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The Tennessee Advisory Commission
on Intergovernmental Relations



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MEMORANDUM

TO: Commission Members

FROM:  Wynnis Roehrich-Patrick
Executive Director

DATE: 20 June 2013

SUBJECT: Fire Service Study Resolution—Final Report for Approval

The attached draft report, prepared in response to House Joint Resolution 204 by Representative Haynes, is submitted for approval. Although the resolution passed in the House but not the Senate, the study was added to the work program at the June 2011 commission meeting because this is such an important issue.

House Joint Resolution 204 directed TACIR to study

- the collection methods and charges imposed by local governments, especially in rural and suburban areas, for fire service, whether provided by a paid or volunteer fire department;
- the overall impact on local governments when their respective jurisdictions are not protected by a fully funded fire department; and
- the impact of making fire service an essential service provided by local governments.

In response to member feedback, the final version of the report incorporates improvements to the draft reviewed at the February 2013 Commission meeting:

- A discussion and analysis of mutual aid agreements for fire service
- Inclusion of material from the University of Tennessee and other sources on other factors contributing to fire deaths
- Expanded discussion of staff's analysis on effects of funding and other factors

Report of the Tennessee Advisory Commission on Intergovernmental Relations

Fire Service in Tennessee

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An Examination of Fire Service Funding in Tennessee

Concerns about the availability, quality, and funding of fire service in Tennessee prompted the Tennessee General Assembly to introduce several pieces of legislation in 2011, including House Joint Resolution 204 by Representative Ryan Haynes. That resolution directed the Tennessee Advisory Commission on Intergovernmental Relations (TACIR) to study

- the collection methods and charges imposed by local governments for fire service, especially in rural and suburban areas, whether provided by a paid or volunteer fire department;
- the overall impact on local governments when their respective jurisdictions are not protected by a fully funded fire department; and
- the impact of making fire service an essential service provided by local governments.

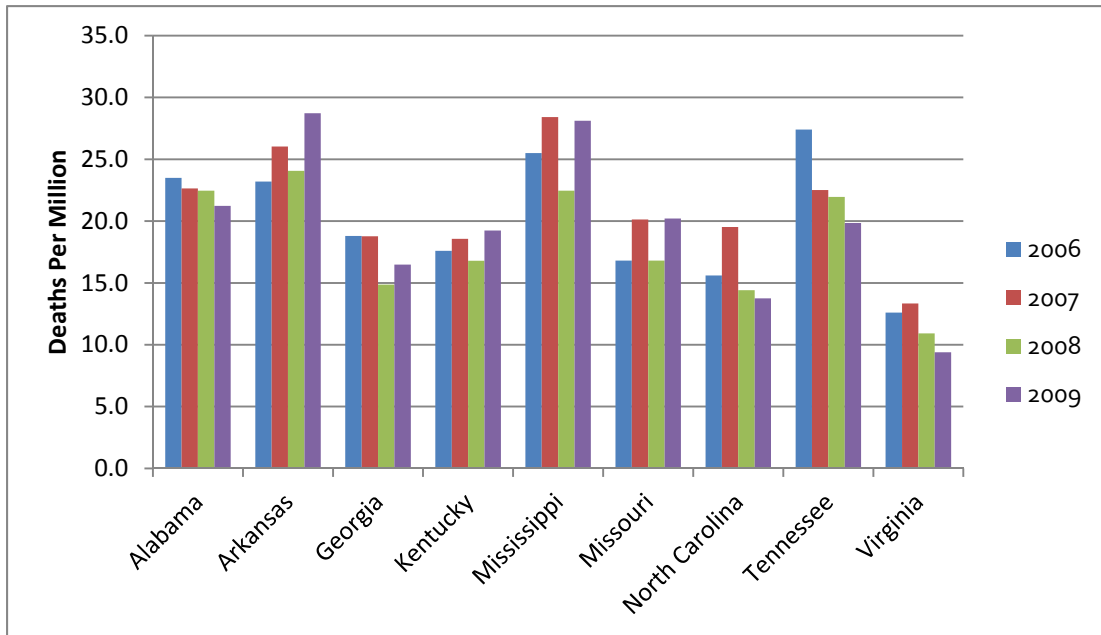
The resolution passed in the House but not the Senate. However, because this is such an important issue, the Commission chose to proceed with the study. See appendix A for a copy of the resolution. While this study focuses on fire service, it is important to note that fire departments do more than just prevent and suppress fires. Statewide, Tennessee fire departments received more than 381,000 calls in 2011, of which 92% were for services other than fire suppression, such as emergency medical services.

Tennessee Ranks High for Fire Losses

Although the fire death rate has decreased nearly 30% over the last ten years, Tennessee remains among the ten jurisdictions with the highest fire death rates nationwide. Statistics include the District of Columbia, which is also in the top ten. In 2009, the most recent ranking by the US Fire Administration, Tennessee was seventh in the nation at 19.9 fire deaths per million residents; the national rate was 11.0. Tennessee was third in 2006 with a rate of 27.4 compared with 13.2 nationwide. In total, 22 states and the District of Columbia had rates higher than the national average in 2009. Tennessee's rank is comparable to neighboring states. That is, the variation between our fire death rate and that of other states is not that great. See figure 1.

The availability of fire service in Tennessee came to national attention in 2010 and 2011 when two homes just outside the South Fulton city limits in Obion County were left to burn while firefighters were at the scene and did not act except to protect neighboring properties. At the time, the city fire department offered service to residents outside the city for an annual fee but had a controversial "no pay, no spray" policy. If residents outside the city limits did not pay the annual fee, the fire department would not provide fire service. The City of South Fulton has since amended its fire department's policy so that it provides service to nonsubscribers, but they will be billed for services rendered in response to a particular incident.

Figure 1. Fire Deaths per Million Population, Tennessee and Border States, 2006-2009



Issues Raised by House Joint Resolution 204

The first question raised by the resolution was easy to answer—current funding methods are clearly outlined in state law. Different types of fire departments have access to different types of funding based mainly on whether they are city, county, or private corporations. The most notable difference between cities and counties is that counties can establish fire tax districts with differential property tax rates through fire tax districts to fund fire service, and cities cannot. There is no obvious reason not to extend this option to cities.

Unfortunately, ambiguity in the resolution’s language and a lack of relevant findings in the data made it impossible to fully answer the second and third questions. Because neither the resolution nor state law defines “fully funded,” staff could not determine which departments were and which were not fully funded, and so the effect of being fully funded could not be measured. Likewise, “essential service” is not defined in the resolution or in state law and so the effect of declaring fire service “essential” could not be determined. Based on conversations with the bill’s sponsor and fire officials, staff interpreted a fully funded, essential service as a publicly funded, mandatory service for purposes of analysis. There are very few mandated services in Tennessee or any other state. In fact, the only mandatory service in Tennessee with a definition of fully funded is public education.

Although the literature and discussions with fire officials support the existence of a relationship between funding levels and fire losses, the data available for Tennessee’s fire departments did not. The quality of data for fire departments and for fire incidents is a concern in itself, one that has already been identified by the State Fire Marshal’s Office (SFMO). The data, which is self-reported, is inconsistent and has many gaps for individual fire departments.

While the limitations of the data and the absence of a statistical relationship between funding and fire losses in the data made formulating recommendations impossible, a 2011 University of Tennessee (UT) study of fire deaths by Census tract provides some important policy suggestions. That study found that 90% of the Census tracts in Tennessee at highest risk for fire deaths are rural tracts characterized by high poverty; low education levels, incomes, and housing values; and a large number of mobile homes.¹ The SFMO has already begun to target those high-risk areas in an attempt to reduce fire deaths. Their efforts focus largely on methods other than fire suppression—like distributing smoke detectors and supporting public fire-safety education—and on better data collection to help identify future strategies. The literature on fire service suggests several other factors related to property loss and fire deaths, including distance to water sources, the number of firefighters at the scene, and response times. Those factors were outside the scope of this study.

How Fire Service is Provided in Tennessee

Although a few Tennessee cities have provided fire service for more than one hundred years, historically, most fire service was provided by private fire departments supported by donations and fees from those they serve. As areas become more settled, residents tend to demand better fire service, and local governments eventually either subsidize private fire departments or establish their own. Still, of the 730 fire departments in Tennessee, 363 (50%) are privately operated; 302 (41%) are public. The ownership of the other 9% could not be determined.² See map 1. Both public and private fire departments must comply with state law and rules of the State Fire Marshal's Office, and both may be staffed by career or volunteer firefighters or both. Most of the public departments are operated by cities or counties, which provide fire service either under their general or police powers or by charter. And one utility district has been established to provide fire service. Most of these public fire departments have both paid and volunteer staff.

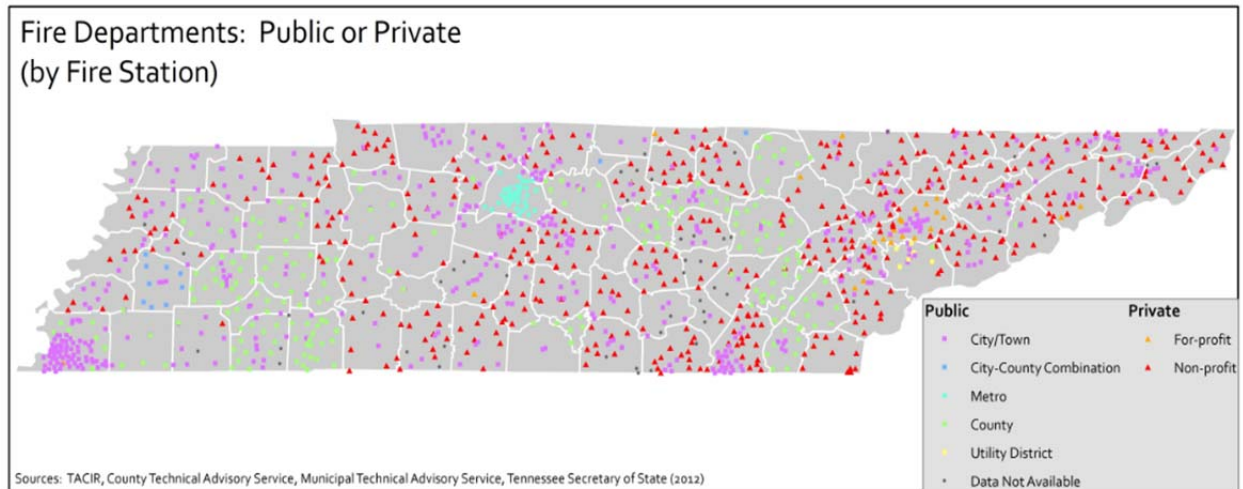
While most people think of private, volunteer fire departments as nonprofit corporations that rely on donations, there are actually a handful of for-profit fire departments in Tennessee. The largest for-profit fire department is Rural Metro, which operates in Knox County on a fee basis. It provides service to residents outside of the Knoxville city limits and by contract in certain industrial zones. In addition to operating independently, private fire departments may (and often do) enter into contracts with local governments to provide fire service.³ Based on the available data, approximately 363 fire departments are private, most of which are nonprofit corporations.

¹ Folz, et al., 2011.

² See appendix B for information about the maps in this report.

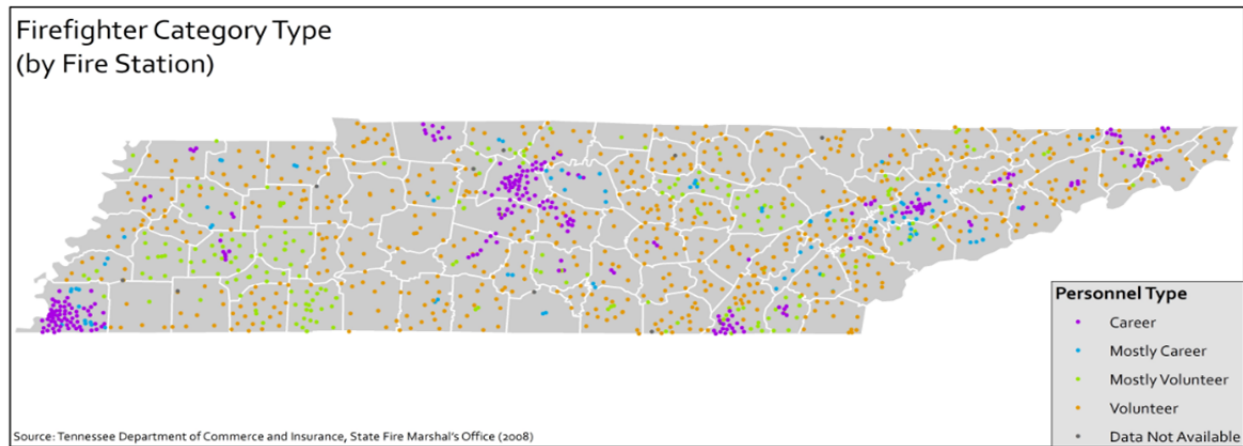
³ Tennessee Code Annotated offers guidelines for such contracts in Title 5, Chapter 9 and Title 6, Chapter 54.

Map 1. Fire Department by Ownership



Career and volunteer firefighters serve in both public and private fire departments. State law requires all firefighters, regardless of type (career or volunteer), to receive minimum training—even though there are several counties exempted from this requirement. Fire department staff type is shown in map 2.

Map 2. Fire Department by Staff Category



Mutual Aid

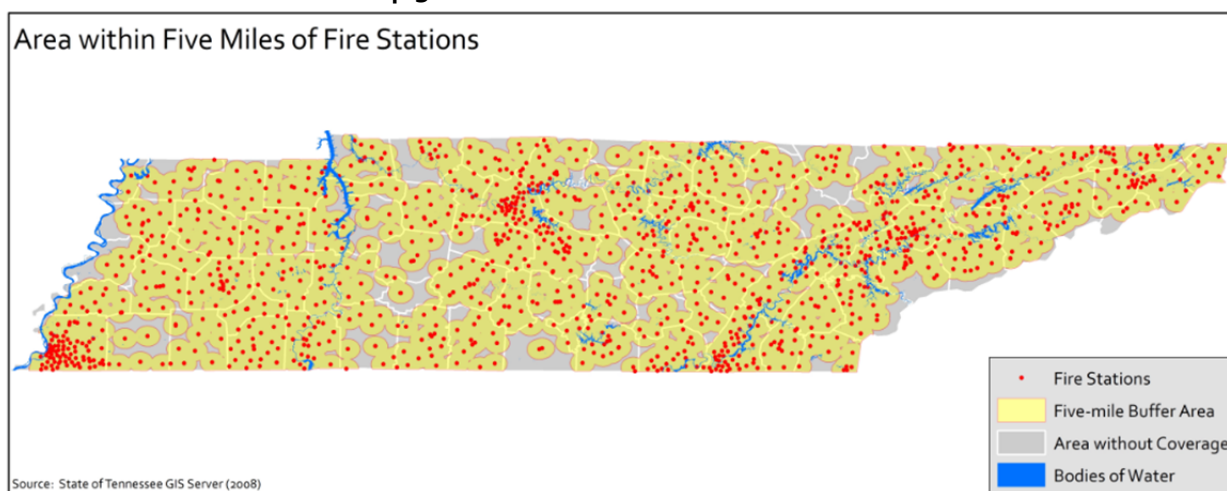
To provide fire service effectively and efficiently, fire departments enter into agreements to assist one another when needed. These promises to assist are called mutual aid agreements and allow fire departments to provide a level of service that they otherwise could not. Fire incident report summaries provided by the State Fire Marshall's Office for 2011 indicate that

mutual aid in some form was given in approximately 26% of fire calls. To simplify the process and standardize these agreements, the Mutual Aid and Emergency and Disaster Assistance Agreement Act of 2004⁴ created a model mutual aid agreement for Tennessee local governments. The act governs the delivery and receipt of mutual aid and assistance between participating governmental entities and replaced all existing local mutual aid agreements with the model agreement unless the jurisdictions adopted resolutions to extend or renew existing agreements. Under the law, aid may take any one of three forms: mutual aid, mutual assistance, or automatic aid. The first two are provided upon request for a particular incident. Mutual aid is provided at no charge. Mutual assistance occurs when a state of emergency is declared and is reimbursable under the act.⁵ Automatic aid is given under a standing agreement to respond together to incidents at specified locations where an unusually large number of lives would be at risk and which a single fire department would not be able to handle on its own.

