



Taylor Mill
fire and rescue
department

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**ANNUAL
REPORT**

FROM THE CHIEF

The following report outlines the Taylor Mill Fire and EMS Department's (TMFD) activities for the calendar year 2015. We take great pride in serving our community in this combination fire and EMS system comprised of career, part time and volunteer firefighters, and EMS only personnel

The City of Taylor Mill, provides it's citizens 24 hours a day, 365 days per year fire and rescue personnel.

This combination of equipment and personnel strives to provide the community with the highest level of professional public safety services that include fire protection, advanced emergency medical care, public education, and facility inspections/testing that is always focused on being fiscally responsible. We take great pride in presenting this year's annual report.



John Stager
Fire Chief

Department Services

- Emergency Medical Services
- Hazardous Materials Awareness
- Juvenile Fire Setter Intervention
- Child Safety Seat Installations
- Smoke Detector Installations
- Fire/EMS Coverage for Local Public Events
- Tactical Emergency Medical Instruction for the Police SWAT Team
- Participate in County Fire Training Center
- Fire Suppression
- Fire Investigations
- Public Education/CPR

Commitment to Our Customers

- Develop and execute a realistic, obtainable and sustainable long range strategic plan for the department.
- Provide the highest quality of service to the citizens and visitors
- Support and maintain a safe, healthy, well-trained workforce
- Be a community resource for life safety information and knowledge
- Attract and retain a qualified and diverse career, **par time and** volunteer work force
- Be accountable to our community for demonstrable results
- Be a recognized leader of a fire and rescue service that is dedicated to excellence
- Support the combination system of **paid staff** and **volunteer staff**
- Be innovative and proactive in our approach to community issues
- Believe in our role as stewards of public trust

Our Mission

To develop and deploy a coordinated service delivery mechanism through which the Community is provided public safety services in a professional and cost effective manner. The mission will comprehensively address Emergency Communications, Fire, EMS, and **Rescue** Operations involving career and volunteer personnel, while coordinating operational and support functions with internal and external agencies and individuals.

Our Leadership Philosophy

We believe that all members want to do the best work possible. When all of us share responsibility for creating a work environment with clear goals, mutual support and opportunities for continuous learning, we can achieve our goals. We realize our full potential through teamwork, respect for each other, sharing information and support for individual creativity and initiative. Teamwork, Common Goals and Leadership at all levels, will result in SUCCESS!

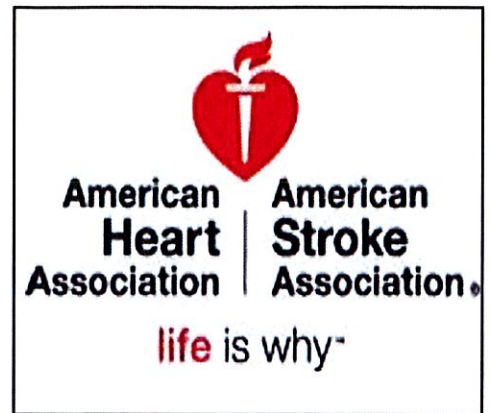
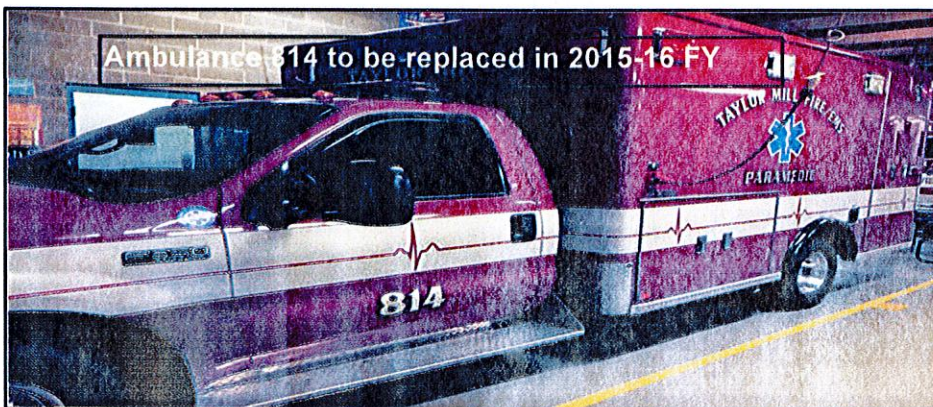
ONE DEPARTMENT. ONE GOAL.



Questions concerning this report or our services can be directed to our office at **859-581-6565**.

