

# **Fire Departments and Emergency Medical Services in New Hampshire**

**2018/FY18-2021/FY21**



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**Fire Departments and Emergency Medical Services in New Hampshire**

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# INTRODUCTION

Municipalities utilize different types of fire departments: career, call, volunteer, and combination departments. Career fire departments employ their personnel on a full-time basis and receive regular compensation. Call fire departments receive nominal benefits and are paid when called out. Volunteer fire departments receive no compensation. A combination department usually has a limited number of personnel who are paid on a full-time basis that is augmented with a call force. Generally, career departments will be more expensive than combination departments, which will be more expensive than call departments, which will be more expensive than volunteer departments. Career departments are also known as full-time departments. Some fire departments are full-time by day but call by night and/or on weekends.

There are almost 29,819 fire departments in the United States of which only about 17% are full-time departments<sup>1</sup> but protect almost 2/3rds of the population. Not knowing how many full-time departments there were in New Hampshire, I did a little research and put the information in this document. There are a total of 227 local fire departments in New Hampshire of which only ten (10) fire departments are true full-time departments (use full-time personnel exclusively). The other “full-time” fire departments are combination departments.

New Hampshire has 234 incorporated municipalities of which 13 are cities. Interestingly, not all the cities are big as several are very small population-wise.

- New Hampshire has 25 unincorporated towns called townships with one in Grafton County (Livermore), one in Carroll County (Hale's Location), and the rest in Coos County. None of them have their own fire department but contract out for fire and ambulance services.
- New Hampshire has 22 fire districts with taxing authority to provide either just fire services or water and fire services. However, some of these fire districts are under pressure to merge. For example, Ossipee just completed a fire study that concluded it was more cost effective to consolidate the three fire districts into one town department. Andover voters approved a warrant article to study the consolidation of their two districts into one town department after agreeing to make Andover Rescue a town department.

The National Fire Protection Association (NFPA) developed a standard, known as NFPA 1710, to guide full-time fire departments on the minimum number of personnel needed for safe and effective firefighting. Specifically, it says that a minimum response of 13 to 15 firefighters must arrive within 8 minutes, 90% of the time. To provide EMS care (including transport), the State of New Hampshire and NFPA 1710 requires at a minimum 2 personnel. With the majority of the call volume increasingly becoming EMS related, I choose two (2) in-house EMTs and/or firefighters to be the minimum staffing level as the requirement for a fire department to be deemed capable of providing immediate coverage.

Two represents the minimum number of personnel to respond to an EMS call not to a structure fire. The Occupational Safety and Health Administration (OSHA) 29 CFR 1910.134(g)(4) defines a “2-in/2-out” rule for fighting interior structure fires. Responding to a structure fire with less than four firefighters prevents the first responding unit from complying with OSHA’s “2-in/2-out” rule, and places the lives of those firefighters in jeopardy. Whether the towns listed in this document comply with this regulation is not known nor is that the purpose of this document. However, OSHA’s “2-in/2-out” rule may be considered a standard of care and a municipality may be liable if it is not followed.

The coverage information is provided in four tables. The first table lists those fire departments that provide immediate coverage 24/7. The second table lists those fire departments that provide immediate coverage for some portion of the day. All provide immediate coverage during the weekday because of the difficulty getting call firefighters to respond during the day. The coverage end time varies anywhere from 4PM to midnight. Each table

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<sup>1</sup> U.S. Fire Department Profile 2017. March 2019. Ben Evarts and Gary P. Stein.

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lists the town, its last known population and land mass area in square miles, who dispatches the fire department, the budget numbers for fire and ambulance/EMS, ambulance revenue, staffing information, and call volume.

The third table lists those fire departments that provide 24/7 coverage but it is not immediate coverage as there is no staff in-house when the call first comes in. In other words, it lists the call and volunteer fire departments. NFPA 1720 guides volunteer fire departments on the minimum number of personnel needed for safe and effective firefighting. Specifically, it says that a minimum response of six firefighters must arrive within 14 minutes 80% of the time.

The fourth table lists those towns with no fire department along with who they contract out for fire and ambulance service, and the costs for those services.

While this document will not provide staffing information for the call/volunteer departments, it should be noted that the number of people able to participate as firefighters has dropped significantly in many towns for several reasons: time demands, increased training requirements, increase in call volume requiring more time commitments, changes in sociological conditions, fire leadership problems, and increasing use of combination departments<sup>2</sup>. As a result, many volunteer or on-call fire departments are starting to hire two daytime firefighters as this is considered to be the time period of greatest need. This can be seen here in NH as several towns (Auburn, Bridgewater, Carroll, Campton-Thornton, Chester, East Kingston, Farmington, Greenland in 2019, Lee, Milton, New Hampton, New London, and Tuftonboro) have done this over the last decade or so. In order to handle the increase in paperwork and inspections, a couple of towns hired a daytime firefighter but several towns have hired a full-time chief.

- A full-time chief was hired in Bristol in 2000, Tuftonboro in 2001; Hampton Falls, Holderness, Jaffrey, and Sanbornton in 2002; Amherst and Lancaster in 2003; Loudon, and New Castle in 2004; Kingston, Sandown and Tamworth in 2005; Farmington and Pittsfield in 2006; Barrington, and New London in 2007; Freedom, Hampstead and Swanzey in 2008; Hopkinton in 2009, Bethlehem and Epping in 2010, Lee and Strafford in 2014, Bow in 2017, New Hampton and Wilton in 2020, Mason in 2021, and Canaan in 2022.
- Alton hired a full-time chief in 2004 but when he retired in 2008, it reverted back to a part-time chief position.
- East Kingston hired a full-time chief in 2007 but it reverted back to a part-time position in 2010.
- There are a total of 83 full-time fire chiefs employed in NH with 144 on-call/part-time fire chiefs. To see the list of full-time fire chiefs and when that position was first made full-time, please see Appendix A.

### **Fire Budgets**

Many towns follow the MS-2 budget layout by the Department of Revenue. The MS2 is defined in the Rev1700 rules using a Uniform Chart of Accounts. The DRA rules for the chart of accounts were fashioned after a nationwide standard numbering system and were designed for general-purpose external financial reporting. Municipalities are free to use any format for internal financial reporting such as for budgeting or cost accounting. As such, most municipalities employ it as an accounting-based budget rather than a full-cost budget based on department. For example, the MS2 budget allows a municipality to roll up life insurance, disability insurance, workers comp, unemployment insurance, and property & liability insurance as well as employee benefits (medical insurance – health and dental) into the insurance account (4196); legal fees can be rolled up into the legal account (4153); and building maintenance into the buildings account (4194) which are all part of the General Government budget

Full-cost budgeting has all costs allocated to each department so it is clear what it costs to run that department. As such, a full-cost budget for the fire department has wages, benefits, insurance, legal fees, utilities, fuel, equipment repairs, mechanic, and hydrant rentals (if appropriate) in its departmental operating budget. I am keeping capital budget (including debt service) separate since most towns do capital outlays as warrant articles.

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<sup>2</sup> "Retention and Recruitment in the Volunteer Fire Service: Problems and Solutions", December 1998

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The only municipalities that I am aware of that do a full-cost operating budget are Bow, Campton-Thornton, Derry, Durham, Goffstown, Hanover, Henniker, Laconia, Plymouth, Rye, Salem, Tilton-Northfield, Wolfeboro, and the various fire districts in Andover, Chesterfield, Conway, Haverhill, Ossipee, Plainfield, and Walpole.

One possible way to assess a fire department is by determining the cost to protect all property in the municipality it serves. This includes not just taxable properties but all properties. This is shown in Appendix D.

- The town of Durham and the University of New Hampshire jointly fund the Durham fire budget with UNH paying about 45% of the budget. Similarly, Plymouth State University pays 28% of the fire budget to the town of Plymouth and guarantees ambulance payment for on-campus responses. Dartmouth College pays just under 20% of the Hanover Fire budget though this is not based on a contractual agreement but based on properties the college owns and pays property taxes on. Keene State College recently agreed to pay a yearly fixed fee to the Keene fire department.
- The Campton-Thornton fire district budget is shared by three towns (Campton, Thornton, and Ellsworth) via an intergovernmental agreement with Campton paying 58%, Thornton 38%, and Ellsworth 4% of the operating budget. For the capital budget, Campton pays 60% and Thornton 40%.
- The Tilton-Northfield fire district budget is shared with Tilton paying 61% and Northfield 39%.
- The Croydon Volunteer Fire Department is a private, non-profit organization and is not funded by the town. The Alexandria and Colebrook Fire Departments are private organizations partially funded by the town.
  - The Alexandria Fire Department (not the town) owns its fire station and most of its fire apparatus. There is a contract between the town and the fire department for fire services. The town does provide some funding toward fire operations via a warrant article each year.
  - The Croydon Fire Department owns its fire station as well as the fire apparatus. The town provides workers compensation coverage but contributes nothing else to their budget.

### **Fire Department Merges and/or Transitions**

Several fire and rescue departments have merged together over the years and several private fire departments have transitioned to municipal fire departments.

- Amherst fire department became a town department in 1960. Amherst Fire and Amherst EMS merge to become Amherst Fire-Rescue in 2016.
- Barnstead merged its two fire departments and rescue department into one single entity in 1995. It subsequently became a municipal department in 2010.
- The Bartlett Fire Department was formed in 1897. The Glen Fire Department was formed in 1948. The two departments merged into the Bartlett Fire Department in 1984.
- The Enfield Fire Department became a municipal department in 1957. Prior to that, it was a fire precinct formed in 1866.
- The Gilmanton Hills Fire Department became the Gilmanton Iron Works Fire Department in 1962 and the Peaked Hill Fire Department became the Gilmanton Corners Fire Department in 1974. Gilmanton merged its two fire departments into one department in 1988.
- The Hinsdale Fire Department was formed in 1893 with the merger of the Hinsdale Hose Company and the Hinsdale Hook and Ladder Company.
- The Lancaster EMS department became a municipal department in 1970 after the local funeral home stopped offering the service. Lancaster merged its fire and EMS departments in 2003.
- Derry merged its remaining two fire districts into one department in 2005.
- The Jefferson FAST Squad merged with the fire department in 2005.

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- Fremont merged its fire and rescue departments in 2007. Barrington merged its ambulance squad with the fire department as did Bradford Rescue in 2007.
- The Canterbury fire department was private organizations funded by the town but it became municipal departments in 2010.
- Tamworth Rescue merges with Tamworth Fire to become the Tamworth Fire and Rescue Department in 2017.
- Deerfield Fire merges with Deerfield Rescue to become Deerfield Fire-Rescue at the start of 2018.
- The private Plainfield Fire and Meriden Fire Departments merge and become a municipal department in 2019.
- Gorham EMS merges with the Gorham Fire Department in 2020.
- Haverhill Corner and North Haverhill Fire Departments merged into a town fire department in 2021.

### **Ambulance Service**

EMS services are coordinated through the State's Bureau of Emergency Medical Services. For ambulance service, New Hampshire has two levels: Basic level service (Amb) and Advanced level service (Amb) with each community deciding what EMT level is needed for ambulance staffing. However, the state requires two (2) licensed personnel to be in a transporting ambulance at all times.

- For BLS service, one of the licensed personnel has to be at least an EMT-B.
- For ALS intermediate, one of the licenses personnel has to be at least an EMT-I or higher.
- For ALS paramedic, one of the licensed personnel has to be at the EMT-P level.

Many towns contract out for private ambulance service. Therefore, the entry in the ambulance budget column reflects the cost of that contract. When the ambulance service is budgeted separate from the fire service, it likely does not reflect the true cost of operating the ambulance service. Some towns don't break out the cost of ambulance service, primarily because its firefighters are cross-trained and can function either as a firefighter or an EMT depending on the nature of the call. For such towns, the fire budget covers both fire and ambulance service, and the ambulance budget column will have an entry of NBO which means "Not Broken Out".

***The bottom line is that towns providing ambulance service are not consistent in how they fund their ambulance budget.***

- Laconia has a unique arrangement with the local hospital. Laconia hires the firefighters to staff the ambulance but is reimbursed by the local hospital. The hospital buys the ambulances and is responsible for maintaining them. In return, the hospital does all the billing and keeps all the revenue from ambulance fees. However, this arrangement ended at the start of FY2019 and Laconia now assumes all financial responsibility for the ambulance service.
- Plymouth divides the cost of funding its ambulance service among the participating towns. So, to get the actual cost, one needs to add the ambulance service costs of Plymouth plus the other towns and it is this number that is reflected in the ambulance budget column.
- Peterborough's ambulance service has undergone a transformation over the last few years. It started off as a self-sustaining service (no cost to the participating towns in 2004). Then, Peterborough asked towns to share the cost of the lease payments on the new ambulance starting in 2005. Being a volunteer service, it became more difficult to get volunteers to roll the ambulance. So, Peterborough hired full-time staff and the participating towns were asked to share in that cost starting in 2007.
- Auburn, Candia, Claremont, Durham, Freedom, Holderness, Manchester, Milford, Nashua, Newton, Swanzy, and Warner provide a paramedic-level non-transport first responder service to its residents.

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- Allenstown, Chester, Croydon, Danbury, Dublin, Francestown, Fremont, Goshen, Gilsum, Grantham, Greenville, Harrisville, Jaffrey, Litchfield, Mason, Moultonborough, New Castle, New Ipswich, New London, Newbury, Rindge, Sandwich, Somersworth, Springfield, Sunapee, Surry, Sutton, Tuftonboro, Westmoreland, Wilmot, and Wolfeboro provide an intermediate-level non-transport first responder service to its residents

The fees and patient receipts are revenue deposited in either the General Fund or into a special reserve fund. Ultimately, both mechanisms are used to reduce taxes in some form. For example, ambulance fees for Antrim, Deering, Goffstown, Hampton and Hollis go into a special EMS reserve fund, which is then used to fund the ambulance/EMS budget for the following year.

- The collection rate (of allowable billables) for towns offering ambulance service ranges from the mid-fifties to the upper-eighties.
- The service fee paid by towns to their billing company ranges from 6.5% to 10%. Nottingham does its own billing.
- Brookline provides ambulance service free of charge to its residents.
- Antrim and Greenland start charging for ambulance service in late 2004. Bridgewater started charging for ambulance service in late 2005. Alstead and Deering started charging for ambulance service in 2006. Plymouth and Seabrook started charging for ambulance service in 2007. Washington Rescue and Fitzwilliam started charging for ambulance service in 2008. Bradford Rescue started charging for ambulance service in 2009. Andover Rescue becomes a town department and starts charging for ambulance service in 2010. Kensington started charging for ambulance service in 2010. Bethlehem and New Boston started charging for ambulance service in 2011. Marlow started charging for ambulance service in 2012. Salisbury started charging for ambulance service in 2016.
- Franconia starts its own fee-based ambulance service in 2006. South Hampton starts its own fee-based ambulance service in 2007. Campton-Thornton starts its own fee-based ambulance service in 2008. East Kingston and Hampton Falls start their own fee-based ambulance service in 2009. Lisbon starts its own fee-based ambulance service in 2011.
- Loudon provides ambulance service to Chichester during the weekday. Loudon and Chichester alternate coverage on weekends with each town keeping the ambulance revenue for the weekends they cover.

The following table summarizes the number of emergency ambulance providers by category and the number of towns covered. New Hampshire has a total of 234 municipalities and the total covered shows 239. This is due to several towns covered by multiple providers.

<b>Category</b>	<b># Providers</b>	<b>% Providers</b>	<b>Towns Covered</b>	<b>% towns served</b>
Fire Department	87	68%	133	56%
Municipal Dept	21	16%	41	17%
Non-Profit	9	7%	20	8%
Hospital	2	2%	9	4%
Commercial	9	7%	36	15%
Total	128		239	

The last column in the above table shows what percentage of towns is serviced by emergency ambulance transport providers in New Hampshire. So, while 7% of emergency ambulance transport agencies are provided by commercial ambulance companies, they service 15% of the towns in New Hampshire.

Please note that the above table does not take into consideration the ambulance services providing paramedic intercepts. It only reflects those ambulance service providers with emergency ambulance transport contracts with the municipalities in the New Hampshire.



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Appendix G shows the ambulance service providers and the towns they contractually service.

### *Ambulance Service Changes*

- Woodsville Rescue Ambulance service takes over ambulance service from Cottage Hospital Volunteer Ambulance Service in 1988 and is run by the Woodsville Fire District.
- Wilton takes over the non-profit Wilton ambulance service in 2007.
- North Walpole switches ambulance service from Lefevre Ambulance to Golden Cross in 2008.
- The Upper Connecticut Valley Hospital (UCVH) ran the Colebrook and Pittsburg Ambulance Corps as volunteer organizations. Due to a lack of volunteers, this ambulance service stopped during 2008. It was replaced by the 45<sup>th</sup> Parallel EMS, a non-profit ambulance service. The UCVH donated its three ambulances and emergency services equipment to this new organization. This new organization also purchased the ambulance from the town of Pittsburg.
- Acworth switches from Lefevre Ambulance to Golden Cross in 2010 as Lefevre Ambulance goes out of business.
- Atkinson, Danville, Hampstead, Newton, Plaistow, and Sandown switch ambulance service from AMR to Trinity EMS in 2009.
- Eaton, Freedom, Madison, and Tamworth switch ambulance service from MedStar to North Conway Ambulance in 2010.
- Somersworth switches from AMR to American Ambulance in 2013.
- Rollinsford switches to York Ambulance in 2014 after South Berwick Rescue ceases operations.
- Harrisville and Marlborough switch to DiLuzio Ambulance after Marl-Harris Ambulance ceases operations in 2015.
- Croydon switches from Newport Ambulance to New London Ambulance in 2016.
- Easton, Littleton, and Sugar Hill switch ambulance service from Ross Ambulance to Calnex Ambulance as Ross Ambulance goes out of business. Easton and Sugar Hill then switch to Littleton Fire for ambulance service in 2019 after Littleton Fire starts its own ambulance service.
- Greenfield switches from Peterborough to Wilton Ambulance in 2019. With this change, Wilton now pays 51% of the ambulance budget and Temple, Lyndeborough, and Greenfield 16.33%.
- Somersworth switches from American Ambulance to Stewart's Ambulance in 2019.
- Temple switches from Wilton ambulance to Peterborough Fire for ambulance service in 2020.
- Eaton, Effingham, Freedom, Madison, Ossipee, and Tamworth switch ambulance service from North Conway Ambulance to Action Ambulance in 2020.
- Charlestown Ambulance service dissolved and Charlestown now gets ambulance service from Golden Cross Ambulance.