Fire Service Coverage

By industry standards, most of Tennessee has some form of fire protection. It is difficult to pinpoint specific areas that lack fire service because such data is not currently collected; however, the insurance industry considers any property further than five road miles from a fire station not to have fire protection, and this standard is generally accepted in the fire industry as well. Using the Tennessee Department of Homeland Security's GIS fire stations data, map 3 shows areas outside the five-mile radius in gray. It should be noted that the gray areas may nevertheless have fire service, just not within five miles. Mutual aid may be particularly important to ensure coverage in these areas.

Map 3. Five-Mile Radius of Fire Stations



⁴ Tennessee Code Annotated § 58-8-101.

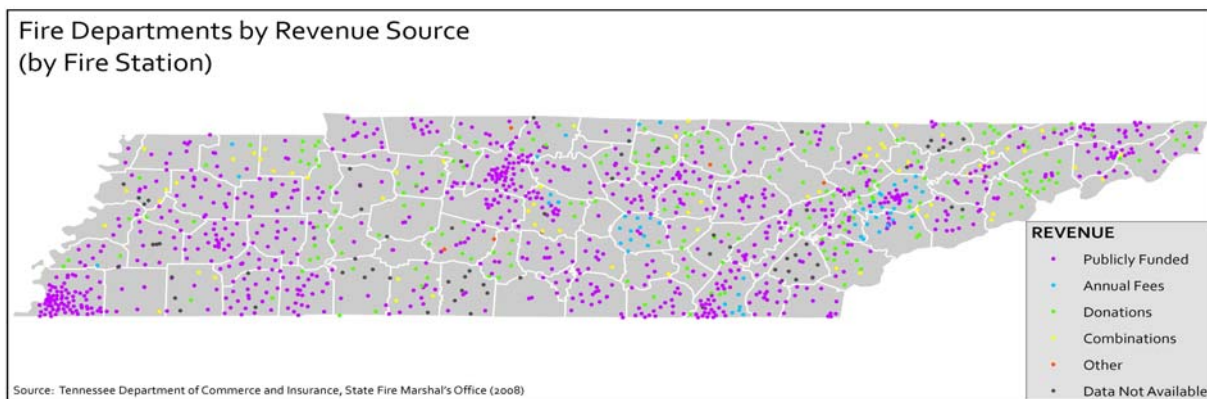
⁵ Tennessee Code Annotated § 58-8-111(a).

Fire Service Funding

An estimated \$378 million was spent on fire service in Tennessee in 2011, generated by different methods. More than 55% of fire departments in Tennessee, both public and private, receive public funding. Roughly one-quarter of Tennessee fire departments rely on donations for 50% or more of their revenue. Of the approximately 181 fire departments that rely mainly on donations for their revenue, ten are public fire departments and all but two are staffed entirely by volunteer firefighters.⁶ An estimated 3% of fire departments depend on annual fees, and 8% use a combination of revenue sources.

House Joint Resolution 204 asked the Commission to look at collection methods and charges by local governments for funding fire service, especially in rural and suburban areas, whether staffed by paid or volunteer firefighters. There is no commonly accepted definition of rural or suburban (or urban for that matter) that would allow staff to identify rural and suburban areas for statistical analysis, but mapping the data makes some broad conclusions possible. As shown in maps 3 (above) and 4 (below), fire departments in more urban areas are more likely to be publicly funded and have mainly career firefighters. Those in more rural areas are somewhat less likely to have publicly funded departments and have mainly volunteer firefighters.

Map 4. Primary Revenue Sources for Tennessee Fire Departments (2008)



There are two main ways fire service is funded—through taxes and through fees. Certain fees are specifically authorized by statute; others are based on contractual arrangements between property owners and fire departments. Tax revenue is typically general fund revenue, but

⁶ The 10 public fire departments that rely on donations for 50% or more of their revenue are Allardt Volunteer Fire Department (Fentress County), Auburntown Volunteer Fire Department (Cannon County), Bulls Gap Volunteer Fire Department (Hawkins County), Chapel Hill Volunteer Fire Department (Marshall County), Decatur County Fire Department, Griffith Volunteer Fire Department (Bledsoe County), Hickman County Rescue Squad, Maury County Rural Fire Department, Saltillo Volunteer Fire Department (Hardin County), and Sneedville Volunteer Fire Department (Hancock County).

counties may also establish fire tax districts in which some portion of the property tax is earmarked for fire service. See table 1. Funding fire service through property taxes may make the cost deductible for federal income tax purposes. Fees are generally not deductible.

**Table 1. Available Fire Funding Methods
With Relevant Sections from the Tennessee Code Annotated**

Funding Mechanism	Type of Fire Department			
	Public			Private
	County	City	Utility District	
General Fund Revenue	5-8-107, 5-17-101(d)(2)	6-2-201	not applicable	5-9-101(23); 6-54-111 by contract with local government
Differential Property Tax Rates	5-17-101(d)(1), 5-17-105 through 107	not applicable		
Fees	5-16-101(b)(2)	6-2-201(14); 6-19- 101(14); 6-33-101(a)	7-82-302	*
Incident Charges	not applicable	not applicable	available only in Blount County under 7-82-313	*
Donations	5-8-101(b), 5-17-101(d)(4)	6-56-111	7-82-304 (12)(b)(3) can only be used toward charitable purposes	5-9-101 (23), 6-54-111

*As private entities, private fire departments can charge fees.

Fees can be paid in advance, in which case they are often called subscriptions. Those who choose not to pay the fee may be able to get service, but may be required to pay an incident charge. Local governments cannot assess an incident charge where fire protection is funded as a public service; however, they may charge those not residing in their service areas for services rendered after the fact. For example, the City of South Fulton in Obion County charges residents outside the city limits for services rendered as incidents occur. Private fire departments may charge any nonsubscriber for services rendered.

The distribution of staff type and primary funding source by fire department is shown in table 2. More than three-quarters of fire departments in Tennessee are staffed by volunteer firefighters, 16% of departments have some combination of career and volunteer firefighters, and 6% have only career firefighters. Public funding is the primary revenue source for fire departments regardless of how they are staffed. Volunteer fire departments are also heavily funded through donations. Any fire department can accept donations, and local governments often contribute funding or equipment to nonprofit fire departments.

Table 2. Fire Department Staff Category and Primary Funding Source Distribution

Staff Type	Primary Funding Source						Total
	Tax Funded	Donations	Direct Fees	Other	Combination	n/a	
Career	35	0	1	7	0	2	45
Combination	102	4	5	1	1	1	114
Volunteer	265	177	14	12	64	39	571
Total	402	181	20	20	65	42	730

Note: *Combination* under *Staff Type* indicates fire departments that have both career and volunteer firefighters. *Combination* under *Primary Funding Source* indicates that no single funding source provides half or more of the department’s revenue. The one fire utility district in the state is included in the *Direct Fee* column, and the one county that uses urban type public facilities fee is included in the *Other* column.

Counties can establish fire tax districts with differential property tax rates

In addition to or in place of general fund revenue, counties but not cities can create fire tax districts and establish separate, earmarked property tax rates for those districts. Commonly referred to as fire taxes, they are assessed and collected as property taxes but accounted for separately in the same manner as are earmarked property taxes for schools and roads. While a city currently may not establish its own fire tax districts, it may elect to join its county’s fire tax district, and the tax collected in the city would be spent on fire service within the city limits. Four counties—Bradley, Cheatham, Franklin, and Roane—have established fire tax districts to fund fire service. In Cheatham County, the area outside Ashland City, Kingston Springs, and Pleasant View is divided into eight fire tax districts, including one district for the city of Pegram. Both Ashland City and Kingston Springs fund their own fire departments through general fund revenue. And like many local governments, the City of Pleasant View contributes general fund revenue to the volunteer department in that area.

Fire tax districts accomplish a number of objectives. They are used most often to assist in funding non-profit fire departments, but are sometimes used to assist cities with fire service. By establishing separate districts, counties can raise different amounts of money in different areas based on the needs of the fire departments they are funding. Typically, the county commission and the fire department agree on a particular figure, and the county divides that amount by the taxable property value in that fire department’s district to arrive at a fire tax rate. These earmarked taxes, like school and road taxes, may be easier to explain as “not just another tax.” Fire tax districts could work the same way for municipalities.

All fire departments can charge fees for service

Both public and private fire departments can charge up-front fees to fund fire service. In most cases, these fees are optional, but one type of fee, the urban type public facilities fee, is not. Optional fees are often referred to as subscriptions. These fees, which may be paid monthly or annually, are typically based on the square footage of the property to be protected. Some municipal fire departments offer subscription service to residents outside their city limits. Only

20 fire departments report that they receive more than half of their revenue from subscriptions, including three public fire departments—Greenback Volunteer Fire Department in Loudon County, Morrison Fire Department in Warren County, and the Blount County Fire Department (a fire utility district).

Fire utility district

State law authorizes public utility districts to provide fire service upon petition to the Utility Management Review Board. Like any other utility district, a fire utility district has a board that sets rates for service. Customers pay fees, usually annual, for fire service. The only fire utility district in Tennessee is in Blount County, which charges \$110 per year for fire service. Those who choose not to pay this fee are charged \$2,200 per call plus \$1,100 per hour after two hours. These incident charges are authorized only in Blount County.⁷

Urban Type Public Facilities Fee

The urban type public facilities fee allows counties, but not municipalities, to collect a mandatory fee for specific services, including fire protection. Shelby County, the only county currently using this type of fee, provides fire protection to unincorporated Shelby County and the city of Lakeland. The county contracts with Memphis Light, Gas and Water (MLGW), a city owned utility, to collect the fee, which is assessed annually and billed monthly. As with taxes, if payment is delinquent, interest is assessed and the county may file suit to recover the fee and any interest due.

Additional ways to reduce fire losses

Other than firefighting, there are other measures to address fire protection and reduce fire deaths, like building codes, sprinklers, smoke alarms, and public education and outreach on fire safety. All of these methods address fire protection and are underscored by the following rule—every community should tailor its fire service to meet its needs. The US Fire Administration reports that the national fire death rate has improved over the last five years and it credits the improvement to the following factors: smoke alarm usage, sprinklers, fire codes, construction techniques and materials, public education, and improved firefighter equipment training.⁸ A special publication by the National Institute of Standards and Technology (NIST), an agency of the US Department of Commerce, reports that direct and indirect economic losses of fire fatalities and injuries can be reduced by improving fire prevention and response to unwanted fires through building codes, construction, and safety and advancing fire service technologies including equipment, tactics, and training and education.⁹ In Tennessee, fire chiefs surveyed as part of a University of Tennessee (UT) study

⁷ Tennessee Code Annotated, § 7-82-313.

⁸ US Fire Administration, 2009.

⁹ Hamins, et al., 2012.

on fire mortality, *An Analysis of Civilian Residential Fire Deaths in Tennessee, 2002–2010*,¹⁰ said that the four most effective strategies to prevent and reduce residential fire deaths are smoke alarms, home sprinkler systems, fire and building code enforcement, and fire safety demonstrations and instruction at local schools. While the small sample size of the survey limited statistical interpretation, the UT researchers did find that those departments that distributed smoke detectors to the public or that provided fire-safety education had lower fire death rates.¹¹

Smoke Alarms

The risk of fire death is much lower in homes and buildings with working smoke alarms.¹² In fact, the fire chiefs surveyed by UT cite working smoke alarms as the single best approach to reducing fire deaths. They advocate widespread and regular smoke detector distribution efforts, battery replacement programs, and annual testing, inspection, and installation programs. In response to the UT study, the SFMO applied for and received a Federal Emergency Management Agency (FEMA) fire protection grant in 2012 to purchase 20,000 smoke alarms for Tennessee homes in the highest-risk areas identified in the study. Local governments in Tennessee have also pursued federal support, with both Kingsport and Murfreesboro receiving FEMA grants to purchase, distribute, and install smoke alarms. Local governments in other states have adopted similar initiatives, for example, since 2012 the Baltimore Fire Department has been allowing residents to call 3-1-1 not only to receive a free smoke alarm but also to have a home safety visit, which has been shown to improve fire safety in those homes and their communities.¹³ The states of Alabama and Iowa are also stepping up efforts to ensure that smoke alarms are available.

Sprinklers

The National Fire Protection Association (NFPA), a nonprofit organization that advocates for reducing fire hazards, found that operating sprinklers are 95% to 97% effective in diffusing fires.¹⁴ Fire sprinklers save lives, reduce property damage, and can reduce insurance premiums. Automatic sprinklers require less water than fire departments to put fires out partly because they are triggered instantly, near the source, and while the fire is still small. This is especially important in remote areas and where water lines are small and fire hydrants are either unavailable or marginally adequate.¹⁵ While some local codes require sprinklers in new developments, Public Chapter 839, Acts of 2012, now requires at least two readings and a two-thirds majority vote to require sprinklers in one- and two-family dwellings.

¹⁰ The study was a collaborative effort among the University of Tennessee and two agencies of its Institute for Public Service, the Municipal Technical Advisory Service, and the County Technical Assistance Service.

¹¹ Folz, et al., 2011.

¹² Hamins, 2012.

¹³ Crawford, 2012.

¹⁴ Hall, 2010.

¹⁵ The Fire Protection Research Foundation, 2012.

Public Education

The Tennessee fire chiefs interviewed in the UT study said that after smoke alarms and sprinklers, fire safety education is one of the most effective tools to reduce fire fatalities. A US Fire Administration report made a similar observation, crediting reduced fire deaths nationally in part to increased public education on fire safety.¹⁶ In Tennessee, the SFMO shares fire safety tips through its website and news announcements, and many fire departments conduct fire safety classes in public schools. The UT fire mortality study found that the fire mortality rate is significantly lower in areas where the fire department provides public fire safety and prevention education. To that end, the SFMO recently hired a community risk reduction coordinator to promote fire safety across the state¹⁷ and is working with local fire administrators to pinpoint areas that lack adequate service, brainstorm ways to fill those gaps, and promote and ensure the proper training of firefighters.

Applicable Codes

Because of the importance of safe building and infrastructure resilience in reducing fire damage and fatalities, the United States Fire Administration (USFA), a division of the Federal Emergency Management Administration, has made code development and compliance an objective in its strategic plan for 2010-2014.¹⁸ National studies have shown that infrequent fire inspections can lead to an increase in the number and severity of fire hazards.¹⁹ According to the USFA, passage and enforcement of building codes and standards are “pre-event” activities that are effective in reducing the amount of damage in structure fires.²⁰ And while there is no data on code enforcement among Tennessee communities, the Tennessee fire chiefs interviewed for the UT study stressed the importance of meeting building and fire code standards through routine inspections and effective code enforcement and by reducing or eliminating exemptions. The UT study found that death rates tend to be lower in communities where fire chiefs rate code enforcement better.²¹

Incident Reporting

Tennessee’s fire departments are much more likely than those in most states to report incidents. The SFMO estimates that 80% of the state’s fire departments properly filed incident reports in 2012.²² The USFA estimates that 59% of US fire departments report fire incidents.²³ Even so, the data is not adequate to definitively answer the questions posed in the resolution.

