yamhill Consolidation Study

2020

**Implementation Plan**



**Emergency Services  
Consulting International**

Providing Expertise & Guidance that Enhances Community Safety

## Implementation Process (Now What?)

- Agency commitment to move forward
- Establish Joint Implementation Committee
- Finalize the Strategic Implementation Plan
- Establish Implementation Working Groups
- Use the report, financial, and SOC data to move forward
- Meet, Identify, Challenge, Refine, and Overcome

# Discussion