Shelby Township Fire Department



2014 Annual Report



FIRE DEPARTMENT

JAMES P. SWINKOWSKI, FIRE CHIEF

(586) 731-3476 • FAX (586) 726-4553 • 6345 23 MILE ROAD • SHELBY TWP., MICHIGAN 48316-4405

March 2, 2015

Board of Trustees Charter Township of Shelby 52700 Van Dyke Shelby Township, MI 48316

Honorable Board Members:

Regarding: 2014 Annual Report – Fire Department

This report will outline the Shelby Township Fire Department's activities for 2014. A master printed copy will be given to the Supervisor's Office and all remaining reports will be scanned and emailed.

As in the past, all information contained in the report for data (i.e. run totals and statistics) will be included in the electronic version of this report.

As always, the department will continue the fine tradition of offering the highest quality fire, rescue, and EMS coverage to our residents, business owners and visitors to our Township. This report will outline the activities of each division within the department.

Doing more with less is never easy, especially in emergency services. Unfortunately, this has been a regular occurrence these last several years. Thanks to the support from the union, our command officers, and our elected officials, we have really taken a team approach to the business management side of the department. Over the last few years, several significant changes were made to address the poor financial outlook that had been the norm for 2012 and 2013. Our successes in 2013 carried over into 2014. We are committed to being the best stewards of our tax payers' money as possible. While we have to continue to provide the highest level of service that we can, we always have to be fiscally responsible in doing so. We started 2013 with a new business model with a goal of providing more transparency and an increase in spending oversight; we continued to make great strides in 2014 and will continue to do so.

Board of Trustees March 2, 2015 Page 2

2014 was the busiest year on record for the Fire Department. Our overall run volume is up over 4% as compared to 2013. A breakdown by category is included in this report.

Due to the high run volume, especially east of M-53, we spent several months analyzing where our longer response times were as compared to our manpower allocation. We identified two things - more manpower was needed east of M-53, and we need the battalion chief to be able to respond in a supervisor's vehicle. In October, we made significant changes to how we respond each day. More manpower was shifted to Station #4 on Schoenherr Road and our Battalion Chief has been operating in a supervisor's vehicle, as opposed to responding in the Fire Engine as a line officer. We made some final changes to this response plan in December. These changes have made a big difference so far, and we will continue to operate in this manner. These changes will not 'fix' the growing trend of higher run volume and longer response times, but they will help to stabilize our responses until a more comprehensive review is completed and a long-term plan is developed with the Board of Trustees with respect to a future station and additional manpower needs.

The increase in development that is currently taking place all over the township and the prospect of water/sewer being brought into sections 1 and 2 will only add to the strain that the department will be facing in the near future.

While we are always looking for ways to improve services and reduce spending, my focus in 2014 was to not only look at the purchase price of equipment, but to take into account the long-term costs as well. A primary example is our ambulances. Historically, public safety administrators have always been concerned with keeping the upfront costs as low as possible. No one has ever questioned the long-term costs of maintenance and repairs. We spent about nine months looking into preventive maintenance costs, as well as reoccurring repair issues, over the life of the vehicle and how best to avoid them. In doing this we can get a better idea of the total lifetime cost and look into ways to lower the long-term costs, as well as extend the life of each vehicle, thereby giving the taxpayers the best return on their investment. We developed a new ambulance specification and it will be presented to the Board of Trustees in a work session in January 2015.

With the ever-increasing recreational activity on the Clinton River, our Swift Water Rescue Team and Dive Team continue to introduce new techniques to meet this growing challenge. In June of 2014, two of our team leaders attended a two-week training class in Colorado with respect to swift water rescue. Upon the completion of the class, they returned and provided the new training to all of our team members. Unfortunately, this training had to come into play several times in 2014 - we responded to one drowning at River Bends Park in the Clinton River and two drownings at Stoney Creek Metro Park.

Board of Trustees March 2, 2015 Page 3

Five new firefighters were hired June 23, 2014 to fill vacancies. These candidates will be completing their probation soon; all have done extremely well so far.

Numerous meetings have been attended by my staff and I concerning Pre-Hospital Provider, County Chiefs, County Radio, PFCSC, Township Board, Department Head, Career Focus Luncheon, Pension Board, County Mutual Aid, MCC regional training, PIA's (Post Incident Analysis), and emergency management. Command staff attended PIA's for 2nd alarm fires in the county. We attended numerous meetings for medical control authority and radio committees.