### **Estimating Ambulance Service Costs**

For towns that don't break out the cost of their ambulance and fire services separately due to having cross-trained personnel, how can one estimate the cost of the ambulance service? A generally accepted costing model on how to estimate the cost of EMS services for such a fire department has the following formula:

- A. Personnel Costs = average on-call time x average hourly labor rate x average number of personnel on the call x number of incidents prior year. (Hourly rate includes benefits)
- B. Vehicle = (Operating cost per mile x annual call miles) + annual cost for ambulance replacement.

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C. Supplies = Actual Cost of Medical Supplies per year + costs of billing service.

D. Indirect Costs = 25% (A+B+C). 25% is used as a factor to address other benefits and training costs.

Several fire departments in the state use this formula in determining the fee to charge towns contracting for ambulance service. There is some merit to taking the formula in part A and multiplying it by the number of shifts but that is not considered part of the formula at this time.

Several career departments will send an accompanying engine to EMS calls. This can increase fuel cost by \$10,000 to \$15,000. One fire chief indicated that there is also an increase in the wear and tear on the engine. A fire study done for Smithfield Fire Department in Rhode Island indicated that perhaps such a department invests up to \$150,000 per year in the fire departments making EMS runs, exclusive of the salaries. Hence by sending these engines, the fuel and maintenance budget increases by about 60% but the total fire department budget increases only by about 3%.

### Staffing Levels

The first line in the staffing levels column shows full-time and on-call. Full-time personnel are career firefighters, chief officers, and any full-time civilians (i.e., executive secretary). The initial staffing levels in 2006/FY07 are shown and if there has been any change in staffing levels, it will be followed by an arrow ('=>') and then the new levels. The second line in the staffing levels column reflects the number of shifts using full-time personnel with the following exceptions:

- Newport provides immediate fire and EMS coverage during the weekday but nights and weekends are still on-call although they have one full-time firefighter on duty at all times.
- Farmington provides immediate fire and EMS coverage during the weekday but nights are still on-call although they have one full-time firefighter on duty to provide initial EMS coverage.
- Gorham and Peterborough provide immediate EMS coverage during the weekday using full-time and/or part-time personnel with nights and weekends being on-call.
- Conway Village provides immediate coverage during the weekday but nights and weekends are still on-call although they have one full-time firefighter on duty during the day on weekends.
- Goffstown started providing immediate 24/7 EMS coverage in 2005 with a night shift of two personnel. Immediate fire coverage is provided during the day from 6AM to 6PM.
- Bow started providing immediate 24/7 coverage in late 2006. They rely on part-time and call firefighters for Saturdays but use full-time fighters for all other days.
- For Alton, the ambulance service is staffed each day during the summer months only.
- Henniker starts immediate ambulance coverage during the weekday in 2001 and 24/7 immediate ambulance coverage in 2009 Sunday through Thursday utilizing part-time help at night.
- For Pittsfield and Lancaster, the ambulance service is staffed round the clock using two personnel comprised of full-time, part time, and/or on-call personnel. For Pittsfield, these personnel are specific to the ambulance service and cannot be used as firefighters except when called in while off-duty.

The fourth line is the number of fire stations in the municipality or district.

Firefighters are trained for firefighting and for EMT duties. Emergency response has been consolidated into many fire departments such that the majority of the call volume for a fire department today is EMS-related not fire. In fact, over the last 20 years, the number of EMS responses has more than tripled while fires have decreased by almost 50%<sup>3</sup>. It is estimated that 62% of all fire department calls in 2004 were EMS-related and remains so

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<sup>3</sup> Effective Fire Protection: A National Concern. A Study by the Insurance Service Office (ISO).

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today<sup>4</sup>. As we have seen with the floods that NH experienced in May 2005 and March 2006, fire departments are expected to respond to natural disasters. With the advent of 9/11, fire departments also are expected to respond to acts of terrorism. So, the role of a firefighter has changed dramatically from years ago. The fire department is also involved in fire prevention activities (such as public education and property inspections) and on-going training of its personnel which does not show up in the call volume data.

### Shifts

The third line is the shift schedule (for those departments that provide 24/7 immediate coverage). A department with three shifts typically employs a 24/48 shift. This means one day (24-hour) on followed by two days off with one Kelly day every third week. A department with four shifts typically works 42 hours per week and the work shift is employed in a variety of ways. A 24/72 shift means one day (24-hour) on followed by three days off. A 10/14 shift means two 10-hour days followed by two 14-hour nights followed by four days off. A 12/12 shift means two 12-hour days followed by two 12-hour nights followed by 4 days off. An 11/13 shift means two 11-hour days followed by two 13-hour nights followed by four days off. A 1-1-1-5 shift means one day on followed by one day off followed by one day on then five days off. A 1-2-1-4 shift means one day on followed by two days off followed by one day on then four days off. All the different shifts are depicted in Appendix C at the end of this document. Goffstown has a 12-hour workday with a 2on/2off/3on/2off/2on/3off shift. This means 2 days on followed by 2 days off then 3 days on followed by 2 days off then 2 days on followed by 3 days off. This allows a three-day weekend every two weeks and averages out to a 42-hour workweek.

### Call Volume

The calls for service (CFS) were taken from town reports or provided by the fire department. There are some cases where the EMS data came from NFIRS or TEMSIS and that will be indicated with a footnote.

- The NH State Fire Marshal's office is in charge of the New Hampshire Fire Incident Reporting System (NHFIRS). RSA 153:11 requires that every fire occurring in the state be reported to the State Fire Marshal's office. The fire marshal's office now requires that every fire department report all incident data (fire or otherwise) to the State Fire Marshal's office. Any fire department applying for federal grants is required to submit all incident data to NHFIRS. If a fire department is found not to be in compliance with NHFIRS after receiving such a grant, that department could be asked to refund all grant monies.
- The NH Bureau of Emergency Medical Services maintains a Trauma Emergency Medical Services Information System or TEMSIS per RSA 153-A. Each EMS provider licensed in the state is expected to enter all patient contact information into this system in an effort to improve and insure top quality out of hospital emergency medical care to all residents of the State.

Roughly thirty of the towns listed in this document are on a fiscal year. However, except for Derry, Grantham, and Hanover the call volume numbers are for the calendar year. The calls for service are broken down into EMS and other calls. An EMS call is defined to be medical, motor vehicle accidents, and rescue related since this is the definition used by NFIRS. Non-EMS (other) calls are fire, hazard, hazardous materials, and service calls. To the extent possible, I have tried to exclude service calls dealing with inspections (i.e., new homes, oil burners, chimneys, wood stoves, etc), training classes, and meetings as these are not emergency calls. Some towns (like Salem) report only emergency calls; other towns report emergency and non-emergency calls. At least one fire department does not count a motor vehicle accident as an EMS call unless the accident victim requires transport. Motor Vehicle calls may actually show up in both EMS and other calls if the town has both a rescue squad and fire department.

- A '#' symbol in any call volume column indicates that the town report did not provide this information.
- Bridgewater, Franklin, Gilmanston, and Waterville Valley do not break down their call volume in their town reports so the breakdown was taken from the Lakes Region Mutual Fire Aid Association (LRMFA) web site. This is also true for many of the call departments dispatched by the LRMFA.

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<sup>4</sup> Fire Loss in the United States During 2004. September 2005. Michael J. Karter, Jr.

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The EMS-related call volume number for these towns represents the number of medical and motor vehicle accidents.

- The EMS call volume numbers for those towns with a private ambulance service are responses by the fire department not the private ambulance service. Manchester and Nashua send an engine on most ambulance calls to begin primary care and use a private ambulance service for transport.
- The following towns provide ambulance service to other towns. The number in parenthesis is the number of towns each town services including itself. Keene (7), Lancaster (7), Peterborough (6), Bristol (4), Plymouth (4), Groveton (4), Bradford (3), Campton-Thorton (3), Derry (3), Gorham (3), Hopkinton (3), Hanover (3), Lisbon (3), Wilton (3), Woodsville (3), Amherst (2), Antrim (2), Brookline (2), Hebron (2), Hillsborough (2), Hudson (2), Loudon (2), Marlow (2), Newmarket (2), Newport (2), Portsmouth (2), Wakefield (2), and Whitefield (2). So, the EMS call volume numbers for these communities are not specific to that town alone.
- Several towns (Bradford, Deerfield, Enfield, Franconia, Fremont, Goshen, Grantham, Lempster, Lisbon, Lyme, Mason, Monroe, Piermont, Rumney, Sandown, Shelburne, Springfield, Sutton, Tamworth, Temple, and Wilmot) have a rescue/first responder squad that may or may not be independent from the fire department. For those towns with such squads, their call volume is reflected in the EMS calls. If the rescue squad is separate from the fire department then its call volume will be reflected in green. If the rescue squad is part of the fire department then its call volume will be in black and the total calls will include the rescue calls. Some rescue squad numbers will cover other towns as well.
  - The Temple and Shelburne rescue squads were formed in 2004.
  - The Errol Rescue Squad, Lisbon Life Squad, and Canaan FAST Squad are not municipal departments. They are private.
- Center Conway fire district. Cornish, Croydon, East Conway fire district, Errol, Milan, Richmond, Randolph, and Redstone did not have call volume data in their town or district reports nor did NFIRS have any information so they are not shown in this document.

Keep in mind that the call volume does not reflect the call response time. For example, the call volume may go down by a few calls but the call response time may actually be higher. So, call volume alone is not necessarily the only indicator of measuring the “busyness” of a fire department. Another example is the number of EMS calls. While the number of EMS calls may represent 62% of all calls, it is important to remember that an EMS call typically requires on average about 45 minutes and two or three personnel. Fire calls frequently require most, if not all, on-duty personnel and take many hours to mitigate. When looking at it from this perspective, the number of hours spent performing EMS functions versus fire functions is more like 50% each. Unfortunately, in at least one municipality, the officials looked at the call percentage and concluded that if the EMS service was privatized, it would reduce workload by 62% and hence, the fire department would not need as many personnel. Therefore, it cannot be stressed enough that call volume alone is not necessarily the only indicator of measuring the “busyness” of a fire department.

A comparison of municipal call volume across the New England States can be found in Appendix B to see if there are any trends in EMS and/or fire calls across New England.

### **Mutual Aid**

An issue of growing concern for some fire departments is the increase in the number of simultaneous calls. This is not an area that much attention has been paid to but it puts additional stresses on a department. When an incident or multiple simultaneous incidents occur such that the available local fire department resources are overwhelmed, then additional help is summoned from other nearby fire departments. When fire departments help each other in this fashion, it is called Mutual Aid. In fact, a recent survey conducted for ISO<sup>5</sup> indicates that over

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<sup>5</sup> Fire Chief's Opinion 2008. ISO, September 2008

## **Fire Departments and Emergency Medical Services in New Hampshire**

50% of fire departments call on mutual aid to respond to initial alarms for a structure fire due to lack of responders.

In some communities, a fire department in an adjacent municipality can provide a quicker response than the local fire department. Typically, these fire departments enter into an Automatic Mutual Aid agreement. Automatic Aid provides for a fire department in another municipality to immediately respond to reported fires because it is closer, thus providing the quickest response of manpower and equipment to incidents, and allowing more of the municipality to remain protected at all times. In the same ISO Survey, over 60% indicated that neighboring departments responded due to Automatic Aid agreements.

Automatic Mutual Aid is set up as agreements between participating fire departments. Mutual Aid is set up as Run cards and clearly defines which fire departments are to respond to a fire when requested at different fire alarm levels.

Mutual Aid is covered under RSA 154:30 for fire and RSA153A:19 for EMS. To form a Mutual Aid District, the communities involved must petition the State Fire Marshal. There are currently 13 Mutual Aid Districts (see Appendix E) in the state and they belong to the Federation of Mutual Aid. There are communities in Maine, Vermont, and Massachusetts that belong to various mutual aid organizations throughout the state. Besides providing mutual aid, these organizations may also be used for joint training, group purchases, coordination of equipment purchases, and dispatch.

### **Fire Dispatch**

One of the keys to limiting damage caused by fire is the response time. NFPA 1710 sets a goal for all fire departments to respond to a fire within 6 minutes. Response time is defined as the time from when a 911 call is first received to the time a fire truck arrives on scene. Part of this 6-minute window is 1 minute for dispatch time. Fire and ambulance agencies are dispatched from a dispatch center. Some people believe that all 911 calls go directly to their local dispatch center rather than to a central location. Basic 911 Service is an emergency telephone system that automatically connects 911 callers to a Public Safety Answering Point (PSAP). Enhanced-911 service does the same plus shows the caller's name, street address, and telephone number to the PSAP. This allows the PSAP to identify the caller's location automatically if the caller is unable to communicate this information verbally to the PSAP call taker.

New Hampshire has one primary PSAP located at the Department of Safety in Concord and a secondary PSAP in Laconia. New Hampshire and Rhode Island are the only states to have consolidated their PSAPs into one location. This saves money on upgrade costs because it is in one location rather than multiple locations.

All calls to 911 in New Hampshire are routed to a single PSAP managed by the Bureau of Emergency Communications and are paid for by a monthly user fee on all telephones (land and wireless). Police and fire calls are immediately transferred to the appropriate local dispatch center (of which there are about 86). For medical emergencies, the appropriate EMS responder is called but the PSAP dispatcher stays on the line to provide appropriate emergency medical instructions while waiting for the responder to arrive.

Of the 86 local dispatch centers, 38 do police-only dispatch and 48 do fire and EMS dispatch. The three biggest ones are Capital Area Compact, Lakes Region Fire Mutual Aid, and Southwestern New Hampshire District Fire Mutual Aid providing dispatch services to 23, 37, and 78 fire and EMS departments, respectively. Appendix F shows the local dispatch centers for fire and EMS.

## Issues Facing Fire Departments in NH

1. Aging apparatus and facilities. It is estimated that about 45% of all engines in NH fire departments are at least 15 years old<sup>6</sup>. This is close to the national average. The industry standard for the life span of a fire engine is 15 years followed by 5 years of reserve status. Starting in 2007, the EPA's new emission standards go into effect to which the fire apparatus industry must comply. It is estimated that this will increase the cost of a new engine by as much as 50K. These new emission standards will significantly reduce the amounts of nitrous oxide, particulate matter, and non-methane hydrocarbon (NMHC) emissions.

Roughly one-third of the existing fire stations are estimated to be over 40 years old, with about 30% having no backup power and just under half are not equipped for exhaust emission control per NFPA 1500 2002 9.1.6.

2. Providing firefighters with proper and up-to-date equipment such as portable radios, SCBA units, Personal Alert Safety System devices, and personal protective clothing. The protective clothing costs about 2,000 and the SCBA units cost about 4,500 on average.<sup>7</sup>

### CAVEAT EMPTOR

The personnel and number of stations initially came from the Fire Department Census Survey found on the US Fire Administration website and were cross-referenced with information from the town web sites and/or town reports. The population numbers were taken from the State's Office of Energy and Planning web site.

The information in this document came from various sources (town reports, town officials, fire personnel, NFIRS report from the State, EMS report from the State, and local dispatch centers) and the information was verified to the extent it was possible. While I tried to be as accurate as possible, there is the possibility for errors. Hopefully, if there are any errors, someone will be kind enough to point them out to me.

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<sup>6</sup> Third Needs Assessment of the Fire Service: New Hampshire. October 2011. NFPA Fire Analysis and Research, Quincy MA.

<sup>7</sup> National Volunteer Fire Council 2005 Fact Sheet.

## Fire Departments and Emergency Medical Services in New Hampshire

### Change Summary

#### 2004/FY05:

Lee starts providing immediate coverage during the day by hiring two full-time firefighters.  
Loudon, and New Castle fire chief position made full-time.  
Antrim and Greenland start charging for ambulance service in late 2004.

#### 2005/FY06:

Auburn, Bridgewater, Peterborough start providing immediate coverage during the day  
Chester hires first full-time firefighter.  
Kingston, Sandown, and Tamworth hire first full-time fire chief.  
Goffstown starts providing 24/7 immediate EMS coverage.  
Hampton decreases staffing by six firefighters due to repeated default budgets.  
Kingston and Littleton increase firefighter staffing by one.  
Laconia increases shift staffing by one by hiring four additional firefighters.  
Bridgewater starts charging for ambulance service in late 2005.

#### 2006/FY07:

Bedford, Hanover, and Somersworth increase shift staffing by one by hiring four additional firefighters.  
Bow starts providing 24/7 immediate coverage.  
Concord decreases staffing by one firefighter position.  
Campton-Thornton and Tuftonboro start providing immediate coverage during the day.  
Farmington and Pittsfield hire first full-time fire chief.  
Alstead and Deering start charging for ambulance service.  
Franconia starts its own fee-based ambulance service.

#### 2007/FY08:

Bedford increases shift staffing by one by hiring three additional firefighters.  
Hudson increases staffing by two firefighters to increase daytime staffing levels.  
Lebanon increases shift staffing by one by hiring four additional firefighters.  
Littleton increases staffing by two firefighters and now provides 24/7 immediate coverage.  
Pelham increases shift staffing by one by hiring four additional firefighters.  
Salem increases shift staffing by hiring four additional firefighters.  
Portsmouth hires Fire Prevention Officer  
Chester, Milton and New London hire second full-time firefighter to provide immediate daytime coverage.  
New Hampton hires two full-time firefighters to provide immediate coverage during the day.  
Campton-Thornton hires two full-time firefighters to support their new ambulance service.  
Barrington, East Kingston and New London fire chief position becomes full-time  
Barrington ambulance merges with Barrington Fire department.  
Bradford Rescue merges with Bradford Fire department.  
Plymouth and Seabrook start charging for ambulance service.  
South Hampton starts its own fee-based ambulance service.  
Wilton takes over the non-profit Wilton-Lyndeborough-Temple ambulance service

#### 2008/FY09:

Carroll hires second firefighter to provide daytime immediate coverage.  
Concord decreases shift staffing by one with 3 firefighter positions eliminated  
Barrington hires firefighter to provide faster response time during day.  
Keene increases shift staffing by one by hiring three additional firefighters.  
Goffstown increases staffing by hiring two additional firefighters.  
Hampton increases shift staffing by one by hiring four additional firefighters.  
Sanbornton hires second full-time firefighter to provide immediate daytime coverage.  
Portsmouth increases staffing by one by hiring paramedic  
Windham increases shift staffing by one by hiring four additional firefighters.  
Campton-Thornton starts its own fee-based ambulance service.  
Hopkinton increases staffing by one to provide better ambulance service.  
Freedom, Hampstead, and Swanzy fire chief positions become full-time.

