

2016 SAFER Grant

Staffing for Adequate Fire and Emergency Response

2016 SAFER Grant

- Department of Homeland Security grant
 - Initial Federal authorization in 2001
 - Volunteer fire department recruiting
 - Career fire department NFPA 1710 compliance without resorting to overtime

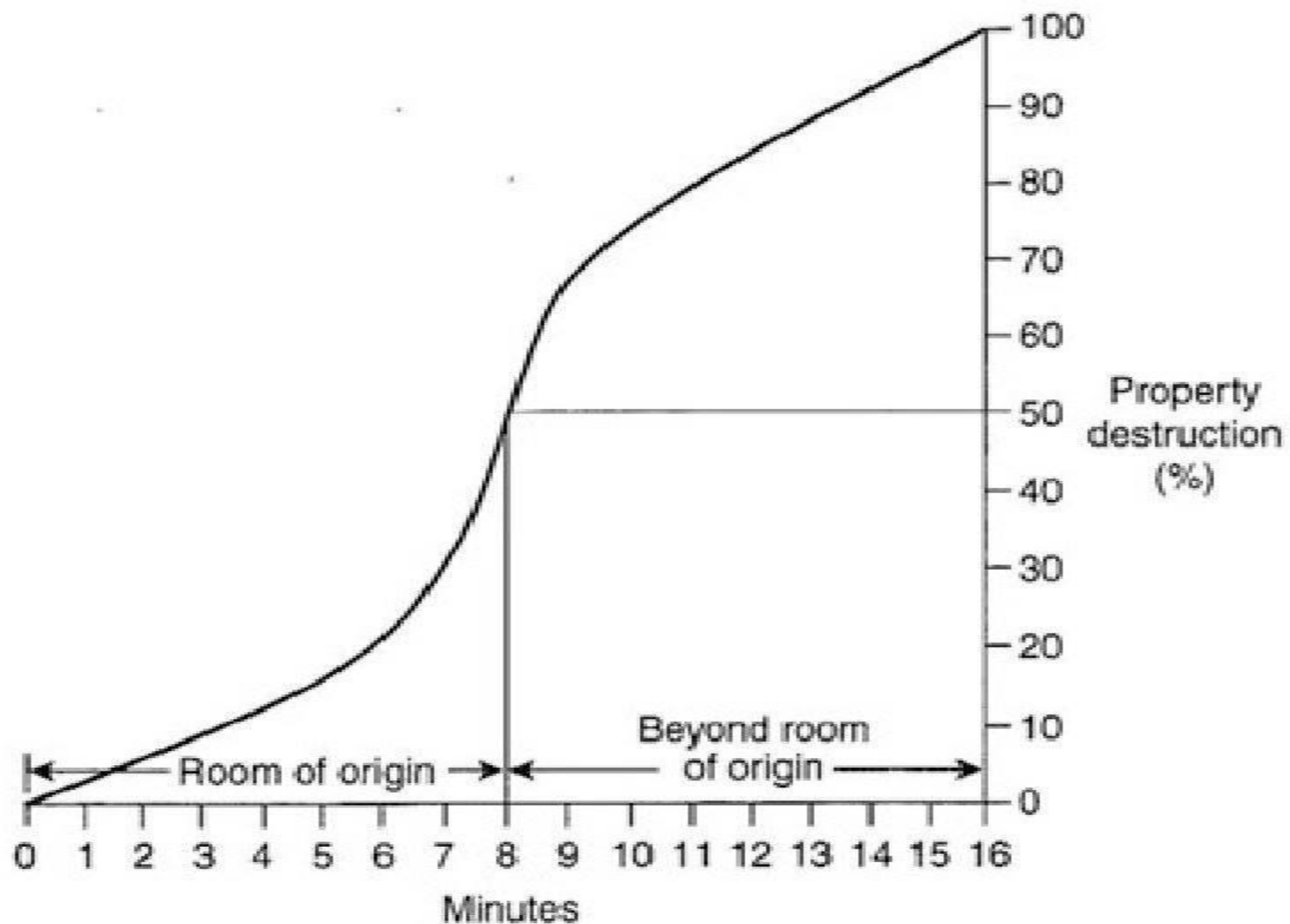
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- National Fire Protection Association
*1710 Standard for the Organization
and Deployment of Fire Suppression
Operations, Emergency Medical
Operations, and Special Operations
to the Public by Career Fire
Departments*

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- NFPA 1710
 - National consensus minimum standard
 - Fifteen firefighters in eight minutes traveling, 90% of the time, to provide personnel resources to accomplish key initial actions

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Fire Propagation Curve.

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- NFPA 1710 initial actions:
 - Incident command (1)
 - Water supply (1)
 - Deployment and support of two hose lines (6)
 - Search and rescue (2)
 - Ventilation (2)
 - Special operations (1)
 - Rapid intervention (2)
- WSFD complies 56% of the time; current 90th percentile travel for 15 personnel is 12:02

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NFPA 1710:

“The ability of adequate fire suppression forces to significantly influence the outcome of a structure fire is undeniable and predictable...rapid and aggressive interior attack can substantially reduce the human and property losses associated with structure fires.”

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National Institute of Standards and Technology:

“Four-person firefighting crews were able to complete 22 essential firefighting and rescue tasks in a typical residential structure 25 percent (5:06) faster than three-person crews.”

