

2016

Taylor Mill Fire & EMS Annual Report



John Stager
Fire Chief
2/29/2016

FROM THE CHIEF

The following report outlines the Taylor Mill Fire & EMS Department (TMFD) activities for the calendar year 2016. We take great pride in serving our community in this combination fire and EMS department. Our department is comprised of career, part time and volunteer firefighters, EMT's, and hazardous material responders.

The City of Taylor Mill provides its citizens 24 hour a day, 365 days per year fire and EMS personnel.

The combination of equipment and personnel strive to provide the community with the highest level of professional public safety services that include fire protection, advance life support, public education and fire safety inspections. We focused on being fiscally responsible and take great pride in presenting this year's report.



John Stager

Fire & EMS Chief

ONE DEPARTMENT, ONE GOAL

DEPARTMENT SERVICES

Emergency Medical Services: ALS/BLS

Juvenile Fire Setter Education and Mitigation

Child Safety Seat Inspection

Smoke/Co Detector Inspection & Installation

Fire/EMS Coverage for local events

Medical Operations and Training for Regional SWAT Team

Member Kenton County Fire Chief and Training Association

Fire Suppression & Fire Investigations

Public Education

Commitment to our Citizens

Develop and execute a reasonable and sustainable strategic plan for the department

Provide the highest quality of service to our citizens and visitors

Support and maintain a safe, healthy, well trained workforce

Be a resource for life safety information and knowledge

Attract and retain qualified and diverse career workforce members

Be innovated and proactive in our approach to community issues

Believe in our roles as stewards for the Citizens of Taylor Mill

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 Hazardous Material Operations involving all members of the department, while coordinating operational and support functions with internal and external agencies and individuals

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, 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!

2016 ACCOMPLISHMENTS

- Handled 810 Calls for service (increase of 5.97% from 2015's 763 service calls)
- Over \$200,000 in property saved from fire incidents (Skyline, Jefferson Place)
- Estimated \$142,000 in property loss due to fire loss.
- Inspected 10 child safety car seats
- Installed 15 smoke detectors and replaced numerous smoke detector batteries – New Red Cross Initiative Residential Program Member
- Participated in over 4200 hours of continuing education training
- Hired 2 Career Firefighter/Paramedics, 3 Part-time Firefighter Paramedics and 3 Volunteers
- Promoted 2 members to the rank of Lieutenant
- Participated in the Vietnam Moving Wall Memorial (75 hours of coverage)
- Participated in the City of Taylor Mill's Easter Egg Hunter, Light up Taylor Mill Christmas Event, Tasty Tuesday, Taste of Taylor Mill and the Scott High School Home Coming Parade.
- Continued support to the Kenton County Firefighter's Association, Fire Chief's Association, and the Regional Fire School
- Supported Hoxworth Blood Bank, American Heart Association, Autism Awareness, Alzheimer's Foundation and Breast Cancer Awareness
- Provided CPR to 40 Woodland Middle School students as well as educating over 55 individuals in CPR throughout the year.
- Attended Command and Leadership classes
- Attended Fire Investigation and Detection Classes
- Finalized the new ALS Ambulance process for procurement in 2017
- Continued to train on the new G1 SCBA air packs.
- Submitted applications to Assistance to Firefighters Grants (AFG) for replacement of 30 non-compliant (expired) pieces of PPE (coats, pants, helmets and boots) and the replacement of two (2) Fire Engines over 25 years old.
- Replaced 6 sets of Firefighter Protective Gear, Progress on Department's replacement PPE Program and Budget
- Remodeled Firefighter's Office with donated office equipment, Remodeled Sleeping Quarters to a more efficient and supportable room, replaced carpet and painted Day Room and re-engineered EMS Room with proper cabinets and storage.
- New carpet installed upstairs in the firehouse
- Replaced four (4) department computers.
- Completed the City's Fitness Bay

