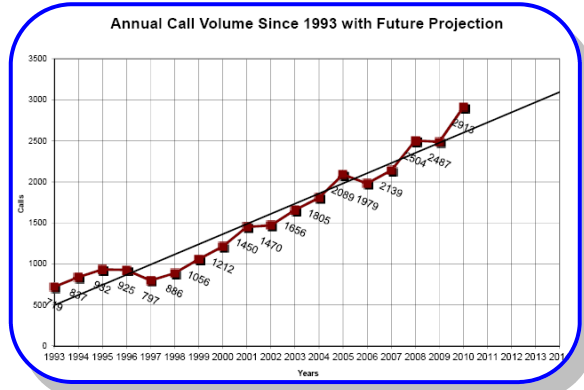




2010 Call Volume

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2010 was an exceptionally exciting and busy year for the members of the Macungie Ambulance Corps. Now serving all of Alburts Borough, Lower Macungie Township, Macungie Borough and the Western half of Upper Milford Township, we responded to 2,913 calls for assistance. This was a record high for us; up from a previous record of 2,504 in 2008.

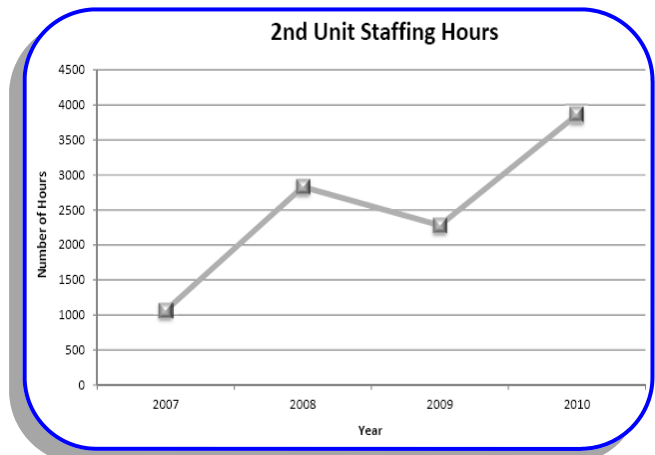
Ambulance Staffing

Macungie Ambulance would like to thank the elected officials and community leaders of all of the municipalities that we serve for their unwavering dedication to public safety and their continued support of our organization.

The Macungie Ambulance Corps provides at least one Advanced Life Support unit 24 hours per day; 7 days per week; 365 days per year. Additional ambulances are staffed during peak times; generally 7:00 AM until 5:00 PM on weekdays and 7:00 AM until 9:00 PM or later on weekends. In 2010, the Macungie Ambulance Corps staffed 8,760 hours of first unit and approximately 3,860 hours of second (and sometimes third and fourth) unit time. This second unit staffing has increased significantly over the past years as our call volume has grown with the citizens we serve. Of our 2,913 calls for assistance, 391 of those were covered because of our additional staffed units.

Through our ongoing review of call volume and response times, we have found that it is beneficial to staff our ambulances from different locations at different times. This is especially true when we have more than one ambulance available for emergency calls. For years we have utilized our relationships with our local fire departments to allow us to respond ambulances from their fire stations during periods of high call volume, weather events, etc...

In 2010, we formalized an agreement with the Lower Macungie Fire Department allowing use of the Wescosville fire station during certain times of the day. A review of this agreement at the end of the initial six-month trial period showed an improvement in average response times throughout our coverage area. We continue to review our response time data and all of our staffing options to ensure the best possible coverage for the residents and visitors of our coverage area.





Mutual Aid



All emergency service organizations need the support of their neighboring agencies. In 2010 the Macungie Ambulance Corps continued to work closely with our neighboring Police, Fire and EMS services on incidents and training. Of our 2,913 calls for ambulance service, 303 were outside of our primary

coverage area where we provided "mutual aid" for other EMS organizations. Likewise, while we were busy on emergency calls, our mutual aid providers responded to 212 calls for service in the Macungie Ambulance Corps primary coverage area.

Macungie Ambulance now covering all of L. Macungie Twp.

In 2010 the Macungie Ambulance Corps began providing primary ambulance service to the "Hamilton Blvd Corridor" of Lower Macungie Township. This coverage area was assigned to the Macungie Ambulance Corps on January 1st 2010 by the Lower Macungie Township Board of Commissioners after a full year of consideration by the Lower Macungie Township Public Safety Commission. The members of both of those bodies should be commended for their hard work and extensive diligence in making that decision in the best interest of the residents of Lower Macungie Twp.

Special Operations Team

The Division of Special Operations continues to be an important aspect of our operation. These members, trained in several different areas of EMS specialty, responded to 31 calls for assistance in 2010. In addition these members spent countless hours training and preparing for challenging EMS situations, emergency responder rehabilitation, rescues, and disasters.

Our ATV, unit 6653, was utilized at 6 of these incidents in addition to the numerous times it was used for stand-bys and other special events in our primary coverage area.

Of these 31 calls, only 5 of them were within our primary coverage area. All of the other 26 incidents were in neighboring municipalities ranging

from the Blue Mountain in Walnutport; to the Interstate near Hellertown; to the Spinnerstown area of Lower Milford Township and many points between.

Our EMS bike team invested 173 hours in community events and bike safety education.

