



MIKE CAUSEY
INSURANCE COMMISSIONER

BRIAN TAYLOR
STATE FIRE MARSHAL

August 29, 2025

The Honorable Norman W. Sanderson
Senator
300 N. Salisbury Street, Room 309
Raleigh, North Carolina 27603

The Honorable Jimmy Dixon
Representative
16 West Jones Street, Room 2226
Raleigh, North Carolina 27601-1096

Re: 2025 Report on the Management of Aqueous Film-Forming Foams

Dear Senator Sanderson and Representative Dixon:

Pursuant to G.S. § 58-82B-15, please find enclosed herewith the Office of State Fire Marshal's (OSFM) report to the Environmental Review Commission on the management of aqueous film-forming foams (AFFF). The report provides the statutorily required information on the utilization and inventory of AFFF by fire departments across the State.

The General Assembly has my gratitude for its continued commitment to support our State's firefighters. I thank you for allowing the OSFM to have a role in this important program.

Respectfully,

Brian Taylor

Brian Taylor
State Fire Marshal

OFFICE OF STATE FIRE MARSHAL



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ANNUAL REPORT TO THE ENVIRONMENTAL REVIEW COMMISSION

Covering the period from September 1, 2024, to August 31, 2025

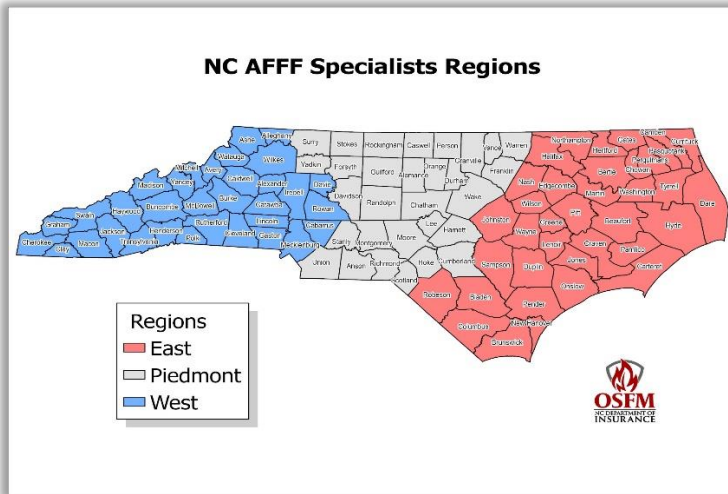
Pursuant to the North Carolina General Statute (G.S.) 58-82B, the Office of the State Fire Marshal (OSFM) submits this annual report on the progress of the mandatory reporting of Aqueous Film-Forming Foam (AFFF) usage and inventory by the North Carolina Fire Departments and the creation of an online portal to track foam usage from the period of September 1, 2024, to August 31, 2025.

Overview

The North Carolina Office of State Fire Marshal has made considerable progress meeting the requirements/duties of (G.S.) 58-82B .5-10. The AFFF division has inventoried 2013 fire departments and substations in NC or 95% of all stations and reported 104,085 gallons contained at those 2013 sites. There was a total of 58 agencies who reported 83 incidents into the NC Elite incident reporting system. The following annual report will provide further details on the utilization and inventory of AFFF by fire departments across the state from September 1, 2024, to August 31, 2025.

AFFF Division – OSFM created the Aqueous Film- Forming Foams Division consisting of three regional Foam Research Analysts who report to the Chief of Inspections/ Ratings Grants & AFFF. The mission of the AFFF Division is “to assist all NC fire departments with accurate reporting of quantities stored and/or used, locations of, and potential exposures from AFFF. Provide education on the health and environmental effects of AFFF”.

Figure1. AFFF Regional map



Usage Reporting- The “Elite” program developed by the company Image Trend is used as the North Carolina statewide repository for the National Fire Incident Reporting System (NFIRS). OSFM collaborated with Image Trend to add an additional section to the basic incident reporting module in the Elite program to account for AFFF used during a fire incident. The data design for the additional AFFF data module was developed with the assistance of the NC Collaboratory.

Figure 2. The user selects “yes” when foam was used during an incident.