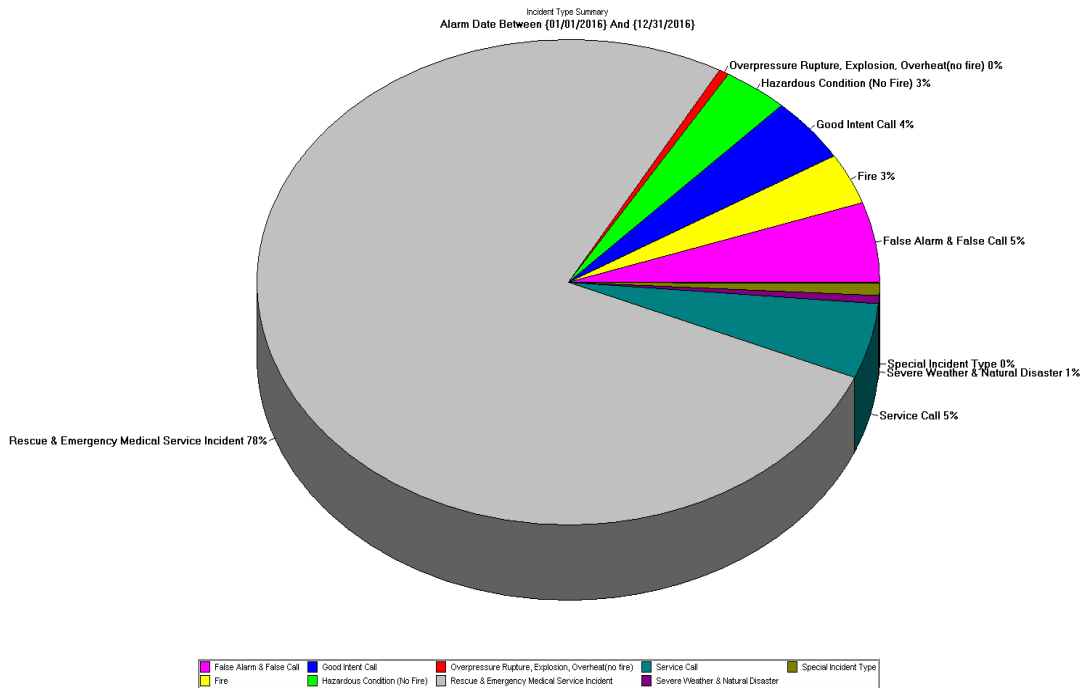
2017 Goals

- ❖ Implement a Staffing Retention Program for all levels of service in maintaining NFPA 1710 Guidelines and ISO Standards
 - Pay Evaluation
 - Longevity
 - Tuition Reimbursement Program
 - Vacation Evaluation
 - Internship
 - Addition of Career Personnel
 - Other Concepts
- ❖ Place into service new power load and cot system
- ❖ Prepare for procurement of new ALS Ambulance
- ❖ Continue to support P25 Radio System
- ❖ Maintain an Officer and Firefighter Development Plan through continuing education
- ❖ Continue to support the Health and Safety of all staff members
- ❖ Continue to evaluate and support the City's ISO Rating and ways to improve
- ❖ Continue on PPE Replacement Program and replace an additional 6 sets of PPE
- ❖ Conduct evaluation on new Rescue Tools
 - Extrication Tools
 - Extrication Jacks
 - Old tools to be moved to backup engine
- ❖ Conduct a Station Evaluation
 - Station block wall cracking and protruding out, all 3 sides
 - Numerous Roof Leaks (Living Quarters and Bays)
 - Inefficient HVAC Systems
 - Operating at 63% efficiency at last maintenance inspection
 - Bay heaters over 25 years' old
 - Replace front entrance
 - Concrete sinking and cracking
 - Front door will not lock due to displacement of door due to twisting of building
 - Kitchen
 - Replace Cabinets
 - No storage
 - Replace Appliances
 - Stove and Dishwasher are all donated
 - Refrigerator undersize for personnel
 - Bunk Room
 - Add separation partitions for privacy
 - Re-evaluate bunk room lighting
 - Purchase 6 more lockers
 - Plan for the replacement of two beds over ten (10) years old
 - Training Room
 - Paint and Re-carpet
 - Fix exit door
 - Replace computer
 - Shower Room
 - Remodel original shower room
 - Add better ventilation