We were awarded \$14,234.39 in grant funding for Hazardous Materials and Technical rescue training this year.

Fire Prevention conducted a wonderful open house in October. They also visited every elementary school to bring fire education to all of the students. Both events were well attended and continue to be great outreaches for the department.

I am very fortunate to have a dedicated staff and a superb collection of firefighters under my command. As always, without their dedication, I would not be able to detail these great strides we have undertaken. With the run volume continuing to escalate and the complexity of events constantly changing, we are always striving to deliver the best services possible.

Most importantly, I would like to take this opportunity to thank each and every member of the Board of Trustees for your unwavering support for public safety here in our township. Even during the tough economic times over the last several years, because of your commitment, we have been able to maintain the professional standard of care that our residents, business owners and visitors have come to count on should they need to call 911.

Respectfully submitted,

James P. Swinkowski

Fire Chief

<u>Alarms by Month</u>	2010	2011	2012	2013	2014	Plus/Minus from previous year
January	391	417	445	478	533	55
February	357	427	456	412	461	49
March	365	460	488	489	464	-25
April	387	396	461	437	501	64
May	416	450	485	506	534	28
June	441	454	478	468	516	48
July	425	461	461	555	527	-28
August	454	434	515	511	495	-16
September	465	422	460	526	500	-26
October	463	499	524	506	573	67
November	426	434	416	501	520	19
December	488	480	461	502	536	34
Annual Total	5,078	5,334	5,650	5,891	6,160	269

Number of Incidents by District

	2010	2011	2012	2013	2014
Station #1	1234	1372	1399	1386	1429
Station #2	822	910	952	1019	1085
Station #3	984	1007	1052	1167	1133
Station #4	2037	2041	2241	2315	2513
Totals	5,077	5,330	5,644	5,887	6,160

SHELBY TOWNSHIP FIRE DEPT, SHELBY TOWNSHIP, MI 48316

Basic/Fire Data Standard Report For the Year of 2014

Field		Number, %	of Total
From NFIRS - 1			
Incident Type - C1			
Fire			
Fire, other			
100 Fire, other		5	0.08%
Structure Fire	*		
111 Building fire		25	0.41%
112 Fires in structure other than in a building		2	0.03%
113 Cooking fire, confined to container		20	0.32%
114 Chimney or flue fire, confined to chimney or flue		3	0.05%
115 Incinerator overload or malfunction, fire confined		1	0.02%
116 Fuel burner/boiler malfunction, fire confined		1	0.02%
118 Trash or rubbish fire, contained		3	0.05%
Fire in mobile property used as a fixed structure			
121 Fire in mobile home used as fixed residence		1	0.02%
Mobile property (vehicle) fire			
130 Mobile property (vehicle) fire, other		1	0.02%
131 Passenger vehicle fire			0.32%
132 Road freight or transport vehicle fire			0.02%
138 Off-road vehicle or heavy equipment fire			0.02%
Natural vegetation fire			
140 Natural vegetation fire, other		3	0.05%
142 Brush, or brush-and-grass mixture fire		3	0.05%
143 Grass fire		4	0.06%
Outside rubbish fire			
150 Outside rubbish fire, other		1	0.02%
151 Outside rubbish, trash or waste fire		6	0.10%
154 Dumpster or other outside trash receptacle fire		9	0.15%
155 Outside stationary compactor/compacted trash fire		1	0.02%
Special outside fire			
160 Special outside fire, other		2	0.03%
161 Outside storage fire		1	0.02%
162 Outside equipment fire		1	0.02%
Overpressure Rupture, Explosion, Overheat (no fire)			
Overpressure rupture, explosion, overheat, other			
200 Overpressure rupture, explosion, overheat other		1	0.02%
Overpressure rupture from air or gas - no fire			
220 Overpressure rupture from air or gas, other			0.03%
221 Overpressure rupture of air or gas pipe/pipeline		1	0.02%
Excessive heat, scorch burns with no ignition			
251 Excessive heat, scorch burns with no ignition		4	0.06%
Rescue & Emergency Medical Service Incident			
Rescue, emergency medical call (EMS), other			
300 Rescue, EMS incident, other		3	0.05%