2015 Accomplishments

- Handled **763** calls for service - increase of from **725** incidents from 2014
- Saved over **\$183,000** in property from fire incidents - estimated fire loss of **\$82,000**
- Engaged over **512** citizens of all ages with our public education programs
- Completed **12** child safety seat installations
- Installed **11** smoke detectors and replaced numerous batteries in existing detectors
- Participated in over **4014** hours of continuing education training
- Hired **two (2)** career personnel, **one (1)** part time Firefighter/Paramedic and **four (4)** volunteers
- Participated in the **2015 MLB All Star City Program**
- Participated in the Annual **Homecoming** parade and **Light Up Taylor Mill Holiday Event** with department personnel and families
- Continued support and attendance at the **Kenton County Fire Academy** and the **Kenton County Fire Officer Symposium**
- **Supported the American Heart Association, The Hoxworth Blood Bank, Autism Awareness Foundation, Alzheimers Foundation and Susan G. Komen for a cure.**
- **Promoted Breast Cancer Awareness** in conjunction with **Kenton County** and provided staff members with cancer awareness t-shirts for the month of **October**.
- **Provided 16 CPR Classes to the Community, Schools and Businesses**
- **Attended Command and Leadership Classes and Conferences**
- **Begun the strategic planning process for the procurement of a new ALS Ambulance**
- **Implemented training and placed into service 22 new G1 MSA SCBA's**
- Submitted an application to the Assistance to Firefighters (AFG) Grant for the **replacement of 30 expired pieces of Personal Protective Equipment (PPE) and the replacement of a 26 year old Fire Engine**
- **Initiated the replacement of rubber fire hose to light weight/high combat synthetic fire hose on all fire engines via state aid funding**
- Completed **Kenton County FireRecruit Drill School Program**
 - **4 Volunteers successfully completed the course**

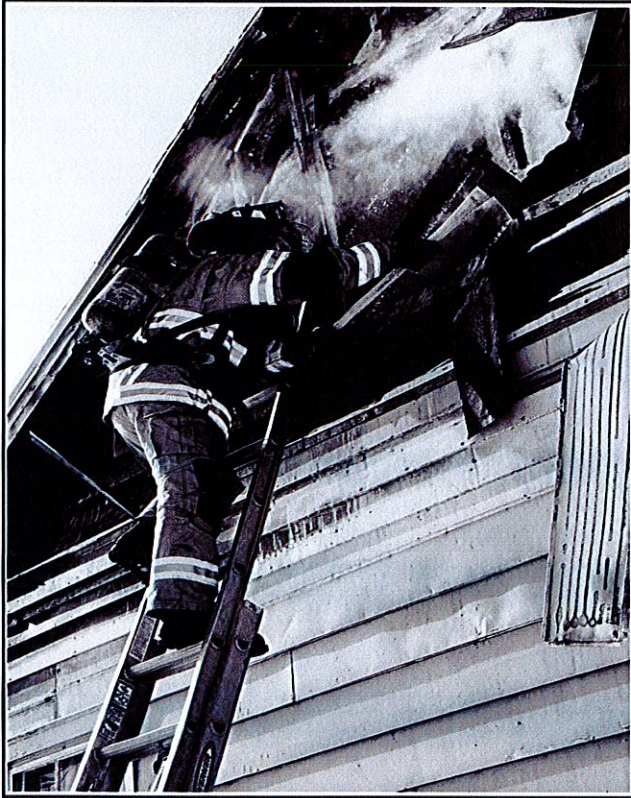


2015 Goals

- Develop and execute long range strategic plan for the department.
- Increase staffing levels to move toward compliance with the NFPA 1710 consensus standard
- Increase recruitment and retention efforts for all staff levels
- Conduct a facilities study
- Ensure the health and safety of our career and volunteer personnel
- Participate in the P25 radio communication County project
- Complete a fire and rescue training master plan
 - Implement an officer development program
 - Develop volunteer operational criteria
 - Advance the fire department ISO program
 - Risk analysis planning to meet NFPA 1500 Health & Safety
 - Career Class A Uniform Program
 - Develop in-house Health Wellness program in partnership with the City Administration



Emergency Activity

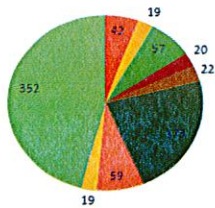


Activity	Total
Total Incidents	763 (352 EMS Only, 411 Fire/Combined)
Mutual Aid Given	14
Mutal Aid Received	22 EMS & Fire Combined
Dollar Loss vs Saved	\$82,000 Lost \$183,000 Saved
Incident Casualties/Injuries	1 Firefighter Injury (During House Fire) 0 Civilian Casualties/Injuries