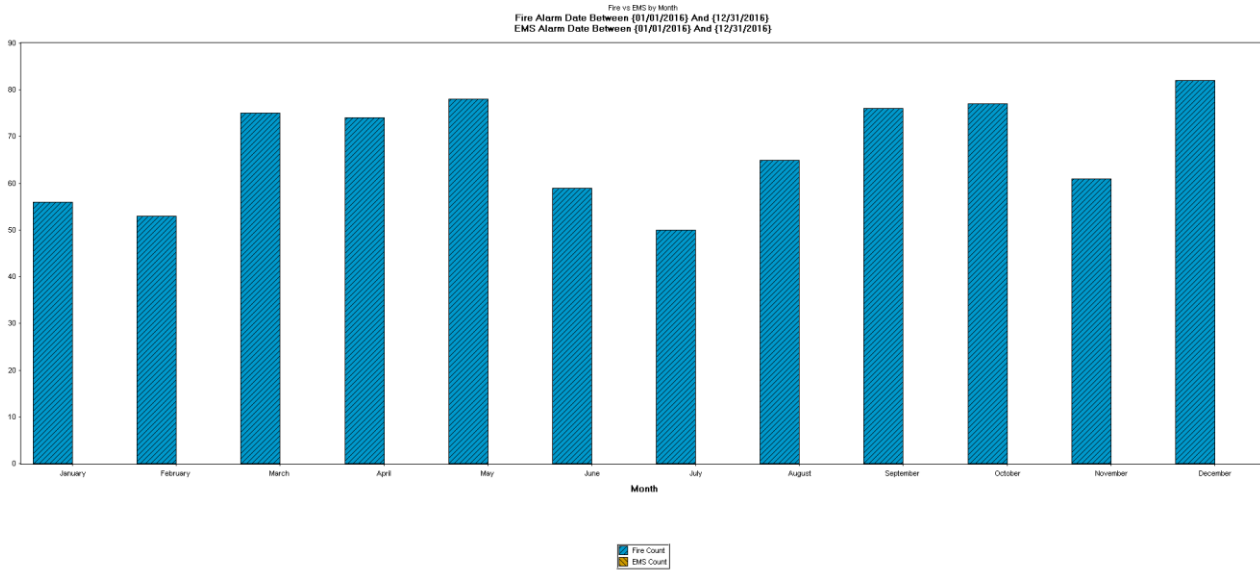
EMERGENCY ACTIVITY



ACTIVITY	2015	2016
Total Incidents	763	810
Mutual Aid Given	34	64
Mutual-Aid Received	22	40
Dollars Loss	82,000	210,000
Dollars Saved	183,000	142,000
Incident Casualties	1 Firefighter	0 Firefighter
	0 Civilians	0 Civilians

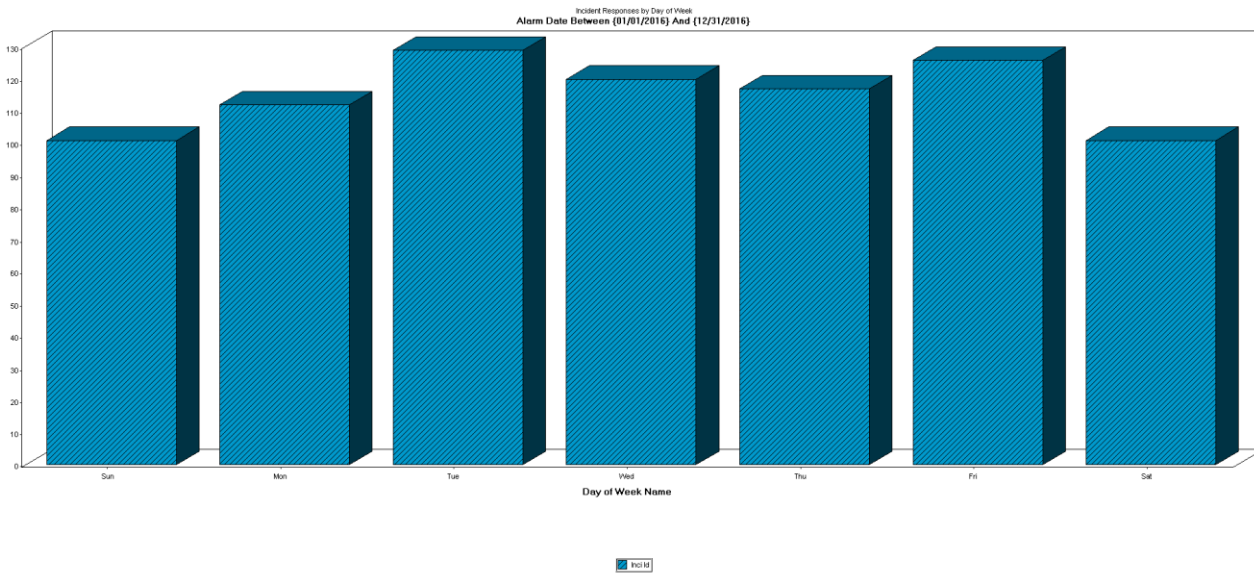


Incidents by Month



January 56	February 55	March 75	April 74	May 78	June 59
July 50	August 65	September 76	October 79	November 61	December 81