FireTools Basic/Fire Data Standard Report For the Year of 2014

Printed: 02/23/2015

Field m NF	IRS - 1	Number, %	0 01 100
	e & Emergency Medical Service Incident		
	eal assist		
		. 4	0.00
		4	0.00
	gency medical service (EMS) Incident	0.6	0 =
320	Emergency medical service, other		0.5
321	EMS call, excluding vehicle accident with injury		71.0
322	Motor vehicle accident with injuries		3.9
323	Motor vehicle/pedestrian accident (MV Ped)		0.2
324	Motor vehicle accident with no injuries	. 54	0.8
Searc	h for lost person		
342	Search for person in water	. 1	0.0
Extric	ation, rescue		
352	Extrication of victim(s) from vehicle	. 2	0.0
353	Removal of victim(s) from stalled elevator	. 1	0.0
354	Trench/below-grade rescue	. 1	0.0
357	Extrication of victim(s) from machinery	. 1	0.0
Water	or ice-related rescue		
360	Water & ice-related rescue, other	. 1	0.0
361	Swimming/recreational water areas rescue		0.0
363	Swift water rescue		0.0
Rescu	ue or EMS standby		
381		18	0.2
	ous Condition (No fire)	10	0.2
	dous condition, other		
400	Hazardous condition, other	4	0.0
	ustible/flammable spills & leaks	4	0.0
410		1	0 0
411	Combustible/flammable gas/liquid condition, other		0.0
	Gasoline or other flammable liquid spill		0.1
412	Gas leak (natural gas or LPG)		0.2
413	Oil or other combustible liquid spill	3	0.0
	ical release, reaction, or toxic condition		
420	Toxic condition, other		0.0
424	Carbon monoxide incident	20	0.3
Electri	cal wiring/equipment problem		
440	Electrical wiring/equipment problem, other	19	0.3
441	Heat from short circuit (wiring), defective/worn	3	0.0
442	Overheated motor		0.0
443	Breakdown of light ballast		0.02
444	Power line down		0.88
445	Arcing, shorted electrical equipment		0.36
Accide	nt, potential accident		0.5
	Accident, potential accident, other		
ervice		1	0.02
	e call, other		
	And the state of t		
	Service Call, other	18	0.29
	in distress		
510	Person in distress, other	34	0.55

FireTools Basic/Fire Data Standard Report For the Year of 2014

Printed: 02/23/2015

Field		Number, % of	Total
rom NFIRS - 1			
Service Call			
Water problem			
520 Water problem, other		. 5 0	. 08%
522 Water or steam leak		. 12 0	. 19%
Smoke, odor problem			
531 Smoke or odor removal		. 37 0	. 60%
Animal problem or rescue			
540 Animal problem, other		. 1 0	. 02%
Public service assistance			
550 Public service assistance, other		. 55 0	. 89%
551 Assist police or other governmental agency			. 37%
552 Police matter			. 08%
553 Public service			. 40%
554 Assist invalid			.40%
Unauthorized burning			
561 Unauthorized burning		. 61 0	. 99%
Cover assignment, standby at fire station, move-up		. 01	• 550
571 Cover assignment, standby, moveup		. 55 0	. 89%
Good Intent Call	• •	. 55	. 090
Good intent call, other			
600 Good intent call, other		. 32 0	. 52%
Dispatched and canceled en route		, 32 0	. 520
611 Dispatched & canceled en route		22 0	2.00
Wrong location, no emergency found		. 22 0	. 36%
621 Wrong location			0.70
			. 05%
To all of all that at all patent address		. 52 0.	. 84%
Controlled burning			
631 Authorized controlled burning		. 2 0.	. 03%
Vicinity alarm			
641 Vicinity alarm (incident in other location)		. 2 0.	. 03%
Steam, other gas mistaken for smoke			
650 Steam, other gas mistaken for smoke, other			. 02%
651 Smoke scare, odor of smoke			. 31%
652 Steam, vapor, fog or dust thought to be smoke			. 05%
653 Smoke from barbecue, tar kettle		. 1 0.	. 02%
EMS call where party has been transported			
661 EMS call, party transported by non-fire agency		. 4 0.	. 06%
HazMat release investigation w/no HazMat			
671 HazMat release investigation w/no HazMat		. 2 0.	. 03%
False Alarm & False Call			
False alarm and false call, other			
700 False alarm or false call, other		63 1.	.00%
Malicious, mischievous false alarm			
710 Malicious, mischievous false call, other		2 0.	.03%
713 Telephone, malicious false alarm			.02%
715 Local alarm system, malicious false alarm			.02%
Bomb scare		_	
721 Bomb scare - no bomb		1 0.	. 02%

