

SHELBY TOWNSHIP FIRE DEPARTMENT

ANNUAL REPORT

2010





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

February 17, 2011

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

Honorable Board Members:

Regarding: 2010 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**". So for that reason, 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 past year has been filled with challenges of cost cutting measures and the completion of the remodel at fire station #1. The Board has worked with us in replacing our main fire engine at station #1, along with a new set of Hurst Jaws of Life tools. We also took delivery of one new ambulance and rotated them by use to extend their life span. We have also participated in a Macomb County Rescue Team tool purchase and received grants funds for them for approximately \$70,000. We purchased one new inspector's car and downsized our fleet by selling a van and inspectors vehicles. Our rescue boat was replaced and the old boat also sold. We installed radios in two of our trucks and replaced hundreds of feet of fire hose as well. We have applied for an AFG grant for training supplies for our EMS program. Other grants we received totaled over \$94,000 for siren repairs, training, and equipment.

During the month of October we visited Shelby Township schools with over 40 fire prevention classes and tours. We also conducted many station tours and education classes while in station. Our Fire Department Open House was a success with the Grand Opening of Station #1 following the remodeling. We estimate over 400 people attended the open house and a good time was had by all who attended. Our Fire Marshal has had a busy year with the Outdoor Weather Warning sirens. When a major storm rushed through the Township and several sirens failed, he arranged repairs, training and rewrote the policies for monthly checks and service. My thanks to him and his staff of inspectors for their many hours of dedication to this effort. With our new inspection program, building inspections are up and on track throughout the Township. The Township's Fire Prevention Ordinance and Hazard Mitigation plans both have been updated this year and received Board approval.

We are currently working on Inter-local Agreements for Technical Rescue, Hazmat, and Dive Rescue with other county fire departments. These agreements will allow us to better use the equipment and manpower here in Shelby and bill outside agencies when we respond for aid to them. Our department Standard Operating Guidelines (SOG's) have been updated and trained on. The Union has set up a committee to review them and suggest changes in the future. These SOG's had not been reviewed or updated since 1994. Four members of our Technical Rescue Team were deployed to the City of Wayne for the explosion that killed two people at a furniture store. Their efforts were a vital part of mitigating the tragedy in that community.

Training as always continues to be a priority for the department. Technical Rescue hosted a one day seminar for the County team at Shelby Precast. With the help of the owner of the company, we trained 45 technicians at no charge. All materials and the location were donated for the event. EMS training has continued every month to keep all medics certified and up to date on their skills. Training was also given to the Township Dispatchers on the remodeled secondary dispatch center and the fire department and County SOG's for radios. The Dispatch center was utilized twice this past year with radio and building failures at its current location. We shared training with the Utica Fire Department in a home located in the City of Utica. We trained on RIT and Mayday procedures. Future trainings are planned for 2011, sharing resources without cost. The Macomb County Emergency Department purchased a Port-i-count Fit Tester that we are going to use this year to perform testing of our SCBA's and airway protection masks. Dive Rescue and Hazmat training for technicians was conducted throughout the year. The STFD dive team hosted an Ice Rescue Dive for teams from the Macomb County Sheriffs and Harrison Fire Department. They also conducted joint training with Washington Township Fire on Four Bears Lake.

Board of Trustees
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We are working hard toward an ISO review this year, collecting data and getting our “ducks in a row”. The search for land for a station #5 is just about complete, with a proposal toward a purchase in the near future.


Our run volume has increased over last year by 18% for fires and 9% for EMS runs. Extractions from vehicles were up an unbelievable 700% and dive team responses up 50%. These numbers are at times tough to handle, and we struggle to respond to them and often require outside agencies to assist.

As you know, the department negotiated a new contract with both the Shelby Firefighters Union and myself with no raises for the next several years. Cuts in health care and benefits were also done, keeping the operating costs of the department lower. The Firefighters Union also raised the awareness to Breast Cancer this year by purchasing and wearing pink tee-shirts and taking an active part in the Relay for Life here in Shelby Township. The Shelby Firefighters Ladies Auxiliary hosted the 1st annual kids Christmas party in the new training room at Station #1 with over 70 people attending, including Santa.

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, both in the county and Shelby Township. I would like to thank each member for their time and efforts in these causes.