¹⁶ US Fire Administration, 2002.

¹⁷ Folz, et al., 2011.

¹⁸ US Fire Administration, 2010.

¹⁹ Woolard, 2010.

²⁰ US Fire Administration, 2002.

²¹ Folz, et al., 2011.

²² Dennis Mulder, phone call with author, January 9, 2013.

²³ US Fire Administration, 2009.

The quality and availability of fire incident data needs to be expanded to help policymakers and fire officials make informed decisions to improve fire service statewide. The UT study agrees with this assessment of the data, finding that fire departments should further educate and train their staffs to use the state's incident reporting program more effectively. In the past, only fire chiefs received training on completing incident reports. As part of the SFMO's strategic action plan, the state's fire academy is developing a training video to help instruct firefighters on how to fill out reports.²⁴ The SFMO is also taking steps to improve the usefulness of the data collected. For example, they have modified the incident-reporting system to require the age of the structure to be reported because of an expected connection between age and the extent of property damage.

Effect of not having a Fully Funded Fire Department

The second part of House Joint Resolution 204 asked the Commission to study the effect on local governments when their jurisdictions are not protected by a fully funded fire department. Determining whether something is fully funded requires first costing it out. Costing out fire service requires establishing a minimum or required level of fire service, which neither the current law nor the resolution does. Moreover, it is unclear what is meant by effect on local governments, other than the cost of fires and fire insurance for public buildings, that is different from the effect on the community as a whole. Because the question raised by the resolution could not be answered directly, after consulting with proponents of the resolution to find an alternative that might address their concerns, staff compared actual funding and resources, including mutual aid agreements, to fire deaths and damage to determine whether and to what extent those resources make a difference.

First, staff analyzed the relationship between budget per capita and two common fire service outcome measures, property saved and deaths per million people.²⁵ Graphing budget per capita against property saved produces no discernible pattern, which suggests there is no relationship between the two (see figure 2). Further statistical analysis confirmed the lack of relationship in the data. Likewise, as shown in figure 3, no pattern was found when budget per capita was plotted against average fire deaths per million people, and statistical analysis confirms this as well.

²⁴ Folz, et al., 2011.

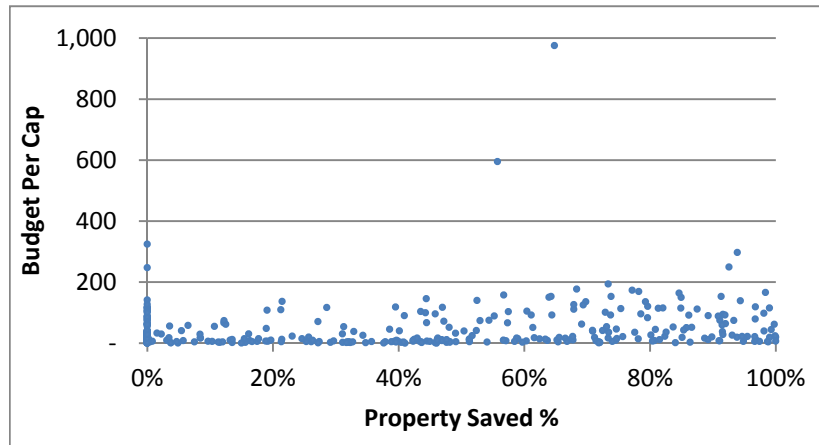
²⁵ The data on property saved and fire deaths is from the Tennessee Fire Incident Reporting System (TFIRS) maintained by the State Fire Marshall Office. The TFIRS death rates differ from the fire death rates reported on the SFMO's web site and compiled in national reports. The latter rates are compiled from county death certificates and other sources. One of the reasons the two rates differ is that the TFIRS rates do not include any deaths resulting from a fire where no department responded. The county death certificate data was not available at the department level and thus could not be used in this analysis.

Staff also analyzed the relationship between the outcome measures and staffing levels (fulltime firefighters per capita and total firefighters per capita) and training (percent of firefighters certified). None of these had a measurable effect on outcomes. And, knowing that fire departments often rely on mutual aid to provide sufficient protection, staff also looked at the relationship to the outcome measures both for mutual aid received and for automatic aid received.²⁶ Again, no measurable effect was found (see appendix E). The lack of measurable effects does not mean a relationship does not exist. Data cannot capture all the factors that contribute to fire losses and deaths.

What factors have been shown to affect fire losses? In their study on fire mortality, UT researchers suggested that fire deaths in Tennessee are disproportionately a rural problem. They found that while the largest number of residential deaths occur in Tennessee's largest cities, the residents of rural areas and smaller communities actually experience higher rates of fire mortality. UT found that

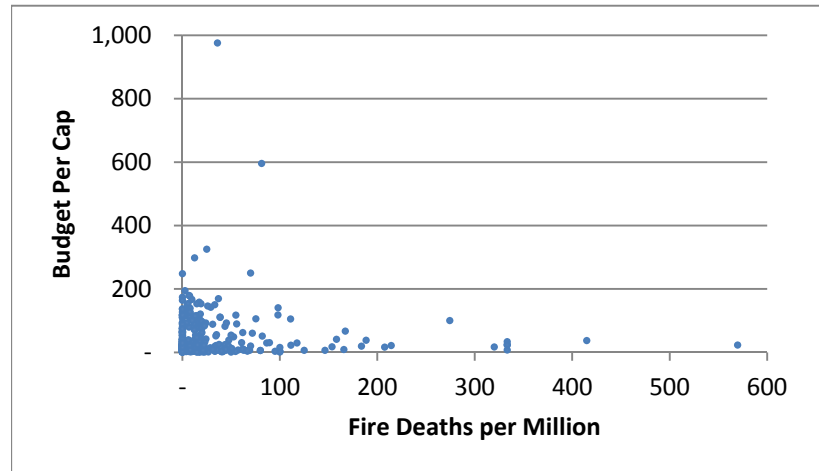
Census tracts with residential fire deaths shared several characteristics, including low educational attainment, low median household income, high poverty, a high percentage of mobile homes, and low median housing values.

Figure 2. Tennessee Fire Departments: Budget Per Capita (2011) and Property Saved % (2011)



Source: Tennessee State Fire Marshal's Office

Figure 3. Tennessee Fire Departments: Budget Per Capita (2011) and Mean Annual Fire Deaths Per Million (2002-2011)



Source: Tennessee State Fire Marshal's Office

²⁶ The fire incident data did not include information on mutual assistance given or received.

As discussed earlier, the UT researchers also found that distributing smoke detectors and providing fire-safety education contributed to lower fire death rates. The UT researchers did not include any funding or budget data in their analysis because they deemed it inadequate.²⁷ Other factors that the literature suggests are related to property loss and fire deaths include distances to water sources, the number of firefighters at the scene, and response times.

Effect of Declaring Fire Service Essential

The final part of House Joint Resolution 204 directed the Commission to study the impact of making fire service an essential service provided by local governments. Since there is no definition of essential service in law or in the resolution, there is no way to know what accurately describes or defines mandatory fire service paid by local governments—one fire truck per 500 people? One fire hydrant every 1,000 feet? Five fire departments in each county? \$20 per capita spent on fire service?

It is impossible to know what level of service would be required if fire service were essential because, as noted in the previous section, House Joint Resolution 204 does not establish a minimum level of service. Any legislation making fire service essential would need to specify a minimum level of service, which might include minimum staffing levels, minimum fire station distance requirements, minimum funding levels, and any required training or professional standards. Although most states do not require fire service, a few have statutes that require some cities or towns to provide fire protection, but even those states do not define a minimum level of service. For example, Montana requires every city and town to have a fire department, contract for fire protection, or consolidate its fire department with another fire department depending on the population of the city.²⁸ Montana also sets minimum pay but does not set a minimum level for staffing or equipment.²⁹ Similarly, California requires cities organized under general law, but not charter cities, to have fire departments but does not set minimum staffing or equipment requirements.³⁰ Mandating fire service without setting a minimum level of service cannot really be described as requiring adequate fire protection.

Given the lack of relationship between funding and fire deaths or property loss, it's not clear that making fire service essential would have a significant effect on fire death rates or property loss.

²⁷ Email correspondence with Dr. Folz.

²⁸ Montana Code Annotated § 7-33-4101.

²⁹ Montana Code Annotated § 7-33-4127 and § 7-33-4128.

³⁰ California Government Code § 38611.

What is an essential service?

You could not type “essential service” in a Tennessee Code Annotated query and find meaningful results. In order to learn what services local governments must provide, staff contacted the County Technical Assistance Service (CTAS) and Municipal Technical Advisory Service (MTAS).

County Services

The level of service each county provides is different based on size, tax base, professionalism, and other factors. But there are several basic services that counties provide. The most important state mandates that require substantial county revenue include: education, jails, law enforcement, a court system, county roads, solid waste management, constitutional county offices, emergency management, county medical examiner, elections, and county health department (among others that are common but not necessarily required).

Municipal Services

There are 348 cities in Tennessee, and each city has its own charter that defines what services it provides. If a city’s charter mandates fire service or some form of fire protection, then the city must provide it as defined in the charter. However, this would be a locally imposed mandate, not a state mandate.

General law city mandates, which are applicable to all cities, include: enforcement of laws, a biennial audit, certified municipal finance officer, joint economic and community development board, keep highways in city limits in good repair, crosswalks and sidewalks, city records, duty to declare civil emergency under certain circumstances, and enforcement of traffic laws within city limits.

In addition to the general law mandates, there are mandates that apply to cities that were formed under/adopted specific charters (Mayor-Aldermanic, City Manager-Commission, or Modified City Manager-Council). Each of those charters has additional required services not listed here. The 48 municipalities with a City-Manager Commission charter are required to provide police and fire service. The fire duties are found in Tennessee Code Annotated § 6-21-702, which states, “It is the duty of the chief of the fire department and the members thereof to take all proper steps for fire prevention and suppression.”

While these services are considered mandatory for their respective parties, other than education, none have a definition for full funding, and only some have a minimum level of service defined in the law.

Appendix A: House Joint Resolution 204

HOUSE JOINT RESOLUTION 204

By Haynes

A RESOLUTION relative to the funding of fire service by local governments.

WHEREAS, Tennessee's communities are supported by fire departments, some paid and some volunteer, and many of these communities experience great difficulty in funding fire service; now, therefore,

BE IT RESOLVED BY THE HOUSE OF REPRESENTATIVES OF THE ONE HUNDRED SEVENTH GENERAL ASSEMBLY OF THE STATE OF TENNESSEE, THE SENATE CONCURRING, that the Tennessee Advisory Commission on Intergovernmental Relations (TACIR) is directed to study the collection methods and charges imposed by local governments, especially in rural and suburban areas, for fire service, whether provided by a paid or volunteer fire department.

BE IT FURTHER RESOLVED, that TACIR shall study the overall impact on local governments when their respective jurisdictions are not protected by a fully funded fire department. TACIR shall also study the impact of making fire service an essential service provided by local governments.

BE IT FURTHER RESOLVED, that all appropriate state agencies and departments shall provide assistance to TACIR upon the request of its executive director. TACIR shall seek input from representatives of fire service and local government in conducting such study.

BE IT FURTHER RESOLVED, that TACIR shall report its findings and recommendations, including any proposed legislation, to the respective chairs of the House State and Local Government Committee and the Senate State and Local Government Committee no later than February 1, 2012.

BE IT FURTHER RESOLVED, that a certified copy of this resolution be transmitted to the Tennessee Advisory Commission on Intergovernmental Relations.

Appendix B: Fire Death Rates Per Million 2002 through 2009

State	2006	2007	2008	2009
Alabama	23.5	22.6	22.5	21.2
Alaska	25.1	24.9	17.5	14.3
Arizona	9.2	7.9	9.5	6.8
Arkansas	23.2	26.0	24.1	28.7
California	8.2	8.2	5.6	5.5
Colorado	7.8	8.3	9.3	6.0
Connecticut	6.6	9.2	8.9	9.1
Delaware	10.6	13.9	9.1	5.6
D.C.	34.2	39.2	32.2	33.4
Florida	8.9	9.8	8.5	8.8
Georgia	18.8	18.8	14.9	16.5
Hawaii	5.5	3.9	1.6	3.9
Idaho	16.4	8.7	3.9	5.2
Illinois	11.0	14.2	10.8	8.4
Indiana	18.3	15.6	13.0	12.5
Iowa	10.8	8.7	15.7	13.3
Kansas	27.2	17.3	14.3	14.9
Kentucky	17.6	18.6	16.8	19.2
Louisiana	21.7	23.8	21.4	14.7
Maine	9.9	6.8	8.3	9.1
Maryland	9.8	16.2	10.8	11.4
Massachusetts	5.4	6.9	7.6	5.3
Michigan	14.0	15.4	14.8	16.4
Minnesota	8.9	8.7	9.2	8.0
Mississippi	25.5	28.4	22.5	28.1
Missouri	16.8	20.1	16.8	20.2
Montana	12.7	9.4	8.3	11.3
Nebraska	17.0	12.4	12.9	7.8
Nevada	16.1	14.4	14.2	6.8
New Hampshire	4.6	6.8	11.4	9.1
New Jersey	8.0	7.5	7.2	5.7
New Mexico	11.4	11.2	15.1	7.0
New York	10.3	10.7	10.2	9.9
North Carolina	15.6	19.5	14.4	13.8
North Dakota	7.9	6.3	10.9	12.4
Ohio	16.1	12.5	16.0	10.7
Oklahoma	19.1	24.9	26.4	21.2
Oregon	10.3	9.6	10.8	7.8
Pennsylvania	19.9	19.2	17.3	13.4
Rhode Island	4.7	5.7	11.3	7.6
South Carolina	19.9	17.4	18.7	14.5
South Dakota	15.2	11.3	14.9	8.6
Tennessee	27.4	22.5	22.0	19.9
Texas	12.5	11.2	11.0	10.6
Utah	6.2	11.6	5.1	7.2
Vermont	9.7	14.5	6.4	16.1
Virginia	12.6	13.3	10.9	9.4
Washington	10.5	8.8	7.2	9.9

State	2006	2007	2008	2009
West Virginia	38.7	24.8	23.7	19.8
Wisconsin	12.8	12.7	11.7	9.2
Wyoming	9.8	9.6	9.4	9.2
National Fire Death Rate	13.2	13.2	12.0	11.0

Source: US Fire Administration

Appendix C: Map Data

The Geographic Information Systems (GIS) file used to create the maps in this report is from the Tennessee Department of Homeland Security based on their layer of fire departments in 2008, which is slightly less than the actual number of recognized fire departments in 2012. Therefore, the plotted points may not depict every fire department in the state as of 2012. Similarly, the data used in maps 2 and 3 are based on 2008 data from the SFMO. So, if a fire department changed its staffing type or revenue source since then, that change will not be reflected in the maps.

Please note that each point on the maps does not represent a fire department; the points represent fire stations associated with fire departments. That means if a fire department has more than one station, each fire station is plotted and reflects its fire department data.