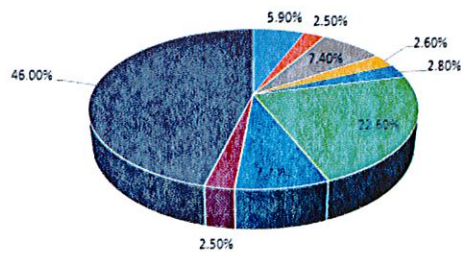
Incident Type Summary

Incidents: EMS & Fire 763 for 2015

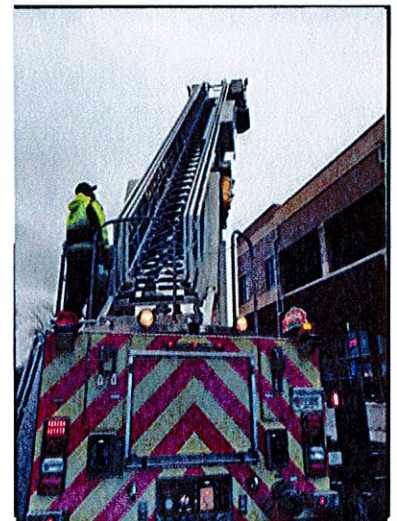


- False Alarm (42)
- Good Intent (57)
- Over pressure/Rupture/Burst (22)
- Service Call (59)
- EMS Only Rund (352)
- Fire (19)
- Hazardous Conditions: No Fire (20)
- EMS Assistance (173)
- Weather Related Issues (19)

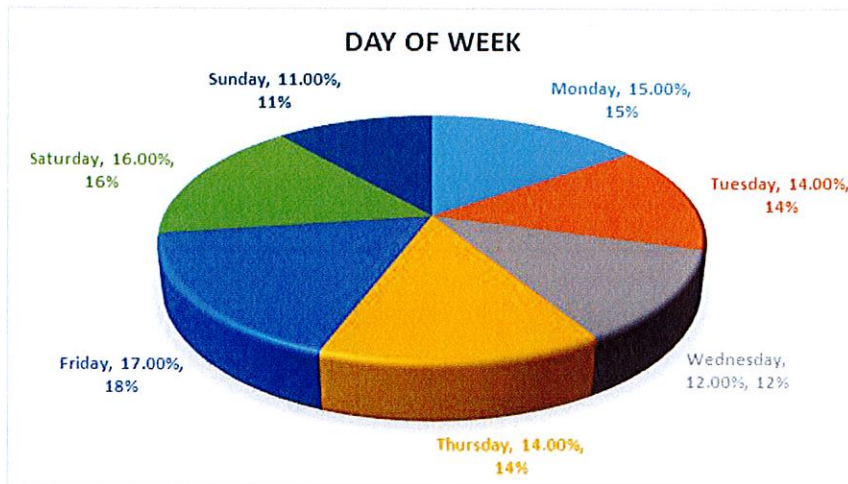
Incident Percentages 2015



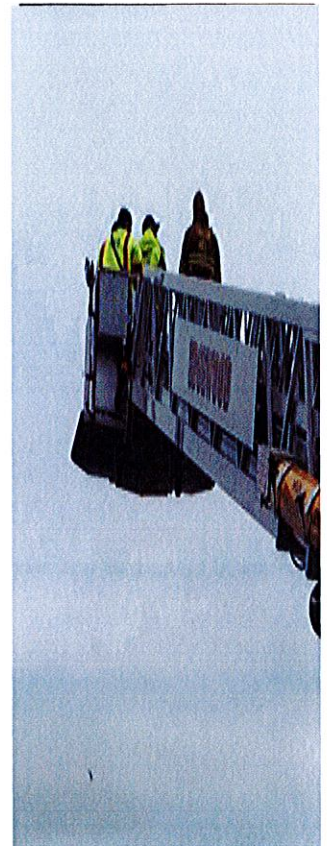
- False Alarms
- Fires
- Good Intent
- Hazardous Conditions: No Fires
- Over pressure/Ruptures/Breaks
- EMS Assists
- Service Calls
- Weather Issues
- EMS Only Runs



