



**TROY FIRE DEPARTMENT
ANNUAL REPORT
2014**



<u>Category</u>	<u>Count</u>	<u>Percent of Total Incidents</u>	<u>Previous Year</u>	<u>Change</u>
Total Fire Incidents	143	12.10%	146	-2.05%
Total Non Fire Incidents	1039	87.90%	900	15.44%
Total Incidents	1182	100.00%	1046	13.00%

<u>Fire Incidents</u>	<u>Count</u>	<u>Percent of Total Fires</u>	<u>Previous Year</u>	<u>Change</u>
Structure Fires	55	38.46%	66	-16.67%
Vehicle Fires	44	30.77%	42	4.76%
Grass Fires	14	9.79%	13	7.69%
Refuse Fires	19	13.29%	14	35.71%
Other Fires	11	7.69%	10	10.00%
Total Fire Incidents	143	100.00%	145	-1.38%

<u>Non Fire Incidents</u>	<u>Count</u>	<u>Percent of Total Non Fires</u>	<u>Previous Year</u>	<u>Change</u>
Overpressure/Explosion	2	0.19%	6	-66.67%
Rescue / Extrication	64	6.16%	46	39.13%
Hazardous Conditions *	196	18.86%	210	-6.67%
Public Service	44	4.23%	43	2.33%
Good Intent **	188	18.09%	170	10.59%
Alarm Activation Unintentional	362	34.84%	253	43.08%
Alarm System Malfunction	176	16.94%	170	3.53%
Weather Standby	6	0.58%	2	200.00%
Other Non Fire	1	0.10%	0	100.00%
Total Non Fire Incidents	1039	100.00%	900	15.44%

* Includes spills or leaks with no fire; excess heat; arcing wires; and chemical emergencies

** Includes smoke scares; wrong locations; steam mistaken for smoke; and controlled burning

All data throughout this report obtained from Oakland County Fire Records Management System



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<u>Structure Fires by Occupancy</u>	<u>Count</u>	<u>Percent of Structure Fires</u>	<u>Previous Year</u>	<u>Change</u>
Apartments	14	25.45%	9	55.56%
Educational	1	1.82%	0	100.00%
Industrial	3	5.45%	7	-57.14%
Institutional	0	0.00%	0	0.00%
Motel/Hotel	0	0.00%	2	-100.00%
Office	2	3.64%	2	0.00%
Other	0	0.00%	0	0.00%
Public Assembly	2	3.64%	6	-66.67%
Single Family Dwelling	21	38.18%	33	-36.36%
Storage	3	5.45%	3	0.00%
Stores/Sales	9	16.36%	4	125.00%
Total Occupancies	55	100.00%	66	

<u>Structure Fires by Cause</u>	<u>Count</u>	<u>Percent of Structure Fires</u>	<u>Previous Year</u>	<u>Change</u>
Act of Nature	0	0.00%	0	0.00%
Cooking	17	30.91%	15	13.33%
Equipment Failure	6	10.91%	7	-14.29%
Intentional	0	0.00%	2	-100.00%
Other	2	3.64%	2	0.00%
Under Investigation	0	0.00%	3	-100.00%
Undetermined	7	12.73%	8	-12.50%
Unintentional	23	41.82%	29	-20.69%
Total Causes	55	100.00%	66	



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<u>Total Casualties</u>	<u>Number</u>	<u>Percent</u>	<u>Previous Year</u>	<u>Change</u>
Civilian Injury	5	41.67%	8	-37.50%
Civilian Death *	2	16.67%	1	100.00%
Firefighter Injury	5	41.67%	4	25.00%
Firefighter Death	0	0.00%	0	0.00%
Total Casualties	12	100.00%	13	33.00%

<u>Total Estimated Building Fire Loss</u>	<u>Amount</u>	<u>Percent</u>	<u>Previous Year</u>	<u>Change</u>
Structure Value	\$117,813,318.00	100.00%	\$93,359,818.00	26.19%
Content Value	\$27,011,058.00	22.93%	\$31,469,833.00	-14.17%
Building Loss	\$1,219,121.00	1.03%	\$2,391,861.00	-49.03%
Contents Loss	\$733,852.00	0.62%	\$2,063,685.00	-64.44%
Total Loss	\$1,952,973.00	1.66%	\$4,455,546.00	-56.17%
Total Saved	\$115,860,345.00	98.34%	\$88,904,272.00	30.32%

* One structure fire related. One outdoor fire related.



