CITY OF WINSTON-SALEM
FIRE DEPARTMENT

Chief Trey Mayo
Learning Objectives

1. High-level WSFD overview
2. America’s fire problem
3. Polyester as a quality-of-life enhancement
4. How to remove the oily film from inside your windshield
5. What ever will I do?
WSFD at a Glance

Five branches:
• Administration
• Fire & Life Safety
• Logistics
• Operations
• Safety, Training & Special Operations
WSFD at a Glance

• Administration
• Visioning / goal setting
• Planning
• Accreditation
• Budgeting
• Community outreach
• Human resources
• Payroll
WSFD at a Glance

• Fire & Life Safety
  • Fire marshal
  • Deputy fire marshal
  • Fire & life safety educator
  • 3 plan reviewers
  • 4 fire inspectors
  • 10 fire investigators
WSFD at a Glance

• Logistics
  • Station & apparatus design, construction, maintenance
• Equipment maintenance & repair
  • +/- 800 sets of turnout gear
  • 196 SCBA & 462 air bottles
  • 370 radios
  • +/- 350 small engines
  • 77,616 feet of hose
WSFD at a Glance

- **Operations**
  - 339 personnel
  - 19 fire stations + Fire Station 13
  - 24 apparatus
    → 18 engines
    → 5 ladders
    → 1 heavy rescue
  - 12 chief officers
  - 3 safety officers
WSFD at a Glance

- Safety, Training & Special Operations
  - OSHA & NFPA compliance
  - Emergency medical program
  - Continuing education
  - Recruitment, hiring, promotions
  - Fire academy
  - Hazardous materials, water, rope, confined space, trench, collapsed-structure rescue
Helmet Camera Program
America’s Fire Problem
America’s Fire Problem

• 10th highest death rate among industrialized nations

• Fire every 24 seconds

• 79% of fires and fire deaths occur in the home
Fires, Fire Deaths, Fire Loss (2010-2019)

• Fires ↓ 3.2%
• Injuries ↓ 12.5%
• Deaths ↑ 24.1%
• Dollar loss ↑ 74.5% (adjusted)
Top Ignition Sources (2019)

• Cooking (62%)
• Heating (15%)
• Carelessness (13%)
• Electrical (5%)
“America’s fire problem is in the home.”

-National Fire Protection Association
“America’s fire problem is inversely proportional to socioeconomic status.”

- US Fire Administration
“America’s fire problem is that there aren’t enough volunteer firefighters.”

-National Volunteer Fire Council
“America’s fire problem is that there aren’t enough career firefighters.”

–International Association of FFs
“America’s fire problem is that the model building codes don’t require residential fire sprinklers.”

—National Fire Sprinkler Coalition
“America’s fire problem is that there isn’t enough Federal funding for fire departments.”

-Congressional Fire Services Institute
“America’s fire problem is that Americans don’t fear fire.”

-Fire Chief Trey Mayo
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THE MODERN FIRE ENVIRONMENT
CONTENTS OF YOUR HOME
Circa 1970
WHAT HAPPENED?
CONTENTS OF YOUR HOME
Circa 1995 to present
A compound of hydrogen and carbon, such as any of those that are the chief components of petroleum and natural gas.
Plastics

High-Density Polyethylene (HDPE)
(furniture, storage containers, housewrap, plastic bags & bottles, lumber)
\((\text{C}_2\text{H}_4)_n\)

Polyvinyl Chloride (PVC)
(piping, vinyl siding, window frames, flooring, clothing)
\((\text{C}_2\text{H}_3\text{Cl})_n\)

Polypropylene
(roofing, furniture, bottles, packing materials, clothing)
\((\text{C}_2\text{H}_6)_n\)
Nylon

$C_{12}H_{22}N_2O_2$
Polyester

HO—(CH₂)₂—OH
Vinyl

H₂C=CH₂
Polyurethane

C$_{27}$H$_{36}$N$_2$O$_{10}$
Gasoline
Isooctane $C_8H_{18}$
Butane $C_4H_{10}$
4-Ethyltoluene $C_9H_{12}$
Methyl tert-butyl ether $C_5H_{12}O$
Polyurethane

C_{27}H_{36}N_{2}O_{10}
Fuel safety, storage and disposal tips
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