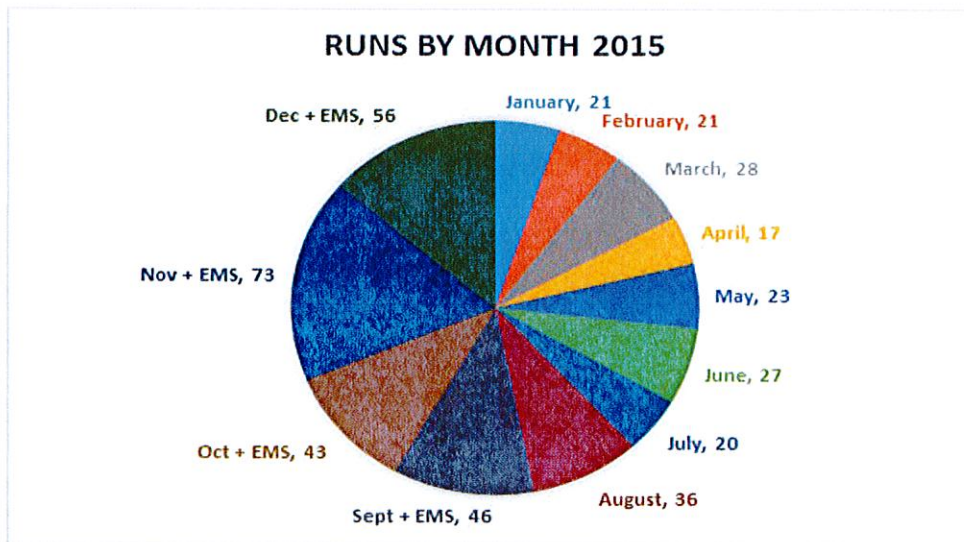
Incidents: Day of Week Percentage



The busiest day of the week for the Fire Department falls on Friday, followed by Saturday and Monday. The least calls for service falls on Sunday.



Incidents by Month

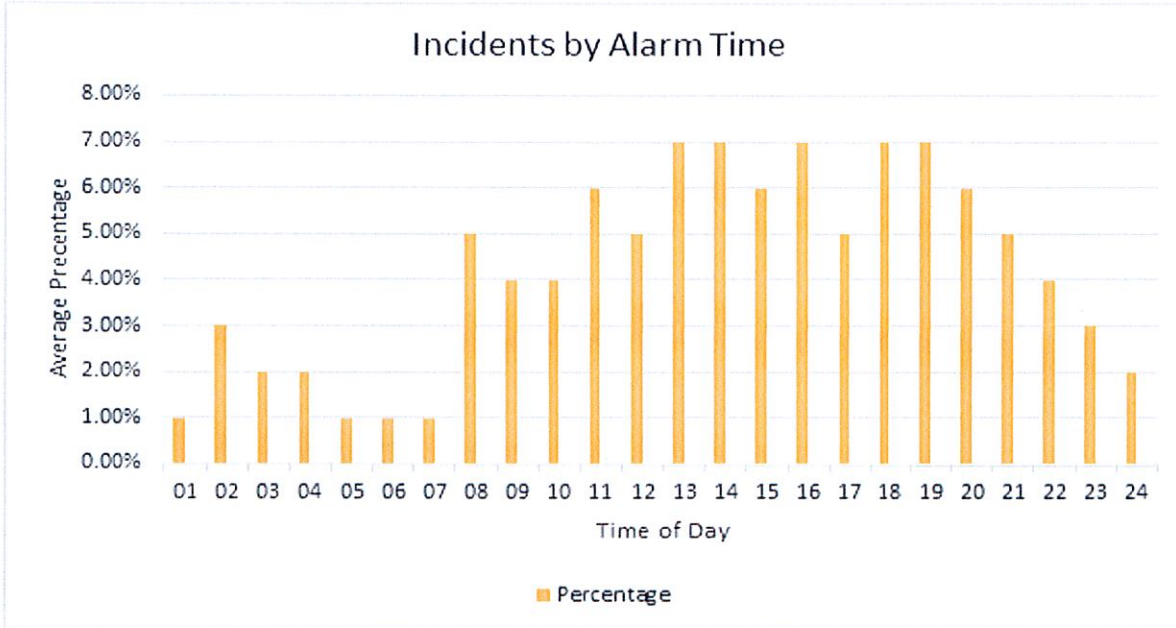


In September of 2015 the department added CAD Monitoring to its Fire House Reporting software. CAD Monitoring allows the department to track and export ALL data, Fire and EMS to the National Fire Incident Reporting System a component of the National Fire Academy. This information is a useful tool in tracking trends, responses and assist with acquisition of Assistant to Firefighter Grants.

Emergency Activity continued

Incidents by Alarm Time

The majority of the Fire Department calls for service falls between 1pm and 7pm. This is an indication of more movement/activity within the city.



