



Shelby Township Fire Department

Annual Report
2011





Charter Township of Shelby

FIRE DEPARTMENT
GENE SHEPHERD, FIRE CHIEF

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

March 14, 2012

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

Honorable Board Members:

Regarding: 2011 Annual Report – Fire Department

This report will outline the Shelby Fire Department's activities for the last year. This report will be based on the same format as last year's report. As the Township Supervisor has stated, **"We are not operating business as usual anymore."** Therefore, we will not be including all the statistics in print form as in past years. A master printed copy will be given to the Supervisor's office and all remaining reports will be burned on disk in an effort to save employee time, paper, and copying costs and become more user friendly.

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 high quality fire and EMS coverage to its residents and Macomb County. Each day my staff offers the highest quality services and response, saving lives and protecting property. This report will outline the activities of each division in the department.

This year has been very busy for the Fire Department. We have continued looking for ways to improve services and cut costs. The department has looked to its neighbors and other county resources for agreements. Several services have been looked at recently for shared services. The first has been Tactical Rescue and Hazmat for the communities of Sterling Heights, Clinton Township, and the City of Warren. We have signed two Inter-local Agreements to bring these four communities together to form regional response teams sharing equipment and grant money. This larger group will now be intended for Macomb County, but could respond to other communities, such as the City of Wayne incident. Likewise, we are working on a mirror project that would mimic the agreement mentioned above. The agreement would be for Dive Rescue. This agreement is being talked about and will be presented to local government for approval.

We have continued to talk to four area departments for Automatic Aid and each department now has their legal departments looking at the documents. It looks as if all are in place for this agreement, now just the details need to be worked on before signing.

Dispatch consolidation is another area we have been working on and have formed MACRO (Macomb Area Communities for Regional Opportunities), looking into the possibilities of a countywide fire and police dispatch. The committee will also look at other opportunities for other savings throughout their communities. We have attended MACRO meetings for dispatch and at this time dropped out talks of a combined County dispatch. Meetings were held between Clinton Township Fire Department and STFD for a possibility of forming a shared service fire dispatch. After many meetings and research, the plan was scrapped in light of a possible county dispatch center.

We have also revamped our pre-fire plan inspections and will roll out an improved program shortly. We use the program to inspect commercial properties and plan for major events. We have worked hard with the Planning Department to update our listing of businesses over the past year.

We have had several meetings with the County GIS mapping division and we are working on placing signage on the Clinton River to mark safety points along the river. Signs have been printed and will be installed by our employees this spring. We also have been working with Shelby Parks and Recreation to get access points developed for our vehicles to enter restricted areas along the river. We have also met with the Clinton River Watershed Committee about our plans and are the first community to do so in this proactive way.

Our Training Division has been busy training on Surface Ice Rescue, Abdominal Injuries, Mutual Aid Fire Responses, 2010 CPR Instructor Roll-out, All Hazards Workshop, Shelby Fire SOG's, Ladders, RIT, Pharmacology, ACLS refresher, Medication Administration, Advanced Cardiac Life Support (ACLS), Rapid Intervention (RIT), Dive, Mass Casualty, Drivers Training, Capnography, Harassment, Fire Pre-planning, GIS maps, MDOT road class, MITN, Ladder class, Fire Fighter Rehab, River Rescue classes, Helicopter LZ's, as well as other offered classes. We continue to train the best to be the best. Thanks to our Chief of Training and his efforts to deliver meaningful trainings for our employees.

We conducted entry-level interviews using members of my command staff and implemented a training class to conduct same. On May 31, we added three replacement hires to the ranks. FFM's Dettloff, Simon, and Ricketts were placed on a 40-hour training schedule for four weeks. They followed that with six weeks of non-duty 56 hours, and have made manpower following that time.

Board of Trustees

March 14, 2012

Page 3

Repairs and final punch lists for Station 1 continued with a finished product in sight. Walmart donated \$1000 to the department and we purchase an LED light for the Inspection Division and extra batteries for our portable radios. A new Toughbook was installed on A-4 and the old one moved to A-6 as a back-up.