## **Fire Departments and Emergency Medical Services in New Hampshire**

Washington Rescue and Fitzwilliam FD start charging for ambulance service.

2009/FY10:

Atkinson, Danville, Hampstead, Newton, Plaistow, and Sandown switch ambulance service from AMR to Trinity EMS  
Bradford Rescue converts from a free service to a fee-based ambulance service.  
Concord decreases shift staffing by two with eight firefighter positions eliminated.  
Derry decreases shift staffing by one with four firefighter positions eliminated.  
East Kingston and Hampton Falls start their own fee-based ambulance service.  
Fitzwilliam converts from a free service to a fee-based ambulance service.  
Hopkinton fire chief position becomes full-time.  
Northwood hires two additional firefighters/EMTs for the purpose of extending ambulance coverage.

2010/FY11:

Acworth switches to Golden Cross Ambulance when Lefevre Ambulance closes its doors.  
Andover Rescue becomes a town department and starts charging for ambulance service.  
Barnstead and Canterbury fire departments become municipal fire departments.  
Bethlehem fire chief position becomes full-time.  
Epping fire chief position becomes full-time.  
East Kingston fire chief position reverts back to part-time.  
Tuftonboro and Freedom switch to North Conway Ambulance

2011/FY12:

Eaton, Madison, and Tamworth switch to North Conway Ambulance  
New Boston started charging for ambulance service.  
Lisbon starts its own fee-based ambulance service.

2012/FY13:

2013/FY14:

Easton, Littleton, and Sugar Hill switch ambulance service from Ross Ambulance to Calex Ambulance.  
Somersworth switches ambulance service from AMR to American Ambulance Service

2014/FY15:

Lee's fire chief position becomes full-time.  
Rollinsford switches to York Ambulance after South Berwick Rescue closes operations.

2015/FY16:

Harrisville and Marlborough switch to DiLuzio Ambulance after Marl-Harris Ambulance closes operations.

2016/FY17:

Amherst EMS merges with Amherst Fire Department to become Amherst Fire Rescue.  
Croydon switches from Newport Ambulance to New London Hospital for ambulance service.  
Salisbury started charging for ambulance service.

2017/FY18:

Meadowood Fire department dissolves after 64 years of service.  
Tamworth Rescue merges with the Tamworth Fire Department.

2018/FY19:

Deerfield Rescue merges with the Deerfield Fire Department.  
Pelham Fire now dispatched by Londonderry Fire

2019/FY2019:

Canaan FAST Squad ceased operations and the ambulance service was taken over by the town.  
Greenland Fire Department hires 2 full-time firefighters working a 12h workday shift.  
Plainfield and Meriden Volunteer Fire Departments merge and become a municipal fire department.  
Somersworth switches from American Ambulance to Stewart's Ambulance

2020/FY2020:

Gorham EMS merges with Gorham Fire Department.



**Fire Departments and Emergency Medical Services in New Hampshire**

Temple switches from Wilton Ambulance to Peterborough Fire Department for ambulance service.

Fire Departments and Emergency Medical Services in New Hampshire

# Fire Departments Providing 24/7 Immediate Coverage

Department	Pop/ Cover Area	Dispatch	Staffing FT/Call	ISO Rating	EMS Calls (18-21)	Total FD Call (18-21)	EMS Services	Transport Agency
Barnstead	4,597 over 42.0 sq mi	Lakes Region Dispatch	6/30 3 shifts of 2 24/48 shift 2 stations	9/10	466 468 495 539	742 713 799 811	Barnstead Fire-Rescue	Barnstead Fire-Rescue
Bedford	21,610 over 32.8 sq mi	Bedford PD	22/13=>33/9 4 shifts of 7 24/72 shift 1 station	5/9	2094 2427 2426 2672	2790 3076 2976 3545	Bedford Fire	Bedford Fire
Belmont	7,268 over 30.5 sq mi	Lakes Region Dispatch	13/12 4 shifts of 4/2 24/72 shift 2 stations	2/2Y	955 1076 1104 1127	1532 1563 1722 1599	Belmont Fire	Belmont Fire
Berlin	9,612 over 61.6 sq mi	Berlin PD	21/6 4 shifts of 5/4 10/14 shift 1 station	4	1813 1898 1647 1759	1061 780 660 904	Berlin Amb	Berlin Amb
Bow	7,658 over 28.0 sq mi	Capitol Area Dispatch	4/40 => 8/40 3 shifts of 3/2 24/48 shift 1 station	6/9	682 734 660 759	1004 1196 1136 1168	Bow Fire	Bow Fire
Bristol	3,062 over 17.1 sq mi	Lakes Region Dispatch	7/30 3 shifts of 2 24/48 shift 1 station	5/9	812 913 843 982	1291 1320 1238 1365	Bristol Fire	Bristol Fire
Claremont	13,051 over 43.1 sq mi	Claremont PD	18/20 4 shifts of 4 10/14 shift 1 station	4/8B	571 550 588 687	1393 1202 1275 1468	Golden Cross	Golden Cross
Concord	42,419 over 64.3 sq mi	Capitol Area Dispatch	100/4 4 shifts of 22 12/12 shift 4 stations	3/9	4771 4902 4836 5534	8600 8952 8777 9721	Concord Fire	Concord Fire
Derry	33,251 over 35.6 sq mi	Derry Fire	86/0 => 76/0 4 shifts of 15 24/72 shift 4 stations	5/9	3675 3274 3144 3091	5091 5021 4805 4735	Derry Fire	Derry Fire
Dover	30,510 over 26.7 sq mi	Dover PD	47/4 => 51/4 4 shifts of 12 1-2-1-4 shift 3 stations	3/9	3365 3722 3702 3888	4974 6191 5913 5932	Dover Fire-Rescue	Dover Fire-Rescue
Durham	15,380 over 22.4 sq mi	Strafford CSO	27/9 4 shifts of 5 1-2-1-4 shift 1 station	4/10	1305 1275 927 1221	2732 2416 1976 2319	Durham Fire	McGregor Memorial Amb
Exeter	14,531 over 19.6 sq mi	Exeter PD	30/13 4 shifts of 6 1-1-1-5 shift 1 station	4/9	1950 2067 1839 1637	3234 3370 3034 3104	Exeter Fire	Exeter Fire
Franklin	8,438 over 27.3 sq mi	Lakes Region Dispatch	19/24 4 shifts of 4 1-2-1-4 shift 1 station	3/3X	1377 1393 1444 1594	1946 1826 1891 2069	Franklin Fire	Franklin Fire
Gilford	7,116 over 38.9 sq mi	Lakes Region Dispatch	15/17 4 shifts of 3 1-2-1-4 shift 1 station	5/9	935 1199 1089 1342	1649 1737 1748 1935	Gilford Fire-Rescue	Gilford Fire-Rescue

**Fire Departments and Emergency Medical Services in New Hampshire**

<b>Department</b>	<b>Pop/ Cover Area</b>	<b>Dispatch</b>	<b>Staffing FT/Call</b>	<b>ISO Rating</b>	<b>EMS Calls (18-21)</b>	<b>Total FD Call (18-21)</b>	<b>EMS Services</b>	<b>Transport Agency</b>
Goffstown	17,802 over 36.9 sq mi	Goffstown PD	14/49 => 17/62 2 shifts of 6 2/2/3/2/2/3 shift 3 stations*	4/8B	1516 1602 1507 1759	2465 2406 2414268 7	Goffstown Fire	Goffstown Fire
Hampton	15,177 over 12.9 sq mi	Self Dispatch	46/0 4 shifts of 10 10/14 shift 2 stations	3	2209 2412 2383 2718	4326 4580 3177 3562	Hampton Fire-Rescue	Hampton Fire-Rescue
Hanover	11,320 over 49.0 sq mi	Upper Valley Regional Dispatch	19/15=>23/6 4 shifts of 5 1-2-1-4 shift 2 stations*	3/3Y	1203 1107 968 915	2015 1923 1706 1704	Hanover Fire	Hanover Fire
Hooksett	13,716 over 36.4 sq mi	Capitol Area Dispatch	29/2 => 33/3 4 shifts of 6/7 1-1-1-5 shift 2 stations	4/9	1469 1338 1448 1595	2287 2477 2433 2208	Hooksett Fire-Rescue	Hooksett Fire-Rescue
Hudson	24,645 over 28.3 sq mi	Self Dispatch	44/18 => 54/2 4 shifts of 9/10 10/14 shift 3 stations*	3/8B	2585 2522 2099 2878	3991 3791 3208 4128	Hudson Fire	Hudson Fire
Keene	23,419 over 37.3 sq mi	Southwest NH Dispatch	43/30 => 46/24 4 shifts of 10 2on/1off/2on/3 off 2 stations	4	3229 3325 3445 3632	4767 4821 4985 5005	Keene Fire	Keene Fire
Laconia	16,010 over 20.0 sq mi	Lakes Region Dispatch	33/7 => 42/7 4 shifts of 9 1-2-1-4 shift 2 stations*	3/9	3527 3709 3311 3559	4939 4768 4415 4856	Laconia Fire	Laconia Fire
Lebanon	13,599 over 40.4 sq mi	Lebanon PD	25/13 => 29/13 4 shifts of 6 10/14 shift 3 stations*	4/9	2668 2908 2588 2684	3693 3855 3527 3804	Lebanon Fire	Lebanon Fire
Littleton	5,955 over 50.1 sq mi	Grafton CSO	11/11 4 shifts of 2/3 24/72 shift 1 station	5/9	719 797 920 946	1060 1126 1240 1276	Littleton Fire-Rescue	Littleton Fire-Rescue
Londonderry	24,308 over 41.8 sq mi	Self Dispatch	47/15 => 52/3 4 shifts of 11 1-1-1-5 shift 3 stations	5/9	2249 2398 2127 2491	4013 3955 3731 4161	Londonderry Fire	Londonderry. Fire
Manchester	110,378 over 33.0 sq mi	Self Dispatch	224/0 4 shifts of 48 24/72 shift 10 stations	2	19,772 20,612 18,750 20,202	25,237 25,907 24,232 27,075	Manchester Fire	AMR
Merrimack	25,599 over 32.6 sq mi	Merrimack PD	42/15 4 shifts of 9 24/72 shift 3 stations*	5/9	2279 2051 2033 2240	3315 3163 3139 3343	Merrimack Fire-Rescue	Merrimack Fire-Rescue
Nashua	87,137 over 30.9 sq mi	Self Dispatch	180/0 4 shifts of 38 10/14 shift 6 stations	2	8054 6483 5332 5421	13,553 11,324 9457 9633	Nashua Fire	AMR
Newington	755 over 8.2 sq mi	Rockinghm CSO	10/8 4 shifts of 2 24/72 shift 1 station	5	357 305 267 225	787 853 911 986	Newington Fire	Newington Fire
North Hampton	4,372 over 13.9 sq mi	Self Dispatch	14/5 4 shifts of 3 1-1-1-5 shift 1 station	5/9	801 896 746 981	1250 1269 1124 1367	North Hampton Fire	North Hampton Fire

**Fire Departments and Emergency Medical Services in New Hampshire**

<b>Department</b>	<b>Pop/ Cover Area</b>	<b>Dispatch</b>	<b>Staffing FT/Call</b>	<b>ISO Rating</b>	<b>EMS Calls (18-21)</b>	<b>Total FD Call (18-21)</b>	<b>EMS Services</b>	<b>Transport Agency</b>
Pelham	13,088 over 26.4 sq mi	London. Fire	15/31 => 23/31 4 shifts of 5 24/72 shift 1 station	5/8B	1008 979 964 1097	1665 1455 1436 1567	Pelham Fire	Pelham Fire
Plymouth	6,987 over 28.1 sq mi	Lakes Region Dispatch	11/30 4 shifts of 2 24/72 shift 1 station	5/9	1201 1216 1142 1315	1755 1744 1604 1834	Plymouth Fire-Rescue	Plymouth Fire-Rescue
Portsmouth <sup>8</sup>	21,440 over 15.6 sq mi	Portsmouth PD	64/0 4 shifts of 14 10/14 shift 3 stations	4	3485 3383 3104 3400	4892 4761 4409 4772	Portsmouth Fire	Portsmouth Fire
Rochester	29,745 over 45.4 sq mi	Rochester PD	42/5 4 shifts of 9 10/14 shift 2 stations	3/3X	1268 1173 1247 1333	2839 2757 2700 2770	Frisbie Hospital	Frisbie Hospital
Rye	5,329 over 12.6 sq mi	Rockinghm CSO	10/14 => 11/14 4 shifts of 2 10/14 shift 1 station	5	468 549 479 637	829 930 762 937	Rye Fire-Rescue	Rye Fire-Rescue
Salem	28,866 over 24.7 sq mi	Self Dispatch	65/0 => 84/0 4 shifts of 17 10/14 shift 3 stations	5/9	3673 3784 3755 3956	5604 5473 5279 5572	Salem Fire	Salem Fire
Seabrook	8,749 over 8.9 sq mi	Self Dispatch	26/12 4 shifts of 6 24/72 shift 1 station	4	1280 1521 1805 1433	3048 3299 3676 3317	Seabrook Fire	Seabrook Fire
Somersworth	11,741 over 9.8 sq mi	City Police	13/15=>17/12 4 shifts of 4 11/13 shift 1 station	4	631 795 703 857	1502 1619 1399 1527	Stewart's Ambulance	Stewart's Ambulance
Tilton- Northfield Fire District	8,391 over 39.9 sq mi	Lakes Region Dispatch	10/40 => 16/15 4 shifts of 4/2 24/48 shift 2 stations*	5/9	1449 1375 1381 1340	1973 2000 2010 2014	Tilton Northfield Fire	Tilton Northfield Fire
Windham	14,113 over 26.8 sq mi	Derry Fire	18/10 => 26/10 4 shifts of 5 1-1-1-5 shift 1 station	6/9	1162 1059 939 1175	2011 1762 1746 1941	Windham Fire	Windham Fire
Wolfeboro	6,215 over 47.9 sq mi	Wolfeboro PD	12/5 3 shifts of 3 48h Kelly sched. 2 stations*	6/8B	734 858 784 796	1331 1507 1393 1382	Stewarts Ambulance	Stewarts Ambulance

\*Includes 1 unmanned station, which is not staffed with career firefighters. The unmanned station is assigned to call personnel.

<sup>8</sup> Portsmouth counts an ambulance and engine response as separate incidents rather than as one incident.

## Combination Departments Providing Immediate Coverage by Day/On-call Nights (and/or Weekends)

Department	Pop/ Cover Area	Dispatch	Staffing FT/Call	ISO Rating	EMS Calls (18-21)	Total FD Call (18-21)	EMS Services	Transport Agency
Allenstown	4,276 over 20.3 sq mi	Capitol Area Dispatch	2/18 1 shift of 2 1 station	4/8B	446 528 591 564	668 746 821 816	Allenstown Fire	Tri-Town Amb
Amherst	11,261 over 34.3 sq mi	Amherst Comm. Center	3/36 1 shift of 3 2 stations*	4/9	1004 1039 861 975	1218 1609 # 1474	Amherst Fire-Rescue	Amherst Fire-Rescue
Auburn	5,158 over 25.2 sq mi	Derry Fire	0/45 => 2/30 1 shift of 2 2 stations*	4/9	282 306 293 328	541 558 635 621	Auburn Fire	Derry Fire
Brentwood	4,693 over 16.8 sq mi	Rockingh. CSO	2/28 1 shift of 2 1 station	7	397 411 389 440	719 738 711 891	Brentwood Fire-Rescue	Brentwood Fire-Rescue
Brookline	5,087 over 19.8 sq mi	Hollis PD	2/28 1 shift of 2 1 station	8B	384 418 414 533	678 706 693 797	Brookline EMS	Brookline EMS
Campton- Thornton Fire District	5,819 over 102.1 sq mi	Lakes Region Dispatch	1/30 => 4/30 1 shift of 4 3 stations*	6/8B	562 468 547 643	853 822 889 1005	Campton Thornton Fire	Campton Thornton Fire
Carroll	757 over 50.2 sq mi	CSO	1/22 => 2/22 1 shift of 2 1 station	6/9	214 224 187 191	309 339 297 274	Twin Mountain Fire	Twin Mountain Fire
Chester	4,880 over 25.9 sq mi	Derry Fire	0/38 => 2/37 1 shift of 2 1 station	9/10	214 217 218 226	424 417 466 472	Chester Fire	Derry Fire
Conway – Conway Village Fire Precinct	5,000 over 3.4 sq mi	Conway PD	4/32 1 shift of 2 1 station	5/9	953 978 988 1104	1299 1296 1337 1397	Conway Village Fire	Conway Village Fire
Conway – North Conway Fire District	2,069 over 10.1 sq mi	Conway PD	2/45 1 shift of 2 1 station		633 605 594 444	1251 1215 1209 958	North Conway Fire	Action Ambulance
Epping	6,649 over 26.0 sq mi	Rockingh. CSO	3/57 1 shift of 2 2 stations*	5/9	831 849 833 912	1298 1301 1301 1400	Epping FD	Epping FD
Epsom	4,592 over 34.2 sq mi	Capitol Area Dispatch	4/25 2 shifts of 2 1 station	5/9	689 709 670 808	984 1014 960 1081	Epsom Fire-Rescue	Epsom Fire-Rescue
Farmington	6,797 over 37.2 sq mi	Strafford CSO	3/40 => 5/40 1 shift of 4 1 station	5/9	880 908 910 976	1213 1196 1265 1348	Farmington Fire-Rescue	Farmington Fire-Rescue
Gilmanton	3,774 over 57.2 sq mi	Lakes Region Dispatch	4/20 => 4/36 2 shifts of 2 2 stations*	4/10	339 329 363 393	615 587 656 649	Gilmanton Fire	Gilmanton Fire