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. 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,



Gene Shepherd
Fire Chief

<u>Alarms by Month</u>	2006	2007	2008	2009	2010	Plus/Minus from previous year
January	291	363	396	378	391	13
February	313	350	383	346	357	11
March	342	320	343	375	365	-10
April	324	340	384	396	387	-9
May	374	350	392	379	416	37
June	334	384	412	419	441	22
July	368	349	364	386	425	39
August	374	333	367	387	454	67
September	345	332	383	381	465	84
October	347	392	379	474	463	-11
November	338	370	349	381	426	45
December	361	389	428	389	488	99
Annual Total	4,111	4,272	4,580	4,691	5,078	387

Number of Incidents by District

	2006	2007	2008	2009	2010
Station #1	1104	1139	1140	1047	1234
Station #2	614	632	744	688	822
Station #3	766	827	896	1001	984
Station #4	1628	1672	1794	1950	2037
Totals	4112	4270	4574	4691	5078

SHELBY TOWNSHIP FIRE DEPT, SHELBY TOWNSHIP, MI 48316

Basic/Fire Data Standard Report
For the Year of 2010

Printed: 02/22/2011

Field	Number	% of Total
From NFIRS - 1		
Incident Type - C1		
Fire		
<i>Fire, other</i>		
100 Fire, other	5	0.10%
<i>Structure Fire</i>		
111 Building fire	31	0.61%
112 Fires in structure other than in a building	2	0.04%
113 Cooking fire, confined to container	11	0.22%
114 Chimney or flue fire, confined to chimney or flue	4	0.08%
116 Fuel burner/boiler malfunction, fire confined	1	0.02%
118 Trash or rubbish fire, contained	1	0.02%
<i>Mobile property (vehicle) fire</i>		
130 Mobile property (vehicle) fire, other	1	0.02%
131 Passenger vehicle fire	23	0.45%
132 Road freight or transport vehicle fire	2	0.04%
137 Camper or recreational vehicle (RV) fire	1	0.02%
<i>Natural vegetation fire</i>		
140 Natural vegetation fire, other	2	0.04%
141 Forest, woods or wildland fire	2	0.04%
142 Brush, or brush-and-grass mixture fire	2	0.04%
143 Grass fire	15	0.30%
<i>Outside rubbish fire</i>		
150 Outside rubbish fire, other	5	0.10%
151 Outside rubbish, trash or waste fire	14	0.28%
154 Dumpster or other outside trash receptacle fire	12	0.24%
155 Outside stationary compactor/compacted trash fire	1	0.02%
<i>Special outside fire</i>		
160 Special outside fire, other	4	0.08%
162 Outside equipment fire	1	0.02%
<i>Cultivated vegetation, crop fire</i>		
173 Cultivated trees or nursery stock fire	4	0.08%
Overpressure Rupture, Explosion, Overheat (no fire)		
<i>Overpressure rupture, explosion, overheat, other</i>		
200 Overpressure rupture, explosion, overheat other	1	0.02%
<i>Excessive heat, scorch burns with no ignition</i>		
251 Excessive heat, scorch burns with no ignition	8	0.16%
Rescue & Emergency Medical Service Incident		
<i>Rescue, emergency medical call (EMS), other</i>		
300 Rescue, EMS incident, other	2	0.04%
<i>Medical assist</i>		
311 Medical assist, assist EMS crew	1	0.02%
<i>Emergency medical service (EMS) Incident</i>		
321 EMS call, excluding vehicle accident with injury	3631	72.00%

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	226	4.50%
323 Motor vehicle/pedestrian accident (MV Ped)	9	0.18%
324 Motor vehicle accident with no injuries	44	0.87%
<i>Extrication, rescue</i>		
351 Extrication of victim(s) from building/structure	1	0.02%
352 Extrication of victim(s) from vehicle	1	0.02%
<i>Water or ice-related rescue</i>		
361 Swimming/recreational water areas rescue	2	0.04%
363 Swift water rescue	1	0.02%
<i>Rescue or EMS standby</i>		
381 Rescue or EMS standby	22	0.43%
Hazardous Condition (No fire)		
<i>Hazardous condition, other</i>		
400 Hazardous condition, other	3	0.06%
<i>Combustible/flammable spills & leaks</i>		
410 Combustible/flammable gas/liquid condition, other	1	0.02%
411 Gasoline or other flammable liquid spill	8	0.16%
412 Gas leak (natural gas or LPG)	19	0.37%
413 Oil or other combustible liquid spill	2	0.04%
<i>Chemical release, reaction, or toxic condition</i>		
421 Chemical hazard (no spill or leak)	1	0.02%
422 Chemical spill or leak	2	0.04%
424 Carbon monoxide incident	20	0.39%
<i>Electrical wiring/equipment problem</i>		
440 Electrical wiring/equipment problem, other	17	0.33%
441 Heat from short circuit (wiring), defective/worn	4	0.08%
442 Overheated motor	7	0.14%
443 Breakdown of light ballast	1	0.02%
444 Power line down	68	1.30%
445 Arcing, shorted electrical equipment	31	0.61%
<i>Biological hazard</i>		
451 Biological hazard, confirmed or suspected	1	0.02%
<i>Accident, potential accident</i>		
460 Accident, potential accident, other	1	0.02%
461 Building or structure weakened or collapsed	2	0.04%
463 Vehicle accident, general cleanup	1	0.02%
Service Call		
<i>Service call, other</i>		
500 Service Call, other	8	0.16%
<i>Person in distress</i>		
510 Person in distress, other	21	0.41%
512 Ring or jewelry removal	1	0.02%
<i>Water problem</i>		
521 Water evacuation	1	0.02%
522 Water or steam leak	6	0.12%