Work has begun on actively searching for property for Fire Station #5. Three parcels have been identified and we are working with a broker to inquire on prices for them. Paul Viar, Rob Huth, and I have been working together to research properties in our target area. Following a work session with the Board, a bid was put in for one parcel and we await the property being cleared with an appraisal. I am currently looking into plans for the future station #5.

Numerous meetings have been attended by my staff and me concerning MCI, Pre-Hospital Provider, County Chiefs, County Radio, MACRO, Clinton Fire Combined Dispatch, PFCSB, Township Board, Department Head, Career Focus Luncheon, Pension Board, County Mutual Aid, New World, MCC regional training, and PIA's. I have also had meetings with Macomb County for GIS, Clinton River Watershed, Salvation Army, and the Office of Emergency Management. We also held classes with Human Resources for the new medical program, Deferred Compensation and AFLAC. Command staff attended PIA's (Post Incident Analysis) for three 2nd alarm fires in the county. We attended numerous meetings for medical control authority and radio committees. I have attended MCFCA Chiefs meetings and MCA Mass Casualty meetings as well. Lt. Arft, Chief Swinkowski and I attended a County GIS mapping meeting and we are looking at changing from the current system to the County GIS mapping, which is free. More meetings will follow and a cost savings is in sight.

Our old ambulance, A-6, was listed with a broker and it was sold for \$25,000. We did have to pay a 4% in brokerage fees upon its sale. We contacted the MCC Fire Training Institute for a possible donation of the truck and some rescue tools without any success. We received a hose dryer (free) from Washington Fire to be installed at Station #1 for a replacement to a broken unit. If it isn't installed here, we will use it for the new Station #5.

We received about \$29,000 in grant money for Hazmat equipment. All items have been purchased and we took delivery of them. A grant was applied for from State Farm for our Doll House unit, which is used for school children and special interest groups. In the past, State Farm has funded the complete request, but the request was denied. We will be looking for alternative ways to fund the \$11,000 for the unit.

Engines 1, 3, and 4 have been sent out for warranty paint repairs, with 80% of the cost being paid for by Sutphen. Maintaining the trucks this way will prolong their use in the township.

Board of Trustees
March 14, 2012
Page 4

My office staff continues to keep the public informed of fire department and township matters using our electronic sign. They also have kept the ship running while I was off for medical reasons. I want to thank them for their great job of clerical duties.

Budget talks were conducted and items and areas of need surveys reviewed for future needs of the department. We will continue to research areas to reduce spending and still carry out our service to the community. During this quarter, the budget review process began at the fire department. Every area of the budget was reviewed and reductions/additions made during this time. All officers or firefighters who oversee a particular operation at STFD submitted a five-year forecast. They also submitted a list of forecasted needed expenditures for the next five years. We discussed wants and needs in individual meetings with all who produced these forecasts. A budget was assembled and presented to the board for approval. I have prepared a long-range list of needs of the fire department in the future and shared them with my command staff.

Shelby Cable has met several times with members of the department to develop a "Fire Show", which was rolled out in the fall. It features the different services we offer, employees of the department, and much more.

Fire Prevention conducted a wonderful open house in October. They also assisted in the "Play it Safe Academy" this year. Both events were well attended and continue to be great outreaches for the department. The Fire Marshal has done research on the Arson Task Force being proposed for the county and we will not be pursuing this at this time.

FYI items: Breast Cancer Awareness was celebrated again this year with employees being allowed to wear pink tee shirts being sold for a donation through the Union. Training by the IT staff was given on the use of MiTN. We provided EMS stand-by for the Shelby Gopher Run.

The ISO Slayer was here December 1-7. Many issues were looked into and assignments given to me to document or improve on. We will be in communication with them for some time to come. Much time has been dedicated to getting ready for a full ISO inspection, hopefully this spring.