**Fire Departments and Emergency Medical Services in New Hampshire**

Department	Pop/ Cover Area	Dispatch	Staffing FT/Call	ISO Rating	EMS Calls (18-21)	Total FD Call (18-21)	EMS Services	Transport Agency
Gorham	2,738 over 31.9 sq mi	Gorham PD	3/24 => 4/24 1 shift of 4 2 stations*	5/8B	541 516 457 581	153 160 633 833	Gorham Fire & EMS	Gorham EMS
Hampstead	8,569 over 13.3 sq mi	London. Fire	2/32 => 4/32 1 shift of 2 2 stations*	9	745 701 619 775	1200 1088 1073 1169	Hampstead Fire-Rescue	Trinity EMS
Henniker	4,785 over 44.1 sq mi	Capitol Area Dispatch	2/40 1 shift of 2 1 station	6/9	712 773 835 799	972 1030 1021 1006	Henniker Rescue	Henniker Rescue
Hillsborough	6,028 over 43.6 sq mi	Capitol Area Dispatch	2/37 1 shift of 2 1 station	5/9	967 720 757 838	1196 1065 1011 1029	Hillsboro Fire-EMS	Hillsboro Fire-EMS
Hollis	7,730 over 31.8 sq mi	Hollis PD	7/40 2 shifts of 4 1 station	5/9	431 451 430 514	894 980 916 929	Hollis Fire	Hollis Fire
Hopkinton	5,595 over 43.3 sq mi	Capitol Area Dispatch	5/32 => 7/32 2 shifts of 2 2 stations*	5/9	800 800 1000 739	1144 1175 1199 1407	Hopkinton Fire	Hopkinton Fire
Kingston	6,091 over 19.6 sq mi	Rockingh. CSO	4/45 => 5/45 1 shift of 3 2 stations	6/8B	675 622 711 1036	1007 908 1022 1313	Kingston Fire	Kingston Fire
Lancaster <sup>9</sup>	3,436 over 49.8 sq mi	Grafton CSO	2/50 1 shift of 2 2 stations*	6/9	733 703 628 723	841 813 718 837	Lancaster EMS	Lancaster EMS
Lee	4,366 over 20.0 sq mi	Strafford CSO	0/23 => 2/23 1 shift of 2 1 station	5/10	391 429 394 314	696 707 661 702	Lee Fire-Rescue	McGregor Memorial Ambulance
Litchfield	8,346 over 15.1 sq mi	Hudson Fire	2/29 1 shift of 2 1 station	5/9	357 404 383 421	676 653 661 663	Litchfield Fire	Hudson Fire
Loudon	5,343 over 46.8 sq mi	Capitol Area Dispatch	2/47 => 3/39 1 shift of 3 2 stations*	9/10	676 689 534 679	941 921 845 968	Loudon Fire	Loudon Fire
Milford	15,137 over 25.2 sq mi	MACC Base	4/44 1 shift of 4 1 station	3/8B	2035 2057 1873 2142	1179 1137 2805 3298	Milford Fire	Milford Fire
Milton	4,575 over 33.1 sq mi	Milton PD	1/33 => 2/33 1 shift of 2 2 stations*	6/9	550 522 597 622	817 803 890 894	Milton Fire-Rescue	Milton Fire-Rescue
Moultonborough	4,026 over 59.5 sq mi	Lakes Region Dispatch	2/36 1 shift of 2 2 stations*	9/10	418 516 540 631	780 909 937 1069	Moultnboro Fire	Stewart's Ambulance

<sup>9</sup> Lancaster does a lot of non-emergency interfacility transfers. The EMS calls would be over 2000 if these calls were included.

**Fire Departments and Emergency Medical Services in New Hampshire**

Department	Pop/ Cover Area	Dispatch	Staffing FT/Call	ISO Rating	EMS Calls (18-21)	Total FD Call (18-21)	EMS Services	Transport Agency
New Hampton	2,188 over 36.7 sq mi	Lakes Region Dispatch	0/16 => 2/16 1 shift of 2 1 station	6/9	399 411 337 404	599 573 615 711	New Hampton Fire	New Hampton Fire
New London	4,574 over 22.5 sq mi	New London PD	1/45 => 2/45 1 shift of 2 1 station	5/5Y	419 430 368 362	959 980 894 812	N London Fire	N London Hospital
Newport	6,382 over 43.6 sq mi	Newport PD	7/39 1 shift of 2 1 station	4/4X	1104 1162 1054 1112	1727 1601 1435 1559	Newport Fire	Newport Fire
Northwood	4,281 over 28.0 sq mi	Capitol Area Dispatch	4/30 2 shifts of 2 2 stations*	9/10	354 428 402 477	671 610 626 716	Northwood Fire-Rescue	Northwood Fire-Rescue
Nottingham	4,881 over 46.5 sq mi	Rockingh. CSO	2/30 1 shift of 2 1 station	9/10	310 303 254 373	476 416 536 672	Nottingham Fire-Rescue	Nottingham Fire-Rescue
Peterborough	6,410 over 37.7 sq mi	Southwest NH Dispatch	1/39 1 shift of 3 1 station	5/5X	1523 1042 No Data 1517	1908 1441 1306 1970	Peterboro Fire-Rescue	Peterboro Fire-Rescue
Pittsfield	4,082 over 23.9 sq mi	Capitol Area Dispatch	6/45 1 shift of 2 1 station	6/6X	564 633 593 692	878 902 863 1017	Pittsfield Fire	Pittsfield Fire
Plaistow	7,623 over 10.5 sq mi	Plaistow PD	3/32 1 shift of 2 1 station	4/4Y	717 763 693 782	1038 1100 1098 1110	Plaistow Fire	Trinity EMS
Raymond	10,216 over 28.8 sq mi	Raymond PD	2/40 1 shift of 2 1 station	4/8B	1672 1722 1619 1884	535 518 461 605	Raymond Fire	Raymond Ambulance
Rindge	5,894 over 37.2 sq mi	Southwest NH Dispatch	2/22 1 shift of 2 1 station	6/9	455 478 446 485	822 837 814 877	Rindge Fire	VFW Ambulance
Sanbornton	2,968 over 47.6 sq mi	Lakes Region Dispatch	2/29 1 shift of 2 2 stations*	9/10	251 291 250 263	458 471 519 487	Sanbornton Fire-Rescue	Sanbornton Fire-Rescue
Tuftsboro	2,350 over 41.0 sq mi	Carroll CSO	1/20 => 2/20 1 shift of 2 2 stations*	6/8B	275 312 317 279	512 574 538 641	Tuftsboro Fire-Rescue	Lord Ambulance
Wakefield	5,013 over 39.5 sq mi	Carroll CSO	2/31 => 4/30 1 shift of 2 3 stations*	6/9	735 762 742 792	1064 1164 1270 1202	Wakefield Fire-Rescue	Wakefield Fire-Rescue
Waterville Valley	248 over 64.9 sq mi	Lakes Region Dispatch	8/20 1 shift of 8 2 stations*	4/9	241 169 184 159	320 261 262 246	Waterville Valley FD	Waterville Valley FD

\*Includes 1 unmanned station, which is not staffed with career firefighters. The unmanned station is assigned to call personnel.

**Fire Departments and Emergency Medical Services in New Hampshire**

## Call/Volunteer Departments

Department	Pop/ Cover Area	Dispatch	ISO Rating	EMS Calls (19-21)	Total FD Call (19-21)	EMS Services	Transport Agency
Acworth	890 over 38.9 sq mi	Southwest NH Dispatch	9/10	80 64 55	123 100 107	Acworth Fire	Golden Cross Ambulance
Alexandria	1,613 in 43.0 sq mi	Lakes Region Dispatch	9/10	179 166 135	250 259 234	Alexandria Fire	Bristol Fire
Alstead	1,931 in 38.8 sq mi	Southwest NH Dispatch	9/10	142 141 144	62 93 105	Alstead Ambulance	Alstead Ambulance
Alton	5,282 in 62.9 sq mi	Lakes Region Dispatch	6/9	621 616 716	931 886 982	Alton Fire-Rescue	Alton Fire-Rescue
Andover – Andover Fire District	2,366 in 40.5 sq mi	Lakes Region Dispatch	7/9	206 194 238	99 111 110	Andover Rescue	Andover Rescue
Antrim	2,640 in 35.7 sq mi	Southwest NH Dispatch	6/9	374 297 391	121 135 128	Antrim Fire	Antrim Ambulance
Ashland	2,070 in 11.0 sq mi	Lakes Region Dispatch	5/9	339 349 363	464 566 521	Ashland Fire	Plymouth Fire-Rescue
Atkinson	6,819 in 11.1 sq mi	Plaistow PD	9	462 446 492	659 653 713	Atkinson Fire	Trinity EMS
Barrington	8,705 in 46.6 sq mi	Strafford CSO	9/10	705 723 883	1064 1131 1138	Barrington Fire-Rescue	Barrington Fire-Rescue
Bartlett	2,764 in 74.9 sq mi	Carroll CSO	6/9	587 603 620	313 365 327	Bartlett– Jackson Ambulance	Bartlett– Jackson Ambulance
Bath	1,082 in 37.7 sq mi	Grafton CSO	6/9	No EMS Svc	60 64 61	Woodsville Ambulance	Woodsville Ambulance
Bennington	1,470 in 11.1 sq mi	Southwest NH Dispatch	5/9	133 135 128	208 198 209	Bennington Fire-Rescue	Antrim Ambulance
Bethlehem	2,552 in 90.6 sq mi	Grafton CSO	6/9	285 230 367	370 321 459	Bethlehem Fire	Bethlehem Fire
Boscawen	3,912 in 24.7 sq mi	Capitol Area Dispatch	6/9	927 906 706	186 196 242	Penacook Rescue	Penacook Rescue
Bradford	1,654 in 35.3 sq mi	Capitol Area Dispatch	9/10	80 137 128	172 256 215	Bradford Rescue	Henniker Rescue
Bridgewater	1,088 in 21.3 sq mi	Lakes Region Dispatch		143 193 180	209 260 258	Bridgewater Fire	Bristol Fire
Canaan	3,902 in 53.2 sq mi	Upper Valley Reg Dispatch	4/4Y	522 456 523	278 363 347	Canaan FAST	Canaan FAST
Candia	3,902 in 30.3 sq mi	Rockingham CSO	9/10	259 275 344	396 429 476	Candia Fire-Rescue	AMR
Canterbury	2,390 in 43.6 sq mi	Capitol Area Dispatch	6/9	210 209 216	328 303 363	Canterbury Fire-Rescue	Penacook Rescue



**Fire Departments and Emergency Medical Services in New Hampshire**

<b>Department</b>	<b>Pop/ Cover Area</b>	<b>Dispatch</b>	<b>ISO Rating</b>	<b>EMS Calls (19-21)</b>	<b>Total FD Call (19-21)</b>	<b>EMS Services</b>	<b>Transport Agency</b>
Center Harbor	1,099 in 13.4 sq mi	Lakes Region Dispatch	5/8B	185 164 173	360 319 321	Center Harbor Fire	Stewart's Ambulance
Charlestown	4,981 in 35.8 sq mi	Charlestown PD	6/9	400 233 762 <sup>10</sup>	244 201 273	Golden Cross Amb	Golden Cross Amb
Chesterfield – Chesterfield Fire District	3,607 in 45.6 sq mi	Southwest NH Dispatch	8/9	111 131 122	281 228 261	Chesterfield Fire	Rescue, Inc
Chesterfield – Spofford Fire District		Southwest NH Dispatch	9	210 209 208	298 284 271	Spofford Fire	Keene FD
Chichester	2,559 in 21.1 sq mi	Capitol Area Dispatch	9/10	356 288 313	549 463 541	Chichester Fire	Loudon FD
Colebrook	2,233 in 40.7 sq mi	Colebrook RDC	5/9	245 278 302	115 141 98	45 <sup>th</sup> Parallel EMS	45 <sup>th</sup> Parallel EMS
Dalton	938 in 27.5 sq mi	Grafton CSO	9/10	70 98 95	153 130 128	Dalton Fire-Rescue	Whitefield Fire-Rescue
Danbury	1,177 in 37.5 sq mi	Lakes Region Dispatch	9/10	126 109 139	177 184 204	Danbury Fire	Bristol Fire
Danville	4,439 in 11.7 sq mi	Rockingham CSO	9/10	207 243 301	366 370 465	Danville Fire	Trinity EMS
Deerfield	4,360 in 50.9 sq mi	Rockingham CSO	6/9	180 204 177	441 439 443	Deerfield Fire-Rescue	Raymond Ambulance
Deering	1,899 in 30.8 sq mi	Capitol Area Dispatch	6/9	194 171 231	243 242 362	Deering Fire-Rescue	Deering Fire-Rescue
Dublin	1,582 in 28.0 sq mi	Southwest NH Dispatch	9/10	130 122 117	237 227 227	Dublin Fire	Peterboro Fire-Rescue
Dunbarton	2,789 in 30.9 sq mi	Capitol Area Dispatch	9/10	128 137 138	221 227 240	Dunbarton VFD	Dunbarton VFD
East Kingston	2,383 in 10.0 sq mi	Rockingham CSO	9	220 144 138	359 278 282	E. Kingston Fire	E. Kingston Fire
Easton	393 over 31.2 sq mi	Carroll CSO		4 8 11	17 7 10	Littleton Fire-Rescue	Littleton Fire-Rescue
Effingham	1,540 in 38.4 sq mi	Carroll CSO	9/10	164 280 219	370 386 420	Effingham Fire-Rescue	Action Ambulance
Enfield	4,568 in 40.2 sq mi	Upper Valley Reg Dispatch	6/9	449 465 357	139 236 523	Enfield FAST or Lebanon	Enfield FAST, Lebanon
Fitzwilliam	2,379 in 34.6 sq mi	Southwest NH Dispatch	6/9	163 # 200	305 # 462	Fitzwilliam Fire	Fitzwilliam Fire
Francestown	1,559 in 30.2 sq mi	Southwest NH Dispatch	9/10	71 103 110	139 181 162	Francestown Fire	Peterboro Fire-Rescue

<sup>10</sup> Charlestown ambulance ceased operations and was replaced by Golden Cross Ambulance in 2021

**Fire Departments and Emergency Medical Services in New Hampshire**

Department	Pop/ Cover Area	Dispatch	ISO Rating	EMS Calls (19-21)	Total FD Call (19-21)	EMS Services	Transport Agency
Franconia	1,112 in 65.7 sq mi	Grafton CSO	9/10	292 280 364	101 88 91	Franconia RS	Franconia RS
Freedom	1,486 in 35.0 sq mi	Carroll CSO	8/9	179 185 262	296 350 392	Freedom Fire	Action Ambulance
Fremont	4,424 in 17.2 sq mi	Raymond PD	9/10	225 289 314	317 399 416	Fremont Fire-Rescue	Raymond Ambulance
Gilsum	815 over 16.7 sq mi	Southwest NH Dispatch	9/10	61 41 39	90 79 67	Gilsum 1 <sup>st</sup> Responders	Marlow Ambulance
Goshen	799 over 22.5 sq mi	Southwest NH Dispatch	9/10	36 51 63	80 92 88	Goshen Fire	Newport Fire-EMS
Grafton	1,336 in 41.7 sq mi	Upper Valley Reg Dispatch	9/10	130 114 175	73 99 97	Grafton VFD	Grafton Amb Corp
Grantham	2,955 in 27.2 sq mi	Upper Valley Reg Dispatch	9/10	176 113 130	113 136 250	Grantham Fire-EMS	Lebanon FD
Greenfield	1,800 in 26.1 sq mi	Southwest NH Dispatch	9/10	133 125 95	257 292 268	Greenfield VFD	Wilton Ambulance
Greenland	3,734 in 10.5 sq mi	Rockingham CSO	6/9	255 248 270	456 473 489	Greenland Fire	Greenland Fire
Greenville	2,071 in 6.9 sq mi	Hillsboro CSO	7/9	518 500 589	120 # 132	Greenville Fire	Souhegan Ambulance
Hampton Falls	2,293 in 12.2 sq mi	Hampton Fire	8/9	190 163 225	325 273 368	Hampton Falls Fire	Hampton Falls Fire
Hancock	1,642 in 30.0 sq mi	Southwest NH Dispatch	6/9	75 133 147	142 219 242	Peterboro Fire	Peterboro Fire
Harrisville	957 over 18.6 sq mi	Southwest NH Dispatch	9/10	38 38 24	97 136 114	Harrisville Fire	DiLuzio Ambulance
Haverhill – Haverhill FD <sup>11</sup>	4,648 in 51.0 sq mi	Grafton CSO	6/9	1626 1318 1059	105 125 200	Haverhill Fire Dept	Woodsville Ambulance
Haverhill – Woodsville Fire District		Grafton CSO	6/9		144 72 No Data	Woodsville Fire-Rescue	Woodsville Ambulance
Hebron	613 over 16.5 sq mi	Lakes Region Dispatch	9/10	104 100 147	177 202 233	Hebron Fire	Hebron Fire
Hill	1,088 in 26.7 sq mi	Lakes Region Dispatch	6/9	56 75 83	81 115 140	Hill Fire	Bristol Fire
Hinsdale	3,972 in 20.6 sq mi	Southwest NH Dispatch	5/9	266 283 295	438 482 500	Hinsdale Fire	Rescue, Inc
Holderness	2,097 in 30.5 sq mi	Lakes Region Dispatch	6/9	204 177 205	383 355 378	Holderness Fire	Plymouth Fire-Rescue

<sup>11</sup> Haverhill Fire Department formed by the merger of the Haverhill Corner and North Haverhill Fire Departments in 2021