Incidents by Day of Week

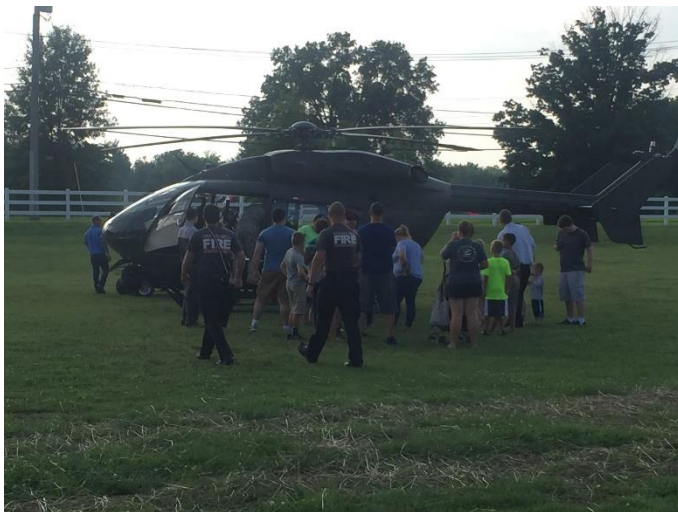


Monday 112	Tuesday 129	Wednesday 120	Thursday 117	Friday 126	Saturday 104	Sunday 102
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EMS Activity 2016

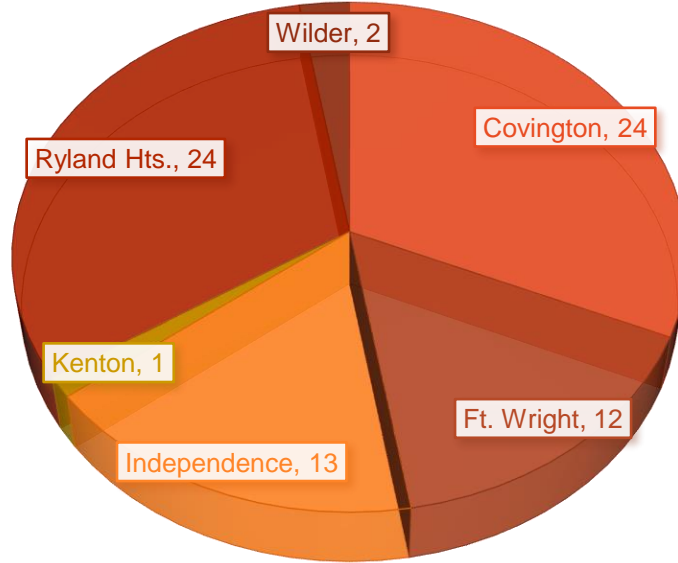
PATIENT DISPOSITION BY MONTH													
Disposition	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
Encounters	47	43	56	50	65	41	36	51	60	62	44	62	617
Transports	35	27	42	36	43	25	19	28	43	41	26	41	406
	74%	62%	75%	72%	66%	60%	52%	54%	71%	66%	59%	66%	65%
Aeromedical	0	0	0	0	0	0	0	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Dead On Scene	0	0	1	1	0	0	1	1	0	1	2	2	9
	0%	0%	1%	2%	0%	0%	2%	1%	0%	1%	4%	3%	1%
Unfounded	3	3	4	1	3	5	4	3	1	3	2	3	35
	6%	6%	7%	2%	4%	12%	11%	5%	1%	4%	4%	4%	5%
Refusals	8	10	4	4	13	9	9	13	12	12	12	13	119
	17%	23%	7%	8%	20%	21%	25%	25%	20%	19%	27%	20%	19%

CALLS BY TIME OF DAY													
Time	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
0600-1159	10	14	19	12	13	8	10	16	13	12	13	15	155
	21%	32%	33%	24%	20%	19%	27%	31%	21%	19%	29%	24%	25%
1200-1759	17	12	21	18	31	15	12	16	25	26	17	18	228
	36%	27%	37%	36%	47%	36%	33%	31%	41%	41%	38%	29%	36%
1800-2359	16	15	11	13	14	12	9	16	13	13	7	17	156
	34%	34%	19%	26%	21%	29%	25%	31%	21%	20%	15%	27%	25%
0000-0559	4	2	5	7	7	6	5	3	9	11	7	12	78
	8%	4%	8%	14%	10%	14%	13%	5%	15%	17%	15%	19%	12%