We will also be looking at ways to cut costs in the future as we continue to offer the best service in Macomb County. This year members of my staff have been assigned to multiple committees across the county to improve our effectiveness and have a say in how our department fits into cutting costs in both the County and Shelby Township. I would like to thank each member for their time and efforts in these causes.

Board of Trustees
March 14, 2012
Page 5

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 the 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. I would like to take this opportunity to also thank the Township Board members and residents for supporting the department in these tough economic times.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Gene Shepherd".

Gene Shepherd
Fire Chief

<u>Alarms by Month</u>	2007	2008	2009	2010	2011	Plus/Minus from previous year
January	363	396	378	391	417	26
February	350	383	346	357	427	70
March	320	343	375	365	460	95
April	340	384	396	387	396	9
May	350	392	379	416	450	34
June	384	412	419	441	454	13
July	349	364	386	425	461	36
August	333	367	387	454	434	-20
September	332	383	381	465	422	-43
October	392	379	474	463	499	36
November	370	349	381	426	434	8
December	389	428	389	488	480	-8
Annual Total	4,272	4,580	4,691	5,078	5,334	256

Number of Incidents by District

	2007	2008	2009	2010	2011
Station #1	1139	1140	1047	1234	1372
Station #2	632	744	688	822	910
Station #3	827	896	1001	984	1007
Station #4	1672	1794	1950	2037	2041
Totals	4,270	4,574	4,686	5,077	5,330

SHELBY TOWNSHIP FIRE DEPT, SHELBY TOWNSHIP, MI 48316

Basic/Fire Data Standard Report
For the Year of 2011

Printed: 03/13/2012

Field	Number	% of Total
From NFIRS - 1		
Incident Type - C1		
Fire		
<i>Fire, other</i>		
100 Fire, other	8	0.15%
<i>Structure Fire</i>		
111 Building fire	34	0.64%
112 Fires in structure other than in a building	1	0.02%
113 Cooking fire, confined to container	11	0.21%
114 Chimney or flue fire, confined to chimney or flue	2	0.04%
115 Incinerator overload or malfunction, fire confined	1	0.02%
116 Fuel burner/boiler malfunction, fire confined	1	0.02%
117 Commercial Compactor fire, confined to rubbish	1	0.02%
118 Trash or rubbish fire, contained	2	0.04%
<i>Fire in mobile property used as a fixed structure</i>		
121 Fire in mobile home used as fixed residence	1	0.02%
<i>Mobile property (vehicle) fire</i>		
131 Passenger vehicle fire	20	0.37%
132 Road freight or transport vehicle fire	1	0.02%
138 Off-road vehicle or heavy equipment fire	1	0.02%
<i>Natural vegetation fire</i>		
140 Natural vegetation fire, other	1	0.02%
142 Brush, or brush-and-grass mixture fire	3	0.06%
143 Grass fire	4	0.07%
<i>Outside rubbish fire</i>		
150 Outside rubbish fire, other	2	0.04%
151 Outside rubbish, trash or waste fire	2	0.04%
154 Dumpster or other outside trash receptacle fire	14	0.26%
<i>Special outside fire</i>		
160 Special outside fire, other	2	0.04%
Overpressure Rupture, Explosion, Overheat (no fire)		
<i>Overpressure rupture from steam (no ensuing fire)</i>		
211 Overpressure rupture of steam pipe or pipeline	1	0.02%
<i>Overpressure rupture from air or gas - no fire</i>		
221 Overpressure rupture of air or gas pipe/pipeline	2	0.04%
<i>Excessive heat, scorch burns with no ignition</i>		
251 Excessive heat, scorch burns with no ignition	9	0.17%
Rescue & Emergency Medical Service Incident		
<i>Rescue, emergency medical call (EMS), other</i>		
300 Rescue, EMS incident, other	3	0.06%
<i>Medical assist</i>		
311 Medical assist, assist EMS crew	4	0.07%
<i>Emergency medical service (EMS) Incident</i>		
321 EMS call, excluding vehicle accident with injury	3918	73.00%