FireTools Basic/Fire Data Standard Report For the Year of 2014

Printed: 02/23/2015

Field		Number, %	of Total
From NF	IRS - 1		- The validation of the same o
False A	Alarm & False Call		
Syste	m or detector malfunction		
730	System malfunction, other	. 11	0.18%
731	Sprinkler activation due to malfunction	. 5	0.08%
733	Smoke detector activation due to malfunction	. 32	0.52%
734	Heat detector activation due to malfunction	. 1	0.02%
735	Alarm system sounded due to malfunction	. 23	0.37%
736	CO detector activation due to malfunction	. 27	0.44%
Uninte	entional system/detector operation (no fire)		
740	Unintentional transmission of alarm, other	. 20	0.32%
741	Sprinkler activation, no fire - unintentional	. 3	0.05%
743	Smoke detector activation, no fire - unintentional	. 37	0.60%
744	Detector activation, no fire - unintentional	. 11	0.18%
745	Alarm system activation, no fire - unintentional	. 49	0.80%
746	Carbon monoxide detector activation, no CO	. 11	0.18%
Severe	Weather & Natural Disaster		
Eartho	quake assessment		
813	Wind storm, tornado/hurricane assessment	. 1	0.02%
814	Lightning strike (no fire)	. 2	0.03%
Specia	I Incident Type		
Specia	al type of incident, other		
900	Special type of incident, other	. 5	0.08%
Citizei	n complaint		
911	Citizen complaint	. 3	0.05%
Total:		6160	

FireTools Annual Statistical Report

Printed: 02/23/2015

Property and Contents Report

Property Value			Property Loss
Value Range	Number of	Incidents	Value Range Number of Incidents
\$0		6126	\$0 6105
\$1 - \$5,000 .		19	\$1 - \$5,000
\$5,001 - \$10,000.		2	\$5,001 - \$10,000
\$10,001 - \$20,000.		2	\$10,001 - \$20,000
\$20,001 - \$50,000.		1	\$20,001 - \$50,0004
\$50,001 - \$100,000		2	\$50,001 - \$100,000 4
\$100,001 - \$200,000		1	\$100,001 - \$200,000 0
\$200,001 - \$500,000		6	\$200,001 - \$500,000
\$500,001 - \$1,000,0	000	0	\$500,001 - \$1,000,000 0
\$1,000,001 - up		1	\$1,000,001 - up 0
Property Value	. \$4,390,0	080	Property Loss \$889,375

Contents Value

Contents Loss

Value	Range	Number	of	Inci	dents	7-		Value	Rá	inge	Nı	dmı	er	of	= -	Inc	cid	lents
	\$0				6139					\$0				:				6114
\$1	- \$5,000 .			•	11			\$1	-	\$5,000								34
\$5,001	- \$10,000.			•	2			\$5,001	-	\$10,000								6
\$10,001	- \$20,000.				0			\$10,001	i —	\$20,000								0
\$20,001	- \$50,000.				3			\$20,001	_	\$50,000								3
\$50,001	- \$100,000				2			\$50,001	_	\$100,00	Ο.							3
\$100,001	- \$200,000				1			\$100,001	-	\$200,00	0.			٠				0
\$200,001	- \$500,000			۰	1			\$200,001	-	\$500,00	0.					۰		0
\$500,001	- \$1,000,00	0			1			\$500,001	_	\$1,000,	000) .						0
\$1,000,001	- up			•	0			,000,001										0
Contents V	alue	\$1,768	,410)			Сс	ontents L	os	s		\$49	90,	21	0			