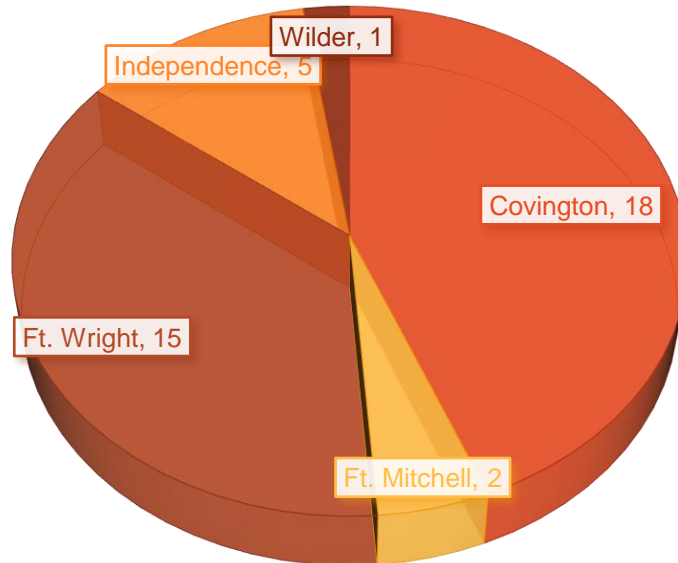


Mutual Aid Responses

MUTUAL AID GIVEN



MUTUAL AID RECIEVED



Department Funding FY2016

Funding Source	Description	Amount Received
General Fund Fire Dept.	FY2016 approved funding provided by city revenues for the support and operation of the Fire Department	\$1,411,772.59
KLEPF – State Hazard Duty Incentive Pay – Full Time Employees	FY2016 State supported Hazard Duty Employment supplement pay	\$35,000
State Fire Commission	Funding from State Fire Commission for maintaining adequate staff training hours 100/20 hours	\$8,250
TOTAL		\$1,454,972.59

Staffing

The Taylor Mill Fire/EMS Department has been allotted four (4) personnel to work the allotted 24/7/365 daily shift schedule. The Department maintains a minimum of two (2) personnel working each day. NFPA 1710 is a National 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. in 2014. ISO collects and evaluates information from communities in the United States on their structure fire suppression capabilities. The data is analyzed using their Fire Suppression Rating Schedules (FSRS) and then a Public Protection Classification (PPC) number is assigned to the community. This PPC classification is then available for insurance underwriters to assist in setting insurance premiums to customers.

The City 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 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 (one may be a reserve) and an aerial device (mutual aid is considered, but the city will need their own aerial device with projected growth) in-service each day. In addition, to maintain our Emergency Medical Services needs daily

we must maintain one Advanced Life Support ambulance in-service daily. The following chart depicts the personnel/apparatus recommended by NFPA and ISO compared to our current situation.

NFPA 1710 RECOMMENDATIONS	ISO APPARATUS RECOMMENDATIONS	CURRENT TMFD OPERATIONS
4 Personnel on Engine	2 Engines = 3-4 staff members per Engine	824: 2-4 Based on Staffing that day 802: No Personnel
4 Personnel on Aerial Truck	1 Aerial = 4 staff members	Mutual Aid Aerial
2 Personnel on ALS Unit	2 Personnel on ALS Unit	2 Personnel on ALS
2 Command Personnel	2 Command Personnel	1 TMFD Command 1 Mutual Aid Command
Taylor Mill is below standards. NFPA & ISO recommends that we staff 5 to maintain correct operational and NFPA 1710 levels		



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 to the right is a comprehensive list of the first-year expenditures that are endured by the City to bring a new Firefighter onboard. New personnel are required to train and be mentored for atleast six months before they will be considered cleared for individual operational status.

This cost analysis does not include the additional man hours spent by the department personnel to ensure new firefighters are trained to meet both department and industry standards.