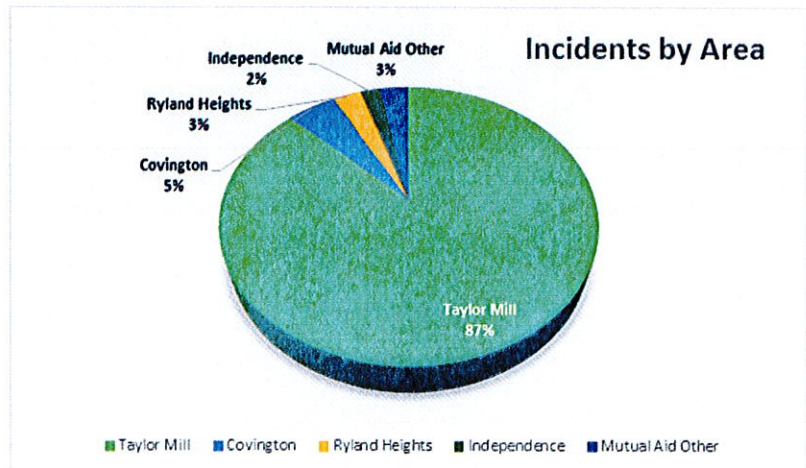
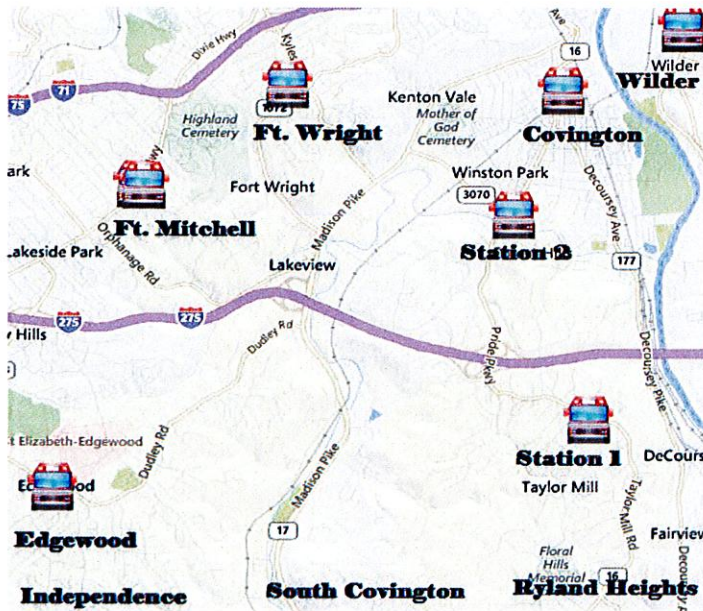
Taylor Mill Response Districts

Fire Districts districts are geographic response designations designed to provide the most direct and expedient fire and rescue response to an emergency incident. Depicted below is the City of Taylor Mill. The City of Taylor Mill is listed as having two (2) Response Districts. Although the city operates out of one firestation the City has two fire stations at its disposal. The Head Quarters Station 1 is located in the rear of the City Building at 5231 Taylor Mill Road and the Volunteer (unmanned) Station 2 is located at 4700 Winston Avenue. Taylor Mill has also signed the County Mutual Aid Agreement and utilizes our neighboring cities.

Taylor Mill Mutual Aid Partners

Ft. Wright Covington Co. 8 Covington Co. 5 Wilder Ft. Mitchell Edgewood
 Ryland Heights Independence

Taylor Mill Response Area and Mutual Aid Partners



In 2015, department members responded to **352** EMS related incidents or **46%** of the total call volume experienced for the year. Of these **352** incidents patients were treated and transported to various Hospitals to receive further medical treatment. This resulted in **70** needing Basic Life Support services and **256** needing Advanced Life Support services.

The department prides itself on being a leader in the advancement of EMS care. In **October 2015**, the department along with the Airport Fire Department became **BETA Testers** for the new **ADPI/Intermedix** web base Patient care reporting System. This system uses web base programming and gives the care provider access to **PCR reporting** on any secure wifi base internet site and no longer needs huge amounts of data storage as previous PCR programs required. It will officially roll out within the next several months. Intermedix provides and services all computers/laptops in this program.

BLS is provided by personnel certified at the Emergency Medical Technician (EMT) level or higher. These personnel are trained to perform pre-hospital treatment procedures that may sustain life for victims of various medical and traumatic emergencies including cardiopulmonary arrest, diabetic emergencies, falls, lacerations, motor vehicle collisions and strokes. **11 of our Volunteer core members are certified EMT's and are utilized for special events where EMS is needed and currently are running Volunteer shifts to help supplement our paid staff. The new incoming volunteers will be encouraged to pursue the EMT certification as well as FF1 certification.**

We want our citizens to know that no one will ever be denied service because of inability to pay or for lack of health insurance. Our commitment is to provide the best EMS care possible. We are proud and honored to serve you!