Field	Number	% of Total
From NFIRS - 1		
Service Call		
<i>Smoke, odor problem</i>		
531 Smoke or odor removal	22	0.43%
<i>Animal problem or rescue</i>		
541 Animal problem	1	0.02%
<i>Public service assistance</i>		
550 Public service assistance, other	18	0.35%
551 Assist police or other governmental agency	12	0.24%
552 Police matter	2	0.04%
553 Public service	82	1.60%
554 Assist invalid	180	3.50%
<i>Unauthorized burning</i>		
561 Unauthorized burning	84	1.70%
<i>Cover assignment, standby at fire station, move-up</i>		
571 Cover assignment, standby, moveup	26	0.51%
Good Intent Call		
<i>Good intent call, other</i>		
600 Good intent call, other	12	0.24%
<i>Dispatched and canceled en route</i>		
611 Dispatched & canceled en route	21	0.41%
<i>Wrong location, no emergency found</i>		
622 No incident found on arrival at dispatch address	26	0.51%
<i>Controlled burning</i>		
631 Authorized controlled burning	5	0.10%
<i>Steam, other gas mistaken for smoke</i>		
650 Steam, other gas mistaken for smoke, other	2	0.04%
651 Smoke scare, odor of smoke	5	0.10%
652 Steam, vapor, fog or dust thought to be smoke	5	0.10%
653 Smoke from barbecue, tar kettle	1	0.02%
<i>EMS call where party has been transported</i>		
661 EMS call, party transported by non-fire agency	5	0.10%
<i>HazMat release investigation w/no HazMat</i>		
671 HazMat release investigation w/no HazMat	3	0.06%
False Alarm & False Call		
<i>False alarm and false call, other</i>		
700 False alarm or false call, other	35	0.69%
<i>Malicious, mischievous false alarm</i>		
710 Malicious, mischievous false call, other	2	0.04%
711 Municipal alarm system, malicious false alarm	1	0.02%
715 Local alarm system, malicious false alarm	3	0.06%
<i>System or detector malfunction</i>		
730 System malfunction, other	9	0.18%
731 Sprinkler activation due to malfunction	4	0.08%
733 Smoke detector activation due to malfunction	18	0.35%
734 Heat detector activation due to malfunction	3	0.06%
735 Alarm system sounded due to malfunction	32	0.63%
736 CO detector activation due to malfunction	25	0.49%

Field	Number.	% of Total
From NFIRS - 1		
False Alarm & False Call		
<i>Unintentional system/detector operation (no fire)</i>		
740 Unintentional transmission of alarm, other	9	0.18%
741 Sprinkler activation, no fire - unintentional	5	0.10%
742 Extinguishing system activation	1	0.02%
743 Smoke detector activation, no fire - unintentional	35	0.69%
744 Detector activation, no fire - unintentional	15	0.30%
745 Alarm system activation, no fire - unintentional	37	0.73%
746 Carbon monoxide detector activation, no CO	6	0.12%
Severe Weather & Natural Disaster		
<i>Earthquake assessment</i>		
814 Lightning strike (no fire)	2	0.04%
Special Incident Type		
<i>Special type of incident, other</i>		
900 Special type of incident, other	4	0.08%
<i>Citizen complaint</i>		
911 Citizen complaint	1	0.02%
Total:	5078	