New Firefighter Cost Analysis			
Items	#	Cost	Total
Salary (Current as of 03/2017)			43,793.33
Benefits			11,957.44
Holiday Pay	11	8 hours	\$1538.40
Background Investigation			100.00
CPAT Requirement			150.00
Physical/Drug Screen			423.00
IFSAC Training Manual			80.00
Firefighter Essentials			100.00
Yearly Training Requirements			1200.00
Department ID Plates	6	4.00	24.00
Accountability Tags	4	1.00	4.00
PPE Jacket	1		1412.00
PPE Pants	1		935.00
Suspenders	1		59.00
PPE Leather Boots	1		400.00
PPE Gloves	1		55.00
Fire Helmet	1		275.00
Helmet Shield	1		65.00
Gear Bag	1		55.39
MSA G1	1		225.00
Safety Glasses	1		60.00
Ear Protection	3	2.00	6.00
Station Uniforms	3yr		325.00
Station Boots	1yr		250.00
Department Badge			85.00
Winter Hat	1yr		12.00
Baseball Hat	1yr		10.00
Hi-Vis Rain Jacket			225.00
Job Shirt	1yr		60.00
PT Shorts			18.00
PT Shirt			20.00
Class A Uniform: 1 Year of Service	1		450.00
TOTAL COST			64,552.56



EMPLOYEE SPOTLIGHT

PROMOTIONS			
Name	Position	Promotion	Bureau
Tom Bishop	Firefighter/Paramedic	Lieutenant	EMS
Bryan Harrison	Firefighter/Paramedic	Lieutenant	Training

NEW MEMBERS 2016			
NAME	Level	Position	DATE
Jay Feldkamp	Career	Firefighter/Paramedic	April 2016
Matthew Hicks	Career	Firefighter/Paramedic	April 2016
Jason Ellis	Part Time	Firefighter/Paramedic	April 2016
Tracey Saylor	Volunteer	EMT	August 2016
Whitney Craig	Part Time	Firefighter/Paramedic	November 2016
Rick Arens	Part Time	Firefighter/Paramedic	November 2016
Brandi Trenkamp	Volunteer	EMT	October 2016

MEMBERS WHO HAVE MOVED ON			
Name	Level	Position	Date
Nick Rainey	Volunteer	Firefighter/Paramedic	February 2016
April Coffee	Volunteer	Firefighter	February 2016
Rodney McKibben	Part Time	Firefighter/Paramedic	July 2016
Joe Rieskamp	Part Time	Firefighter/Paramedic	August 2016
Ben Cook	Volunteer	Firefighter	August 2016
Brian Jehn	Volunteer	Firefighter	August 2016
Calvin Adams	Volunteer	Firefighter/EMT	December 2016
Luis Rodriguez	Volunteer	Firefighter	December 2016



TRAINING BUREAU: Lt. Bryan Harrison

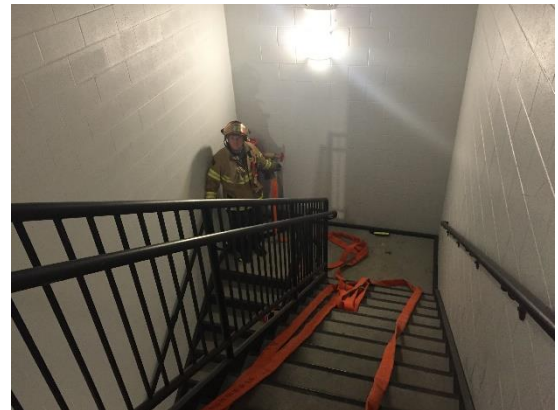
Throughout the year members complete a variety of training topics, not limited to building construction, fire attack, fire behavior, vehicle extrication, incident command, search and rescue. It is important that each member complete continuing education on a variety of subjects to retain knowledge to be proficient. In 2016 Taylor Mill Fire Department completed 4261 total training hours. Over the past year, the Fire Department hosted a flashover recognition class taught by the Kentucky Fire Commission. Also, had special guest speaker, Chris Miller from the Firefighter Cancer Support Network to talk about Cancer in the Fire Service.

Over 2016 Achievements:

- Two members certified as Fire Instructors for the State of Kentucky.
- Three members completed training for Fire Inspector 1.
- One member completed training for Fire Inspector 2.
- Three members completed the International Fire Service Accreditation Congress Certifications.
- One Member obtained Arson 1 Certification and Certified Fire Investigator
- One member obtained Basic Search and Rescue certification.
- One member completed the SAVE program.