In map 3, a fire department's revenue source must be 50% or more of one category in order to classify as such. For example, if a fire department receives 60% of its funding from a city tax and the remaining 40% from donations, it is considered to be publicly funded

Appendix D: Fire Departments by County

County	Fire Department	Public or Private	Revenue Source	Career Type
Anderson	Clinton Fire Department	City	Publicly Funded	Combination
Anderson	Lake City Fire Department	City	Publicly Funded	Combination
Anderson	Norris Fire Department	City	Publicly Funded	Combination
Anderson	Marlow Volunteer Fire Department	Non-profit	Donations	Volunteer
Anderson	Claxton Volunteer Fire Department	Non-profit	Donations	Volunteer
Anderson	Anderson County Volunteer Fire Department Briceville	Non-profit	Donations	Volunteer
Anderson	Medford Volunteer Fire Department	Non-profit	Donations	Volunteer
Anderson	Oak Ridge Fire Department	City	Publicly Funded	Career
Anderson	Andersonville Volunteer Fire Department	Non-profit	Donations	Volunteer
Bedford	Bell Buckle Volunteer Fire Department	City	Publicly Funded	Volunteer
Bedford	Wartrace Fire Department	City	Publicly Funded	Volunteer
Bedford	Shelbyville Fire Department	City	Publicly Funded	Combination
Bedford	Volunteer Fire Services Inc	Non-profit	Publicly Funded	Combination
Benton	Big Sandy Volunteer Fire Department	Non-profit	Donations	Volunteer
Benton	Camden Fire Department	City	Publicly Funded	Volunteer
Benton	Holladay-Mcillwain Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Benton	Eva Volunteer Fire Department	Non-profit	Donations	Volunteer
Benton	Morris Chapel Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Benton	Chalk Level Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Benton	Sandy River Volunteer Fire Department	Non-profit	Combination	Volunteer
Benton	South 4 Volunteer Fire Department	Non-profit	Donations	Volunteer
Bledsoe	Pikeville Volunteer Fire Department	City	Publicly Funded	Volunteer
Bledsoe	Nine Mile Volunteer Fire Department	Non-profit	Donations	Volunteer
Bledsoe	Brockdell Fire Department	n/a	Publicly Funded	Volunteer
Bledsoe	Mt Crest Volunteer Fire Department	n/a	Donations	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Bledsoe	Luminary Frostbite Volunteer Fire Department	Non-profit	Donations	Volunteer
Bledsoe	Griffith Volunteer Fire Department	County	Donations	Volunteer
Bledsoe	Brayton Volunteer Fire Department	Non-profit	Donations	Volunteer
Bledsoe	Rigsby Volunteer Fire Department	n/a	Donations	Volunteer
Bledsoe	Lusk Volunteer Fire Department	n/a	n/a	Volunteer
Blount	Friendsville Volunteer Fire Department	Non-profit	Subscription	Volunteer
Blount	Townsend Area Volunteer Fire Department	Non-profit	Donations	Volunteer
Blount	Blount County FP District	Fire Utility District	Subscription	Combination
Blount	Alcoa Fire Department	City	Publicly Funded	Combination
Blount	Maryville Fire Department	City	Publicly Funded	Combination
Bradley	Cleveland Fire Department	City	Publicly Funded	Career
Bradley	Bradley County Fire Rescue	County	Publicly Funded	Combination
Campbell	Caryville Volunteer Fire Department	Town	Publicly Funded	Volunteer
Campbell	Jacksboro Fire Department	City	Publicly Funded	Combination
Campbell	Stoney Fork Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Campbell	Jellico Fire Department	City	Publicly Funded	Combination
Campbell	Ridgewood Volunteer Fire Department	Non-profit	Donations	Volunteer
Campbell	LaFollette Fire Department	City	Combination	Volunteer
Campbell	Campbell County Rural Fire Department	Non-profit	Combination	Volunteer
Campbell	Pinecrest Volunteer Fire Department	Non-profit	Combination	Volunteer
Campbell	Jellico Life Saving & Rescue Squad Inc	n/a	Donations	Volunteer
Campbell	White Oak Volunteer Fire Department	Non-profit	Donations	Volunteer
Cannon	Auburntown Volunteer Fire Department	Town	Donations	Volunteer
Cannon	Woodbury Volunteer Fire Department	Town	Publicly Funded	Volunteer
Cannon	Cannon County Volunteer Fire Department	Non-profit	Donations	Volunteer
Carroll	Atwood Fire Department	Town	Publicly Funded	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Carroll	Bruceton Volunteer Fire Department	Town	Publicly Funded	Volunteer
Carroll	Hollow Rock Volunteer Fire Department	n/a	Publicly Funded	Volunteer
Carroll	Huntingdon Fire Department	City	Publicly Funded	Combination
Carroll	McKenzie Fire Department	City	Publicly Funded	Combination
Carroll	Trezevant Fire Department	Town	Publicly Funded	Volunteer
Carroll	McLemoresville Fire Department	n/a	Publicly Funded	Volunteer
Carroll	Carroll County Fire Department	County	Publicly Funded	Combination
Carter	West Carter County Fire Department	Non-profit	Donations	Volunteer
Carter	Watauga Volunteer Fire Department	n/a	Publicly Funded	Volunteer
Carter	Stoney Creek Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Carter	Hampton Valley Forge Volunteer Fire Department	Non-profit	Donations	Volunteer
Carter	Roan Mountain Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Carter	Central Community Volunteer Fire Department	Non-profit	Combination	Volunteer
Carter	Elk Mills-Poga Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Carter	Elizabethton Fire Department	City	Publicly Funded	Career
Cheatham	Kingston Springs Fire Department	City	Publicly Funded	Volunteer
Cheatham	Ashland City Fire Department	City	Publicly Funded	Combination
Cheatham	Pegram Fire Department	City	Publicly Funded	Volunteer
Cheatham	Pleasant View Volunteer Fire Department	City	Donations	Combination
Cheatham	Henrietta Volunteer Fire Department	Non-profit	Donations	Volunteer
Cheatham	Two Rivers Fire Department	Non-profit	Donations	Volunteer
Cheatham	Cheatham County Emergency Management	County	Publicly Funded	Volunteer
Chester	Henderson Fire Department	City	Publicly Funded	Combination
Chester	Chester County Fire Department	County	Publicly Funded	Combination
Chester	Enville Volunteer Fire Department	Town	Publicly Funded	Volunteer
Claiborne	Cumberland Gap Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Claiborne	Tazewell New Tazewell Fire Department	City	Publicly Funded	Combination
Claiborne	North Claiborne County Volunteer Fire Department	Non-profit	Donations	Volunteer
Claiborne	South Claiborne Volunteer Fire Department	Non-profit	n/a	Volunteer
Claiborne	Springdale Volunteer Fire Department	Non-profit	n/a	Volunteer
Claiborne	North Tazewell Volunteer Fire Department	Non-profit	Combination	Volunteer
Claiborne	Harrogate Volunteer Fire Department	City	Publicly Funded	Volunteer
Claiborne	Speedwell Volunteer Fire Department	Non-profit	Donations	Volunteer
Claiborne	Clear Fork Volunteer Fire Department	Non-profit	Combination	Volunteer
Clay	Celina Fire Department	Town	Publicly Funded	Volunteer
Clay	Moss Volunteer Fire Department	Non-profit	Subscription	Volunteer
Clay	East Clay Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Clay	Pea Ridge Volunteer Fire Department	Non-profit	Combination	Volunteer
Clay	Mount Vernon Volunteer Fire Department	Non-profit	Combination	Volunteer
Clay	Hermitage Springs Volunteer Fire Department	For-profit	Subscription	Volunteer
Clay	East 52 Volunteer Fire Department	Non-profit	Donations	Volunteer
Clay	Baptist Ridge Volunteer Fire Department	Non-profit	Combination	Volunteer
Cocke	Parrottsville Volunteer Fire Department	Non-profit	Donations	Volunteer
Cocke	Del Rio Volunteer Fire Department	n/a	Donations	Volunteer
Cocke	Grassy Fork Volunteer Fire Department	Non-profit	Donations	Volunteer
Cocke	Centerview Volunteer Fire Department	Non-profit	Donations	Volunteer
Cocke	Long Creek Volunteer Fire Department	Non-profit	Donations	Volunteer
Cocke	Newport Fire Department	City	Publicly Funded	Career
Cocke	Cocke County Fire Department*	County	Publicly Funded	Career