**Fire Departments and Emergency Medical Services in New Hampshire**

<b>Department</b>	<b>Pop/ Cover Area</b>	<b>Dispatch</b>	<b>ISO Rating</b>	<b>EMS Calls (19-21)</b>	<b>Total FD Call (19-21)</b>	<b>EMS Services</b>	<b>Transport Agency</b>
Jackson	811 over 66.9 sq mi	Carroll CSO	5/9	587 603 620	114 145 140	Bartlett- Jackson Ambulance	Bartlett- Jackson Ambulance
Jaffrey	5,403 in 38.3 sq mi	Southwest NH Dispatch	6/9	140 109 139	368 325 412	Jaffrey Fire	VFW Ambulance
Jefferson	1,072 in 50.2 sq mi	Grafton CSO	9/10	36 43 27	75 74 61	Jefferson Fire	Lancaster EMS
Kensington	2,127 in 11.9 sq mi	Rockingham CSO	9	143 105 113	216 173 203	Kensington Fire	Kensington Fire
Landaff	428 over 28.4 sq mi	Grafton CSO	9/10	No EMS Svc	23 25 18	Lisbon Life Squad	Lisbon Life Squad
Langdon	683 over 16.3 sq mi	Southwest NH Dispatch	9	44 51 57	73 73 97	Golden Cross Ambulance	Golden Cross Ambulance
Lempster	1,141 in 32.3 sq mi	Southwest NH Dispatch	9/10	67 74 81	145 166 152	Lempster Rescue	Marlow Ambulance
Lincoln	1,663 in 130.3 sq mi	Lincoln PD	6/9	823 768 889	173 215 183	LinWood Ambulance	LinWood Ambulance
Lisbon	1,582 in 26.2 sq mi	Grafton CSO	5/9	324 351 285	153 124 101	Lisbon Life Squad	Lisbon Life Squad
Lyme	1,700 in 53.8 sq mi	Upper Valley Reg Dispatch	9/10	89 95 104	110 112 119	Lyme FAST squad	Hanover Fire
Lyndeborough	1,691 in 30.4 sq mi	Southwest NH Dispatch	9/10	101 96 118	143 155 177	Wilton Ambulance	Wilton Ambulance
Madbury	1,797 in 11.7 sq mi	Strafford CSO	8/9	90 112 117	183 221 209	McGregor Memorial Ambulance	McGregor Memorial Ambulance
Madison	2,521 in 38.5 sq mi	Carroll CSO	9/10	106 122 No Data	313 242 263	Action Ambulance	Action Ambulance
Marlborough	2,049 in 20.4 sq mi	Southwest NH Dispatch	6/9	128 No Data 180	209 269 283	DiLuzio Ambulance	DiLuzio Ambulance
Marlow	742 over 26.0 sq mi	Southwest NH Dispatch	9/10	36 45 65	77 77 98	Marlow Fire-Rescue	Marlow Ambulance
Mason	1,396 in 23.9 sq mi	Hollis PD	9/10	87 75 113	80 66 87	Mason FD 1 <sup>st</sup> Responders	Brookline Ambulance
Meredith	6,299 in 39.9 sq mi	Lakes Region Dispatch	5/8B	2057 2142 2370	448 491 503	Stewart's Ambulance	Stewart's Ambulance
Middleton	1,781 in 18.1 sq mi	Strafford CSO	9	124 154 137	224 200 270	Middleton Fire-Rescue	Middleton Fire-Rescue
Monroe	787 over 57.7 sq mi	Grafton CSO	7/9	43 47 68	30 29 41	Monroe FAST Squad	Woodsville Ambulance
Mont Vernon	2,436 in 16.6 sq mi	MACC Base	9	No EMS Svc	92 70 69	Amherst Fire-Rescue	Amherst Fire-Rescue

**Fire Departments and Emergency Medical Services in New Hampshire**

<b>Department</b>	<b>Pop/ Cover Area</b>	<b>Dispatch</b>	<b>ISO Rating</b>	<b>EMS Calls (19-21)</b>	<b>Total FD Call (19-21)</b>	<b>EMS Services</b>	<b>Transport Agency</b>
Nelson	734 over 21.9 sq mi	Southwest NH Dispatch	9/10	35 33 39	59 62 71	Nelson Fire	Keene Fire
New Boston	5,412 in 42.8 sq mi	Goffstown PD	6/9	326 349 401	565 670 648	New Boston Fire	New Boston Fire
New Castle	974 over 0.8 sq mi	Rockingham CSO	5	99 85 93	202 193 183	New Castle Fire	Portsmouth Fire
New Durham	2,650 in 41.5 sq mi	Lakes Region Dispatch	9/10	186 166 168	311 312 288	New Durham Fire	New Durham Fire
New Ipswich	5,128 in 32.8 sq mi	Southwest NH Dispatch	5/9	518 500 589	150 203 189	New Ipswich Fire	Souhegan Ambulance
Newbury	2,112 in 35.8 sq mi	N London PD	9/10	187 169 169	372 352 402	Newbury Fire-Rescue	N. London Hospital
Newfields	1,697 in 7.0 sq mi	Newmarket PD	5/9	84 102 109	204 241 239	Newmarket Fire-Rescue	Newmarket Fire-Rescue
Newmarket	8,940 in 12.6 sq mi	Newmarket PD	5/9	716 626 780	1070 903 1075	Newmarket Fire-Rescue	Newmarket Fire-Rescue
Newton	4,747 in 9.9 sq mi	Rockingham CSO	8/9	238 244 229	459 483 486	Newton Fire-Rescue	Trinity EMS
Northumberland Groveton Fire District	2,229 in 35.7 sq mi	Grafton CSO	7/9	519 562 555	60 No Data No Data	Groveton Ambulance	Groveton Ambulance
Orford	1,244 in 46.7 sq mi	Upper Valley Reg Dispatch	9/10	69 63 87	141 114 139	Orford Fire	Upper Valley Ambulance
Ossipee – Ctr Ossipee Fire District	1,600 in 21.0 sq mi	Carroll CSO	5/9	206 211 237	453 522 601	Center Ossipee Fire	Action Ambulance
Ossipee – Ossipee Corner Fire	1,600 in 36.0 sq mi	Carroll CSO	5/9	349 352 382	507 503 542	Ossipee Corner Fire	Action Ambulance
Ossipee – West Ossipee Fire District	1,200 in 15.0 sq mi	Carroll CSO	9/10	174 155 174	274 270 296	West Ossipee Fire	Action Ambulance
Pembroke	7,127 in 22.8 sq mi	Capitol Area Dispatch	5/9	629 614 703	374 383 355	Pembroke Fire	Tri-Town Ambulance
Piermont	779 over 38.5 sq mi	Upper Valley Reg Dispatch	8/9	76 71 75	96 64 86	Piermont 1 <sup>st</sup> Responders	Upper Valley Ambulance
Pittsburg	848 over 281.4 sq mi	Colebrook & Beecher Falls FD (s)	9/10	64 84 116	No Data Avail	45 <sup>th</sup> Parallel EMS	45 <sup>th</sup> Parallel EMS
Plainfield – Plainfield Fire District	2,337 in 52.2 sq mi <sup>12</sup>	Upper Valley Reg Dispatch	9/10	No EMS Svc	103 133 105	Lebanon & Windsor VT FD	Lebanon & Windsor VT FD
Rollinsford	2,523 in 7.3 sq mi	Dover PD	6/9	45 45 82	165 187 242	Rollinsford Fire	York Ambulance

<sup>12</sup> Each department covers half the town and population. However, both departments are toned for each call.

**Fire Departments and Emergency Medical Services in New Hampshire**

Department	Pop/ Cover Area	Dispatch	ISO Rating	EMS Calls (19-21)	Total FD Call (19-21)	EMS Services	Transport Agency
Rumney	1,487 in 41.7 sq mi	Lakes Region Dispatch	9/10	165 181 178	96 142 266	Rumney FAST Squad	WW Ambulance
Salisbury	1,393 in 40.0 sq mi	Capitol Area Dispatch	9/10	86 92 128	131 163 194	Salisbury Fire	Salisbury Fire
Sandown	6,184 in 13.9 sq mi	Rockingham CSO	7/9	298 350 370	409 470 493	Sandown Fire	Trinity EMS
Sandwich	1,318 in 90.2 sq mi	Lakes Region Dispatch	9/10	138 152 117	235 256 249	Sandwich Fire	Stewart's Ambulance
Shelburne	363 over 47.9 sq mi	Gorham PD	9/10	No EMS Svc	21 11 21	Gorham EMS	Gorham EMS
South Hampton	816 over 7.9 sq mi	Rockingham CSO	8/9	70 33 62	105 109 127	South Hampton Fire-Rescue	South Hampton Fire-Rescue
Springfield	1,304 in 43.2 sq mi	Upper Valley Reg Dispatch	6/9	64 72 75	140 156 156	Springfield Fire	N. London Hospital
Stark	532 over 58.7 sq mi	Grafton CSO	9/10	No EMS Svc	26 22 18	Groveton Ambulance	Groveton Ambulance
Stoddard	1,253 in 50.9 sq mi	Southwest NH Dispatch	9/10	59 74 75	136 144 137	Stoddard Fire	DiLuzio Ambulance
Strafford	4,023 in 49.2 sq mi	Lakes Region Dispatch	9/10	264 264 308	436 468 486	Strafford Fire	Strafford Fire
Stratford	716 over 79.5 sq mi	Grafton CSO	9/10	107 75 109	33 39 34	Groveton Ambulance	Groveton Ambulance
Stratham	7,338 in 15.1 sq mi	Rockingham CSO	8/9	542 403 588	762 657 831	Stratham Fire	Stratham Fire
Sugar Hill	570 over 17.0 sq mi	Grafton CSO	9/10	17 56 52	55 72 59	Littleton Fire-Rescue	Littleton Fire-Rescue
Sullivan	673 over 18.5 sq mi	Southwest NH Dispatch	9/10	38 43 22	64 61 44	Sullivan Fire-Rescue	Keene Fire
Sunapee	3,349 in 21.1 sq mi	New London PD	5/9	318 299 250	567 601 564	Sunapee Fire	N London Hospital
Surry	737 over 15.6 sq mi	Southwest NH Dispatch	9/10	51 44 50	79 82 86	Surry Fire	Keene Fire
Sutton	1,848 in 42.3 sq mi	New London PD		74 47 70	150 124 143	N London Hospital	N London Hospital
Swanzey	7,242 in 45.0 sq mi	Southwest NH Dispatch	6/9	721 767 843	974 1010 1158	Swanzey Fire	DiLuzio Ambulance
Tamworth	2,847 in 59.7 sq mi	Carroll CSO	9/10	386 395 443	566 605 642	Tamworth Fire-Rescue	Action Ambulance
Temple	1,403 in 22.2 sq mi	Southwest NH Dispatch	9/10	58 59 85	43 53 131	Temple Rescue	Peterboro Fire

**Fire Departments and Emergency Medical Services in New Hampshire**

<b>Department</b>	<b>Pop/ Cover Area</b>	<b>Dispatch</b>	<b>ISO Rating</b>	<b>EMS Calls (19-21)</b>	<b>Total FD Call (19-21)</b>	<b>EMS Services</b>	<b>Transport Agency</b>
Troy	2,126 in 17.4 sq mi	Southwest NH Dispatch	6/9	152 183 176	429 529 460	Troy Fire	Troy Fire
Unity	1,640 in 36.9 sq mi	Southwest NH Dispatch		89 99 139	165 163 200	Unity Fire	Golden Cross Ambulance
Walpole – Walpole Fire District	3,710 in 35.2 sq mi	Southwest NH Dispatch	6/9	355 383 428	512 529 626	Walpole Fire	Walpole Fire
Walpole – N. Walpole Fire District		Southwest NH Dispatch	7/9	62 41 100	107 70 144	North Walpole Fire	Golden Cross Ambulance
Warner	2,865 in 55.6 sq mi	Capitol Area Dispatch	7/9	306 358 359	407 506 573	Warner Fire	Hopkinton Fire
Warren	896 over 48.5 sq mi	Lakes Region Dispatch	9/10	119 96 No Data	65 45 46	WW Ambulance	WW Ambulance
Washington	1,109 in 45.4 sq mi	Capitol Area Dispatch	9/10	89 116 111	157 181 164	Washingtn Rescue	Washingtn Rescue
Weare	8,892 in 58.8 sq mi	Goffstown PD	9/10	490 525 569	780 843 854	Weare Fire	Weare Fire
Webster	1,901 in 27.9 sq mi	Capitol Area Dispatch	9/10	135 132 148	182 211 220	Webster Fire	Hopkinton Fire
Wentworth	919 over 41.4 sq mi	Lakes Region Dispatch	9/10	108 83 No Data	80 72 70	WW Ambulance	WW Ambulance
Westmoreland	1,718 in 35.9 sq mi	Southwest NH Dispatch	9/10	82 84 118	157 178 235	Westmoreld Fire	Keene Fire
Whitefield	2,269 in 34.2 sq mi	Grafton CSO	6/9	484 403 417	560 534 581	Whitefield Fire	Whitefield Fire
Wilmot	1,377 in 29.6 sq mi	New London PD	9/10	101 81 97	174 185 169	Wilmot FAST Squad	N London Hospital
Wilton	3,670 in 25.8 sq mi	Southwest NH Dispatch	4/9	698 547 570	149 184 246	Wilton Ambulance	Wilton Ambulance
Winchester	4,279 in 54.9 sq mi	Southwest NH Dispatch	6/9	659 736 776	229 198 199	Winchester Ambulance	Winchester Ambulance
Woodstock	1,385 in 58.7 sq mi	Grafton CSO	5/9	823 768 889	140 148 135	Linwood Ambulance	Linwood Ambulance

**Fire Departments and Emergency Medical Services in New Hampshire**

## Towns with No Fire Department

<b>Town</b>	<b>Pop (09-11)</b>	<b>Dispatch</b>	<b>ISO Rating</b>	<b>Fire Coverage Provider</b>	<b>Transport Agency</b>
Albany	724 over 74.6 sq mi	Conway PD	9/10	Conway Village FD	North Conway Ambulance
Benton	364 over 48.2 sq mi	Grafton CSO		Haverhill FD	Woodsille Ambulance
Brookfield	709 over 22.9 sq mi	Carroll CSO	6/9	Wakefield FD	Wakefield FD
Chatham	337 over 56.7 sq mi	Saco Valley Fire Assn	9/10	Saco Valley Fire	Fryeburg Rescue
Clarksville	263 over 60.1 sq mi	Colebrook Comm Ctr	9/10	Pittsburg FD & Beecher Falls	45 <sup>th</sup> Parallel EMS
Columbia	748 over 60.3 sq mi	Colebrook Comm Ctr		Colebrook FD	45 <sup>th</sup> Parallel EMS
Dorchester	355 over 44.7 sq mi	UVRDC & LRMFA	9/10	WW Amb (n) Canaan FD (s)	WW Amb (n) Canaan fast (s)
Dummer	301 over 48.2 sq mi	Berlin PD	9/10	Milan FD	Milan & Dummer Amb
Eaton	391 over 24.3 sq mi	Conway PD	9/10	Freedom FD & Center Conway	Freedom FD & Center Conway FD
Ellsworth	83 over 21.4 sq mi	Lakes Region Dispatch	8B/10	Campton- Thornton FD	Campton- Thornton FD
Groton	592 over 40.8 sq mi	Lakes Region Dispatch	9/10	Rumney FD (n) Hebron FD (s)	Hebron FD
Hart's Location	41 over 18.5 sq mi	Carroll CSO		Bartlett FD	North Conway Ambulance
Lyman	531 over 28.5 sq mi	Grafton CSO	9/10	Lisbon FD	Lisbon Life Squad
Orange	330 over 23.2 sq mi	Upper Valley RDC	4/4Y	Canaan FD	Canaan FAST
Roxbury	228 over 11.9 sq mi	Southwest NH Dispatch	4/9	Keene FD	Keene FD
Sharon	354 over 15.6 sq mi	Southwest NH Dispatch	9/10	Peterboro FD	Peterboro FD
Stewartstown	993 over 46.2 sq mi	Beecher Falls	9/10	Colebrook FD & Beecher Falls FD	45 <sup>th</sup> Parallel EMS
Windsor	225 over 8.3 sq mi	Capitol Area Dispatch	10	Hillsboro FD	Hillsboro FD

## Appendix A – Full-time Fire Chiefs

This appendix lists the towns with full-time fire chiefs and when that position first became full-time. It is not meaningful information but provides a historical perspective.

Municipality	Made FT
Amherst	2003
Barnstead	1995
Barrington	2007
Bartlett	1989
Bedford	1976
Belmont	1962
Berlin	1898
Bethlehem	2010
Bow	2017
Bristol	2000
Campton-Thornton	1988
Canaan	2022
Carroll	2005
Claremont	1917
Concord	1848
Conway Village	1994
Derry	1964
Dover	Unk
Durham	1936
Epping	2010
Exeter	1963
Farmington	2006
Franklin	1933
Freedom	2008
Gilford	1979
Gilmanton	1987
Goffstown	1992
Gorham	1988
Hampstead	2008
Hampton	1916
Hampton Falls	2002
Hanover	1960s
Holderness	2002
Hollis	1997
Hooksett	1987
Hopkinton	2009
Hudson	1975
Jaffrey	2002
Keene	1952
Kingston	2005
Laconia	1894

Municipality	Made FT
Lancaster	2003
Lebanon	1950s
Lee	2014
Littleton	Unk
Londonderry	1976
Loudon	2004
Manchester	1879
Mason	2021
Meredith	1986
Merrimack	1970
Milford	1986
Moultonborough	1994
Nashua	1915
New Castle	2004
New Hampton	2020
New London	2007
Newington	1984
North Conway	1965
North Hampton	1968
Pelham	1988
Peterborough	1988
Pittsfield	2006
Plaistow	1988
Plymouth	1966
Portsmouth	1927
Raymond	1973
Rindge	1996
Rochester	1918
Rye	1955
Salem	1943
Sanbornton	2002
Sandown	2005
Seabrook	1966
Somersworth	1956
Swanzey	2008
Tamworth	2005
Tilton-Northfield	2000
Tuftsboro	2002
Waterville Valley	2003
Wilton	2020
Windham	1988
Wolfeboro	1940s



## Appendix B - EMS and Fire Emergency Calls across New England

Using information from the State Fire Marshal Office Annual Reports for Vermont, Maine, and Massachusetts; and NFIRS for Connecticut and New Hampshire, we can look at the number of municipal fire and EMS calls to determine if any trends can be observed. Since all the data (including that in the FMO Annual Report) is taken from NFIRS, it is dependent on the number of fire departments entering their data into the system and there is not 100% compliance. Rhode Island is data I compiled.