ALS is a set of life-saving protocols and skills that extend BLS to further support circulation and provide an open airway and adequate ventilation (breathing). ALS personnel are trained and certified to perform skills such as intravenous cannulation, manual cardiac defibrillation, 12-lead EKG interpretation and medication administration. **All of our paid staff are required to be Paramedic certified. We currently have 1 volunteer certified as paramedic and 1 in paramedic school.**

A vital component of the department's EMS division is the **EMS Billing Program**. The **EMS Billing** went into effect **January 1, 2010**. This last fiscal year the program generated more than **\$117,000** dollars in revenue for the city that offsets cost associated with fire and rescue service.

Our **Billing** is based on concern for the medical and financial health of our city residents. We have designed the program to minimize the out-of-pocket costs for city residents. During fiscal year 2015 less than eight percent of the revenue generated comes from patient payment.

	Charges	Payments	Adjustments	Write Offs	Refunds	Carryover	Transports	Encounters
JANUARY	32502.00	11369.07	13704.81	0	0	121.58	29	38
FEBRUARY	31790.00	16527.18	16794.58	827.00	0	704.76	35	46
MARCH	32008.00	15008.02	14285.20	8128.01	0	5413.23	36	42
APRIL	37919.00	6416.13	10514.84	13598.99	0	7389.04	34	48
MAY	30081.00	11512.76	17765.77	142.83	0	945.30	32	46
JUNE	17800.00	7931.48	14518.92	0	0	4650.40	21	28
JULY	23459.00	8247.11	10786.36	0	0	4425.53	27	35
AUGUST	23908.00	9527.42	11233.09	6575.54	0	3428.05	25	38
SEPTEMBER	29785.00	7880.98	13280.46	898.00	0	7725.56	31	48
OCTOBER	121980.00	5435.07	8984.02	968.00	0	6592.91	27	34
NOVEMBER	15422.00	10887.22	14755.97	0	0	10221.19	24	38
DECEMBER	26960.00	6319.60	9028.98	0.00	0	11611.42	25	34
TOTAL	\$426,344.00	\$117,062.04	\$164,637.02	\$31,138.37	0	53007.78	346	475

Uninsured residents are treated with compassion and provided with options to ensure financial hardship is avoided. A total of **\$31,138.37** was written off as financial hardship in fiscal year 2015. There is no charge for emergency medical treatment if the patient is not transported.

Staffing and ISO

Taylor Mill Fire/EMS currently has **four (4)** personnel assigned to each of the three 24 hour rotating shifts to help supplement the volunteer staffing. The department maintains a minimum of **two (2)** personnel working each day. NFPA 1710 is a standard that sets minimum criteria for the effective and efficient emergency operations to protect the safety of the public and fire department employees.

The Taylor Mill Fire/EMS Department was evaluated by the Insurance Services Office, Inc. (ISO) in 2014 for to meet the new Public Protection Class (PPC) rating system. "ISO collects and evaluates information from communities in the United States on their structure fire suppression capabilities. The data is analyzed using our Fire Suppression Rating Schedule (FSRS™) and then a Public Protection Classification (PPC™) number is assigned to the community."



The City of Taylor Mill earned a revised PPC rating of class **03/3x** from this re-evaluation. "Class 1 represents an exemplary fire suppression program, and class 10 indicates that the areas fire suppression program does not meet ISO's minimum criteria." Our PPC rating of class **03/3x** places us in the top 15% of fire departments nationwide and in the top 8% in the Commonwealth of **Kentucky**. Geographically ISO recommends that the City of Taylor Mill maintain **two** engines and one aerial device (**mutual aid is considered**) in service each day. In addition, to maintain our Emergency Medical Services needs on a daily basis we must also maintain **one** Advanced Life Support ambulances in service. The following chart depicts the personnel/apparatus recommended by NFPA and ISO compared to our current situation.

NFPA 1710 Recommendation	ISO Recommended Apparatus	Current TMFD Minimum
4 personnel on each engine	2 Engines- 4 personnel	3 Engines-4 personnel on duty
4 personnel on each truck	1 Truck – 4 personnel	0 Truck-0 personnel
2 ALS personnel on each medic unit	-	2 Medic Units-2 ALS/BLS personnel
2 Command Officers	Command Officer - 1	Command Officer – 1
Total 24	Total 9	Total 7

NOTE: 1 Engine could have 2 personnel



Cost of a Firefighter

The first year of employment is the most critical in developing a firefighter for a long career in the emergency services field. Personnel selection is based on many factors but the number one goal is to employ the best possible person that can provide the service expected from our citizens.

The chart on the right is a comprehensive list of first year expenditures that are endured by the city to bring a new firefighter on board. New personnel are required to train for a minimum of six months before being considered operational and counted towards our minimum daily staffing level.



This cost analysis does not include the additional man hours that are needed by existing department personnel to ensure these individuals are trained to meet the both the Department's and industry's standards.