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One additional firefighter on the following companies:

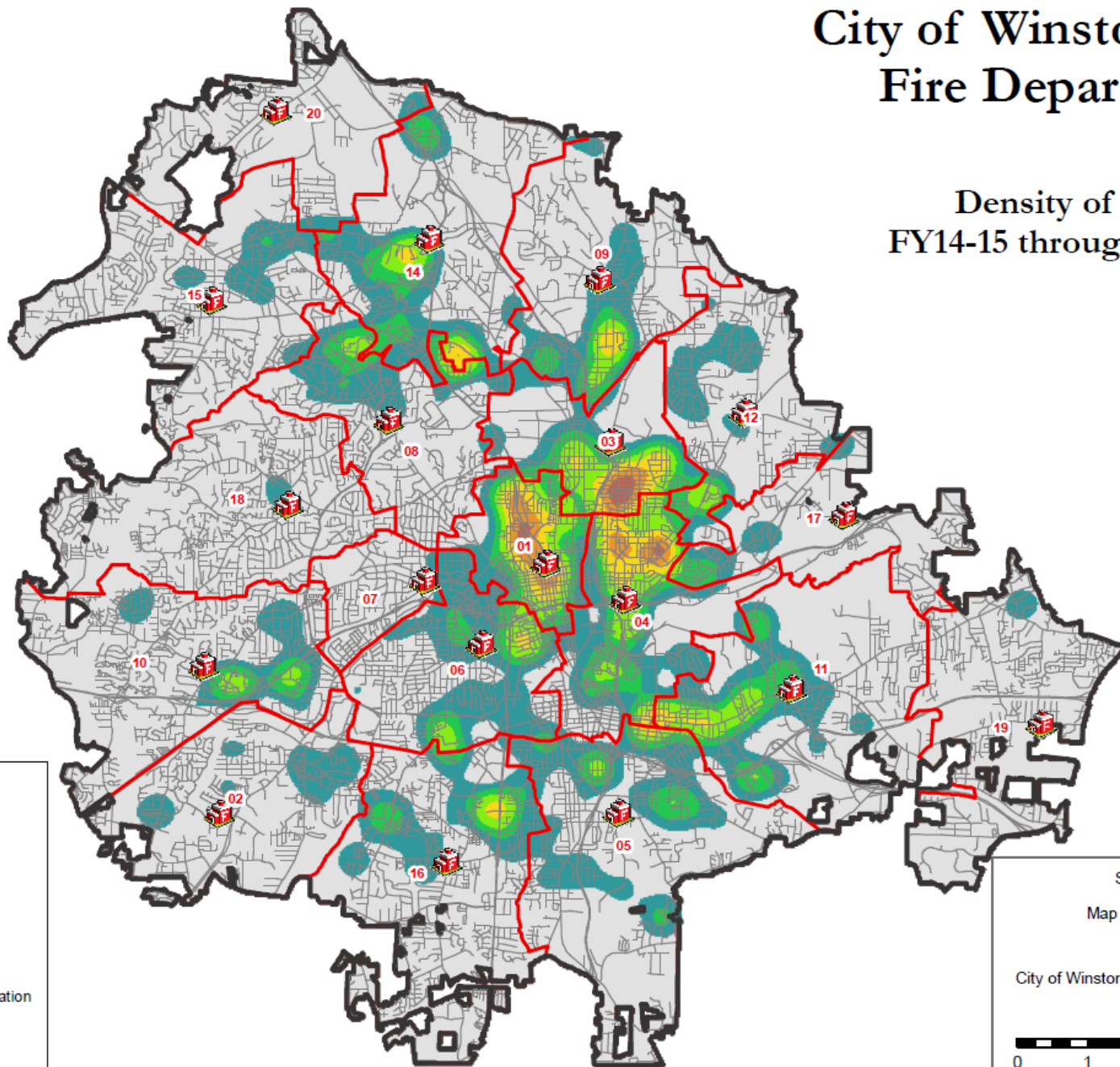
- Engine 3 (Liberty St.)
- Engine 4 (MLK, Jr. Blvd.)
- Engine 11 (Waughtown St.)
- Rescue 1 (Arbor Rd.)
- Truck 18 (Peace Haven Rd.)

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- The companies that would receive SAFER staffing answer 66.1% of working fires
- First three arriving engines would deliver the personnel of four engines

City of Winston-Salem Fire Department

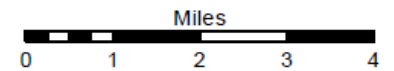
Density of Fires
FY14-15 through FY16-17



- Fire Station
- Home Territory
- Density of Fires**
- No Concentration
- Low Concentration
- Moderate Concentration
- High Concentration
- Very High Concentration
- Streets
- City of Winston-Salem

Select NFIRS Codes Only
Map Created August 24, 2017

Data Source:
City of Winston-Salem Fire Department,
MapForsyth



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Grant guidance

- 2010 through 2015
 - Two-year period of performance
 - No local match
- 2016
 - Three-year period of performance
 - 25%-25%-65% local match

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- Financial impact
 - \$2,118,600 total project, including ~\$813,000 match
 - FY18: \$70,000 + \$90,000 for training & equipment
 - FY19: \$176,000
 - FY20: \$286,000
 - FY21: \$281,000

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- Recommendations
 - Accept the grant
 - Measure impact of SAFER staffing on NFPA 1710 compliance and operational performance through June 30, 2021
 - Based on data, maintain the increased staffing or eliminate the positions and absorb the employees through attrition