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Response Time Analysis

<u>Fire Dept. Emergency Response *</u>	<u>Count</u>	<u>Cumulative Response</u>	<u>Percent</u>	<u>Cumulative Percent</u>
0 - 1 Minute	11	11	1.91%	1.91%
1 - 2 Minutes	9	20	1.56%	3.47%
2 - 3 Minutes	13	33	2.25%	5.72%
3 - 4 Minutes	30	63	5.20%	10.92%
4 - 5 Minutes	51	114	8.84%	19.76%
5 - 6 Minutes	79	193	13.69%	33.45%
6 - 7 Minutes	75	268	13.00%	46.45%
7 - 8 Minutes	64	332	11.09%	57.54%
8 - 9 Minutes	73	405	12.65%	70.19%
9 - 10 Minutes	63	468	10.92%	81.11%
10 + Minutes	109	577	18.89%	100.00%
Total Emergency Responses	577		48.82% of total responses	
Total Nonemergency Responses	605		51.18% of total responses	
Total Responses	1182			

** Dispatch to arrival as recorded by the dispatch center. Priority response as recorded by each station.*

<u>Dispatch Emergency Processing **</u>	<u>Count</u>	<u>Cumulative Response</u>	<u>Percent</u>	<u>Cumulative Percent</u>
0 - 1 Minute	455	455	69.68%	69.68%
1 - 2 Minutes	141	596	21.59%	91.27%
2 - 3 Minutes	38	634	5.82%	97.09%
3 - 4 Minutes	16	650	2.45%	99.54%
4 - 5 Minutes	3	653	0.46%	100.00%
5 - 6 Minutes	0	653	0.00%	100.00%
6 - 7 Minutes	0	653	0.00%	100.00%
7 - 8 Minutes	0	653	0.00%	100.00%
8 - 9 Minutes	0	653	0.00%	100.00%
9 - 10 Minutes	0	653	0.00%	100.00%
10 + Minutes	0	653	0.00%	100.00%
Total Emergency Incidents	653			

*** Receipt of call to dispatch as recorded by the dispatch center. May include cancellations after dispatch.*



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<u>Activities Performed</u>	<u>Count</u>	<u>Percent</u>	<u>Previous Year</u>	<u>Change</u>
Fire Station Service Requests	854	56.52%	983	-13.12%
Fire Investigations	42	2.78%	53	-20.75%
In-Service Training Provided	475	31.44%	517	-8.12%
Specialty Team Training Provided	89	5.89%	64	39.06%
Fire Academy Training Provided *	51	3.38%	111	-54.05%
Subtotal	1,511	100.00%	1,728	-12.56%
Plans Reviewed	887	5.15%	1,069	-17.03%
Permits Issued	595	3.45%	584	1.88%
Inspections	2,724	15.81%	3,198	-14.82%
Violations Issued	1,462	8.49%	1,515	-3.50%
Violations Cleared	863	5.01%	778	10.93%
Hydrant Flow Tests Conducted	39	0.23%	30	30.00%
Public Education Programs	118	0.68%	113	4.42%
Public Education Participants	8,550	49.62%	7,369	16.03%
HAPIS Computer Entries	701	4.07%	1,967	-64.36%
Alarms Registered **	853	4.95%	735	16.05%
Knox Box Updates	438	2.54%	702	N/A
Subtotal	17,230	100.00%	18,060	-4.60%
Total Activities	18,741		19,788	-5.29%

* North Oakland Academy Only in 2014

** Paid registrations as of 02/15

<u>Activity Time</u>	<u>Hours</u>	<u>Percent</u>	<u>Previous Year</u>	<u>Change</u>
Administrative ***	2,289.10	7.75%	1,893.50	20.89%
Fire Prevention ***	5,538.05	18.76%	6,451.36	-14.16%
Supportive / Other ***	5,408.04	18.32%	5,408.90	-0.02%
Training ****	16,291.00	55.17%	17,287.00	-5.76%
Total Hours	29,526.19	100.00%	31,040.76	-4.88%