County	Fire Department	Public or Private	Revenue Source	Career Type
Cocke	Cosby Volunteer Fire Department	Non-profit	Combination	Volunteer
Coffee	Summitville Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Coffee	Manchester Fire & Rescue	City	Publicly Funded	Career
Coffee	Tulahoma Fire Department	City	Publicly Funded	Combination
Coffee	Hillsboro Volunteer Fire Department	Non-profit	Combination	Volunteer
Coffee	AEDC Fire Department	Army	Other	Career
Coffee	New Union Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Coffee	North Coffee County Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Coffee	Hickerson Station Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Crockett	Alamo Fire Department	n/a	Publicly Funded	Volunteer
Crockett	Bells Fire Department	City	Publicly Funded	Volunteer
Crockett	Friendship Fire Department	City	Publicly Funded	Volunteer
Crockett	Gadsden Fire Department	Non-profit	Donations	Volunteer
Crockett	Maury City Fire Department	Town	Publicly Funded	Volunteer
Crockett	Crockett Mills Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Crockett	Frog Jump Volunteer Fire Department	Non-profit	Donations	Volunteer
Cumberland	Fairfield Glade Volunteer Fire Department	Non-profit	Other	Volunteer
Cumberland	Crossville Fire Department	City	Publicly Funded	Combination
Cumberland	Cumberland County Fire Department	County	Publicly Funded	Combination
Davidson	Nashville Airport Fire Department	Airport	Other	Career
Davidson	Goodlettsville Fire Department	City	Publicly Funded	Combination
Davidson	Nashville Fire Department	Metro	Publicly Funded	Career
Decatur	Decaturville Volunteer Fire Department	Town	Publicly Funded	Volunteer
Decatur	Parsons Fire Department	City	Publicly Funded	Volunteer
Decatur	Decatur County Fire Department Station 1	County	Combination	Volunteer
Decatur	Bath Springs Volunteer Fire Department	Non-profit	Donations	Volunteer
Decatur	Jeanette Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Decatur	Woodlawn Shores Volunteer Fire Department	Non-profit	Donations	Volunteer
Decatur	Hydro Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Decatur	Decatur County Fire Department Station 3	County	Publicly Funded	Volunteer
Decatur	Bobs Landing Volunteer Fire Department	Non-profit	n/a	Volunteer
DeKalb	Alexandria Fire Department	Town	Publicly Funded	Volunteer
DeKalb	DeKalb County Fire Department	County	Publicly Funded	Volunteer
DeKalb	Smithville Fire Department	City	Publicly Funded	Volunteer
Dickson	Burns Fire Department	Town	Publicly Funded	Combination
Dickson	Charlotte Volunteer Fire Department	City	Publicly Funded	Volunteer
Dickson	Tennessee City Volunteer Fire Department	Non-profit	Donations	Volunteer
Dickson	White Bluff Volunteer Fire Department	City	Publicly Funded	Combination
Dickson	Vanleer Volunteer Fire Department	Town	Publicly Funded	Volunteer
Dickson	Claylick Volunteer Fire Department	Non-profit	Donations	Volunteer
Dickson	Harpeth Ridge Volunteer Fire Department	Non-profit	Combination	Volunteer
Dickson	Dickson Fire Department	City	Publicly Funded	Combination
Dickson	Cumberland Furnace Volunteer Fire Department	Non-profit	Donations	Volunteer
Dickson	Dickson County Rescue Squad and Fire Services	Non-profit	Donations	Volunteer
Dickson	Sylvia Yellow Creek Volunteer Fire Department	Non-profit	Combination	Volunteer
Dyer	Fowlkes Volunteer Fire Department	n/a	n/a	Volunteer
Dyer	Lenox Volunteer Fire Department	Non-profit	n/a	Volunteer
Dyer	Millsfield Volunteer Fire Department	Non-profit	Donations	Combination
Dyer	Tigrett Volunteer Fire Department	Non-profit	Combination	Volunteer
Dyer	Newbern Volunteer Fire Department	Town	Publicly Funded	Volunteer
Dyer	Trimble Fire Department	Town	Publicly Funded	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Dyer	Bogota Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Dyer	Bonicord Volunteer Fire Department	Non-profit	n/a	Volunteer
Dyer	Bruceville Volunteer Fire Department	Non-profit	n/a	Volunteer
Dyer	Finley Volunteer Fire Department	Non-profit	Combination	Volunteer
Dyer	Dyersburg Fire Department	City	Publicly Funded	Career
Dyer	East Dyer County Volunteer Fire Department	Non-profit	Combination	Volunteer
Dyer	Dyer County Fire Department	County	Publicly Funded	Combination
Fayette	Braden Fire Department	City	Publicly Funded	Volunteer
Fayette	Gallaway Volunteer Fire Department	City	Publicly Funded	Volunteer
Fayette	Moscow Volunteer Fire Department	City	Publicly Funded	Volunteer
Fayette	LaGrange Fire Department	City	Publicly Funded	Volunteer
Fayette	Somerville Fire Department	City	Publicly Funded	Combination
Fayette	Piperton Fire Department	City	Publicly Funded	Volunteer
Fayette	Rossville Fire Department	City	Publicly Funded	Volunteer
Fayette	Oakland Fire Department	City	Publicly Funded	Volunteer
Fayette	Fayette County Fire Department	County	Publicly Funded	Combination
Fentress	Fentress County Fire Department	County	Publicly Funded	Volunteer
Fentress	Allardt Volunteer Fire Department	City	Donations	Volunteer
Fentress	Jamestown Fire Department	County	Publicly Funded	Volunteer
Franklin	Cowan Fire Department	City	Publicly Funded	Volunteer
Franklin	Decherd Fire Department	City	Publicly Funded	Combination
Franklin	Estill Springs Volunteer Fire Department	Town	Publicly Funded	Volunteer
Franklin	Capitol Hill Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Franklin	Huntland Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Franklin	Sewanee Fire Department	University	Publicly Funded	Volunteer
Franklin	North Franklin County Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Franklin	Winchester Fire Department	City	Publicly Funded	Combination
Franklin	Belvidere Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Franklin	Keith Springs Volunteer Fire Department	n/a	Publicly Funded	Volunteer
Franklin	Crow Creek Valley Volunteer Fire Department	n/a	Publicly Funded	Volunteer
Franklin	Lexie Crossroads Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Franklin	Alto Oak Grove Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Franklin	Franklin County Fourth District Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Franklin	Broadview Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Gibson	Yorkville Fire Department	City	Combination	Volunteer
Gibson	Bradford Volunteer Fire Department	City	Publicly Funded	Volunteer
Gibson	Dyer Fire Department	City	Publicly Funded	Volunteer
Gibson	Medina Fire Department	City	Publicly Funded	Volunteer
Gibson	Rutherford Fire Department	City	Publicly Funded	Volunteer
Gibson	Trenton Fire Department	City	Publicly Funded	Combination
Gibson	Town of Gibson Volunteer Fire Department	n/a	Publicly Funded	Volunteer
Gibson	MLAAP Fire & EMS	Army	Other	Career
Gibson	Milan Fire Department	City	Publicly Funded	Combination
Gibson	Humboldt Fire Department	City	Publicly Funded	Career
Gibson	Gibson County Fire Department	County	Publicly Funded	Combination
Giles	Ardmore Fire Department	City	Donations	Volunteer
Giles	Elkton Fire Department	City	Publicly Funded	Volunteer
Giles	Minor Hill Fire Department	City	Publicly Funded	Volunteer
Giles	Pulaski Fire Department	City	Publicly Funded	Combination
Giles	Giles County Fire & Rescue	Non-profit	n/a	Volunteer
Grainger	Thorn Hill Volunteer Fire Department	Non-profit	Donations	Volunteer
Grainger	Rutledge Volunteer Fire Department	Non-profit	Donations	Volunteer
Grainger	Blaine Volunteer Fire Department	Non-profit	Donations	Volunteer
Grainger	Washburn Volunteer Fire Department	Non-profit	Donations	Volunteer
Grainger	Bean Station Volunteer Fire Department	Non-profit	Donations	Volunteer
Greene	South Greene Volunteer Fire Department	Non-profit	Donations	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Greene	Sunnyside Volunteer Fire Department	Non-profit	Donations	Volunteer
Greene	Tusculum Volunteer Fire Department	Non-profit	Donations	Volunteer
Greene	Cedar Creek Volunteer Fire Department	For-profit	Donations	Volunteer
Greene	Newmansville Volunteer Fire Department	Non-profit	Donations	Volunteer
Greene	Town of Mosheim Volunteer Fire Department	Non-profit	n/a	Volunteer
Greene	Mosheim Volunteer Fire Department	Non-profit	Donations	Volunteer
Greene	Camp Creek Volunteer Fire Department	For-profit	Donations	Volunteer
Greene	Caney Branch Volunteer Fire Department	Non-profit	Donations	Volunteer
Greene	Debusk Volunteer Fire Department	Non-profit	Donations	Volunteer
Greene	Greeneville Fire Department	City	Publicly Funded	Combination
Greene	Orebank Volunteer Fire Department	Non-profit	Donations	Volunteer
Greene	St. James Volunteer Fire Department	Non-profit	Donations	Volunteer
Greene	United Volunteer Fire Department	Non-profit	Donations	Volunteer
Greene	McDonald Volunteer Fire Department	Non-profit	Donations	Volunteer
Greene	Midway Volunteer Fire Department	Non-profit	Donations	Volunteer
Grundy	Altamont Volunteer Fire Department	Town	Publicly Funded	Volunteer
Grundy	Beersheba Springs Volunteer Fire Department	Town	Publicly Funded	Volunteer
Grundy	Monteagle Fire & Rescue	Town	Publicly Funded	Volunteer
Grundy	Tracy City Volunteer Fire Department	n/a	Publicly Funded	Volunteer
Grundy	Coalmont Fire Department	City	Publicly Funded	Volunteer
Grundy	Gruetli-Laager Fire Department	n/a	Publicly Funded	Volunteer
Grundy	Pelham Valley Fire & Rescue	Non-profit	Donations	Volunteer
Grundy	Palmer Volunteer Fire Department	Town	Combination	Volunteer
Grundy	SE Grundy County Rescue	Non-profit	Publicly Funded	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Hamblen	North Hamblen County Volunteer Fire Department	Non-profit	Combination	Volunteer
Hamblen	South Hamblen County Volunteer Fire Department	Non-profit	Donations	Volunteer
Hamblen	West Hamblen County Volunteer Fire Department	Non-profit	Combination	Volunteer
Hamblen	Morristown Fire Department	City	Publicly Funded	Career
Hamblen	East Hamblen County Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Hamilton	Tri-Community Volunteer Fire Department	Non-profit	Subscription	Combination
Hamilton	Chattanooga Airport Fire Department	Airport	Subscription	Career
Hamilton	Signal Mountain Fire Department	City	Publicly Funded	Combination
Hamilton	Soddy-Daisy Fire Department	City	Publicly Funded	Volunteer
Hamilton	Lookout Mountain Fire Department	City	Publicly Funded	Career
Hamilton	Red Bank Fire Department	City	Publicly Funded	Combination
Hamilton	East Ridge Fire Department	City	Publicly Funded	Combination
Hamilton	Chattanooga Fire Department	City	Publicly Funded	Career
Hamilton	Dallas Bay Volunteer Fire Department	Non-profit	Donations	Volunteer
Hamilton	Hwy 58 Volunteer Fire Department	Non-profit	Subscription	Combination
Hamilton	Sale Creek Volunteer Fire & Rescue	Non-profit	Publicly Funded	Volunteer
Hamilton	Walden's Ridge Emergency Services	Non-profit	Donations	Volunteer
Hamilton	Mowbray Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Hamilton	Flat Top Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Hamilton	Raccoon Mountain Volunteer Fire Department	Non-profit	Donations	Volunteer
Hamilton	Sequoyah Fire Department	Non-profit	Publicly Funded	Volunteer
Hancock	Sneedville Volunteer Fire Department	Town	Donations	Volunteer
Hancock	Treadway Volunteer Fire Department	n/a	Donations	Volunteer
Hancock	Camps Volunteer Fire Department	Non-profit	Donations	Volunteer
Hancock	Vardy-Blackwater Volunteer Fire Department	Non-profit	Donations	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Hancock	Panther Creek Volunteer Fire Department	Non-profit	Donations	Volunteer
Hancock	Alanthus Hill Volunteer Fire Department	Non-profit	Donations	Volunteer
Hancock	Chestnut Ridge Volunteer Fire Department	Non-profit	Donations	Volunteer
Hardeman	Grand Junction Fire Department	City	Publicly Funded	Volunteer
Hardeman	Hornsby Volunteer Fire Department	Town	Publicly Funded	Volunteer
Hardeman	Middleton Volunteer Fire Department	City	Publicly Funded	Volunteer
Hardeman	Toone Volunteer Fire Department	Town	Combination	Volunteer
Hardeman	Whiteville Fire Department	City	Publicly Funded	Volunteer
Hardeman	Bolivar Fire Department	City	Publicly Funded	Combination
Hardeman	Grand Valley Fire District	n/a	Donations	Volunteer
Hardeman	Saulsbury Fire Department	Town	n/a	Volunteer
Hardeman	Hickory Valley Volunteer Fire Department	Town	n/a	Volunteer
Hardeman	Silerton District 7	Non-profit	Combination	Volunteer
Hardin	Saltillo Volunteer Fire Department	Town	Donations	Volunteer
Hardin	Crump Fire Department	Town	Publicly Funded	Volunteer
Hardin	Savannah Fire Department	City	Publicly Funded	Combination
Hardin	Hardin County Fire Department	County	Publicly Funded	Combination
Hawkins	Bulls Gap Volunteer Fire Department	City	n/a	Volunteer
Hawkins	Persia Volunteer Fire Department	Non-profit	Combination	Volunteer
Hawkins	Rogersville Fire Department	City	Publicly Funded	Combination
Hawkins	Surgoinsville Volunteer Fire Department	City	Publicly Funded	Volunteer
Hawkins	Lakeview Volunteer Fire Department	Non-profit	Combination	Volunteer
Hawkins	Striggersville Volunteer Fire Department	Non-profit	Donations	Volunteer
Hawkins	Clinch Valley Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Hawkins	Mt Carmel Fire Department	City	Publicly Funded	Volunteer
Hawkins	Church Hill Fire Department	City	Publicly Funded	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Hawkins	Holston Army Ammunition Plant Fire Department	Army	Other	Career
Hawkins	Goshen Valley Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Hawkins	Carters Valley Volunteer Fire Department	Non-profit	Donations	Volunteer
Hawkins	Stanley Valley Volunteer Fire Department	Non-profit	Combination	Volunteer
Haywood	Brownsville/Haywood County Fire Department	City-County Combination	Publicly Funded	Combination
Henderson	Scotts Hill Volunteer Fire Department	City	Publicly Funded	Volunteer
Henderson	Lexington Fire Department	City	Publicly Funded	Combination
Henderson	Henderson County Fire Department	County	Publicly Funded	Combination
Henry	Cottage Grove Comm Volunteer Fire Department	Non-profit	Combination	Volunteer
Henry	Henry Fire Department	City	Combination	Volunteer
Henry	Puryear Volunteer Fire Department	City	Publicly Funded	Volunteer
Henry	Springville Volunteer Fire Department	Non-profit	Donations	Volunteer
Henry	Paris Fire Department	City	Publicly Funded	Combination
Henry	Paris Landing Comm Volunteer Fire Department	Non-profit	Donations	Volunteer
Henry	Mansfield Fire Department	Non-profit	Combination	Volunteer
Henry	Oakland Volunteer Fire Department	Town	Donations	Volunteer
Hickman	Hickman County Rescue Squad	County	Donations	Volunteer
Hickman	Centerville Volunteer Fire Department	City	Publicly Funded	Volunteer
Hickman	Pinewood Volunteer Fire Department	Non-profit	n/a	Volunteer
Hickman	Pleasantville Volunteer Fire Department	Non-profit	n/a	Volunteer
Hickman	Shady Grove Volunteer Fire Department	Non-profit	Donations	Volunteer
Houston	Erin Fire Department	City	Publicly Funded	Volunteer
Houston	Tennessee Ridge Fire Department	Town	Publicly Funded	Volunteer
Houston	Houston County Fire Department	County	Publicly Funded	Volunteer
Humphreys	McEwen Fire Department	City	Publicly Funded	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Humphreys	New Johnsonville Fire Department	City	Publicly Funded	Volunteer
Humphreys	Waverly Fire Department	City	Publicly Funded	Career
Humphreys	Humphreys County Fire Department	County	n/a	Volunteer
Humphreys	Bold Springs/Poplar Grove Fire Department	Non-profit	Combination	Volunteer
Jackson	Nameless Volunteer Fire Department	Non-profit	Donations	Volunteer
Jackson	Gainesboro City Fire Department	City	Publicly Funded	Volunteer
Jackson	South Side Volunteer Fire Department	Non-profit	Donations	Volunteer
Jackson	Jackson County Central Volunteer Fire Department	Non-profit	Donations	Volunteer
Jackson	Dodson Branch Volunteer Fire Department	Non-profit	Donations	Volunteer
Jackson	Flynns Lick Volunteer Fire Department	Non-profit	Donations	Volunteer
Jackson	West End Volunteer Fire Department	Non-profit	Donations	Volunteer
Jackson	Granville Volunteer Fire Department	n/a	Donations	Volunteer
Jackson	Jennings Creek Volunteer Fire Department	Non-profit	Donations	Volunteer
Jackson	Fairview Volunteer Fire Department	Non-profit	Donations	Volunteer
Jefferson	Dandridge Volunteer Fire Department	City	Publicly Funded	Volunteer
Jefferson	White Pine Volunteer Fire Department	Town	Publicly Funded	Volunteer
Jefferson	Lakeway Central Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Jefferson	New Market Volunteer Fire Department	Non-profit	Donations	Volunteer
Jefferson	KansasTalbott Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Jefferson	Chestnut Hill Volunteer Fire Department	n/a	Publicly Funded	Volunteer
Jefferson	Baneberry Volunteer Fire Department	City	Publicly Funded	Volunteer
Jefferson	Jefferson City Fire Department	City	Publicly Funded	Combination
Jefferson	Parrotts Chapel Community Fire Department	Non-profit	n/a	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Johnson	Neva Volunteer Fire Department	Non-profit	Donations	Volunteer
Johnson	Mountain City Fire Department	Town	Publicly Funded	Volunteer
Johnson	First District Volunteer Fire Department	Non-profit	Donations	Volunteer
Johnson	Shady Valley Volunteer Fire Department	Non-profit	Combination	Volunteer
Johnson	Second District Volunteer Fire Department	Non-profit	Donations	Volunteer
Johnson	Doe Valley Volunteer Fire Department	Non-profit	Donations	Volunteer
Johnson	Dry Run Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Johnson	Butler Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Johnson	Trade Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Knox	Heiskell Volunteer Fire Department	Non-profit	Donations	Volunteer
Knox	Knoxville Fire Department	City	Publicly Funded	Career
Knox	Karns Volunteer Fire Department	Non-profit	Donations	Combination
Knox	Rural Metro Fire Department	For-profit	Subscription	Combination
Lake	Ridgely Fire Department	City	Publicly Funded	Combination
Lake	Tiptonville Fire Department	City	Publicly Funded	Combination
Lauderdale	Gates Fire Department	City	Publicly Funded	Volunteer
Lauderdale	Halls Fire Department	City	Publicly Funded	Volunteer
Lauderdale	Henning Volunteer Fire Department	Town	Publicly Funded	Volunteer
Lauderdale	Ripley Fire Department	City	Publicly Funded	Combination
Lauderdale	West Lauderdale County Volunteer Fire Department	Non-profit	Combination	Volunteer
Lauderdale	NW Lauderdale County Volunteer Fire Department	Non-profit	Other	Volunteer
Lauderdale	East Lauderdale County Volunteer Fire Department	Non-profit	Donations	Volunteer
Lawrence	Iron City Fire Department	Non-profit	Publicly Funded	Volunteer
Lawrence	New Prospect Fire Department	Non-profit	Publicly Funded	Volunteer
Lawrence	Loretto Fire & Rescue	City	Publicly Funded	Volunteer
Lawrence	St Joseph Fire Department	City	Other	Volunteer
Lawrence	Center Point Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Lawrence	Henryville Volunteer Fire Department	Non-profit	Donations	Volunteer
Lawrence	Leoma Fire & Rescue	Non-profit	Publicly Funded	Volunteer
Lawrence	West End Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Lawrence	Gandy Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Lawrence	West Point Volunteer Fire Department	n/a	Combination	Volunteer
Lawrence	Lawrenceburg Fire Department	City	Publicly Funded	Combination
Lawrence	Summertown Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Lawrence	Ethridge Fire Department	Non-profit	Donations	Volunteer
Lawrence	Lawrence County Rescue Squad	Non-profit	Donations	Volunteer
Lawrence	SE Lawrence County Volunteer Fire Department	n/a	n/a	Volunteer
Lawrence	Crossroads Fire Department	n/a	Combination	Volunteer
Lewis	Hohenwald Volunteer Fire Department	City	Publicly Funded	Combination
Lewis	Lewis County Fire Department	County	Publicly Funded	Volunteer
Lincoln	Petersburg Fire Department	Town	Publicly Funded	Volunteer
Lincoln	Fayetteville Fire Department	City	Publicly Funded	Combination
Lincoln	Lincoln County Volunteer Fire Department	County	Publicly Funded	Volunteer
Loudon	Lenoir City Fire Department	City	Publicly Funded	Career
Loudon	Loudon Fire Department	City	Publicly Funded	Combination
Loudon	Philadelphia Fire Department	City	Publicly Funded	Volunteer
Loudon	Greenback Volunteer Fire Department	City	Subscription	Combination
Loudon	Tellico Village Volunteer Fire Department	Non-profit	Other	Volunteer
Loudon	Loudon County Fire & Rescue	Non-profit	Donations	Volunteer
Macon	Lafayette Fire Department	City	Publicly Funded	Combination
Macon	Red Boiling Springs Fire Department	City	Publicly Funded	Volunteer
Macon	Willette Volunteer Fire Department	n/a	n/a	Volunteer
Madison	Jackson Fire Department	City	Publicly Funded	Career
Madison	Madison County Fire Department	County	Publicly Funded	Combination