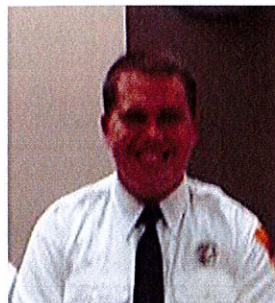
New Firefighter Cost Analysis

Item	#	Cost/Item	Total
Starting Salary			\$40,000
Benefits: Health/Hazard			\$13,800
Holiday Pay	11	8 hours	\$1538.40
Background Investigation			\$0.00
Polygraph: NA			\$0.00
Physical Evaluation: CPAT			\$125.00
Physical			\$365.00
Training Manual			\$30.00
Firefighter Handbook			\$75.00
Department IDs	3	\$1.00	\$3.00
Accountability Tags	6	\$0.50	\$3.00
Street Map: Provided			\$0.00
Bunker Jacket			\$1,280.00
Bunker Pants/Suspenders			\$1,104.00
Fire Boots			\$400.00
Gloves			\$90.00
Hood			\$32.00
Helmet			\$225.00
Helmet Shield			\$39.00
Gear Bag			\$0.00
MSA G1 Mask			\$223.00
40mm Adapter: NA			\$0.00
Cartridge: NA			\$0.00
Coveralls: NA			\$0.00
Safety Glasses			\$55.00
Ear Plugs			\$1.24
Bail-out System: NA			\$0.00
Station Uniforms	3/3	\$53.00	\$325.00
T-Shirts	5	\$7.00	\$35.00
Work Boots			\$150.00
Beanie Hat			\$12.00
Baseball Hat			\$10.00
Rain Jacket: NA			\$0.00
3 Season Jacket			\$220.00
Job Sweatshirt			\$56.00
PT Shorts			\$18.00
PT Pants			\$23.60
Running Shoes: NA			\$0.00
Shirt Badge	1	\$80.00	\$80.00
Patches: Supplied			\$0.00
Class A Uniform			\$400.00
Written Test: NA			\$0.00
PAT Test: NA			\$0.00
Locker: Provided			\$0.00
TOTAL COST			\$60,718.24

Employee Spotlight

Awards & Recognitions

Name	Rank	Date
New Hires:		
Christina Youngblood	Vol. Firefighter/EMT	01/05/15
Rick Gabbard	FT Firefighter/Paramedic	02/23/15
Mollie Schaper	Vol. Firefighter 20 hour/EMT	06/08/15
Adam Hinkel	FT Firefighter/Paramedic	12/07/15
John Clayton	PT Firefighter/Paramedic	12/07/15
Karen Rohrkemper	Vol. EMT-B	12/14/15
Operational Clearance:		
Tyler Runge	Probationary EMT/Firefighter	1/6/14
Scott Matthews	Probationary EMT/Firefighter	6/3/14
Jeremy Greenbacker	Probationary EMT/Firefighter	6/21/14
Matthew Morris	Probationary EMT/Firefighter	9/11/14
Caleb Sherwood	Probationary EMT/Firefighter	10/9/14
Advancement to EMT/Firefighter:		
Advancement to Fire Apparatus Operator:		
Promotion to Lieutenant:		
Promotion to Captain:		
Retirements:		
Tom Foster	Chief Engineer	01/2015
Separations:		
Rick Gabbard	FT Paramedic/Firefighter	12/2015
Trent Hanson	PT Firefighter/Paramedic	05/2015
Kyle Bittner	PT Firefighter/Paramedic	03/2015
Deaths:		



Tyler Runge

Academy Graduate

Winter 2015



Chris James

Academy Graduate

Winter 2015



Luis Rodriguez

Academy Graduate

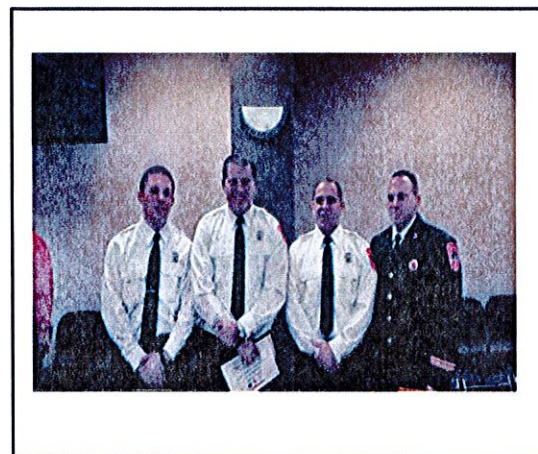
Winter 2015

Christina Youngblood

Academy Graduate

Spring 2015

No Picture submitted



*Chad Huth (Captain) with newly graduated Taylor Mill Fire Recruits:
(L-R) Chris James, Tyler Runge, and Luis Rodriguez*

Health and Safety

Health and Safety

The Health and Safety of the department was created to provide assistance in addressing risk as it pertains to the first responders, the department, the city and its citizens. As the safety of the public is inherently a dangerous job to protect the welfare of the community, the fire industry as a whole have taken great measures to help reduce this risk by developing programs that address the various issues that we face day to day.