Of note was our service's participation in the rescue of four individuals from an abandoned mine shaft in Longswamp Township. This incident gained national media attention in late November. The Macungie Ambulance Corps, throughout the incident, provided all four of our ambulances and all of our special operations assets. Over a dozen of our personnel participated in the rescue.

The Special Operations Incidents included :

- 22 Dwelling / Structure Fires
- 4 Forrest / Brush Fires
- 2 Terrain / High-Angle Rescues
- 1 Tractor Trailer fire w/ Hazardous Material
- 1 Police Incident
- 1 Special Event Stand-by



2011 Cardiac Arrest and Critically Ill patient survival initiative

The American Heart Association recently announced new guidelines regarding CPR and the care of critically ill patients. Our organization has long embraced the concepts of these guidelines, especially strong community CPR programs. These new guidelines once again put the focus of survival on high-quality compressions and early defibrillation.

Beyond that, these guidelines present many new procedures and technology that will improve outcomes for critically ill patients. With so many recommendations out there, it is important for an organization such as ours to carefully study the recommendations and implement those that will have the best chance of success for our patients.

Because of this, our organization has implemented what we are calling the "2011 Cardiac arrest and critically ill patient survival initiative." This

is a systematic approach to reviewing the guidelines, evaluating our current standing in relation to the guidelines, creating processes for continual improvement, and purchasing any needed equipment or training tools to best care for our patients. While quality assurance and quality improvement have always been at the foundation of our activities, this initiative serves to focus our attention on the patients that need us the most; those in cardiac arrest or high-risk for cardiac arrest.

One of the most important parts of this initiative is strong support from the community. Our Community Outreach and Education Division has been, and will become even more so, involved with providing CPR training for members of the community. When a patient suffers an out-of-hospital cardiac arrest excellent bystander CPR and quick activation of the emergency response system is that patient's only hope for survival.

Over the years Emergency Medical Services have saved countless lives of patients in cardiac arrest, and almost all of these "saves" would never have happened without excellent bystander CPR.

Any member of the community interested in receiving First-Aid or CPR training should call our Division of Community Outreach and Education at (610) 966-2601 ext 115. We look forward to working with more community groups in getting this life saving training out into the community.

Beyond high-quality CPR, there are many new pieces of equipment and procedures that may be beneficial to cardiac arrest and critically ill patients. Within the guidelines are varying levels of evidence and recommendations regarding the various equipment (or procedures) available to healthcare providers. While some of the recommendations are not appropriate to EMS care, many of them are. We



Above: Local community members learning and practicing life saving skills.

have found that over \$75,000 would need to be spent if all of the recommendations were implemented. The goal of our initiative is to find which recommendations would do the most good for the most patients and implement those in a priority order. With that said, we do expect significant cost with this initiative. Community members or organizations who may be interested in donating in general or for specific purposes should contact our Operations Manager at 610-966-2601 ext 107 for further information.

Fleet Statistics

The Macungie Ambulance Corps operates four ambulances and several special operations vehicles. In 2010 a total of 51,710 miles and 4,897 hours of operation were logged. While our miles and hours have increased over 2009, our cost to operate the vehicles remained nearly the same at \$31,500.00. These savings can be attributed to lower vehicle maintenance costs and other factors.



New Units

In late 2010, the Macungie Ambulance Corps Executive Board approved the purchase of two new vehicles for our service. The ambulance corps took delivery of vehicles in late January of 2011. One is a 2010 Ford / Braun Ambulance which will replace a smaller, heavily used 2005 model. The other is a 2010 Ford F-250 pick-up truck with emergency equipment installed by KME. This vehicle will serve several functions for the organization including Community Outreach and Education, Special Operations, and Advanced Life Support capabilities.



Community Outreach & Education

In 2010 the Macungie Ambulance Corps continued to provide high quality training in CPR and First Aid to a variety of community groups ranging from local fire and police departments, religious groups, doctors' offices, and all types of community groups. Last year, Macungie Ambulance Corps trained over 300 people in CPR and First Aid.

New for 2010 was the addition of training for certain organizations in the area of blood borne pathogens. Certain employers and community groups are required to provide their employees with training regarding blood borne

pathogens and ways in which their members can remain safe when dealing with blood or other body fluids. Our talented instructors are well suited to help these organizations meet their needs. Several new courses were held and many more members of our community have received training in this important area.

The Macungie Ambulance Corps continues to inspect and maintain twenty-one Automated External Defibrillators (AED's) throughout our coverage area. These AED's are located in churches, municipal buildings, recreational buildings, and emergency

service buildings or vehicles. We wholly support Public Access Defibrillation (PAD) programs and community CPR training.

In addition to providing community training, the Macungie Ambulance Corps continues to be an Accredited State Continuing Education site. What does this mean? In short, the Macungie Ambulance Corps provides advanced training for police officers, firefighters, first responders, emergency medical technicians, and paramedics. Last year, the Macungie Ambulance Corps held 13 training courses

ranging from Emergency Vehicle Driving courses to Mass Casualty Incident training. Each of these classes award credits that are used by emergency service providers to meet various continuing education requirements.

In 2011 look for the Macungie Ambulance Corps to continue providing high quality community training. The Macungie Ambulance Corps will also continue to provide EMS units and presentations for community events. Contact our Division of Community Outreach and Education at (610) 966-2601 ext 115 for more information.



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