Incident District:

Alarms:

Primary Action Taken:

Additional Actions Taken:

Was AFFF foam used at this incident?:

Figure 3. When the use of foam has been verified, the application gives the user a form to complete the addition information.

AFFF Usage

AFFF - Trade Name:

AFFF - Container CAS/Chemical Abstract Service Registry Number:

AFFF - What is the Unit/Apparatus ID of the vehicle that carried the AFFF?:

AFFF - Why was AFFF used/deployed?:

AFFF - How much water was used/deployed? (Gallons):

AFFF - How much AFFF was used/deployed? (Gallons):

AFFF - What concentration of AFFF was used?:

AFFF Inventory data collection – OSFM and NC Collaboratory staff developed a standard set of data points in accordance with (G.S.) 58-82B.15 to be inventoried at each fire department across NC. To collect this information, OSFM developed a digital form and underlying database to store the data.

Inventory and Usage Dashboard – OSFM created a dashboard for the foam analyst to keep track in real time of all the sites they inventoried, how many sites they had left to visit, and geographically represents all the usage incidents that have been reported in the Elite system. In addition to tracking inventory, the dashboard was intended as a quick data visualization for administration to keep up with the project progress.

Figure 4. Inventory Dashboard

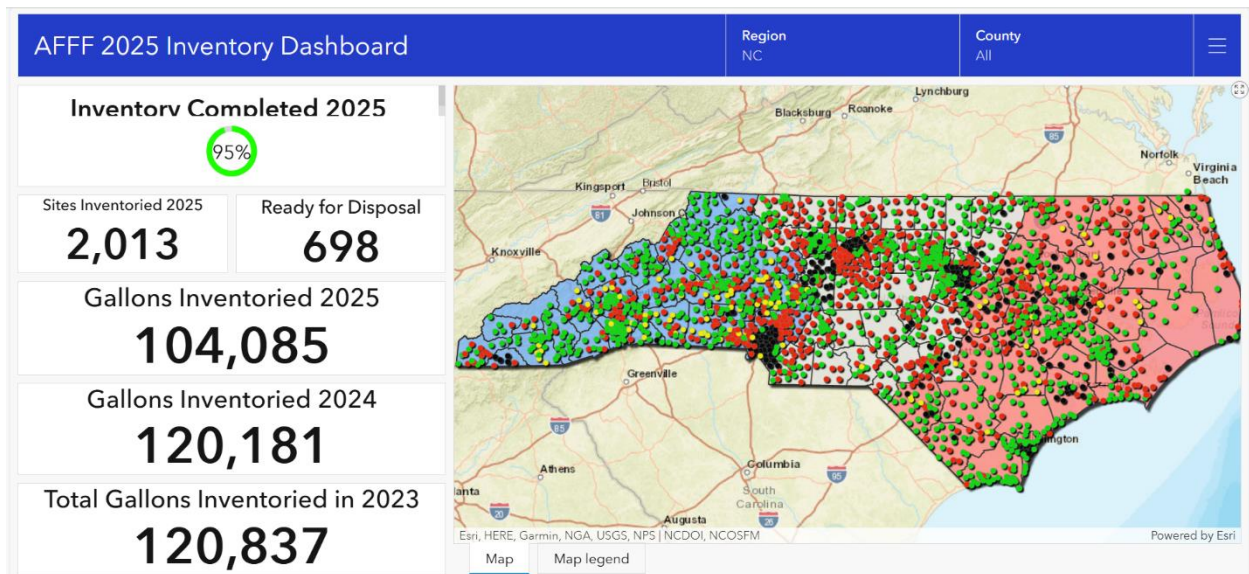
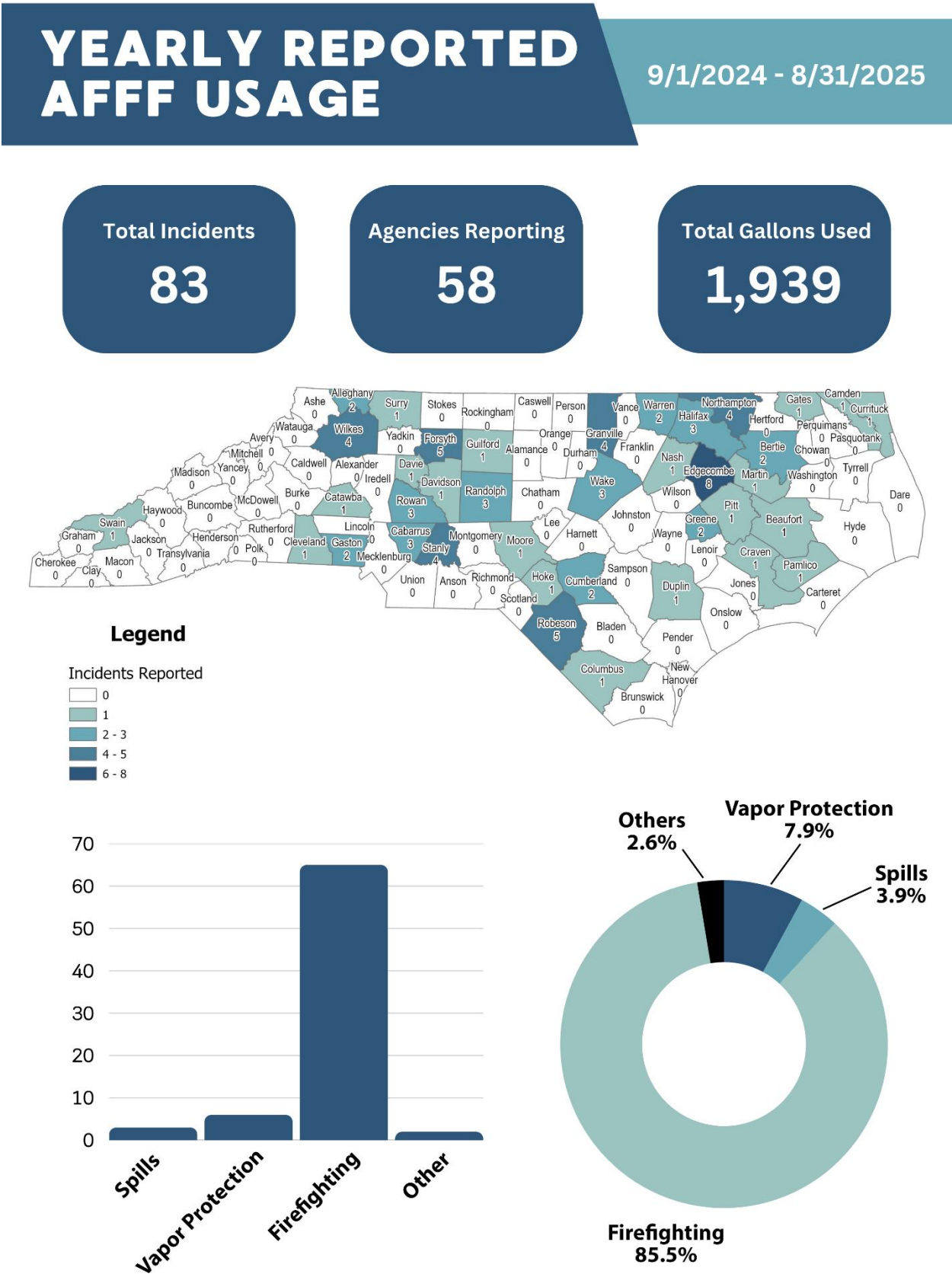


Figure 5. Usage Dashboard



Collection, Storage and Disposal- The NC Collaboratory is currently in the pilot phase of the destruction process. During the 2024 inventory process, there were approximately 5585 gallons collected from 22 sites across the state. Of the 5585 gallons, 4010 gallons have been distributed to 6 companies that were awarded contracts for destruction of the foam. In this phase they will destroy and provide test data that will be evaluated by the NC Collaboratory. Storage space has been leased in Haw River, and this will allow the take back of unwanted AFFF to begin in the 4th quarter of 2025.

Updates to 9s Administrative Code- 11 NCAC 05A.0900 establishes the standards for insurance public protection classifications for fire districts throughout the state. Section .0910 “Incident Reporting” was updated to include language requiring fire departments to report AFFF usage within 120 days, or 48 days involving a fatality. Section .0911 “Records” added that AFFF inventory and usage reports created in accordance with 11 NCAC 05A .0910 be maintained for 36 months.