County	Fire Department	Public or Private	Revenue Source	Career Type
Marion	Kimball Volunteer Fire Department	City	Publicly Funded	Volunteer
Marion	New Hope Volunteer Fire Department	City	Publicly Funded	Volunteer
Marion	Crossroads Volunteer Fire Department	n/a	Publicly Funded	Volunteer
Marion	Suck Creek Mountain Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Marion	South Pittsburg Volunteer Fire Department	Non-profit	Publicly Funded	Combination
Marion	Whitwell Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Marion	Jasper Fire Department	City	Publicly Funded	Combination
Marion	Orme Fire Department	n/a	Publicly Funded	Volunteer
Marion	Mullins Cove Fire Department	Non-profit	Publicly Funded	Volunteer
Marion	West Valley Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Marion	Haletown Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Marion	Foster Falls Volunteer Fire Department	Non-profit	Donations	Volunteer
Marion	Sweetens Cove Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Marion	Whitwell Mountain Fire & Rescue	Non-profit	Publicly Funded	Volunteer
Marion	South Pittsburg Mountain Volunteer Fire Department	City	Combination	Volunteer
Marion	Sequatchie Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Marion	Battle Creek Fire Department	Non-profit	Donations	Volunteer
Marion	Irondale Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Marshall	Sanford LMTC Fire Brigade	Private	n/a	Career
Marshall	Chapel Hill Volunteer Fire Department	City	Donations	Combination
Marshall	Cornersville Fire Department	Non-profit	Publicly Funded	Volunteer
Marshall	Lewisburg Fire Department	City	n/a	Career
Marshall	Belfast Fire Department	Non-profit	Donations	Volunteer
Marshall	Five Points Volunteer Fire Department	Non-profit	Donations	Volunteer
Marshall	Mooreville Fire Department	Non-profit	Publicly Funded	Volunteer
Marshall	Berlin Fire Department	Non-profit	Donations	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Marshall	South Marshall Rural Volunteer Fire Department	Non-profit	Donations	Volunteer
Marshall	Farmington Rich Creek Fire Department	Non-profit	Donations	Volunteer
Marshall	Caney Springs Volunteer Fire Department	Non-profit	n/a	Combination
Maury	Mt Pleasant Fire Department	City	Publicly Funded	Combination
Maury	Spring Hill Volunteer Fire Department	City	Publicly Funded	Combination
Maury	Culleoka Volunteer Fire Department	Non-profit	Donations	Volunteer
Maury	Theta Volunteer Fire Department	Non-profit	Donations	Volunteer
Maury	Duck River Basin Fire & Rescue	n/a	Donations	Volunteer
Maury	Williamsport Volunteer Fire Department	n/a	Donations	Volunteer
Maury	Columbia Fire Department	City	Publicly Funded	Career
Maury	Maury County Rural Fire Department	County	Combination	Volunteer
Maury	East Maury Rural Fire Department	n/a	Other	Volunteer
Maury	Mynders Volunteer Fire Department	For-profit	Donations	Volunteer
Maury	Hampshire Volunteer Fire Department	n/a	Donations	Volunteer
Maury	Santa Fe Volunteer Fire Department	n/a	n/a	Volunteer
Maury	Mt Pleasant Volunteer Fire Department	City	Other	Volunteer
Maury	Bethel Fire Department	n/a	n/a	Volunteer
McMinn	Calhoun Volunteer Fire Department	n/a	Publicly Funded	Volunteer
McMinn	Englewood Rural Fire Department	Non-profit	Donations	Volunteer
McMinn	Riceville Fire Department	Non-profit	Donations	Volunteer
McMinn	Etowah Rural Fire Department	n/a	Donations	Volunteer
McMinn	Englewood Fire Department	Town	Publicly Funded	Volunteer
McMinn	Niota Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
McMinn	Athens Fire Department	City	Publicly Funded	Combination
McMinn	Etowah City Fire Department	City	Publicly Funded	Combination
McMinn	McMinn County Wide Rural Fire Department	County	n/a	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
McMinn	Athens Rural Fire Department	n/a	Combination	Volunteer
McMinn	Union Grove Volunteer Fire Department	County	Publicly Funded	Volunteer
McMinn	Claxton Community Volunteer Emergency Services	County	Donations	Volunteer
McMinn	Clearwater Volunteer Fire Department	County	n/a	Volunteer
McMinn	Idlewild Volunteer Fire Department	n/a	Combination	Volunteer
McMinn	Hillsview Volunteer Fire Department	County	n/a	Volunteer
McNairy	Guys Volunteer Fire Department	Town	Publicly Funded	Volunteer
McNairy	Adamsville Fire Department	City	Publicly Funded	Volunteer
McNairy	Bethel Springs Fire Department	City	Publicly Funded	Volunteer
McNairy	Michie Volunteer Fire Rescue	n/a	Publicly Funded	Volunteer
McNairy	Ramer Volunteer Fire Department	City	Publicly Funded	Volunteer
McNairy	Selmer Fire Department	City	Publicly Funded	Combination
McNairy	Milledgeville Volunteer Fire Department	n/a	Publicly Funded	Volunteer
McNairy	Town of Stantonville Volunteer Fire Department	n/a	Donations	Volunteer
McNairy	Eastview Volunteer Fire Department	Town	n/a	Volunteer
McNairy	Finger Volunteer Fire Department	City	n/a	Volunteer
McNairy	McNairy County Volunteer Fire Department	County	Publicly Funded	Combination
Meigs	Decatur Volunteer Fire Department	County	Publicly Funded	Volunteer
Meigs	Meigs County EMS	County	Publicly Funded	Volunteer
Monroe	Madisonville Fire Department	City	Publicly Funded	Combination
Monroe	Mt Vernon Volunteer Fire Department	Non-profit	Combination	Volunteer
Monroe	Ball Play Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Monroe	Sweetwater Fire Department	City	Publicly Funded	Combination
Monroe	Tellico Plains Volunteer Fire Department	n/a	Publicly Funded	Volunteer
Monroe	Vonore Volunteer Fire Department	Town	Publicly Funded	Combination

County	Fire Department	Public or Private	Revenue Source	Career Type
Monroe	Monroe Tri-Community Volunteer Fire Department	For-profit	Donations	Volunteer
Monroe	Notchey Creek Volunteer Fire Department	n/a	Donations	Volunteer
Monroe	Conasauga Valley Fire Department	Non-profit	Publicly Funded	Volunteer
Monroe	Rafter Volunteer Fire Department	Non-profit	Donations	Volunteer
Monroe	Turkey Creek Volunteer Fire Department	Non-profit	Combination	Volunteer
Monroe	Coker Creek Volunteer Fire Department	Non-profit	Donations	Volunteer
Monroe	Hopewell Volunteer Fire Department	Non-profit	Donations	Volunteer
Monroe	Citico Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Monroe	Christianburg Fire Department	Non-profit	Donations	Volunteer
Monroe	North Monroe Volunteer Fire Department	Non-profit	Donations	Volunteer
Monroe	Gudger Comm Volunteer Fire Department	Non-profit	Donations	Volunteer
Monroe	Tellico Plains Rural Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Montgomery	Fort Campbell Fire Department	Army	Other	Career
Montgomery	Clarksville Fire Department	City	Publicly Funded	Career
Montgomery	Montgomery County EMA	County	Publicly Funded	Volunteer
Moore	Metro Moore Volunteer Fire Department	County	Publicly Funded	Volunteer
Moore	Jack Daniels Fire Brigade	Private	Other	Volunteer
Morgan	Deer Lodge Volunteer Fire Department	Non-profit	Donations	Volunteer
Morgan	Oakdale Area Volunteer Fire Department	Non-profit	Donations	Volunteer
Morgan	Petros Volunteer Fire Department	Non-profit	Other	Volunteer
Morgan	Wartburg Volunteer Fire Department	Non-profit	Donations	Volunteer
Morgan	Joyner Volunteer Fire Department	Non-profit	Combination	Volunteer
Morgan	Burrville Volunteer Fire Department	For-profit	Combination	Volunteer
Morgan	Coalfield Volunteer Fire Department	Non-profit	Donations	Volunteer
Morgan	Clear Fork Fire Department	Non-profit	Combination	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Morgan	Sunbright Area Fire Department	Non-profit	Donations	Volunteer
Morgan	Chestnut Ridge Volunteer Fire Department	Non-profit	Donations	Volunteer
Obion	Hornbeak Volunteer Fire Department	City	Publicly Funded	Volunteer
Obion	Kenton Fire Department	City	Publicly Funded	Volunteer
Obion	Obion Fire Department	City	Publicly Funded	Volunteer
Obion	Samburg Reelfoot Volunteer Fire Department	Town	Combination	Volunteer
Obion	South Fulton Fire Department	City	Publicly Funded	Combination
Obion	Troy Fire Department	City	Publicly Funded	Volunteer
Obion	Rives Volunteer Fire Department	City	Publicly Funded	Volunteer
Obion	Union City Fire Department	City	Publicly Funded	Career
Obion	Obion County Rescue Squad	Non-profit	Other	Volunteer
Overton	Livingston Volunteer Fire Department	City	Publicly Funded	Combination
Overton	Monroe Volunteer Fire Department	n/a	Donations	Volunteer
Overton	Allons Volunteer Fire Department	Non-profit	Donations	Volunteer
Overton	Hilham Volunteer Fire Department	Non-profit	Donations	Volunteer
Overton	Rickman Volunteer Fire Department	Non-profit	Combination	Volunteer
Overton	Fairgrounds Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Overton	Muddy Pond Volunteer Fire Department	Non-profit	Donations	Volunteer
Overton	Alpine Volunteer Fire Department	Non-profit	Donations	Volunteer
Overton	Hardys Chapel Volunteer Fire Department	Non-profit	Donations	Volunteer
Overton	Mountain Volunteer Fire Department	Non-profit	Donations	Volunteer
Overton	Timothy Volunteer Fire Department	Non-profit	Donations	Volunteer
Overton	Taylor's Crossroads Volunteer Fire Department	Non-profit	Donations	Volunteer
Overton	Dry Hollow Volunteer Fire Department	Non-profit	Other	Volunteer
Perry	Linden Fire Department	Town	Publicly Funded	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Perry	Lobelville Volunteer Fire Department	City	Publicly Funded	Volunteer
Perry	Perry County Rescue Squad	County	Publicly Funded	Volunteer
Perry	Pineview Volunteer Fire Department	Non-profit	Donations	Volunteer
Perry	Pope Volunteer Fire Department	Non-profit	Donations	Volunteer
Perry	Flatwoods Volunteer Fire Department	Non-profit	n/a	Volunteer
Perry	Cedar Creek Volunteer Fire Department	Non-profit	Donations	Volunteer
Pickett	Byrdstown Pickett County Volunteer Fire Department	City-County Combination	Publicly Funded	Volunteer
Polk	Benton Fire Department	n/a	Publicly Funded	Combination
Polk	Copperhill Volunteer Fire Department	n/a	Publicly Funded	Volunteer
Polk	West Polk County Fire & Rescue	Non-profit	Publicly Funded	Volunteer
Polk	East Polk County Fire & Rescue	Non-profit	Publicly Funded	Volunteer
Putnam	Algood Volunteer Fire Department	City	Publicly Funded	Volunteer
Putnam	Baxter Volunteer Fire Department	City	Publicly Funded	Volunteer
Putnam	Monterey Fire Department	Town	Publicly Funded	Volunteer
Putnam	Cookeville Fire Department	City	Publicly Funded	Career
Putnam	Putnam County Volunteer Fire Department	County	Publicly Funded	Volunteer
Rhea	Dayton Fire Department	City	Publicly Funded	Combination
Rhea	Graysville Volunteer Fire Department	City	Publicly Funded	Volunteer
Rhea	Rhea County Fire Department	County	Publicly Funded	Volunteer
Rhea	Spring City Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Roane	Blair Volunteer Fire Department	Non-profit	Donations	Volunteer
Roane	South Roane County Volunteer Fire Department	Non-profit	Donations	Volunteer
Roane	Kingston Fire Department	City	Publicly Funded	Combination
Roane	Oliver Springs Fire Department	City	Publicly Funded	Volunteer
Roane	East Roane County Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Roane	Harriman Fire Department	City	Publicly Funded	Combination
Roane	Rockwood Fire Department	City	Publicly Funded	Combination

County	Fire Department	Public or Private	Revenue Source	Career Type
Roane	Midtown First District Volunteer Fire Department	n/a	Publicly Funded	Volunteer
Roane	West Roane County Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Roane	Roane County Office of Emergency Services	County	Publicly Funded	Combination
Robertson	Ridgetop Volunteer Fire Department	City	Publicly Funded	Volunteer
Robertson	Adams Volunteer Fire Department	City	Publicly Funded	Volunteer
Robertson	Cross Plains Volunteer Fire Department	City	Other	Volunteer
Robertson	Greenbrier Fire Department	City	Publicly Funded	Combination
Robertson	White House Fire Department	City	Publicly Funded	Combination
Robertson	Orlinda Volunteer Fire Department	City	Publicly Funded	Volunteer
Robertson	White House Comm Volunteer Fire Department	City	Publicly Funded	Volunteer
Robertson	Springfield Fire Department	City	Publicly Funded	Combination
Robertson	Robertson County Rescue Squad & Fire Department	Non-profit	Publicly Funded	Volunteer
Robertson	North Robertson Fire & Rescue	Non-profit	n/a	Volunteer
Rutherford	Smyrna Airport Fire Department*	Airport	Other	Career
Rutherford	Salem-Blackman Volunteer Fire Department*	Non-profit	Publicly Funded	Volunteer
Rutherford	Almaville Volunteer Fire Department	Non-profit	Combination	Volunteer
Rutherford	Eagleville Fire Department*	Non-profit	Combination	Combination
Rutherford	Lascassas Volunteer Fire Department	Non-profit	Combination	Volunteer
Rutherford	La Vergne Fire Department	City	Publicly Funded	Career
Rutherford	Walter Hill Volunteer Fire Department*	Non-profit	Combination	Volunteer
Rutherford	Christiana Volunteer Fire Department	Non-profit	Combination	Volunteer
Rutherford	Rutherford County Fire Department Inc*	Non-profit	Publicly Funded	Career
Rutherford	Smyrna Fire Department	City	Publicly Funded	Career
Rutherford	SE Rutherford Fire Department INC*	Non-profit	Publicly Funded	Volunteer
Rutherford	Murfreesboro Fire Department	City	Publicly Funded	Career
Rutherford	Fosterville Fire Department*	Non-profit	Combination	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Rutherford	Kittrell Volunteer Fire Department*	Non-profit	Combination	Volunteer
Rutherford	Rockvale Volunteer Fire Department	Non-profit	Combination	Volunteer
Scott	Oneida Fire Department	Town	Publicly Funded	Volunteer
Scott	Huntsville Fire Department	City	Publicly Funded	Volunteer
Scott	Winfield Volunteer Fire Department	For-profit	Publicly Funded	Volunteer
Scott	South Scott County Volunteer Fire Department	Non-profit	Donations	Volunteer
Scott	East 63 Volunteer Fire Department	Non-profit	Donations	Volunteer
Scott	Seventh District Volunteer Fire Department	Non-profit	Donations	Volunteer
Scott	Mid County Volunteer Fire Department	Non-profit	Donations	Volunteer
Scott	Paint Rock Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Scott	Pine Hill Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Sequatchie	Dunlap Volunteer Fire Department	City	Publicly Funded	Volunteer
Sequatchie	Lone Oak Volunteer Fire Department	Non-profit	Combination	Volunteer
Sequatchie	Lewis Chapel Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Sequatchie	Cagle Volunteer Fire Department	n/a	Publicly Funded	Volunteer
Sequatchie	Fredonia Volunteer Fire Department	n/a	Donations	Volunteer
Sequatchie	Southend Volunteer Fire Department	n/a	Donations	Volunteer
Sevier	Wears Valley Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Sevier	Gatlinburg Fire Department	City	Publicly Funded	Combination
Sevier	Northview Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Sevier	Pigeon Forge Fire Department	City	Publicly Funded	Combination
Sevier	Sevierville Fire Department	City	Publicly Funded	Career
Sevier	Seymour Volunteer Fire Department	Non-profit	Combination	Volunteer
Sevier	Walden's Creek Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Sevier	Pittman Center Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Sevier	English Mountain Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Sevier	Sevier County Volunteer Fire Department	Non-profit	n/a	Volunteer
Sevier	Catons Chapel Volunteer Fire Department	Non-profit	Donations	Volunteer
Shelby	Memphis Refinery Fire Department	Private	Other	Combination
Shelby	Germantown Fire Department	City	Publicly Funded	Combination
Shelby	Collierville Fire & Rescue	City	Publicly Funded	Combination
Shelby	Arlington Fire Department	City	Publicly Funded	Combination
Shelby	Bartlett Fire Department	City	Publicly Funded	Combination
Shelby	Millington Fire Department	City	Publicly Funded	Combination
Shelby	Memphis Fire Services	City	Publicly Funded	Career
Shelby	Shelby County Fire Department	County	Publicly Funded	Career
Smith	Carthage Fire Department	County	Publicly Funded	Volunteer
Smith	Gordonsville Fire Department	City	Publicly Funded	Volunteer
Smith	South Carthage Fire Department	Town	Publicly Funded	Volunteer
Smith	Smith County Fire Department Central District	Non-profit	Publicly Funded	Volunteer
Smith	Rock City-Rome Fire Department	Non-profit	Donations	Volunteer
Smith	Forks River Fire Department	n/a	n/a	Volunteer
Smith	Defeated Creek Fire Department Dist 3	n/a	n/a	Volunteer
Smith	Riddleton-Dixon Springs Fire Department Dist 5	n/a	Donations	Volunteer
Smith	Lancaster Fire Department Dist 6	n/a	Publicly Funded	Volunteer
Smith	New Middleton-Grant Fire Department Dist 7	n/a	n/a	Volunteer
Smith	Pleasant Shade Fire Department Dist 8	n/a	Publicly Funded	Volunteer
Smith	Sykes Volunteer Fire Department Dist 1	n/a	n/a	Volunteer
Stewart	Dover Volunteer Fire Department	City	Publicly Funded	Volunteer
Stewart	Stewart County Fire Services	Non-profit	Publicly Funded	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Sullivan	Tricities Regional Airport Fire Department	Airport	Other	Career
Sullivan	Sullivan West Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Sullivan	Avoca Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Sullivan	Bluff City Volunteer Fire Department	For-profit	Publicly Funded	Volunteer
Sullivan	Hickory Tree Volunteer Fire Department Inc	Non-profit	Publicly Funded	Volunteer
Sullivan	Piney Flats Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Sullivan	Bloomington Volunteer Fire Department Inc	Non-profit	Publicly Funded	Volunteer
Sullivan	East Sullivan County Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Sullivan	Bristol Fire Department	City	Publicly Funded	Career
Sullivan	Kingsport Fire Department	City	Publicly Funded	Career
Sullivan	Sullivan County Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Sullivan	Warriors Path Volunteer Fire Department	Non-profit	Donations	Volunteer
Sullivan	421 Area Emergency Services Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Sumner	Hendersonville Fire Department	City	Publicly Funded	Career
Sumner	Portland Fire Department	City	Publicly Funded	Combination
Sumner	Westmoreland Volunteer Fire Department	City	Combination	Volunteer
Sumner	Millersville Fire Department	City	Publicly Funded	Combination
Sumner	Number One Volunteer Fire Department	Non-profit	Subscription	Volunteer
Sumner	Mitchellville Volunteer Fire Department	Town	n/a	Volunteer
Sumner	Gallatin Fire Department	City	Publicly Funded	Combination
Sumner	Shackle Island Volunteer Fire Department	Non-profit	Donations	Volunteer
Sumner	Cottontown Fire Department	Non-profit	Donations	Volunteer
Sumner	Gallatin Volunteer Fire Department	Non-profit	Donations	Volunteer
Sumner	Southeast Community Fire Department Inc	Non-profit	Subscription	Volunteer
Sumner	Highland Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer

County	Fire Department	Public or Private	Revenue Source	Career Type
Sumner	Oak Grove Comm Fire District	Non-profit	Donations	Volunteer
Tipton	Munford Fire Department	City	Publicly Funded	Combination
Tipton	Brighton Fire Department	City	Publicly Funded	Combination
Tipton	Atoka Fire Department	City	Publicly Funded	Combination
Tipton	Garland Volunteer Fire Department	Town	Publicly Funded	Volunteer
Tipton	Mason Fire Department	Town	Publicly Funded	Combination
Tipton	Quito Volunteer Fire Department	Non-profit	Donations	Volunteer
Tipton	Gilt Edge Volunteer Fire Department	Town	Publicly Funded	Volunteer
Tipton	Three Star Volunteer Fire Department	Non-profit	Subscription	Volunteer
Tipton	Drummonds Volunteer Fire Department	n/a	n/a	Volunteer
Tipton	Covington Fire Department	City	Publicly Funded	Combination
Tipton	Munford Rural Fire Services	City	Publicly Funded	Combination
Tipton	Charleston Volunteer Fire Department	Non-profit	Donations	Volunteer
Trousdale	Hartsville Fire Department	City-County Combination	Publicly Funded	Volunteer
Unicoi	Town of Erwin Fire Department	City	Publicly Funded	Combination
Unicoi	Southside Volunteer Fire Department	Non-profit	Combination	Volunteer
Unicoi	Limestone Cove Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Unicoi	Unicoi Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Union	Maynardville Volunteer Fire Department	Town	Publicly Funded	Volunteer
Union	Luttrell Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Union	Union County Rescue Squad & Fire Services	Non-profit	n/a	Volunteer
Union	Sharps Chapel Volunteer Fire Department	Non-profit	Donations	Volunteer
Union	NE Union County Volunteer Fire Department	Non-profit	Donations	Volunteer
Union	Paulette Volunteer Fire Department	Non-profit	Combination	Volunteer
Van Buren	Cedar Grove Fire CO	n/a	Publicly Funded	Volunteer
Van Buren	Piney Volunteer Fire Department	Non-profit	Donations	Volunteer

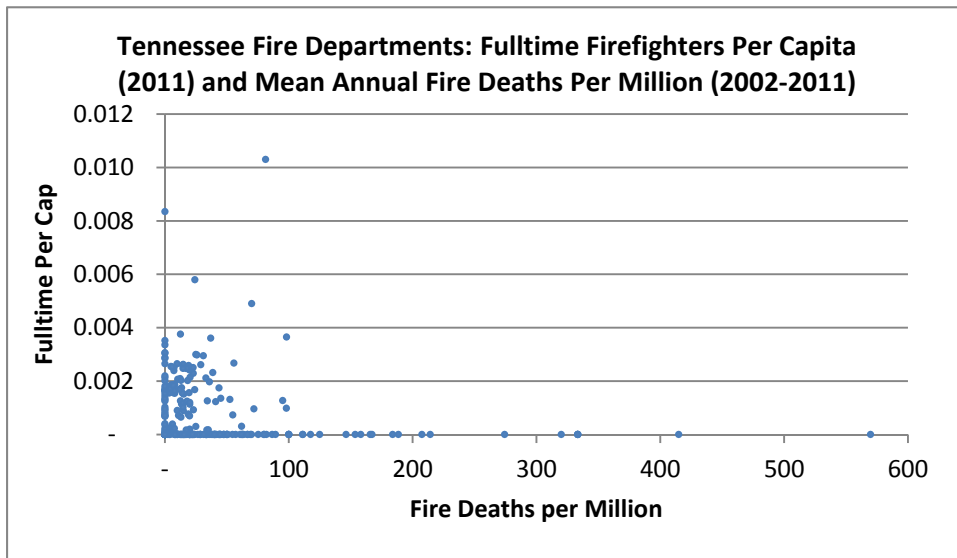
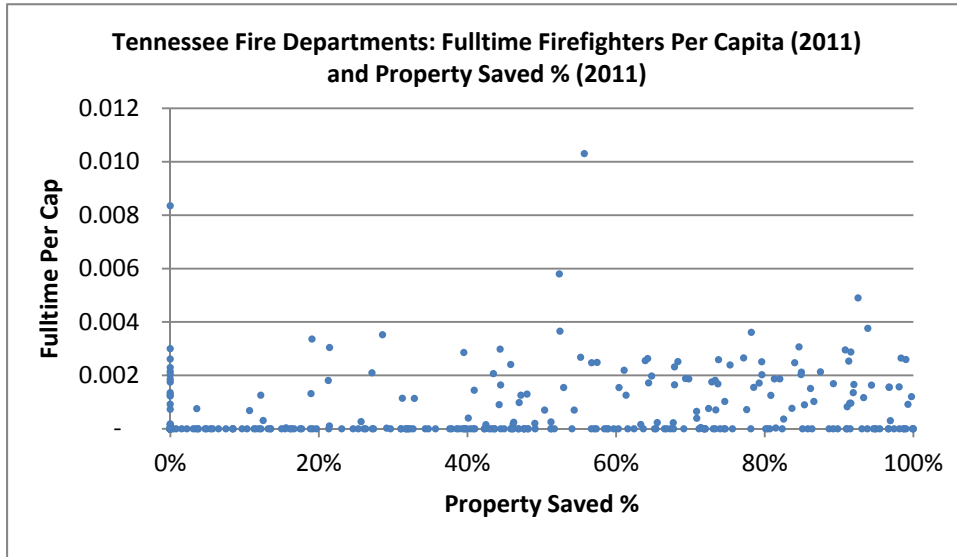
County	Fire Department	Public or Private	Revenue Source	Career Type
Van Buren	Fall Creek Falls Fire Department	Non-profit	Combination	Volunteer
Van Buren	Rocky River Volunteer Fire Department	n/a	Publicly Funded	Volunteer
Van Buren	Spencer Volunteer Fire Department	n/a	Publicly Funded	Volunteer
Warren	Centertown Comm Volunteer Fire Department	Non-profit	Subscription	Volunteer
Warren	Morrison Fire Department	City	Subscription	Volunteer
Warren	Viola Fire Department	Non-profit	Subscription	Volunteer
Warren	North Warren Volunteer Fire Department	Non-profit	Subscription	Volunteer
Warren	Rock Island/Campaign Volunteer Fire Department	Non-profit	Subscription	Volunteer
Warren	Collins River Volunteer Fire Department	Non-profit	Subscription	Volunteer
Warren	McMinnville Fire Department	City	Publicly Funded	Career
Warren	Harrison Ferry Volunteer Fire Department	Non-profit	Donations	Volunteer
Washington	Fall Branch Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Washington	Gray Volunteer Fire Department	For-profit	Publicly Funded	Volunteer
Washington	Jonesborough Fire Department	City	Publicly Funded	Combination
Washington	Sulphur Springs Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Washington	Embreeville Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Washington	Johnson City Fire Department	City	Publicly Funded	Career
Washington	Nolichucky Valley Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Washington	Limestone Volunteer Fire Department	Non-profit	Combination	Volunteer
Wayne	Collinwood Volunteer Fire Department	City	Publicly Funded	Volunteer
Wayne	Waynesboro Fire Department	City	Publicly Funded	Volunteer
Wayne	Southgate Volunteer Fire Department	Non-profit	Donations	Volunteer
Wayne	Cypress Inn Volunteer Fire Department	n/a	Donations	Volunteer
Wayne	Clifton Volunteer Fire Department	City	Publicly Funded	Volunteer
Wayne	Lutts Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer

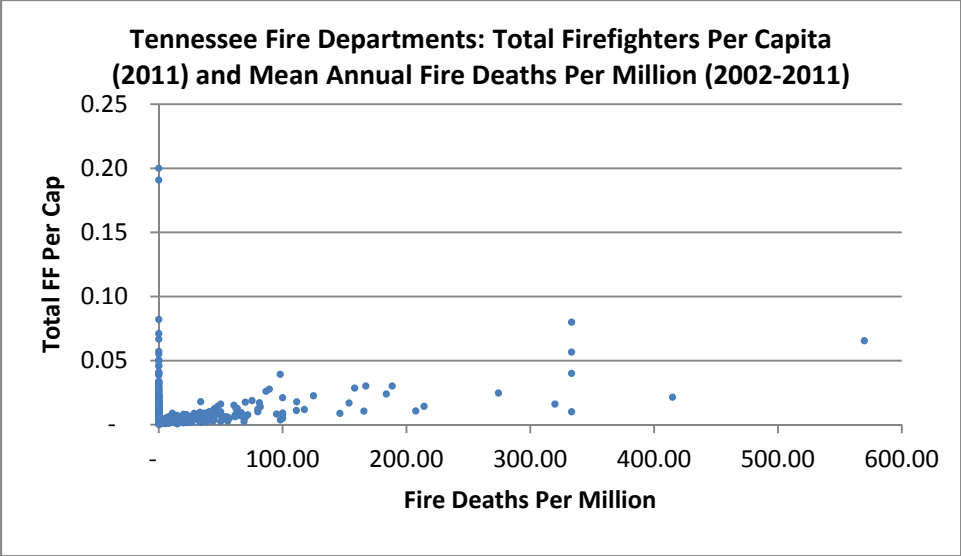
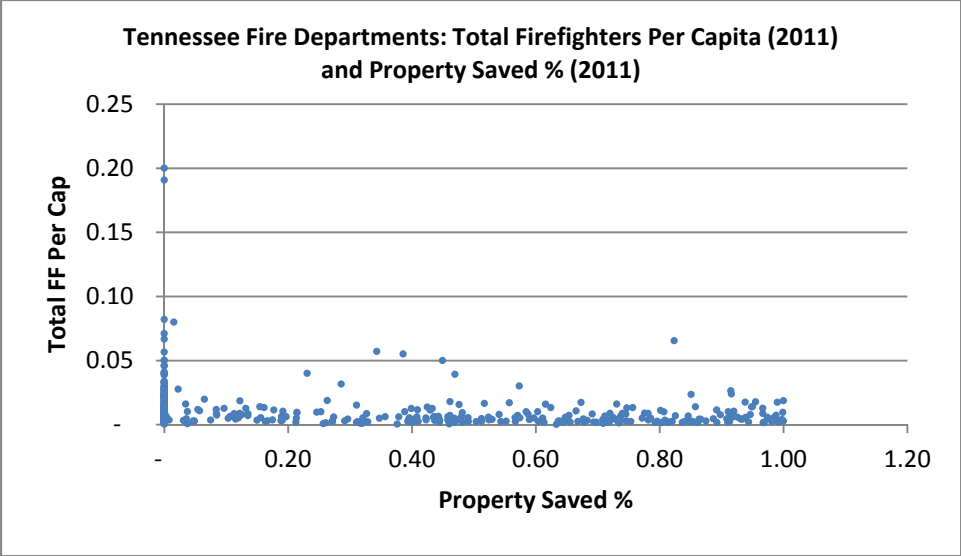
County	Fire Department	Public or Private	Revenue Source	Career Type
Wayne	Wayne County EMA	County	Publicly Funded	Volunteer
Wayne	Buffalo River Comm Ctr & Fire Department	Non-profit	n/a	Volunteer
Wayne	Hwy 69 Volunteer Fire Department	Non-profit	Donations	Volunteer
Wayne	Beech Creek Volunteer Fire Department	n/a	Donations	Volunteer
Wayne	Ovilla Volunteer Fire Department	Non-profit	n/a	Volunteer
Wayne	Holly Creek Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Wayne	Eagle Creek Volunteer Fire Department	Non-profit	n/a	Volunteer
Weakley	Dresden Fire Department	City	Combination	Volunteer
Weakley	Gleason Fire Department	Town	Publicly Funded	Volunteer
Weakley	Greenfield Fire Department	City	Publicly Funded	Combination
Weakley	Sharon Fire Department	Town	Publicly Funded	Combination
Weakley	Palmersville Volunteer Fire Department	Non-profit	Donations	Volunteer
Weakley	Sidonia Volunteer Fire Department	Non-profit	Donations	Volunteer
Weakley	Martin Fire Department	City	Publicly Funded	Combination
Weakley	Pillowville Volunteer Fire Department	Non-profit	Subscription	Volunteer
Weakley	Weakley County Rescue Squad	n/a	Other	Volunteer
Weakley	Ore Springs-Como Volunteer Fire Department	Non-profit	Combination	Volunteer
Weakley	Latham Dukedom Fire Department	Non-profit	Subscription	Volunteer
White	Doyle Volunteer Fire Department	Town	Publicly Funded	Volunteer
White	Cassville Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
White	Central View Volunteer Fire Department	n/a	Donations	Volunteer
White	Bon De Croft Volunteer Fire Department	Non-profit	Combination	Volunteer
White	Cherry Creek Volunteer Fire Department	Non-profit	Donations	Volunteer
White	Eastland Fire Department	n/a	Publicly Funded	Volunteer
White	Hickory Valley Volunteer Fire Department	City	Combination	Volunteer
White	North End Fire Department	Non-profit	Publicly Funded	Volunteer