*** Career staff-hours only. Does not include leave time.

**** Includes staff hours + volunteer hours



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Staffing

<u>Volunteer</u>	<u>Station 1</u>	<u>Station 2</u>	<u>Station 3</u>	<u>Station 4</u>	<u>Station 5</u>	<u>Station 6</u>	<u>Total</u>	<u>Trend</u>	<u>Cumulative</u>
2010	29	27	29	32	30	26	173	NA	0.00%
2011	29	27	28	31	29	24	168	-2.89%	-2.89%
2012	27	27	26	29	31	25	165	-1.79%	-4.62%
2013	25	27	24	27	29	27	159	-3.64%	-8.09%
2014	25	24	25	27	29	26	156	-1.89%	-9.83%
<u>5 Yr. Avg.</u>	22.0	21.6	21.4	23.8	23.8	20.4	164.2	-2.04%	-5.09%
<u>2 Yr. Avg.</u>	26.0	27.0	25.0	28.0	30.0	26.0	157.5	-2.76%	-8.96%

<u>Career</u>	<u>Chief</u>	<u>Assistant Chief</u>	<u>Staff Lieutenant</u>	<u>Staff Technician</u>	<u>Secretary</u>	<u>Total</u>	<u>Trend</u>	<u>Cumulative</u>
2010	1	2	6	2	1	12	NA	0.00%
2011	1	2	6	2	1	12	0.00%	0.00%
2012	1	1	5	3	1	11	-8.33%	-8.33%
2013	1	1	5	3	1	11	0.00%	-8.33%
2014	1	1	4	3	1	10	-9.09%	-16.67%
<u>5 Yr. Avg.</u>	0.8	1.2	4.4	2.0	1.0	11.2	-3.48%	-6.67%
<u>2 Yr. Avg.</u>	1.0	1.0	5.0	3.0	1.0	10.5	-4.55%	-12.50%



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<u>Station</u>	<u>Incident Category</u>	<u>Incident Count</u>	<u>Percent of Category</u>	<u>Percent of Total Count</u>	<u>Previous Year Count</u>	<u>Change</u>
1	Fire	28	19.58%	2.37%	41	-31.71%
	Rescue/Extrication	5	7.81%	0.42%	2	150.00%
	False Alarm	84	15.61%	7.11%	66	27.27%
	All Other	85	19.45%	7.19%	78	8.97%
	Sub Total	202	17.09%	17.09%	187	8.02%
2	Fire	14	9.79%	1.18%	14	0.00%
	Rescue/Extrication	4	6.25%	0.34%	6	-33.33%
	False Alarm	58	10.78%	4.91%	35	65.71%
	All Other	61	13.96%	5.16%	51	19.61%
	Sub Total	137	11.59%	11.59%	106	29.25%
3	Fire	33	23.08%	2.79%	25	32.00%
	Rescue/Extrication	13	20.31%	1.10%	12	8.33%
	False Alarm	118	21.93%	9.98%	124	-4.84%
	All Other	85	19.45%	7.19%	93	-8.60%
	Sub Total	249	21.07%	21.07%	254	-1.97%
4	Fire	34	23.78%	2.88%	31	9.68%
	Rescue/Extrication	35	54.69%	2.96%	12	191.67%
	False Alarm	136	25.28%	11.51%	87	56.32%
	All Other	77	17.62%	6.51%	67	14.93%
	Sub Total	282	23.86%	23.86%	197	43.15%
5	Fire	10	6.99%	0.85%	14	-28.57%
	Rescue/Extrication	3	4.69%	0.25%	6	-50.00%
	False Alarm	46	8.55%	3.89%	18	155.56%
	All Other	45	10.30%	3.81%	50	-10.00%
	Sub Total	104	8.80%	8.80%	88	18.18%
6	Fire	17	11.89%	1.44%	12	41.67%
	Rescue/Extrication	4	6.25%	0.34%	6	-33.33%
	False Alarm	53	9.85%	4.48%	55	-3.64%
	All Other	53	12.13%	4.48%	49	8.16%
	Sub Total	127	10.74%	10.74%	122	4.10%
8 *	Fire	7	4.90%	0.59%	9	-22.22%
	Rescue/Extrication	0	0.00%	0.00%	2	-200.00%
	False Alarm	43	7.99%	3.64%	38	13.16%
	All Other	31	7.09%	2.62%	43	-27.91%
	Sub Total	81	6.85%	6.85%	92	-11.96%
Total		1182	100.00%	100.00%	1046	13.00%

* Administrative staff followup; investigations; duty officer response.