Field	Number	% of Total
From NFIRS - 1		
Rescue & Emergency Medical Service Incident		
<i>Emergency medical service (EMS) Incident</i>		
322 Motor vehicle accident with injuries	196	3.70%
323 Motor vehicle/pedestrian accident (MV Ped)	22	0.41%
324 Motor vehicle accident with no injuries	47	0.88%
<i>Search for lost person</i>		
341 Search for person on land	1	0.02%
<i>Extrication, rescue</i>		
350 Extrication, rescue, other	2	0.04%
351 Extrication of victim(s) from building/structure	1	0.02%
352 Extrication of victim(s) from vehicle	2	0.04%
<i>Water or ice-related rescue</i>		
361 Swimming/recreational water areas rescue	2	0.04%
363 Swift water rescue	4	0.07%
<i>Rescue or EMS standby</i>		
381 Rescue or EMS standby	16	0.30%
Hazardous Condition (No fire)		
<i>Hazardous condition, other</i>		
400 Hazardous condition, other	2	0.04%
<i>Combustible/flammable spills & leaks</i>		
410 Combustible/flammable gas/liquid condition, other	1	0.02%
411 Gasoline or other flammable liquid spill	10	0.19%
412 Gas leak (natural gas or LPG)	17	0.32%
413 Oil or other combustible liquid spill	3	0.06%
<i>Chemical release, reaction, or toxic condition</i>		
420 Toxic condition, other	1	0.02%
422 Chemical spill or leak	1	0.02%
424 Carbon monoxide incident	24	0.45%
<i>Electrical wiring/equipment problem</i>		
440 Electrical wiring/equipment problem, other	21	0.39%
441 Heat from short circuit (wiring), defective/worn	3	0.06%
442 Overheated motor	6	0.11%
443 Breakdown of light ballast	1	0.02%
444 Power line down	43	0.81%
445 Arcing, shorted electrical equipment	23	0.43%
<i>Accident, potential accident</i>		
463 Vehicle accident, general cleanup	1	0.02%
<i>Attempted burning, illegal action</i>		
481 Attempt to burn	1	0.02%
Service Call		
<i>Service call, other</i>		
500 Service Call, other	4	0.07%
<i>Person in distress</i>		
510 Person in distress, other	12	0.22%
<i>Water problem</i>		
520 Water problem, other	5	0.09%
522 Water or steam leak	5	0.09%

Field	Number	% of Total
From NFIRS - 1		
Service Call		
<i>Smoke, odor problem</i>		
531 Smoke or odor removal	28	0.52%
<i>Animal problem or rescue</i>		
540 Animal problem, other	1	0.02%
542 Animal rescue	1	0.02%
<i>Public service assistance</i>		
550 Public service assistance, other	17	0.32%
551 Assist police or other governmental agency	8	0.15%
552 Police matter	5	0.09%
553 Public service	74	1.40%
554 Assist invalid	193	3.60%
<i>Unauthorized burning</i>		
561 Unauthorized burning	80	1.50%
<i>Cover assignment, standby at fire station, move-up</i>		
571 Cover assignment, standby, moveup	69	1.30%
Good Intent Call		
<i>Good intent call, other</i>		
600 Good intent call, other	18	0.34%
<i>Dispatched and canceled en route</i>		
611 Dispatched & canceled en route	13	0.24%
<i>Wrong location, no emergency found</i>		
621 Wrong location	2	0.04%
622 No incident found on arrival at dispatch address	31	0.58%
<i>Controlled burning</i>		
631 Authorized controlled burning	6	0.11%
632 Prescribed fire	1	0.02%
<i>Steam, other gas mistaken for smoke</i>		
650 Steam, other gas mistaken for smoke, other	1	0.02%
651 Smoke scare, odor of smoke	13	0.24%
652 Steam, vapor, fog or dust thought to be smoke	7	0.13%
653 Smoke from barbecue, tar kettle	3	0.06%
<i>EMS call where party has been transported</i>		
661 EMS call, party transported by non-fire agency	5	0.09%
<i>HazMat release investigation w/no HazMat</i>		
671 HazMat release investigation w/no HazMat	6	0.11%
False Alarm & False Call		
<i>False alarm and false call, other</i>		
700 False alarm or false call, other	23	0.43%
<i>Malicious, mischievous false alarm</i>		
710 Malicious, mischievous false call, other	2	0.04%
<i>System or detector malfunction</i>		
730 System malfunction, other	6	0.11%
731 Sprinkler activation due to malfunction	1	0.02%
733 Smoke detector activation due to malfunction	10	0.19%
735 Alarm system sounded due to malfunction	27	0.51%
736 CO detector activation due to malfunction	17	0.32%