Property and Contents Report

Property Value

Value Range	Number of Incidents
\$0	5020
\$1 - \$5,000	22
\$5,001 - \$10,000.	4
\$10,001 - \$20,000.	4
\$20,001 - \$50,000.	4
\$50,001 - \$100,000	1
\$100,001 - \$200,000	9
\$200,001 - \$500,000	10
\$500,001 - \$1,000,000	1
\$1,000,001 - up	3
Property Value	\$17,744,070

Property Loss

Value Range	Number of Incidents
\$0	5014
\$1 - \$5,000	41
\$5,001 - \$10,000.	6
\$10,001 - \$20,000.	7
\$20,001 - \$50,000.	7
\$50,001 - \$100,000	2
\$100,001 - \$200,000	1
\$200,001 - \$500,000	0
\$500,001 - \$1,000,000	0
\$1,000,001 - up	0
Property Loss	\$782,795

Contents Value

Value Range	Number of Incidents
\$0	5048
\$1 - \$5,000	13
\$5,001 - \$10,000.	4
\$10,001 - \$20,000.	0
\$20,001 - \$50,000.	0
\$50,001 - \$100,000	7
\$100,001 - \$200,000	5
\$200,001 - \$500,000	0
\$500,001 - \$1,000,000	0
\$1,000,001 - up	1
Contents Value	\$3,498,220

Contents Loss

Value Range	Number of Incidents
\$0	5040
\$1 - \$5,000	27
\$5,001 - \$10,000.	5
\$10,001 - \$20,000.	1
\$20,001 - \$50,000.	4
\$50,001 - \$100,000	0
\$100,001 - \$200,000	1
\$200,001 - \$500,000	0
\$500,001 - \$1,000,000	0
\$1,000,001 - up	0
Contents Loss	\$434,520



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

February 17, 2011

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 2010:

A total of 19 classes were held - 10 were fire based, and nine were EMS based. This does not include hazmat or dive training. A special thanks to the Utica Fire Department for allowing us to use their training house; it proved very beneficial.

As was reported in the 2009 annual report, we implemented EMS electronic run reporting in December of 2009. After the first full year of use, I believe it performed as we expected. We did see an improvement of our quality assessment run review. The reporting features contained in the software were very beneficial to our overall Q.A. program.

12 lead ECG transmissions to the hospital continued to be a hot topic at the county level. Hospitals continue to make strides in being able to receive 12 lead ECG's and get them to the cardiologists for confirmation of suspected heart attacks and early activation of the cardiac cath labs prior to the patient arriving at the hospital. This has proved very helpful to the patients. In this regard, I received several complements throughout the year from both Henry Ford Macomb and Beaumont Troy hospitals for the outstanding care given by our firefighters.

I attended a grant writing class in February, and the IC conference in March and October. Both were extremely helpful.

A grant for training equipment was written and sent into FEMA's AFG grant totaling about \$15,000.

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

A new ambulance was delivered in the spring and was put in service at station #4.

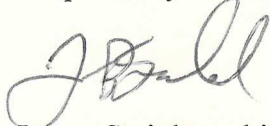
Chief Gene Shepherd
February 17, 2011
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CPR continues to be offered monthly to our citizens.

Last year we had 4,252 patient-contacts, of which we transported 2,889 patients. That is an increase of about 5%.

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 "J 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

February 17, 2011

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

Dear Chief Shepherd:

Regarding: 2010 Fire Prevention Annual Report

Fire Prevention for 2010 went through a change in staffing – 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 is active with Shelby Cable TV doing public service safety topics for the residents. Lt. Steve Henion takes care of cable TV, while Lt. Ed Vojtush does safety tips for township newsletters and newspapers.

Respectfully Submitted,

H. Dean Kueppers
Fire Marshal



Charter Township of Shelby

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February 17, 2011

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

Dear Chief Shepherd:

Regarding: 2010 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.

2010 was a very busy year with getting the new 2010-2015 Macomb County Hazardous Mitigation Plan completed and adopted by the township. Also done were the upgrades to our 13 sirens by getting the radios and electronics narrow banded before the federal 2013 deadline. This was all done with \$76,000 in federal grants.

All NIMS training is moving along, keeping the township compliant with Homeland Security guidelines.

Work was completed on the county and township Emergency Action guidelines. These guidelines are for 2011-2015 and are to be adopted by the township board mid 2011, once they have been reviewed and approved by the state and county.

Respectfully Submitted,

H. Dean Kueppers
Emergency Management Coordinator
Shelby Township