2017 Training Goals:

- Continue to Train to be Proficient, Safe and Knowledgeable
- Continue outside training opportunities to extend knowledge of the fire service.
- All eligible members be trained on the SAVE program.
- Exceed State Standards in Training on all levels of staffing
- Promote outside and specialized training



LIFE SAFETY: Captain Chad Huth

The Taylor Mill Fire/EMS Department conducted over **116 Fire Inspections** in 2016. During these inspections, multiple codes are enforced. Some of the infractions could include faulty smoke/fire detectors, unserved fire alarm systems, faulty emergency exit lights, and general housekeeping issues that could lead to a life safety hazard.

Besides being led by myself the Fire Department has begun implementing "Company Inspections" a Company Inspection is where the duty crew for the day goes out and picks a business and preforms their annual inspection. The old saying more eyes are better than one comes into play here. With the assistance of several employees, they can tackle larger businesses/schools and cover more ground and look for violations that might not be caught by a single individual.

Company inspections also help in building familiarity and plays a vital role in pre-planning in case of an emergency.

If a building fails an inspection the Department will allow them thirty (30) days from the date of the infraction to come into compliance. After thirty (30) days a re-inspection is conducted. If the business fails, the re-inspection they are then given seven days to comply or face citation or administration action from the State Fire Marshall's Office. The Department conducted forty (40) re-inspections and all re-inspections came into compliance.

All inspections are now done via I-Pad. Violations can be photographed and documented on the spot. The I-Pad allows for the inspector to immediately complete the inspection and submit a copy to the owner or tenant via email and move on to the next inspection with little or no turn over time. The Department will be looking at adding a second I-pad in the following fiscal year.

KNOX BOX SYSTEM

The Inspection Bureau also handles and distributes Knox box information to our business owners and residents.

A Knox-Box, is a small, wall-mounted safe that holds building keys for fire departments, emergency medical services, and sometimes police to retrieve in emergency situations. Local fire companies can hold master keys to all boxes in their response area, so that they can quickly enter a building without having to force entry or find individual keys held in deposit at the station.

A Knox Key Secure, attached inside the cab of a fire engine, holds a high-security key to open Knox-Box key boxes in the area

A Knox-Box can simplify key control for local fire departments. It can also cut fire losses for building owners since firefighters can enter buildings without breaking doors or windows. It can also reduce the potential of a firefighter being injured forcing entry.



BUILDING MAINTENANCE:

Maintenance and repairs will always be present with any building. The Fire Department does its best to maintain the fire station with a goal of retaining a presence of honor, pride and professionalism. Certain improvements and repairs are also made with regards of keeping the building safe and to provide a conducive work environment for our staff.

2016 Station Improvements

- Bunk Room wall removed to help provide better airflow for the current HVAC system upstairs.
- Because of the removal of the wall a door was removed and drywalled over.
 - Room was painted and new carpet installed
 - Bed partitions to come in 2017 along with individual electrical outlets
- Day Room was painted and new carpet installed.
- Kitchen was painted and a new tile floor installed.
 - 2017 request for new kitchen cabinets and appliances
 - Not enough storage
 - Stove and dishwasher are donated
 - Refrigerator undersized
- The Fire Department Offices received new carpeting and paint and thanks to the donation of the Madeira/Indian Hill Fire Department new office storage and work stations were installed
- Department signage was added to the main hallway
- Replaced failing washer and dryer
- Added Fire Door in Bunker Gear room

2016 Station Repairs

- Replacement natural gas line installed inside the fire bay due to a deteriorating gas line found.
- All HVAC Units were serviced and repaired
 - 63% efficiency rating
- Ice Machine serviced and repaired
- Preventive Maintenance on all overhead bay doors.
- Serviced Front Door
 - Due to shifting of building door will not shut without physical help
- Fixed faulty Day Room wiring
 - Relieved over taxed breaker
 - Added light switch

2017 Future Projects

- Fix front station entrance and door way
- Current over 15 roof leaks throughout the station
- Paint/Carpet Training Room
- Restripe Bays and Lot
- Fix gutters Station 1
- Replace AC at Station 2

SUPPORTING OUR COMMUNITY

The Department actively engages in public education activities and supports various charitable organizations throughout the year. In 2016, the Department partnered with Woodland middle school and provided CPR to 42 middle school students. We also partnered with St. Vincent DePaul on our annual winter coat drive. The members also participated in numerous public education field trips to Little Red School House and Abbey's Day Care.