<b>New England State</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>5yr Avg</b>
<b>Connecticut</b>								
Muni EMS calls	185,890	203,422	222,609	225,621	245,978	236,152	190,151	222,017
Fire calls	11,956	11,740	11,884	11,584	11,710	10,925	11,578	11,185
Non-fire calls	106,845	107,797	113,860	121,262	141,532	128,868	116,441	123,100
Total Muni Calls	304,691	322,959	348,353	358,467	399,220	375,945	318,170	356,301
% Muni EMS calls	61.0%	63.0%	63.9%	62.9%	61.6%	62.8%	59.8%	62.3%
% Muni Fire Calls	3.9%	3.6%	3.4%	3.2%	2.9%	2.9%	3.6%	3.1%
<b>Maine</b>								
Muni EMS calls	76,138	81,947	81,864	70,410	91,065	97,911	76,926	84,788
Fire calls	5,556	5,749	6,422	5,623	6,459	6,107	6,328	6,174
Non-fire calls	35,451	34,262	35,998	35,987	40,148	42,382	36,735	38,036
Total Muni Calls	117,145	121,958	124,284	112,020	137,672	146,400	119,989	128,999
% Muni EMS calls	65.0%	67.2%	65.9%	62.9%	66.1%	66.9%	64.1%	65.7%
% Muni Fire Calls	4.7%	4.7%	5.2%	5.0%	4.7%	4.2%	5.3%	4.8%
<b>New Hampshire</b>								
Muni EMS calls	99,124	98,746	111,147	114,796	111,089	112,655	103,247	110,957
Fire Calls	5,844	6,793	7,375	4,121	5,267	4,568	5,183	5,147
Non-fire calls	58,378	55,260	58,261	59,607	59,678	55,953	56,177	58,414
Total Muni Calls	163,346	160,799	176,783	178,524	176,034	173,176	164,607	174,518
% Muni EMS calls	60.7%	61.4%	62.9%	64.3%	63.1%	65.1%	62.7%	63.6%
% Muni Fire Calls	3.6%	4.2%	4.2%	2.3%	3.0%	2.6%	3.1%	2.9%
<b>Vermont</b>								
Muni EMS calls	22,513	23,535	23,208	21,295	25,012	22,439	23,182	23,906
Fire Calls	5,431	3,575	3,269	2,458	2,660	2,274	2,693	2,622
Non-fire calls	16,332	16,332	16,332	17,011	18,199	16,947	18,350	17,574
Total Muni Calls	45,569	45,763	44,085	40,764	45,871	41,660	44,225	44,314
% Muni EMS calls	49.4%	51.4%	52.6%	52.2%	54.5%	53.9%	52.4%	53.9%
% Muni Fire Calls	11.9%	7.8%	7.4%	6.0%	5.8%	5.5%	6.1%	5.9%
<b>Massachusetts</b>								
Muni EMS calls	472,447	510,956	525,726	561,350	563,406	584,336	540,093	547,645
Fire calls	29,273	31,709	32,245	27,895	27,731	25,176	29,461	29,036
Non-fire calls	306,327	327,521	332,924	348,065	353,109	362,953	353,440	346,335
Total Muni Calls	808,047	870,186	890,895	937,310	965,176	972,465	922,994	926,504
% Muni EMS calls	58.5%	58.7%	59.0%	59.9%	58.4%	60.1%	58.5%	59.1%
% Muni Fire Calls	3.6%	3.6%	3.6%	3.0%	2.9%	2.6%	3.2%	3.1%
<b>Rhode Island</b>								
Muni EMS calls	134,126	144,298	143,038	120,883	128,413	126,458	117,467	130,093
Total Muni Calls	159,159	171,723	169,057	148,725	152,668	162,830	152,083	159,514
% Muni EMS calls	84.3%	84.0%	84.6%	81.3%	84.1%	77.7%	77.2%	81.6%
% Muni Fire Calls	15.7%	16.0%	15.4%	18.7%	15.9%	22.3%	22.8%	18.4%

### **Fire Departments and Emergency Medical Services in New Hampshire**

In looking at Connecticut, Massachusetts, and New Hampshire, the percentage of fire and EMS calls relative to the total calls are similar. Of the non-fire calls, false alarms and service calls account for between 25% and 30% of the total emergency calls for the five States in the table above.

- Maine's percentage of fire and EMS calls relative to the total calls are higher than these three States. This may be partly due to the fact that slightly less than half the fire departments report incident data.
- Vermont's percentage of fire calls is higher and the percentage of EMS calls is lower relative to the total calls. The lower EMS percentage may be due to Vermont's reliance on non-profits for ambulance service (although many towns have a first responder squad) and its higher fire call percentage may be due to its small population and smaller density (population per square mile).

## Appendix C – Work Shift Schedule Examples

In discussing shift schedules in this document, it may be difficult at times for the reader to understand these different schedules. So, here are examples of the different shifts for those department deploying four shifts. The different shifts are labeled A, B, C, and D.

1 day on/3 days off						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
A	B	C	D	A	B	C
D	A	B	C	D	A	B
C	D	A	B	C	D	A
B	C	D	A	B	C	D
A	B	C	D	A	B	C

24/24/24/120 shift						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
A	B	A	B	C	D	C
D	A	B	A	B	C	D
C	D	A	B	A	B	C
D	C	D	A	B	A	B
C	D	C	D	A	B	A

24/48/24/96 shift						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
A	D	B	A	C	B	D
C	A	D	B	A	C	B
D	C	A	D	B	A	C
B	D	C	A	D	B	A
C	B	D	C	A	D	B

10/14 shift, 11/13 shift, 12/12 shift															
Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Sat		
B	A	B	A	C	B	C	B	D	C	D	C	D	C	A	D
A	D	B	A	B	A	C	B	C	B	C	B	D	C	D	C
A	D	A	D	B	A	B	A	C	B	C	B	C	B	D	C
D	C	A	D	A	D	B	A	B	A	C	B	A	C	B	C
D	C	D	C	A	D	A	D	B	A	B	A	B	A	C	B

**Fire Departments and Emergency Medical Services in New Hampshire**

<b>2 days on/1 day off/2 nights on/3 days off</b>													
<b>Sun</b>		<b>Mon</b>		<b>Tues</b>		<b>Wed</b>		<b>Thurs</b>		<b>Fri</b>		<b>Sat</b>	
A	C	A	D	B	D	B	A	C	A	C	B	D	B
D	C	A	C	A	D	B	D	B	A	C	A	C	B
D	B	D	C	A	C	A	D	B	D	B	A	C	A
C	B	D	B	D	C	A	C	A	D	B	D	B	A
C	A	C	B	D	B	D	C	A	C	A	D	B	D

## Appendix D – Cost To Protect Property Per \$1000 Valuation

There are various statistical measures that can be used to determine the cost effectiveness of a fire department. Most center on the cost per capita which can be a misleading statistic for those communities that get a large influx of visitors on weekends or the summer. For those communities, the cost per call may be a more telling statistic. One interesting statistical measure is the cost to protect all property in a town. As this table shows, the cost per \$1000 (CPT) based on the net appropriations and the cost per \$1000 (CPT) based on taxable properties are fairly similar as one would expect. However, when one includes the tax-exempt properties that a fire department is expected to protect, one gets a more realistic picture of the true cost to protect property in a municipality.

### Full-time Departments

Municipality	2021 Gross Valuation (Taxable Properties)	2021 Gross Valuation (All properties)	2021 Net Fire/Amb Budget	2021 Town Tax Effort	2021 Town Tax Rate	Cost/\$1000 Protected Value (Taxable Properties)	Cost/\$1000 Protected Value (All Properties)
Barnstead	616,751,830	642,626,130	1,048,215	3,306,981	\$5.36	\$1.70	\$1.63
Bedford	4,764,959,906	4,939,258,885	5,110,467	17,892,497	\$3.76	\$1.07	\$1.03
Belmont	741,456,168	791,245,396	1,433,024	6,341,801	\$8.54	\$1.93	\$1.81
Berlin	479,677,675	984,274,403	2,785,877	7,010,587	\$14.61	\$5.81	\$2.83
Bow	1,281,541,817	1,353,783,479	1,134,307	9,164,388	\$7.15	\$0.89	\$0.84
Bristol	559,000,718	611,304,918	1,048,528	4,639,125	\$8.30	\$1.88	\$1.72
Claremont	754,172,304	877,335,834	2,433,740	11,322,588	\$15.01	\$3.23	\$2.77
Concord	5,103,909,256	6,664,542,256	13,184,288	44,599,161	\$8.74	\$2.58	\$1.98
Derry	3,621,174,466	3,908,876,956	10,123,668	26,175,423	\$7.22	\$2.80	\$2.59
Dover	4,472,310,130	5,086,990,960	8,381,586	35,841,363	\$8.02	\$1.87	\$1.65
Durham	1,252,334,006	2,968,591,108	4,485,450	9,854,376	\$7.86	\$3.58	\$1.51
Exeter	2,218,420,894	2,594,888,686	3,195,473	12,847,041	\$5.79	\$1.44	\$1.23
Franklin	694,248,853	778,641,553	2,002,661	8,334,255	\$12.00	\$2.88	\$2.57
Gilford	2,583,564,870	2,719,548,940	2,045,865	10,458,256	\$4.05	\$0.79	\$0.75
Goffstown	1,746,180,900	1,916,598,000	3,206,873	14,503,792	\$8.30	\$1.84	\$1.67
Hampton	3,851,811,900	4,094,240,600	3,892,105	22,760,710	\$5.91	\$1.01	\$0.95
Hanover	2,673,893,419	4,062,809,445	3,473,010	10,672,744	\$4.00	\$1.30	\$0.85
Hooksett	2,054,122,246	2,196,324,630	3,967,673	11,764,143	\$5.73	\$1.93	\$1.81
Hudson	3,218,932,520	3,410,002,720	8,067,377	20,969,092	\$6.52	\$2.51	\$2.37
Keene	2,201,301,020	2,865,382,120	6,923,662	27,089,588	\$12.31	\$3.15	\$2.42
Laconia	2,568,395,863	2,931,436,363	5,037,946	19,287,342	\$7.51	\$1.96	\$1.72
Lebanon	2,280,148,240	3,435,991,545	3,413,290	22,914,416	\$10.06	\$1.50	\$0.99
Littleton	737,917,526	1,031,415,806	1,208,219	4,049,842	\$5.48	\$1.64	\$1.17
Londonderry	5,092,317,821	5,473,422,521	7,889,199	21,187,341	\$4.16	\$1.55	\$1.44
Manchester	13,128,827,277	14,921,455,606	21,732,635	108,467,227	\$8.26	\$1.66	\$1.46
Merrimack	4,902,353,163	5,160,910,895	6,209,927	18,679,041	\$3.82	\$1.27	\$1.20
Nashua	10,267,308,340	11,413,498,552	28,255,594	95,719,713	\$9.32	\$2.75	\$2.48

**Fire Departments and Emergency Medical Services in New Hampshire**

Newington	969,779,455	1,116,891,805	1,815,781	6,111,406	\$6.31	\$1.87	\$1.63
North Hampton	1,198,551,893	1,227,090,593	2,028,979	6,318,472	\$5.27	\$1.69	\$1.65
Pelham	785,461,218	878,887,010	2,402,408	12,485,489	\$4.74	\$3.06	\$2.73
Plymouth	1,349,940,969	1,621,385,807	1,483,557	5,995,818	\$12.06	\$1.10	\$0.91
Portsmouth	496,839,511	1,285,024,576	8,881,128	44,909,182	\$7.02	\$17.88	\$6.91
Rochester	699,913,031	1,014,633,031	5,995,721	22,208,530	\$7.89	\$8.57	\$5.91
Rye	200,005,649	320,209,649	1,875,808	6,160,803	\$2.80	\$9.38	\$5.86
Salem	2,204,844,000	2,450,021,774	12,312,202	33,867,343	\$5.23	\$5.58	\$5.03
Seabrook	451,791,070	603,171,720	4,929,588	19,699,567	\$6.01	\$10.91	\$8.17
Somersworth	87,356,881	224,743,581	2,292,773	9,625,162	\$8.62	\$26.25	\$10.20
Tilton-Northfield	164,261,455	246,365,255	-216,587	6,404,621	\$5.99	-\$1.32	-\$0.88
Windham	555,138,156	700,517,864	3,554,251	9,565,099	\$3.10	\$6.40	\$5.07
Wolfeboro	3,090,033,574	3,292,836,874	1,972,026	12,613,867	\$5.28	\$0.64	\$0.60
<b>TOTAL</b>	<b>96,120,949,990</b>	<b>112,817,177,846</b>	<b>211,018,294</b>	<b>801,818,192</b>		\$2.20	\$1.87
<b>AVERAGE</b>	<b>2,403,023,750</b>	<b>2,820,429,446</b>	<b>5,275,457</b>	<b>20,045,455</b>	<b>7.20</b>	<b>3.71</b>	<b>2.48</b>

Fire Departments and Emergency Medical Services in New Hampshire

## Non-Full Time Departments

Municipality	2021 Gross Valuation (Taxable Properties)	2021 Gross Valuation (All properties)	2021 Net Fire/Amb Budget	2021 Town Tax Effort (Net Approp)	2021 Town Tax Rate	Cost/\$1000 Protected Value (Taxable Properties)	Cost/\$1000 Protected Value (All Properties)
Acworth	120,497,600	124,727,700	55,100	941,817	\$7.81	\$0.46	\$0.44
Albany	132,196,813	175,494,613	132,001	291,302	\$2.21	\$1.00	\$0.75
Alexandria	288,719,358	294,084,858	135,633	1,647,989	\$5.71	\$0.47	\$0.46
Allenstown	300,374,630	334,001,463	586,040	2,573,367	\$8.55	\$1.95	\$1.75
Alstead	194,314,820	202,861,420	119,815	1,117,597	\$5.75	\$0.62	\$0.59
Alton	2,180,520,731	2,260,739,181	674,226	7,793,523	\$3.57	\$0.31	\$0.30
Amherst	2,334,610,437	2,449,834,837	953,684	10,048,442	\$4.30	\$0.41	\$0.39
Andover	317,795,749	366,599,849	99,200	1,359,538	\$4.28	\$0.31	\$0.27
Antrim	263,400,981	278,943,992	103,400	2,540,332	\$9.65	\$0.39	\$0.37
Ashland	254,167,678	285,443,101	374,359	2,438,603	\$9.59	\$1.47	\$1.31
Atkinson	1,546,012,743	1,591,980,443	664,223	3,370,694	\$2.17	\$0.43	\$0.42
Auburn	886,024,130	910,380,630	595,130	2,913,791	\$3.29	\$0.67	\$0.65
Barrington	1,390,626,360	1,460,692,698	685,412	4,098,933	\$2.95	\$0.49	\$0.47
Bartlett	1,082,479,267	1,099,208,367	240,940	1,739,739	\$1.61	\$0.22	\$0.22
Bath	149,317,704	154,542,004	98,909	700,215	\$4.69	\$0.66	\$0.64
Bennington	131,442,323	140,644,623	129,498	1,459,953	\$11.11	\$0.99	\$0.92
Benton	26,271,646	66,300,046	17,600	-9,973	(\$0.38)	\$0.67	\$0.27
Bethlehem	285,723,805	347,251,505	157,262	1,774,055	\$6.21	\$0.55	\$0.45
Boscawen	300,230,587	371,882,487	418,493	2,782,916	\$9.27	\$1.39	\$1.13
Bradford	250,775,908	262,075,308	232,380	2,246,000	\$8.95	\$0.93	\$0.89
Brentwood	721,111,949	800,568,264	366,675	2,717,317	\$3.77	\$0.51	\$0.46
Bridgewater	453,996,000	463,899,900	186,921	1,366,918	\$3.01	\$0.41	\$0.40
Brookfield	128,516,821	132,377,097	1,603	700,847	\$5.46	\$0.01	\$0.01
Brookline	684,665,472	720,303,178	844,453	3,581,387	\$5.23	\$1.23	\$1.17
Campton-Thornton	886,957,952	938,584,252	1,299,200	4,605,154	\$6.02	NA	NA
Canaan	445,486,410	506,769,015	296,317	2,690,175	\$6.04	\$0.67	\$0.58
Candia	524,440,468	541,105,124	174,238	2,066,126	\$3.95	\$0.33	\$0.32
Canterbury	361,872,617	382,673,017	471,022	1,831,974	\$5.07	\$1.30	\$1.23
Carroll	365,937,739	392,537,638	245,124	2,024,926	\$5.54	\$0.67	\$0.62
Center Harbor	440,920,291	458,286,094	267,678	2,721,884	\$6.17	\$0.61	\$0.58
Charlestown	345,550,995	378,275,795	244,782	2,569,469	\$7.44	\$0.71	\$0.65
Chatham	60,967,336	90,606,536	23,300	29,289	\$0.48	\$0.38	\$0.26
Chester	737,995,574	759,866,978	560,168	4,781,018	\$6.49	\$0.76	\$0.74
Chesterfield	619,919,727	649,335,997	116,318	2,701,909	\$4.36	\$0.19	\$0.18
Chichester	329,255,034	338,846,034	274,579	1,785,102	\$5.42	\$0.83	\$0.81
Clarksville	47,779,454	52,317,454	43,000	157,091	\$3.29	\$0.90	\$0.82