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Supplemental

<u>Valid Alarm Activations</u>	<u>Count</u>	<u>Percent of Total Incidents</u>	<u>Previous Year</u>	<u>Change</u>
Cooking	34	3.12%	28	21.43%
Fire	5	0.46%	2	150.00%
Smoke	5	0.46%	2	150.00%
Overheat	0	0.00%	8	-100.00%
Electrical	0	0.00%	3	-100.00%
Total Valid Alarms	44	4.21% of Total Incidents 7.55% of Total Alarm Activations	43	2.33%

<u>False Alarm Activations</u>	<u>Count</u>	<u>Percent of Total Incidents</u>	<u>Previous Year</u>	<u>Change</u>
Unintentional	359	32.94%	247	45.34%
Malfunction	176	16.15%	170	3.53%
Other	3	0.28%	0	300.00%
Malicious	1	0.09%	6	-83.33%
Total False Alarms	539	51.53% of Total Incidents	423	27.42%

<u>Fires With Significant Loss *</u>	<u>Date</u>	<u>Resources</u>	<u>Alarms</u>	<u>Estimated Loss**</u>	<u>Summary</u>
2019 Lovington	3/15/2014	Sta.1; Sta. 4; AT3; Sta. 5	2	\$750,000.00	Multi-Family Residential/Apartment
1972 Meijer Dr.	4/16/2014	Sta. 3; Sta. 4	1	\$120,000.00	Light Industrial
31 E Long lake Rd.	8/4/2014	Sta. 2; Sta. 5; R4; AT3	1	\$200,000.00	Retail
4856 Butler Dr.	10/14/2014	Sta. 5; Sta. 2; R4; AT3	1	\$130,825.00	Single Family Residential
1539 Kirts Blvd.	12/25/2014	Sta. 3; Sta. 4; Sta. 1	2	\$200,000.00	Multi-Family Residential/Apartment

<u>Mutual Aid</u>	<u>Date</u>	<u>Resources</u>	<u>Alarms</u>	<u>Type</u>	<u>Summary</u>
Madison Heights FD	9/20/2014	Air Tender 3	2	Assist	Commercial Building

* \$100,000.00 or greater.

**Replacement Cost of Real & Personal Property



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75th

Noteworthy

Severe Weather

The summer of 2014 provided two significant weather events that affected the fire department: On July 27th, there were 43 incidents in a 6 1/2 hour period when numerous trees and powerlines fell as a result of high winds and hail related to severe thunderstorms.

On August 11, 2014, there were 29 incidents in a 13 hour period as firefighters performed numerous rescues of stranded motorists from their vehicles when 4 to 6.5 inches of rain fell during that time period.

Road Construction

During the months of August, September, and October, 2014, major roadwork projects occurred on several roadways throughout Troy including Big Beaver, Maple, and John R, to name a few. This construction work necessitated the staffing of Stations 1, 3 & 4 during peak traffic times in the morning and the evening so as to provide a timely response to incidents due to traffic congestion. Fortunately, however, only a few routine incidents occurred during those times, and nothing of significance.

Rescue 4

TFD took delivery of a new heavy duty rescue truck, Rescue 4. This truck replaced an aging vehicle that had been re-purposed to provide additional and specialized rescue capabilities. The new rescue truck has increased capacity and carries additional equipment necessary for rescue and firefighting duties.



Station 4

Initial funding was approved to construct a new Station 4. The current fire station, built in 1968, no longer adequately accommodates the assigned apparatus and personnel. The new station will better serve the needs of the members and the department.

Volunteer Firefighters Incentive Program

The VFIP, which provides a financial incentive for volunteer firefighters to remain with the department, received a benefit increase and was restructured to become an IRS Section 113 Trust.