<u>Field</u>	<u>Number, % of Total</u>
From NFIRS - 1	
False Alarm & False Call	
<i>Unintentional system/detector operation (no fire)</i>	
740 Unintentional transmission of alarm, other	22 0.41%
741 Sprinkler activation, no fire - unintentional	6 0.11%
742 Extinguishing system activation	1 0.02%
743 Smoke detector activation, no fire - unintentional	38 0.71%
744 Detector activation, no fire - unintentional	15 0.28%
745 Alarm system activation, no fire - unintentional	43 0.81%
746 Carbon monoxide detector activation, no CO	8 0.15%
Severe Weather & Natural Disaster	
<i>Earthquake assessment</i>	
813 Wind storm, tornado/hurricane assessment	1 0.02%
814 Lightning strike (no fire)	2 0.04%
Special Incident Type	
<i>Special type of incident, other</i>	
900 Special type of incident, other	3 0.06%
<i>Citizen complaint</i>	
911 Citizen complaint	1 0.02%
Total:	5334

Printed: 03/13/2012

Property and Contents Report

Property Value

Value Range	Number of Incidents
\$0	5286
\$1 - \$5,000	15
\$5,001 - \$10,000.	2
\$10,001 - \$20,000.	3
\$20,001 - \$50,000.	4
\$50,001 - \$100,000	4
\$100,001 - \$200,000	7
\$200,001 - \$500,000	11
\$500,001 - \$1,000,000	1
\$1,000,001 - up	1

Property Value \$36,330,635

Property Loss

Value Range	Number of Incidents
\$0	5275
\$1 - \$5,000	32
\$5,001 - \$10,000.	2
\$10,001 - \$20,000.	10
\$20,001 - \$50,000.	7
\$50,001 - \$100,000	4
\$100,001 - \$200,000	4
\$200,001 - \$500,000	0
\$500,001 - \$1,000,000	0
\$1,000,001 - up	0

Property Loss \$1,504,090

Contents Value

Value Range	Number of Incidents
\$0	5303
\$1 - \$5,000	12
\$5,001 - \$10,000.	0
\$10,001 - \$20,000.	0
\$20,001 - \$50,000.	6
\$50,001 - \$100,000	5
\$100,001 - \$200,000	4
\$200,001 - \$500,000	2
\$500,001 - \$1,000,000	0
\$1,000,001 - up	2

Contents Value \$41,879,705

Contents Loss

Value Range	Number of Incidents
\$0	5294
\$1 - \$5,000	23
\$5,001 - \$10,000.	3
\$10,001 - \$20,000.	3
\$20,001 - \$50,000.	7
\$50,001 - \$100,000	1
\$100,001 - \$200,000	2
\$200,001 - \$500,000	1
\$500,001 - \$1,000,000	0
\$1,000,001 - up	0

Contents Loss \$1,026,005



Charter Township of Shelby

FIRE DEPARTMENT
GENE SHEPHERD, FIRE CHIEF

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

March 14, 2012

Chief Gene Shepherd
Shelby Township Fire Department
6345 23 Mile Road
Shelby Township, MI 48316

Dear Chief Shepherd:

The following is a brief review of 2011:

A total of 24 classes were conducted for on-duty firefighters; 12 were fire based and 12 were EMS based. This does not include hazmat, dive training or special classes individuals attended in neighboring communities.