**Fire Departments and Emergency Medical Services in New Hampshire**

Colebrook	190,458,527	215,167,977	204,250	2,067,366	\$10.85	\$1.07	\$0.95
Columbia	93,357,251	99,521,851	70,360	242,475	\$2.60	\$0.75	\$0.71
Conway	1,812,089,195	2,000,523,595	630,780	9,406,337	\$5.19	\$0.35	\$0.32
Cornish	197,753,917	208,000,617	66,251	751,056	\$3.81	\$0.34	\$0.32
Croydon	117,645,940	128,875,740	32,801	353,380	\$3.00	\$0.28	\$0.25
Dalton	84,590,195	87,989,432	86,000	432,015	\$5.10	\$1.02	\$0.98
Danbury	168,246,630	172,388,834	105,259	833,067	\$4.96	\$0.63	\$0.61
Danville	575,606,456	593,252,556	447,377	2,456,206	\$4.27	\$0.78	\$0.75
Deerfield	781,099,503	808,185,903	321,302	2,768,108	\$3.54	\$0.41	\$0.40
Deering	243,924,215	259,883,995	178,174	1,387,804	\$5.68	\$0.73	\$0.69
Dorchester	45,178,890	46,492,490	30,300	411,988	\$9.12	\$0.67	\$0.65
Dublin	277,459,130	310,622,024	267,653	1,725,675	\$6.22	\$0.96	\$0.86
Dummer	101,455,205	103,873,305	40,536	456,199	\$4.49	\$0.40	\$0.39
Dunbarton	399,463,829	415,125,698	79,401	1,617,844	\$4.05	\$0.20	\$0.19
East Kingston	400,533,066	411,163,266	283,195	2,438,250	\$6.09	\$0.71	\$0.69
Easton	76,963,510	99,230,610	32,550	44,747	\$0.58	\$0.42	\$0.33
Eaton	143,226,973	147,411,173	43,150	584,531	\$4.08	\$0.30	\$0.29
Effingham	212,932,420	224,942,038	250,650	1,816,556	\$8.53	\$1.18	\$1.11
Ellsworth	19,452,572	27,916,372	27,770	56,348	\$2.89	\$1.43	\$0.99
Enfield	589,409,842	620,055,442	79,093	4,271,236	\$7.25	\$0.13	\$0.13
Epping	945,320,800	1,002,154,400	675,132	5,046,327	\$5.34	\$0.71	\$0.67
Epsom	514,386,257	530,643,262	363,664	1,909,987	\$3.71	\$0.71	\$0.69
Errol	90,585,368	101,193,207	59,910	278,961	\$3.08	\$0.66	\$0.59
Farmington	562,027,636	611,585,136	457,390	3,540,157	\$6.30	\$0.81	\$0.75
Fitzwilliam	293,453,362	302,363,362	148,485	1,603,827	\$5.47	\$0.51	\$0.49
Francestown	219,858,760	232,255,788	154,228	1,714,538	\$7.80	\$0.70	\$0.66
Franconia	414,590,267	510,692,367	-38,862	1,765,738	\$4.26	-\$0.09	-\$0.08
Freedom	657,946,874	688,062,974	315,631	2,587,430	\$3.93	\$0.48	\$0.46
Fremont	541,193,155	553,846,826	320,251	2,115,284	\$3.91	\$0.59	\$0.58
Gilmanton	552,744,300	582,996,800	616,561	3,085,566	\$5.58	\$1.12	\$1.06
Gilsum	72,722,304	76,293,691	34,000	505,012	\$6.95	\$0.47	\$0.45
Gorham	259,995,318	294,430,418	301,983	2,905,952	\$11.18	\$1.16	\$1.03
Goshen	82,903,531	85,131,082	103,819	712,224	\$8.59	\$1.25	\$1.22
Grafton	141,147,844	146,537,608	44,600	759,685	\$5.38	\$0.32	\$0.30
Grantham	542,986,877	563,650,900	297,158	2,662,268	\$4.90	\$0.55	\$0.53
Greenfield	172,308,246	194,293,546	235,122	1,529,371	\$8.88	\$1.36	\$1.21
Greenland	880,894,800	921,957,500	607,576	4,249,451	\$4.82	\$0.69	\$0.66
Greenville	119,889,155	130,544,555	160,236	1,494,339	\$12.47	\$1.34	\$1.23
Groton	106,334,264	109,689,564	101,604	58,464	\$0.55	\$0.96	\$0.93
Hampstead	1,339,982,770	1,378,949,946	1,187,697	3,796,479	\$2.84	\$0.89	\$0.86
Hampton Falls	497,981,249	519,665,249	287,860	1,841,088	\$3.70	\$0.58	\$0.55
Hancock	293,804,330	307,666,489	196,459	1,921,778	\$6.54	\$0.67	\$0.64
Harrisville	208,978,521	214,997,078	114,796	1,062,150	\$5.08	\$0.55	\$0.53



**Fire Departments and Emergency Medical Services in New Hampshire**

Haverhill	413,241,033	465,358,837	554,068	2,615,633	\$6.33	\$1.34	\$1.19
Hebron	400,512,067	412,982,832	121,308	1,157,024	\$2.89	\$0.30	\$0.29
Henniker	475,282,877	530,045,207	431,290	5,071,597	\$10.67	\$0.91	\$0.81
Hill	95,448,279	106,040,097	97,395	638,754	\$6.70	\$1.02	\$0.92
Hillsborough	602,737,553	658,281,876	565,430	6,233,033	\$10.35	\$0.94	\$0.86
Hinsdale	350,957,415	379,694,015	401,904	2,472,181	\$7.05	\$1.15	\$1.06
Holderness	975,676,972	1,066,806,364	259,332	1,750,371	\$1.80	\$0.27	\$0.24
Hollis	1,416,247,519	1,471,458,782	1,289,515	7,987,647	\$5.65	\$0.91	\$0.88
Hopkinton	788,374,298	856,327,698	591,346	5,150,205	\$6.54	\$0.75	\$0.69
Jackson	473,235,539	522,495,039	198,602	2,000,787	\$4.23	\$0.42	\$0.38
Jaffrey	526,733,014	589,979,466	421,200	5,351,175	\$10.15	\$0.80	\$0.71
Jefferson	163,806,619	181,679,419	74,675	419,698	\$2.56	\$0.46	\$0.41
Kensington	400,821,101	414,561,389	134,650	1,492,434	\$3.72	\$0.34	\$0.32
Kingston	859,637,238	932,742,838	709,050	3,975,014	\$4.62	\$0.82	\$0.76
Lancaster	282,356,582	329,727,982	1,599,983	3,018,639	\$10.68	\$5.67	\$4.85
Landaff	60,372,413	65,187,481	34,960	296,410	\$4.91	\$0.58	\$0.54
Langdon	73,304,782	85,260,011	40,924	381,681	\$5.20	\$0.56	\$0.48
Lee	729,919,551	755,566,773	635,576	3,327,598	\$4.56	\$0.87	\$0.84
Lempster	127,944,603	134,558,203	97,950	470,316	\$3.68	\$0.77	\$0.73
Lincoln	1,250,407,424	1,324,993,024	202,302	6,348,415	\$5.07	\$0.16	\$0.15
Lisbon	120,256,518	134,755,419	173,240	1,357,911	\$11.29	\$1.44	\$1.29
Litchfield	1,209,035,089	1,263,075,089	1,219,532	4,609,788	\$3.81	\$1.01	\$0.97
Loudon	709,473,083	729,606,433	780,581	3,141,071	\$4.43	\$1.10	\$1.07
Lyman	75,856,134	77,230,994	34,745	429,477	\$5.66	\$0.46	\$0.45
Lyme	407,568,300	443,184,500	112,164	2,383,245	\$5.85	\$0.28	\$0.25
Lyndeborough	213,852,197	219,226,097	200,851	1,571,307	\$7.35	\$0.94	\$0.92
Madbury	304,066,305	317,349,205	105,853	1,296,904	\$4.27	\$0.35	\$0.33
Madison	597,418,837	618,718,782	279,450	1,970,917	\$3.30	\$0.47	\$0.45
Marlborough	217,105,181	230,062,249	101,885	1,194,894	\$5.50	\$0.47	\$0.44
Marlow	74,319,260	77,427,420	45,850	358,669	\$4.83	\$0.62	\$0.59
Mason	212,321,525	223,151,225	237,576	1,568,359	\$7.39	\$1.12	\$1.06
Meredith	2,330,415,957	2,465,631,994	708,330	8,974,489	\$3.85	\$0.30	\$0.29
Middleton	185,402,361	194,059,461	175,758	1,543,865	\$8.33	\$0.95	\$0.91
Milan	152,755,948	163,287,248	102,679	697,433	\$4.56	\$0.67	\$0.63
Milford	2,047,206,812	2,181,914,321	795,796	8,264,682	\$4.03	\$0.39	\$0.36
Milton	501,922,971	526,557,371	467,320	2,861,628	\$5.70	\$0.93	\$0.89
Monroe	425,136,221	430,034,221	65,769	885,907	\$2.08	\$0.15	\$0.15
Mont Vernon	322,127,159	329,872,540	127,345	2,019,176	\$6.27	\$0.40	\$0.39
Moultonborough	3,943,560,976	4,028,068,370	1,395,259	9,175,458	\$2.33	\$0.35	\$0.35
Nelson	164,426,822	173,873,557	101,195	704,459	\$4.29	\$0.62	\$0.58
New Boston	927,870,692	976,340,492	328,919	3,795,206	\$4.09	\$0.35	\$0.34
New Castle	1,072,041,781	1,151,283,881	488,965	2,243,264	\$2.09	\$0.46	\$0.42
New Durham	601,587,277	622,362,007	245,982	3,010,122	\$5.00	\$0.41	\$0.40

**Fire Departments and Emergency Medical Services in New Hampshire**

New Hampton	342,573,351	385,370,080	457,923	2,167,811	\$6.33	\$1.34	\$1.19
New Ipswich	491,772,545	523,021,045	225,798	1,932,744	\$3.93	\$0.46	\$0.43
New London	1,283,814,088	1,386,441,888	566,519	5,747,269	\$4.48	\$0.44	\$0.41
Newbury	1,096,047,061	1,169,129,661	272,045	3,272,286	\$2.98	\$0.25	\$0.23
Newfields	302,638,130	323,641,030	92,458	1,109,820	\$3.66	\$0.31	\$0.29
Newmarket	987,870,471	1,050,071,547	503,432	5,763,240	\$5.84	\$0.51	\$0.48
Newport	442,292,255	491,660,955	1,143,242	5,314,970	\$12.02	\$2.58	\$2.33
Newton	651,376,377	675,611,877	375,800	2,300,360	\$3.53	\$0.58	\$0.56
Northumberland	343,447,946	355,325,580	340,721	1,900,410	\$14.70	\$0.99	\$0.96
Northwood	129,264,454	185,174,801	391,210	1,613,824	\$2.32	\$3.03	\$2.11
Nottingham	696,982,750	726,556,850	238,191	2,908,176	\$3.58	\$0.34	\$0.33
Orange	811,883,203	815,910,103	27,237	151,254	\$4.13	\$0.03	\$0.03
Orford	36,614,806	51,954,106	155,530	936,703	\$5.96	\$4.25	\$2.99
Ossipee	157,331,931	210,172,231	406,787	4,612,401	\$5.87	\$2.59	\$1.94
Pembroke	2,634,674,907	2,710,505,658	682,336	4,210,017	\$5.33	\$0.26	\$0.25
Peterborough	789,214,047	938,449,557	-201,336	8,021,266	\$9.17	-\$0.26	-\$0.21
Piermont	874,585,813	886,639,413	105,025	674,607	\$5.16	\$0.12	\$0.12
Pittsburg	130,636,090	151,961,990	170,300	1,100,291	\$3.68	\$1.30	\$1.12
Pittsfield	299,272,143	324,789,243	760,940	2,680,257	\$7.64	\$2.54	\$2.34
Plainfield	351,028,654	406,998,654	105,500	1,648,268	\$5.34	\$0.30	\$0.26
Plaistow	308,868,373	390,381,373	918,285	6,291,805	\$4.66	\$2.97	\$2.35
Randolph	6,398,641,017	6,419,627,417	62,239	402,713	\$5.23	\$0.01	\$0.01
Raymond	77,148,720	129,925,662	577,640	4,961,827	\$3.76	\$7.49	\$4.45
Richmond	1,315,003,359	1,322,074,259	76,342	606,805	\$5.59	\$0.06	\$0.06
Rindge	108,699,684	170,907,784	614,119	2,646,450	\$3.78	\$5.65	\$3.59
Rollinsford	2,814,722,128	2,845,915,428	186,458	1,474,995	\$5.05	\$0.07	\$0.07
Roxbury	292,346,951	292,998,251	11,000	140,140	\$5.65	\$0.04	\$0.04
Rumney	24,785,542	34,676,842	167,497	942,997	\$4.72	\$6.76	\$4.83
Salisbury	6,461,830,390	6,469,905,790	144,160	878,048	\$5.72	\$0.02	\$0.02
Sanbornton	153,451,044	194,817,622	603,215	4,017,143	\$7.51	\$3.93	\$3.10
Sandown	534,578,122	548,744,982	273,014	3,404,561	\$5.01	\$0.51	\$0.50
Sandwich	680,609,880	706,319,851	334,251	2,232,523	\$4.94	\$0.49	\$0.47
Sharon	3,275,418,100	3,276,868,700	69,354	321,346	\$5.56	\$0.02	\$0.02
Shelburne	57,886,860	69,492,860	85,789	440,417	\$5.04	\$1.48	\$1.23
South Hampton	1,116,699,095	1,128,166,207	120,316	732,951	\$4.29	\$0.11	\$0.11
Springfield	170,879,340	184,928,490	118,135	960,456	\$4.01	\$0.69	\$0.64
Stark	239,435,436	253,928,636	45,210	384,740	\$4.98	\$0.19	\$0.18
Stewartstown	77,413,793	87,999,693	131,847	383,285	\$3.45	\$1.70	\$1.50
Stoddard	111,249,311	115,113,581	128,600	1,139,230	\$3.83	\$1.16	\$1.12
Strafford	297,225,550	318,870,650	462,894	2,005,444	\$2.85	\$1.56	\$1.45
Stratford	703,803,000	717,377,600	60,495	518,871	\$5.14	\$0.09	\$0.08
Stratham	101,105,922	166,617,822	406,002	5,097,153	\$3.15	\$4.02	\$2.44
Sugar Hill	1,614,602,169	1,617,339,369	128,706	1,573,660	\$9.44	\$0.08	\$0.08

**Fire Departments and Emergency Medical Services in New Hampshire**

Sullivan	166,477,979	168,207,679	46,561	596,388	\$9.30	\$0.28	\$0.28
Sunapee	64,186,969	119,588,199	333,246	4,682,561	\$3.18	\$5.19	\$2.79
Surry	1,472,667,842	1,478,361,842	87,495	237,123	\$2.76	\$0.06	\$0.06
Sutton	85,847,323	125,697,755	136,939	2,503,619	\$7.80	\$1.60	\$1.09
Swanzy	320,805,720	389,141,992	634,775	4,134,641	\$6.53	\$1.98	\$1.63
Tamworth	632,938,512	663,626,185	520,571	2,415,380	\$6.04	\$0.82	\$0.78
Temple	399,938,571	414,441,199	119,440	925,164	\$5.63	\$0.30	\$0.29
Troy	440,374,654	457,085,002	140,348	1,315,441	\$9.96	\$0.32	\$0.31
Tuftonboro	986,586,738	1,040,216,138	683,090	3,824,859	\$3.15	\$0.69	\$0.66
Unity	131,939,233	149,768,448	71,484	1,222,036	\$9.04	\$0.54	\$0.48
Wakefield	1,216,326,934	1,256,992,634	770,112	4,034,601	\$3.52	\$0.63	\$0.61
Walpole	135,196,264	161,712,060	0	2,571,617	\$5.87	NA	NA
Warner	1,143,740,226	1,174,271,805	289,794	2,773,730	\$8.50	\$0.25	\$0.25
Warren	437,673,988	461,744,388	36,068	476,761	\$4.33	\$0.08	\$0.08
Washington	326,137,384	337,271,174	239,820	1,967,500	\$8.04	\$0.74	\$0.71
Waterville Valley	109,699,842	151,179,942	208,233	3,019,683	\$9.05	\$1.90	\$1.38
Weare	244,488,222	318,420,222	1,014,606	3,829,983	\$3.04	\$4.15	\$3.19
Webster	333,664,595	345,069,395	137,640	1,419,713	\$6.00	\$0.41	\$0.40
Wentworth	1,259,803,153	1,267,472,353	90,100	820,668	\$6.26	\$0.07	\$0.07
Westmoreland	236,761,810	258,965,810	111,031	744,821	\$3.75	\$0.47	\$0.43
Whitefield	131,149,365	174,428,005	160,738	2,167,797	\$9.10	\$1.23	\$0.92
Wilmot	198,860,842	209,410,647	98,444	1,374,988	\$6.14	\$0.50	\$0.47
Wilton	238,013,481	275,168,312	93,147	3,134,835	\$5.65	\$0.39	\$0.34
Winchester	223,749,930	254,277,455	293,511	2,173,193	\$6.30	\$1.31	\$1.15
Windsor	345,073,124	351,980,024	7,310	113,314	\$3.10	\$0.02	\$0.02
Woodstock	36,562,221	53,454,361	155,500	2,655,179	\$9.18	\$4.25	\$2.91
<b>TOTAL</b>	<b>114,024,894,378</b>	<b>119,975,424,537</b>	<b>57,692,568</b>	<b>448,402,655</b>		\$0.51	\$0.48
<b>AVERAGE</b>	<b>596,988,976</b>	<b>628,143,584</b>	<b>302,055</b>	<b>2,347,658</b>	<b>5.48</b>	<b>0.93</b>	<b>0.78</b>

Gross valuations, Town Tax Effort, and town tax rate came from the DRA.

The cost per \$1000 based on net appropriation was calculated by dividing the net appropriation by the fire + amb budgets less amb revenue then taking that result and divide it into the town tax rate. (This was not calculated for towns with fire districts and that is indicated by N/A in the column)

The cost per \$1000 protected value was calculated by dividing the net fire/amb budgets (fire plus ambulance budget less ambulance revenues) by the appropriate gross valuation per 1000. However, I was not able to get the ambulance revenue for all towns so keep this in mind if making comparisons.