In the **Taylor Mill** community we are not immune to this risk and preparing our first responders is of high importance to risk reduction. As with the military our industry has seen an increase in suicide and post-traumatic stress disorder (PTSD). We have addressed this issue head-on by hosting awareness classes on firefighter stress first aid. The eight-hour course led by the National Fallen Firefighters Foundation provides vital recognition methodologies for peer behavior and the ability to render aid.

In addition, it is a proven fact that people in our profession are more susceptible to injuries and/or death. This past year we suffered one (1) firefighter injury that **was** non-life threatening. Other health and safety programs instituted in 2014 were the addition of firefighter self-rescue equipment and training, addition of DOT approved traffic safety vests, infectious control awareness training, communicable disease training, breathing air management training, and apparatus driver training updates to name a few.

2016 Goals for Health and Safety:

- 100% fit testing for all staff (NFPA 1404)
- Reduce injury/illness to **Taylor Mill** Fire and EMS personnel
- Review policy and procedures to confirm compliance with today's trends

CREED: We “all go home” after each shift

Training

Training of public safety personnel remains a huge challenge to ensure proficiency. The ever changing threat to our community from natural and manmade disasters is our charge in the understanding of providing a safe place to live for our citizens and visitors.

In 2015, the department logged over 4100 hours of continuing education for our personnel. With the inclusion of four (4) new Volunteer EMT/Firefighters, the staff focuses their training efforts to assist them to become operational. In addition, existing staff must engage in continuing education as well to stay proficient.

Every one of our first responders will soon be required to be certified as a Firefighter I or EMT, Emergency Vehicle Operations Qualified, and Hazmat Awareness prior to responding to emergency incidents. Many of our providers are certified at levels that are above the minimum qualifications which adds to the level of service provided to the community. The following provides a glimpse of our goals and the training requirements that are set as a department.

2016 Goals for Training Division:

- High Risk, Low Frequency training in all aspects of firefighter survival
- Complete all skills proficiency training for EMS/Fire
- Meet all requirements for driver operator training to facilitate safety for our personnel and citizens
- Continue to provide training that is beneficial to the department and citizens who we provide our services
- Increase training opportunities for both department personnel and the public

Training Requirements

Type	Requirement	
Kentucky KBEMS Recertification		
EMT-B	48 hours	Every 2 years
EMT-I: No Longer In-service		
EMT-P	48 hours	Every 2 years
CPR Certification	3 hours	Every 2 years
National Registry EMS Certifications		
EMT-P:	48 hours	Every 2 years
EMT-I: No Longer In-Service		
ACLS & PALs	16 hours	Every 2 years
Taylor Mill Fire & EMS Department Certifications		
Volunteer Training	20+ hours	YEARLY
Career Training	100+ hours	YEARLY
Child Safety Seat Installer Certification		
Installers	8 hours*	Every 2 years

* Plus seat installs in front of an instructor



Northern Kentucky Fire Academy

We are in a partnership with the regional County Fire and Rescue to instruct a fire academy and an EMS academy each year. Volunteers must spend more than 600 hours to become certified firefighters/EMT's.

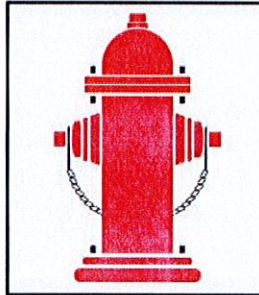
EMS Training

In the past year our providers have recertified in Advanced Cardiac Life Support (ACLS) and PALs. Both courses are requirements of our department to be an ALS provider in our system. With the requirements set forth by the state and our regional council, we must attend refresher courses and skill's evaluation. This is another check and balance to make sure our care is up to the national standard. We strive as a department to give the best care possible.

Fire Training

The department spent numerous hours on fire related training to include:

- hose deployments
- search and rescue techniques
- fire attack
- firefighter down
- vehicle extrication
- pump operations
- aerial operations



The training division and life safety division work together; in order to gain access and do walk-throughs of buildings under construction for increased firefighter knowledge in the event of an emergency. It is documented through many historical fires that building construction/building codes have been contributing factors in fires where there has been a large loss of civilian life. We **require that our staff members do walk throughs of our businesses and new construction every quarter during preplan training to be familiar with our construction and occupancies**