FIRE DEPARTMENT JAMES P. SWINKOWSKI, FIRE CHIEF

(586) 731-3476 • FAX (586) 726-4553 • 6345 23 MILE ROAD • SHELBY TWP., MICHIGAN 48316-4405

March 2, 2015

Jim Swinkowski, Fire Chief 6345 23 Mile Road Shelby Township, MI 48316

Dear Chief Swinkowski:

The following is a brief overview of 2014 in the Training Division:

A total of 26 classes were conducted - 16 EMS, 10 Fire, and multiple Multi- Company and Company training sessions. This does not include Dive Training or CPR classes. Our RIT requirements were met with three classroom sessions, three sessions at MCC, and three sessions at the Packard Proving Ground. The mandated Drivers Training was held in the fall. There were several classes held on the two new software suites that we have deployed - ESO ePCR and VCS software. I myself attended many of these as administrator of both programs.

We re-applied for our CE sponsorship, and passed the State inspection. All 56 hour personnel were recertified in AMA HCP CPR. We trained in Donning and Doffing of PPE (personal protection equipment), due to an outbreak of Ebola in Africa. There were also four Hazmat training sessions, including two county sessions. Along with Fire Prevention, we assisted in a fire drill and evacuation of the buildings in the Park Manor complex.

Due to the overwhelming volume of work, Quality Assurance reviews are running about a month behind. We had one incident in which the Medical Control Authority requested additional information pertaining to a medical report. The situation was resolved without incident.

We continue to support MCC and their mentoring program, and now also Superior Medical education. We had multiple students riding with our Medics last year.

I have attended the EMS Ops meetings at the county level, along with meeting with the Medical Director of Macomb County. I attended prerequisite classes for IC License, and attended classes at MCC for Instructor Coordinator. I also attended a Pipeline Safety class for responders.

Chief Swinkowski March 2, 2015 Page 2

In June of 2014, we hired five Probationary Firefighters. They are moving nicely through their training and they should make their one year anniversary in June of this year.

Last year we had 4,749 patient contacts, of which we transported 3,597 patients to our local hospitals. This is about a 4% increase from the previous year.

The Fire and EMS service in America is constantly changing. We, the Shelby Township Fire Department, pride ourselves in offering the highest quality of care possible to our citizens and community. This would not be possible without the support of our elected officials and the officers and firefighters of Shelby Township Fire Department.

Respectfully submitted,

Chet Storey

Chief of Training



JAMES P. SWINKOWSKI, FIRE CHIEF

(586) 731-3476 • FAX (586) 726-4553 • 6345 23 MILE ROAD • SHELBY TWP., MICHIGAN 48316-4405

March 2, 2015

Jim Swinkowski, Fire Chief 6345 23 Mile Road Shelby Township, MI 48316

Dear Chief Swinkowski:

Regarding: 2014 Fire Prevention Annual Report

The Fire Prevention division is comprised of Fire Marshal Edward Vojtush, and three Lt/Inspectors, Steve Henion, Duane Staten, and Frank Pierce.

Our division's duties include investigating all fires for cause and origin, performing annual fire safety inspections on all businesses, most apartment complexes, and all schools. The fire prevention division also prides itself in having one of the most robust public education programs around. Education and awareness is given to a variety of individuals. We teach in the elementary schools, senior citizen complexes, businesses, public events like the art fair and bike rodeo, and at our open house.

The Marshal is responsible for daily assignments for each of the inspectors, site plan review, construction plan and sprinkler plan review and kitchen suppression system plans, as well as handling all of the emergency management planning and EOC duties for the entire township.

The inspectors must perform fire safety inspections on both new and existing businesses. Many new businesses opened this year, each requiring the attention of our inspectors prior to receiving their final occupancy permit. 172 Final Occupancy inspections were performed in 2014. The inspectors typically make a few site visits prior to the opening. Along with these new businesses, we inspect more than 2000 existing businesses. We pride ourselves in partnering with these businesses in keeping their facilities safe. Maintenance reports for kitchen, alarm, and sprinkler systems are reviewed by the marshal and when issues are noted, an inspector will make a site visit to get the system into compliance. Periodic inspections are performed on all township businesses.

During the first quarter of 2014, our area experienced record cold temperatures and snowfall from January through March. This resulted in our crews responding to many frozen sprinklers or piping. We assisted residents and businesses with water mitigation, as well as working with contractors in placing the sprinkler and alarm systems back in service.