## Appendix E – Mutual Aid Associations

Mutual Aid Association	Year Form	Towns
Border Area Mutual Aid Association	1982?	NH: Atkinson, Auburn, Bedford, Candia, Chester, Derry, Goffstown, Hampstead, Hooksett, Hudson, Litchfield, Londonderry, Manchester, Merrimack, Nashua, Pelham, Plaistow, Salem, Windham MA: Chelmsford, Dracut, Groton, Lawrence, Lowell, Methuen, Westford, Tyngsboro
Capital Area Mutual Aid Compact		Allenstown, Boscawen, Bow, Bradford, Canterbury, Chichester, Concord, Deering, Dunbarton, Epsom, Henniker, Hooksett, Hopkinton, Loudon, Northwood, Pembroke, Pittsfield, Salisbury, Warner, Webster
Interstate Emergency Unit		NH: Atkinson, Auburn, Barrington, Brentwood, Candia, Chester, Danville, Deerfield, Derry, Dover, Durham, East Kingston, Epping, Exeter, Fremont, Greenland, Hampstead, Hampton, Hampton Falls, Kensington, Lee, Kingston, Londonderry, Madbury, New Castle, Newfields, Newington, Newmarket, Newton, North Hampton, Northwood, Nottingham, Plaistow, Portsmouth, Raymond, Rochester, Rollinsford, Rye, Salem, Sandown, Seabrook, Somersworth, South Hampton, Stratham, Windham MA: Amesbury, Merrimac, Newburyport, Salisbury, West Newbury ME: Eliot, Kittery, S. Berwick
Kearsage Mutual Aid Association	1968?	Andover, Bradford, Hopkinton, Henniker, New London, Newbury, Newport, Springfield, Sunapee, Sutton, Warner, Weare, Wilmot
Lakes Region Fire Mutual Aid Association	1971	Alexandria, Alton, Andover, Ashland, Barnstead, Belmont, Bridgewater, Bristol, Campton, Center Harbor, Danbury, Dorchester, Ellsworth, Franklin, Gilford, Gilmanton, Groton, Hebron, Hill, Holderness, Laconia, Meredith, Moultonborough, New Durham, New Hampton, Northfield, Plymouth, Rumney, Sanbornton, Sandwich, Strafford, Thornton, Tilton, Warren, Waterville Valley, Wentworth
Mt Washington Valley Mutual Aid		Bartlett, Jackson, Center Conway, Conway Village, East Conway, North Conway, Redstone
Northern New Hampshire Fire Mutual Aid Pact (Norpac)	1989	NH: Bethlehem, Carroll, Colebrook, Columbia, Dalton, Errol, Gorham, Groveton (Northumberland), Jefferson, Lancaster, Littleton, Milan, Pittsburg, Randolph, Shelburne, Stark, North Stratford, Whitefield VT: Beecher Falls, Lunenburg
Ossipee Valley Mutual Aid Association		Bartlett, Brookfield, Conway Village, Effingham, Freedom, Jackson, Madison, Milton, Tamworth, Tuftonboro, Wakefield, Wolfeboro, Center Ossipee, Ossipee Corner, West Ossipee
Souhegan Mutual Aid Association	1949	NH: Amherst, Bedford, Brookline, Goffstown, Greenville, Hollis, Hudson, Litchfield, Lyndeborough, Mason, Merrimack, Milford, Mont Vernon, Nashua, New Boston, New Ipswich, Temple, Weare, Wilton MA: Pepperell
Seacoast Chiefs Fire Net	1974	NH: Barrington, Brentwood, Deerfield, Dover, Durham, East Kingston, Epping, Exeter, Fremont, Greenland, Hampton, Hampton Falls, Kensington, Kingston, Lee, Madbury, New Castle, Newfields, Newington, Newmarket, Newton, North Hampton, Nottingham, Portsmouth, Rochester, Rollingsford, Rye, Seabrook, Somersworth, South Hampton, Stratham, Portsmouth Naval Shipyard, Pease Air National Guard Base, and Seabrook Nuclear Power Plant.

**Fire Departments and Emergency Medical Services in New Hampshire**

		MA: Amesbury, Merrimac, Newburyport, Salisbury, West Newbury ME: Eliot, Kittery
Southwest New Hampshire Mutual Aid Association	1958	NH: Acworth, Alstead, Amherst, Antrim, Bennington, Charlestown, Chesterfield, Claremont, Dublin, Fitzwilliam, Francestown, Gilsun, Goshen, Greenfield, Hancock, Harrisville, Hinsdale, Jaffrey, Keene, Langdon, Lempster, Lyndeborough, Marlborough, Marlow, Nelson, New Ipswich, Peterborough, Richmond, Rindge, Roxbury, Sharon, Spofford, Stoddard, Sullivan, Surry, Swanzey, Temple, Troy, Unity, Walpole, Washington, Westmoreland, Winchester MA: Royalston, Winchendon VT: Brattleboro, Bellows Falls, Chester, Dummerston, Dover, Grafton, Guilford, Halifax, Jamaica, Londonderry, Marlboro, Newfane, Peru, Putney, Readsboro, Saxton's River, Winhall, Springfield, Stratton, Townshend, Vernon, Wardsboro, Westminster, Weston, Whitingham, Wilmington, Windham
Twin State Mutual Aid Association	1960	NH: Bath, Bethlehem, Carroll, Easton, Franconia, Haverhill Corner, Landaff, Lincoln, Lisbon, Littleton, Lyman, Monroe, North Haverhill, Piermont, Sugar Hill, Warren, Whitefield, Woodstock, Woodsville VT: Barnet, Bradford, Groton, Newbury, Peacham, Ryegate, Wells River
Upper Valley Mutual Aid Association	1978	NH: Canaan, Claremont, Cornish, Enfield, Goshen, Grafton, Grantham, Hanover, Lebanon, Lyme, Meriden, Orange, Orford, Piermont, Plainfield, Springfield VT: Ascutney, Barnard, Bradford, Bridgewater, Fairlee, Hartford, Hartland, Norwich, Pomfret?, Sharon, S. Royalston, Strafford, Teago, Thetford, Vershire, West Fairlee, Windsor, Woodstock, White River Valley
No Mutual Aid Affiliation		Croydon, Farmington, Middleton

**Out-of-State Mutual Aid Associations that some NH Towns belong to**

Connecticut River Valley Mutual Aid		VT: Ascutney, Bellows Falls, Bridgewater, Cavendish, Chester, Hartland, Killington, Ludlow, Mount Holly, Plymouth, Proctorsville, Putney, Reading, Rockingham, Saxton's River, S. Londonderry, S. Woodstock, Springfield, Weathersfield, West Windsor, Westminster, Weston, Windsor, Woodstock NH: Charlestown, Claremont, Cornish
TriState Fire Mutual Aid Association		MA: Amherst, Ashfield, Athol, Bernardston, Buckland, Charlemont, Colrain, Conway, Deerfield, Erving, Gill, Greenfield, Hadley, Hawley, Heath, Leverett, Leyden, Monroe, Montague, New Salem, Northfield, Orange, Pelham, Petersham, Rowe, Royalston, Shelburne Center, Shelburne Falls, South Deerfield, Sunderland, Turner Falls, Warwick, Wendell, Whately, Williamsburg NH: Hinsdale, Keene, Swanzey VT: Brattleboro, Guilford, Halifax, Vernon

**Fire Departments and Emergency Medical Services in New Hampshire**

## Appendix F – Local Dispatch Centers for Fire and EMS Agencies

Municipality	Dispatch Center
Amherst	Amherst PS Comm Center
Berlin, Dummer, Milan, Milan-Dummer Ambulance, Berlin Ambulance	Berlin PD
Allenstown, Boscawen, Bow, Bradford, Canterbury, Chichester, Concord, Deering, Dunbarton, Epsom, Henniker, Hillsborough, Hooksett, Hopkinton, Loudon, Northwood, Pembroke, Pittsfield, Salisbury, Warner, Washington, Webster, Windsor, Penacook Rescue, Tri-Town Ambulance	Capital Area Mutual Fire Aid Compact
Bartlett (fire), Brookfield (served by Wakefield), Center Ossipee, Effingham, Freedom, Glen (fire), Jackson (fire), Madison, Ossipee Corner, Tamworth, Wakefield, Milton, West Ossipee, Lords Amb, LifeStar	Carroll CSO
Claremont, Goshen	Claremont PD
Clarksville (40%), Colebrook, Columbia (served by Colebrook), Dixville, Errol (EMS), Pittsburg (northern part), Stewartstown (35%)	Colebrook RDC
Albany (served by Conway Village FD), Eaton (served by Center Conway FD), Conway (all 5 fire districts), Hales Location (served by North Conway FD), North Conway Ambulance	Conway PD
Clarksville (60%), Stewartstown (65%), Pittsburg (southern part)	Beecher Falls, VT
Dover, Rollinsford	Dover PD
Auburn, Chester, Derry, Windham	Derry Fire Department
Goffstown, New Boston, Weare	Goffstown Comm Center
Gorham, Randolph, Shelburne	Gorham PD
Bath, Benton (served by Haverhill), Bethlehem, Carroll, Easton, Franconia, Haverhill, Landaff, Lincoln, Lisbon, Littleton, Lyman (served by Lisbon), Monroe, Piermont, Sugar Hill, Whitefield, Woodstock, Woodsville Ambulance, Franconia RS, Linwood Ambulance	Grafton CSO
Hampton, Hampton Falls	Hampton Fire Department
Greenville, Souhegan Ambulance	Hillsborough CSO
Brookline, Hollis, Mason, Brookline Ambulance	Hollis Communication Ctr
Hudson, Litchfield	Hudson Fire Department
Hampstead, Londonderry, Pelham	Londonderry Fire Dept
Alton, Alexandria, Andover, Ashland, Barnstead, Belmont, Bridgewater, Bristol, Campton, Center Harbor, Danbury, Dorchester (portion served by Rumney), Franklin, Ellsworth (served by Campton), Gilford, Gilmanton, Groton (served by Hebron and Rumney), Hebron, Hill, Holderness, Laconia, Meredith, Moultonborough, New Hampton, Northfield, Plymouth, Rumney, Sanbornton, Sandwich, Strafford, Thornton, Tilton, Warren, Waterville Valley, Wentworth, Andover RS, Stewarts Ambulance, Warren-Wentworth Amb	LRMFA Communications Center ( <a href="http://www.lrmfa.org">www.lrmfa.org</a> )
Milford, Milford Ambulance, Mont Vernon, Wilton, Wilton Ambulance	Milford Comm Center
Croydon, New London, Newbury, Sunapee, Sutton, Wilmot, New London Hospital Ambulance	New London PD
Newfields, Newmarket	Newmarket PD
Atkinson, Plaistow	Plaistow PD
Fremont, Raymond, Raymond Ambulance	Raymond PD
Errol (fire)	Red Phone Network
Brentwood, Candia, Danville, Deerfield, East Kingston, Epping, Greenland, Kensington, Kingston, New Castle, Newington, Newton, Nottingham, Rye, Sandown, South Hampton, Stratham	Rockingham CSO
Alstead, Acworth, Antrim, Bennington, Charlestown, Chesterfield, Dublin, Fitzwilliam, Francesstown, Gilsum, Greenfield, Hancock, Harrisville, Hinsdale, Jaffrey, Keene, Langdon, Lempster, Lyndeborough, Marlborough, Marlow, Nelson, New Ipswich, Peterborough, Richmond, Rindge, Roxbury, Sharon (served by Peterborough), Stoddard, Sullivan, Surry, Swanzey, Temple, Troy, Unity, Walpole, Westmoreland, Winchester, Alstead Ambulance, Antrim Amb,	Southwestern NH District Fire Mutual Aid System ( <a href="http://www.firemutualaid.com">www.firemutualaid.com</a> )

**Fire Departments and Emergency Medical Services in New Hampshire**

<b>Municipality</b>	<b>Dispatch Center</b>
Charlestown Amb, DiLuzio Amb, Jaffrey VFW Amb, Winchester Ambulance	
Chatham	Saco Valley Fire Assoc.
Dalton, Jefferson, Lancaster, Northumberland, Stark, Stratford, Groveton Amb	State Highway Dispatch
Durham, Farmington, Middleton, New Durham	Strafford CSO
Manchester, Nashua, North Hampton, Salem, Seabrook	Town Fire Department.
Bedford, Exeter, Franklin, Lebanon, Merrimack, Newport, Portsmouth, Rochester, Somersworth, Wolfeboro	Town Police Department
Barrington, Lee, Madbury, MacGregor EMS	UNH Dispatch Center
Canaan, Cornish, Dorchester (serviced by Canaan and Rumney), Enfield, Grafton, Grantham, Hanover, Lyme, Orange (serviced by Canaan), Orford, Piermont, Plainfield, Springfield, Canaan FAST, Enfield FAST, Upper Valley Ambulance	Upper Valley Regional Dispatch Center

Fire Departments and Emergency Medical Services in New Hampshire

## Appendix G – Emergency Ambulance Transport Providers

Ambulance Service Provided by	Municipalities Served
<b>Municipal Ambulance Service Operated by Fire Department</b>	
Amherst Fire Department	Amherst, Mont Vernon
Bristol Fire Department	Alexandria, Bristol, Danbury, Hill
Campton-Thornton Fire Department	Campton, Ellsworth, Thornton
Conway Village Fire Department	Albany, Conway
Derry Fire Department	Auburn, Chester, Derry
Gorham EMS	Gorham, Randolph, Shelburne UTG: Green's Grant, Martin's Location, and Pinkham's Grant.
Hanover Fire Department	Hanover, Lyme
Hebron Fire Department	Groton, Hebron
Hopkinton Fire Department	Hopkinton, Warner, Webster
Hillsborough Fire Department	Hillsborough, Windsor
Hudson Fire Department	Hudson, Litchfield
Keene Fire Department	Chesterfield (e), Keene, Nelson, Roxbury, Sullivan, Surry, Westmoreland
Lancaster EMS	Jefferson, Lancaster,
Lebanon Fire Department	Enfield (day), Lebanon, Plainfield
Lisbon Life Squad	Landaff, Lisbon, Lyman
Littleton Fire Department	Easton, Littleton, Sugar Hill
Loudon Fire Department	Chichester, Loudon
Marlow Ambulance	Lempster, Marlow
Newmarket Fire Department	Newmarket, Newfields
Newport Fire Department	Croydon, Goshen, Newport
Peterborough Fire Department	Dublin, Francestown, Hancock, Sharon, Temple, Peterborough
Plymouth Fire Department	Ashland, Holderness, Plymouth, Rumney
Portsmouth Fire Department	New Castle, Portsmouth
Twin Mountain Fire Department	Carroll UTG: Bean's Grant, Crawford's Purchase, Cutt's Grant, Hadley's Purchase, Low & Burbank Grant, Sargent's Purchase, Thompson & Meserve Purchase
Wakefield Fire Department	Brookfield, Wakefield
Whitefield Fire Department	Dalton, Whitefield
Windsor (VT) Fire Department	Cornish, Plainfield
Town Fire Department	Alton, Barnstead, Barrington, Bedford, Belmont, Bethlehem, Bow, Bradford, Brentwood, Bridgewater, Concord, Deering, Dover, Dunbarton, East Kingston, Effingham, Epping, Epsom, Exeter, Farmington, Fitzwilliam, Franklin, Gilford, Gilmanton, Goffstown, Greenland, Hampton, Henniker, Hollis, Hooksett, Kensington, Kingston, Laconia, Londonderry, Merrimack, Middleton, Milton, New Boston, New Durham, New Hampton, Newington, North Hampton, Northwood, Nottingham, Pelham, Pittsfield, Rye, Salem, Salisbury, Sanbornton, Seabrook, South Hampton, Strafford, Stratham, Tilton-Northfield, Troy, Walpole (s), Washington Rescue, Waterville Valley, Weare, Winchester, Windham
<b>Municipal Ambulance Service Independent of Fire Department</b>	
Alstead Ambulance	Alstead
Andover Rescue	Andover
Antrim Fire Department	Antrim, Bennington
Bartlett-Jackson Ambulance	Bartlett, Jackson
Brookline Ambulance	Brookline, Mason
Canaan FAST Squad	Canaan, Orange
Charlestown Ambulance	Charlestown
Enfield FAST, Inc	Enfield (night)
Franconia Rescue	Franconia



**Fire Departments and Emergency Medical Services in New Hampshire**

<b>Ambulance Service Provided by</b>	<b>Municipalities Served</b>
Grafton Volunteer Ambulance	Grafton
Groveton Ambulance	Northumberland, Stark, Stratford
Jaffrey VFW Memorial Amb	Jaffrey, Rindge
LinWood Ambulance Service	Lincoln, Woodstock
Milan and Dummer Ambulance	Dummer, Milan
Milford Ambulance Service	Milford
Penacook Rescue	Boscawen, Canterbury
Rumney EMS	Rumney
Warren-Wentworth Amb Service	Benton, Dorchester, Piermont, Warren, Wentworth
Wilton Ambulance	Greenfield, Lyndeborough, Wilton
Woodsville Ambulance	Bath, Haverhill, Monroe
<b>Non-profit Ambulance Service</b>	
45 <sup>th</sup> Parallel EMS	Clarksville, Colebrook, Columbia, Pittsburg, Stewartstown UTG: Dixville
Errol Rescue Squad	Errol UTG: Atkinson & Gilmanton Academy Grant, Cambridge, Dix's Grant, Dixville, Millsfield, Second College Grant, and Wentworth Location
Fryeburg Rescue (ME)	Chatham
McGregor Memorial Ambulance Corps	Durham, Lee, Madbury
Raymond Ambulance, Inc.	Deerfield, Fremont, Raymond
Rescue, Inc (VT)	Chesterfield (w), Hinsdale
Souhegan Valley Ambulance	Greenville, New Ipswich
Tri-Town Ambulance Service	Allenstown, Pembroke
Upper Valley Ambulance (VT)	Orford
<b>Hospital-based Ambulance Service</b>	
Frisbie Memorial Hospital EMS	Rochester
New London Hospital Ambulance	Grantham, New London, Newbury, Springfield, Sunapee, Sutton, Wilmot
<b>Private Ambulance Service – Commercial</b>	
AMR	Candia, Manchester, Nashua
Berlin Ambulance	Berlin
DiLuzio Ambulance Service	Gilsum, Harrisville, Marlborough, Richmond, Stoddard, Swanzey
Golden Cross Ambulance, Inc	Acworth, Claremont, Cornish, Langdon, Walpole (n), Unity
North Conway Ambulance	Eaton, Effingham, Freedom, Madison, North Conway, Ossipee, Tamworth
Stewarts Ambulance	Center Harbor, Meredith, Moultonborough, Sandwich, Somersworth, Tuftonboro, Wolfeboro
Trinity Ambulance	Atkinson, Danville, Hampstead, Newton, Plaistow, Sandown
York Ambulance (ME)	Rollinsford