I spent a lot of time with the ISO Slayer learning what the ISO requires as far as training goes and to learn how to 'package' our records to meet the ISO needs. It was a very valuable experience and we should be well prepared for the ISO review in 2012.

The Macomb County office of Emergency Management held two Mass Casualty incident drills in October; one at Macomb Community College's center campus and the other at the south campus. We participated in both drills; they turned out to be valuable learning tools for all those involved.

I attended the instructor/coordinator conferences in March and October. Both were extremely helpful.

I attended all scheduled MCMCA monthly meetings for the pre-hospital provider committee.

Two new ambulances were approved for purchase in late 2011. Delivery for the first one is expected in the spring and the second should be in the summer of 2012.

CPR continues to be offered monthly to our citizens.

Last year we had 4,564 requests for medical help, of that we transported 3,191 patients to local hospitals. This is an increase of about 10%.

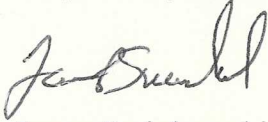
Chief Gene Shepherd

March 14, 2012

Page 2

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, our fire chief, and officers and firefighters of Shelby Township Fire Department.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "James Swinkowski".

James Swinkowski
Chief of Training



Charter Township of Shelby

FIRE DEPARTMENT
GENE SHEPHERD, FIRE CHIEF

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

March 14, 2012

Gene Shepherd, Fire Chief
6345 23 Mile Road
Shelby Township, MI 48316

Dear Chief Shepherd:

Regarding: 2011 Fire Prevention Annual Report

Fire Prevention for 2011 had three full time members and one shared duty personnel. Full time members are Marshal Kueppers, Lt. Ed Vojtush, and Lt. Steve Henion. Lt. Steve Buckley splits duties two days as Fire Inspector and two days as Medic Coordinator. By doing the split duties, it helps to keep a reasonable pace to get annual inspections done and helps to maintain a safe community.

Fire Prevention is divided by area and responsibilities. Ed Vojtush is assigned south of 23 Mile Road to Hall Road, and is also responsible for school safety inspections. North of 23 Mile is assigned to Steve Henion. Steve Henion and Steve Buckley handle public education, of which Fire Marshal Kueppers and Lt. Ed Vojtush also participate. Lt. Steve Buckley, being part-time, is also assigned to help the other inspectors when needed and to handle special assignments.

Shelby Township Fire Department personnel Steve Henion and John McCoy have developed a new program with Cable TV addressing fire safety topics and other programs at the fire department. This year Fire Prevention is giving a hand in helping the department get ready for the ISO evaluation later in the new year. Fire Prevention is also working with the Training Division on inspection and basic fire investigation classes.

Respectfully Submitted,

H. Dean Kueppers
Fire Marshal



Charter Township of Shelby

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GENE SHEPHERD, FIRE CHIEF

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March 14, 2012

Gene Shepherd, Fire Chief
6345 23 Mile Road
Shelby Township, MI 48316

Dear Chief Shepherd:

Regarding: 2011 Emergency Management Annual Report

Fire Marshal Dean Kueppers is serving as the township Emergency Management Coordinator this year. This division is responsible for membership in the county Local Emergency Planning Committee, with responsibility for all hazardous material sites and management of the outdoor emergency warning sirens.

In 2011, the new Shelby Action Guidelines were completed through Macomb County Emergency Management. For 2011, through federal grants of \$3,800, our sirens received a software upgrade. This is being done through West Shore Services Inc., out of Allendale, Michigan. This finishes the narrow banding of sirens, receivers, and radios.

Training of Parks and Recreation personnel was completed this year regarding how to service the new upgrades for the sirens. This gives us a quicker response for maintenance and repair.

Respectfully Submitted,

H. Dean Kueppers
Emergency Management Coordinator
Shelby Township