Chief Swinkowski March 2, 2015 Page 2

The fire prevention division welcomed a new inspector, Frank Pierce, in late 2013. In 2014, Pierce attended Fire Inspector classes, took the NFPA exam, and in June passed the test and received his certificate. He also attended fire investigation training and is a great asset to division in both fire safety inspections, as well as a fire investigator.

Once again, in 2014, our division participated in a number of public educational events. We added some new fire safety displays to our elementary school fire educational program. These displays were well received by the first and second grade classes in the many schools that participated. Using our bounce house and smoke trailer, we participated in many events where kids and adults were taught about fire safety. Some of the events we attended were the grand opening of Chief Gene Shepherd Park, Kids Day at Riverbends Park, the Shelby Township Art Fair, St. John Vianney's annual picnic, the STFD's annual open house and Home Depot's annual fire safety day.

Our division also participated in counseling families in the dangers of juvenile fire setting behavior.

Our department again signed a delegation of authority agreement with the state of Michigan to provide fire inspections at any facility that sells fireworks. The inspectors attended training in Lansing enabling them to be certified to inspect these facilities. By performing these inspections, we received over \$2,000 from the state.

Respectfully Submitted,

Edward Vojtush Fire Marshal

2014 FIRE PREVENTION STATISTICS

Total Inspections Performed: 3,745

Includes:

Fire Investigations	150
Periodic	228
Re-Inspections	124
Special / Misc.	758
Sprinkler Systems	318
Construction	392
Hood Duct/Kitchen	318
Alarm System	163
Public Ed/Relations	146
Seminars/Meetings	198
Final Occupancy	172
Temporary Occupancy	51
Plan Reviews	259
Knox Box	90
Pre Inspection	174
Complaints/Violation	88
Hydro Test	22
Emergency Management	56
Puff Test	14
Fireworks	24

One area that experienced a more than 30% increase is final occupancy inspections. This reflects the increase in new businesses in our community. We work closely with the general contractors, business owners, and the building department prior to the new business opening. The work done by the inspectors before the business opens is reflected in construction, pre-inspection, meetings, and temporary occupancy inspection types, which all show increases from 2013.



FIRE DEPARTMENT

JAMES P. SWINKOWSKI, FIRE CHIEF

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March 2, 2015

Jim Swinkowski, Fire Chief 6345 23 Mile Road Shelby Township, MI 48316

Dear Chief Swinkowski:

Regarding: 2014 Emergency Management Annual Report

I serve as Shelby Township's Emergency Management Liaison Director in a role I have had since taking over as Fire Marshal in 2012. I am also responsible for membership in the county Local Emergency Planning Committee, with responsibility for all hazardous material sites and overseeing the township's 13 outdoor warning sirens. In this dual role, I attend a minimum of eight meetings at the county level each year. Each year I ensure that all new management personnel in the township have completed the proper level of training as required by FEMA in the National Incident Management System.

Early in 2014, one of the original warning sirens was replaced with a more efficient model. This older style siren had maintenance issues that were cost prohibitive such that replacement was the best option. This newer style siren with less moving parts can be seen at the southeast corner of 23 Mile and Van Dyke. Along with the siren installation, the crews from Building and Grounds that maintain the sirens were given a day of refresher training by a technician from West Shore Services.

In August, record rains in our area caused flooding in many areas of the township. A section of Hayes Road south of 24 Mile Road was closed for just under a week when the culvert beneath the road failed and had to be replaced. Approximately 20 homeowners reported various degrees of flooding to their homes. Damage Assessment Team leader Tim Wood and his crew inspected the damages at all six homes that reported major damage. These reports were instrumental in reporting the worst residential damage to FEMA. Multiple reports were filed with the county regarding the damages that were incurred because of the flooding. In September, a National Disaster was declared by President Obama which resulted in a team of FEMA representatives being sent to Macomb County to assess damages, as well as help residents with grants and low interest loans.

The Ebola outbreak in West Africa and subsequent incidents in the U.S. resulted in our department meeting multiple times to develop and disseminate information that was being provided by the county, state and federal health agencies for first responders. The department and county haz mat teams were also greatly involved in these protocols.

Respectfully Submitted,

Edward Voitush

Emergency Management Coordinator