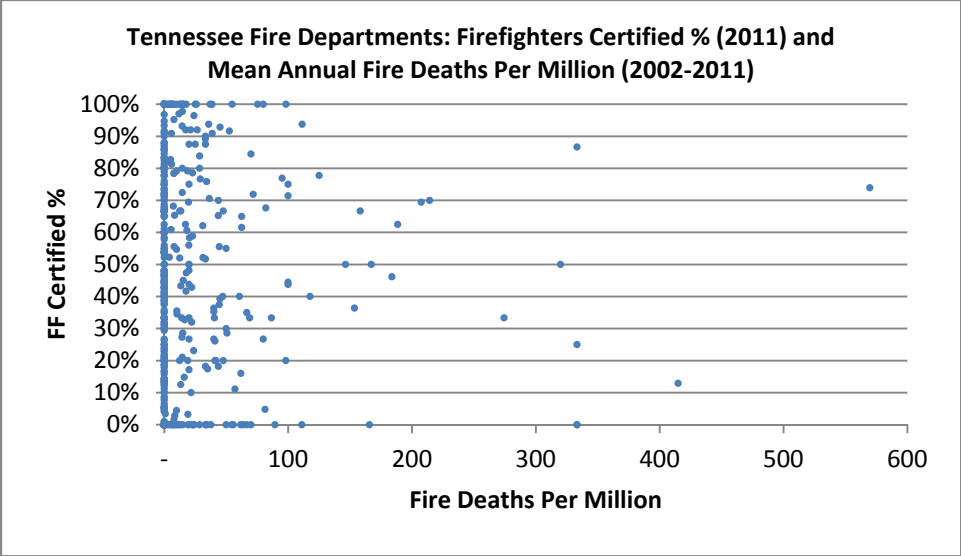
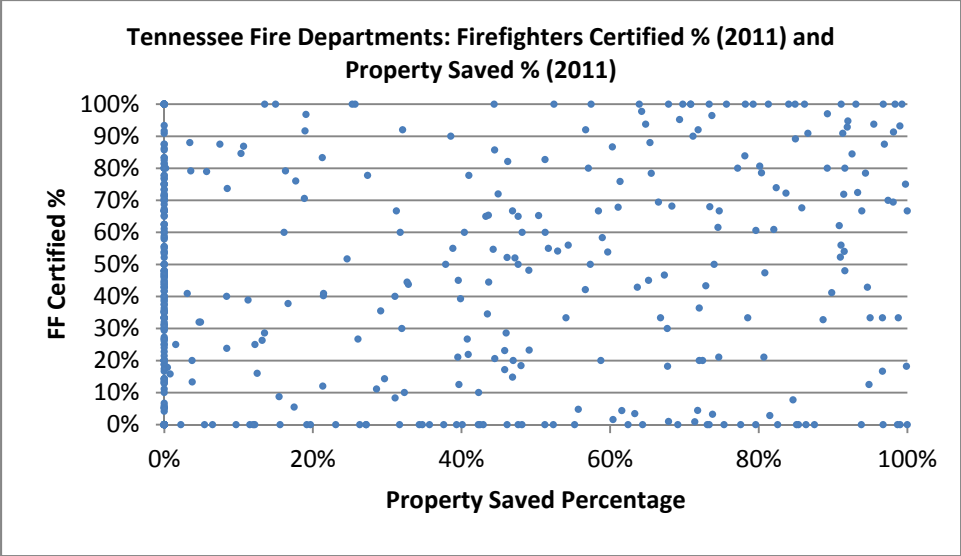
County	Fire Department	Public or Private	Revenue Source	Career Type
White	Mt Gilead Volunteer Fire Department	n/a	Donations	Volunteer
White	Sparta Fire Department	City	Publicly Funded	Combination
Williamson	Arrington Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Williamson	Brentwood Fire Department	City	Publicly Funded	Career
Williamson	Fairview Fire Department	City	Publicly Funded	Combination
Williamson	College Grove Fire Department	Non-profit	Publicly Funded	Volunteer
Williamson	Flat Creek Bethesda Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Williamson	Franklin Fire Department	City	Publicly Funded	Career
Williamson	Nolensville Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Williamson	Peytonsville Volunteer Fire Department	Non-profit	Publicly Funded	Volunteer
Williamson	Williamson County Rescue Squad	Non-profit	Publicly Funded	Combination
Wilson	Watertown Volunteer Fire Department	City	Publicly Funded	Volunteer
Wilson	Lebanon Fire Department	City	Publicly Funded	Career
Wilson	Wilson County EMA	County	Publicly Funded	Combination

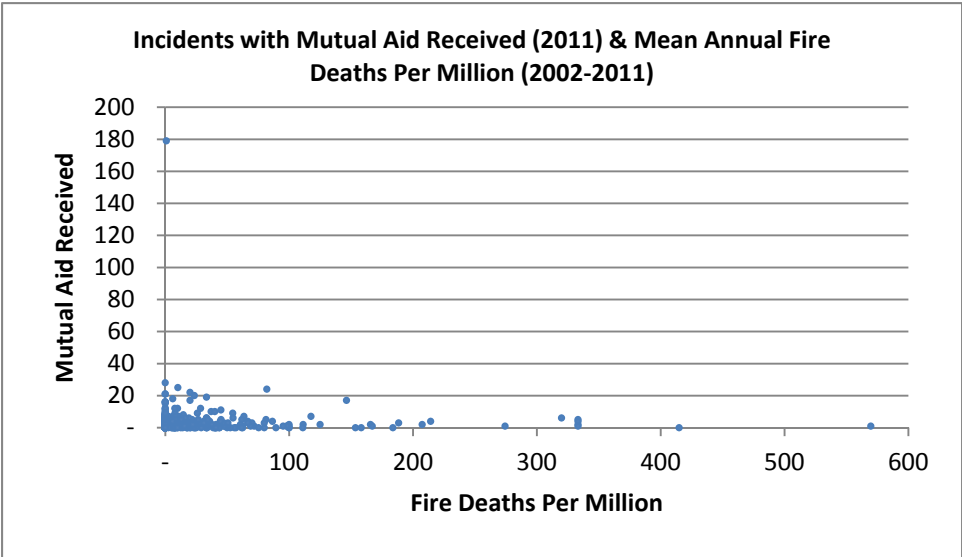
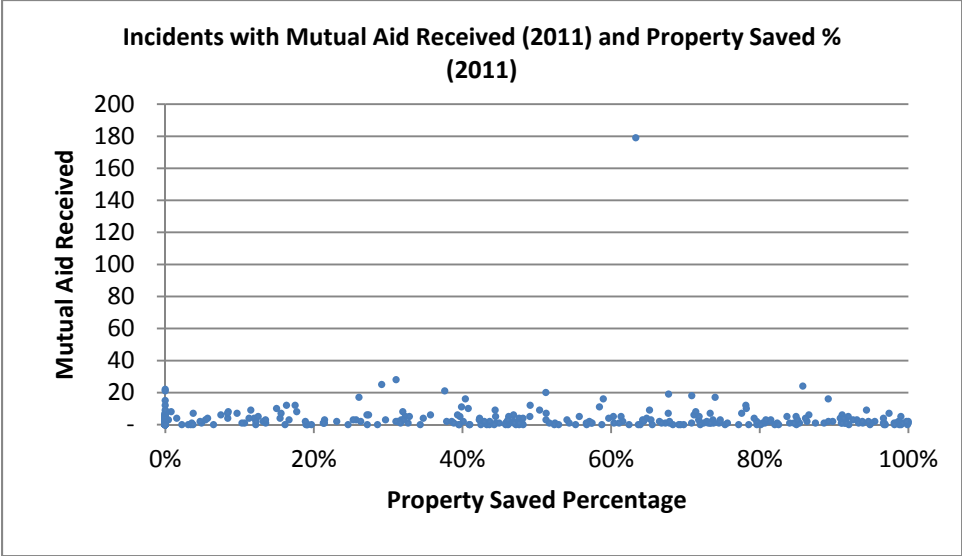
*Provided by local officials

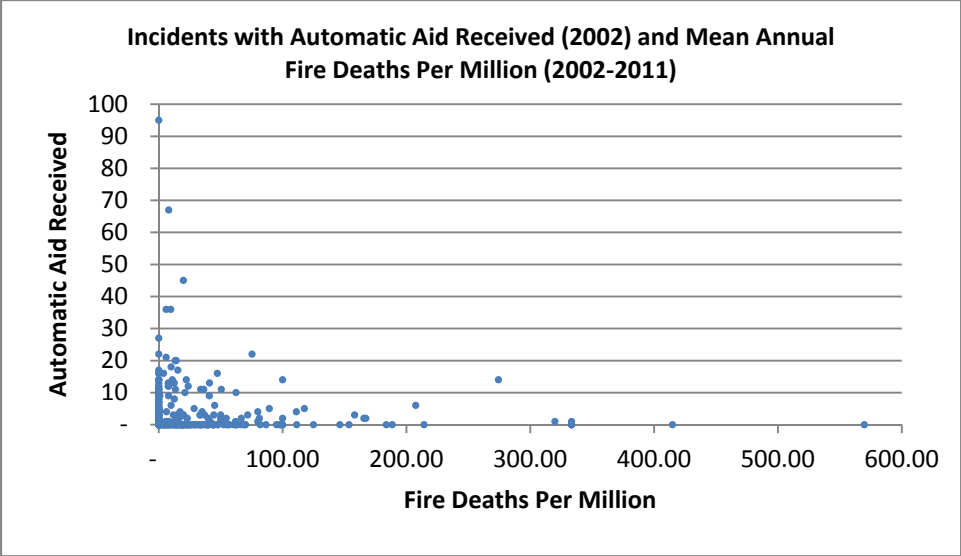
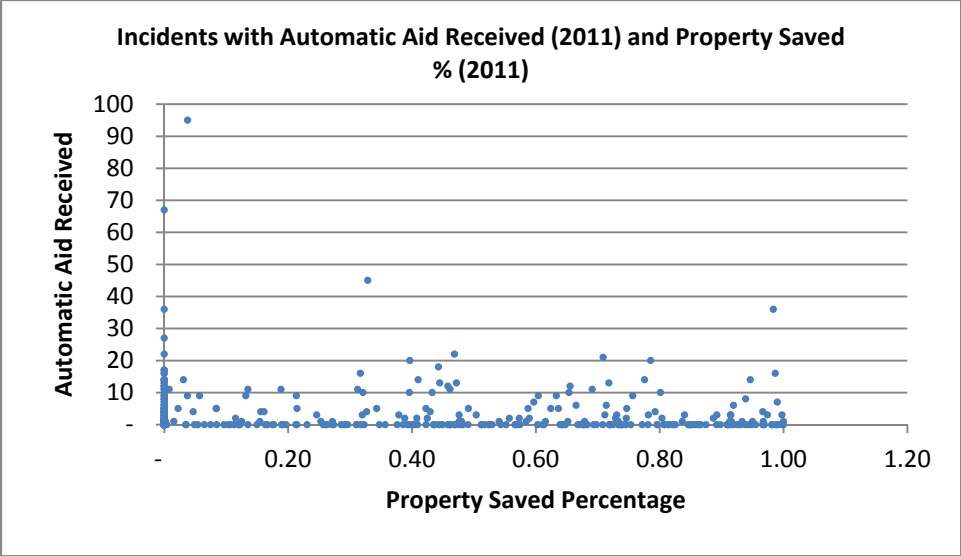
Appendix E: Scatterplots of Staffing and Training Factors with Fire Deaths and Property Saved











Source: Tennessee State Fire Marshal's Office

References

- Crawford, Jim. 2012. Baltimore Fire tries a new strategy: The department focuses on a 3-1-1 campaign. Tulsa: Fire Rescue Magazine. <http://www.firefighternation.com/article/fire-prevention-and-education/baltimore-fire-tries-new-strategy> (accessed January 2, 2013).
- Denning, Shea, and Richard Ducker. 2007. *Fire Protection*. County and Municipal Government in North Carolina. Article 33. <http://sogpubs.unc.edu/cmfg/cmfg33.pdf> (accessed May 22, 2013).
- The Fire Protection Research Foundation 2012. *Fire Flow Water Consumption In Sprinklered and Unsprinklered Buildings: An Assessment of Community Impacts*. Quincy: National Fire Protection Association. <http://www.nfpa.org/assets/files/Research%20Foundation/RFFireFlowWaterConsumption.pdf> (accessed October 10, 2012).
- Folz, David H. et al. 2011. *An analysis of civilian residential fire deaths in Tennessee, 2002-2010*. Knoxville: University of Tennessee [http://www.mtas.tennessee.edu/Knowledgebase.nsf/0/9B87962331BE0F7C852578D80069F607/\\$FILE/an_analysis_of_civilian_residential_fire_deaths_in_tn_2002-2010_final_draft_7-12-11.pdf](http://www.mtas.tennessee.edu/Knowledgebase.nsf/0/9B87962331BE0F7C852578D80069F607/$FILE/an_analysis_of_civilian_residential_fire_deaths_in_tn_2002-2010_final_draft_7-12-11.pdf) (accessed May 23, 2012).
- Hall, John R. 2010. *US experience with sprinklers and other automatic fire extinguishing equipment*. Quincy: National Fire Protection Association. <http://www.nfpa.org/assets/files//PDF/OSsprinklers.pdf> (accessed October 10, 2012).
- Hamins, Anthony et al. 2012. *Reducing the risk of fire in buildings and communities: A strategic roadmap to guide and prioritize research*. Washington, DC: National Institute of Standards and Technology, US Department of Commerce. http://www.nist.gov/customcf/get_pdf.cfm?pub_id=909653 (accessed January 2, 2013).
- Karter, Michael. 2012. *Fire loss in the United States during 2011*. Quincy: National Fire Protection Association. <http://www.nfpa.org/assets/files/PDF/OS.fireloss.pdf> (accessed January 2, 2013). US Bureau of the Census. 2012. *2010 Census Urban and Rural Classification and Urban Area Criteria*. Washington, DC: US Department of Commerce. <http://www.census.gov/geo/reference/urban-rural-2010.html> (accessed May 23, 2012).
- Rector, Kevin. 2013. *Baltimore fire deaths reached historic low in 2012*. *Baltimore Sun*. <http://www.baltimoresun.com/news/maryland/baltimore-city/bs-md-ci-fire-deaths-20130102,0,3612481.story> (accessed May 31, 2013).
- US Fire Administration. 2009. *Fire in the United States 2003-2007*. Washington, DC: Federal Emergency Management Agency.

http://www.usfa.fema.gov/downloads/pdf/publications/fa_325.pdf (accessed October 30, 2012).

US Fire Administration. 2010. *Strategic Plan Fiscal Years 2010-2014*. Washington, DC: Federal Emergency Management Agency.

http://www.usfa.fema.gov/downloads/pdf/strategic_plan.pdf (accessed May 22, 2013)

———. 2007. *Mitigation of the rural fire problem: Strategies based on original research and adaptation of existing best practices*. Washington, DC: Federal Emergency Management Agency.

<http://www.usfa.fema.gov/downloads/pdf/publications/MitigationRuralFireProblem.pdf> (accessed October 30, 2012).

West, Gary L. 2006. *Drinking from a fire hydrant: The fire department's role in protecting the public water system*. Knoxville: Municipal Technical Advisory Service, University of Tennessee.

<http://www.mtas.tennessee.edu/Knowledgebase.nsf/0/F1BE1234C19DBB5885257124004E622B> (accessed October 30, 2012).

Woolard, Geoff. 2010. *Investigating Fire Code Enforcement Alternatives*. Washington, DC: Federal Emergency Management Agency. <http://www.usfa.fema.gov/pdf/efop/efo44875.pdf> (accessed May 22, 2013).