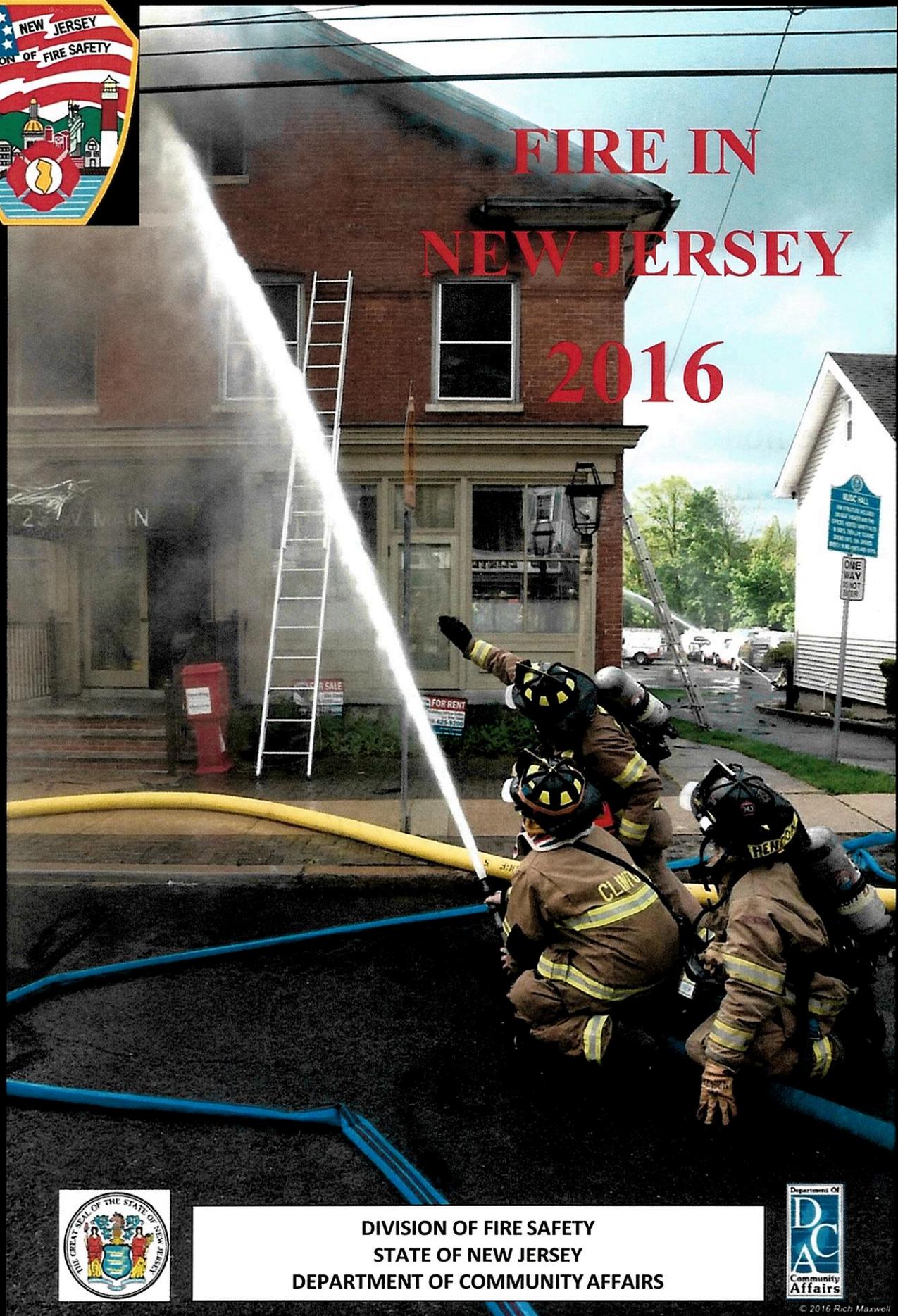




FIRE IN NEW JERSEY 2016



DIVISION OF FIRE SAFETY
STATE OF NEW JERSEY
DEPARTMENT OF COMMUNITY AFFAIRS



© 2016 Rich Maxwell

DEDICATION

We honor the firefighters who selflessly gave their lives to protect the residents of their communities

Richard N. Zadorozny – Eatontown Fire Department

Paul Price, Sr. – Audubon Fire Department

Joseph Bichler – Evesham Fire Department

Daniel P. McCann, III – Manasquan Fire Department

Alfred A. Stewart – West Milford Fire Department

Louis Kelly – Union County OEM – Fire Coordinator

Picture courtesy of National Fire Academy



State of New Jersey
DEPARTMENT OF COMMUNITY AFFAIRS
101 SOUTH BROAD STREET
PO Box 809
TRENTON, NJ 08625-0809

PHILIP D. MURPHY
Governor

LT. GOVERNOR SHEILA Y. OLIVER
Commissioner

August 2018

The Department of Community Affairs' Division of Fire Safety is pleased to present:

Fire in New Jersey 2016

This report details the activities of the 600 New Jersey fire departments that voluntarily submitted data on their responses to emergency situations. Among others, these incidents include structure, vehicle, and wildland fires in addition to hazardous materials releases and medical emergencies.

The Division of Fire Safety is grateful to the participating Fire Departments, the New Jersey Fire Safety Commission's Statistics and Information Advisory Council, and the Fire Incident Reporting Unit for their efforts and support. With the assistance of their data, expertise, and guidance we can identify where and why fires occur as a basis for examining the effectiveness of fire codes and to improve and expand our fire safety education curriculum.

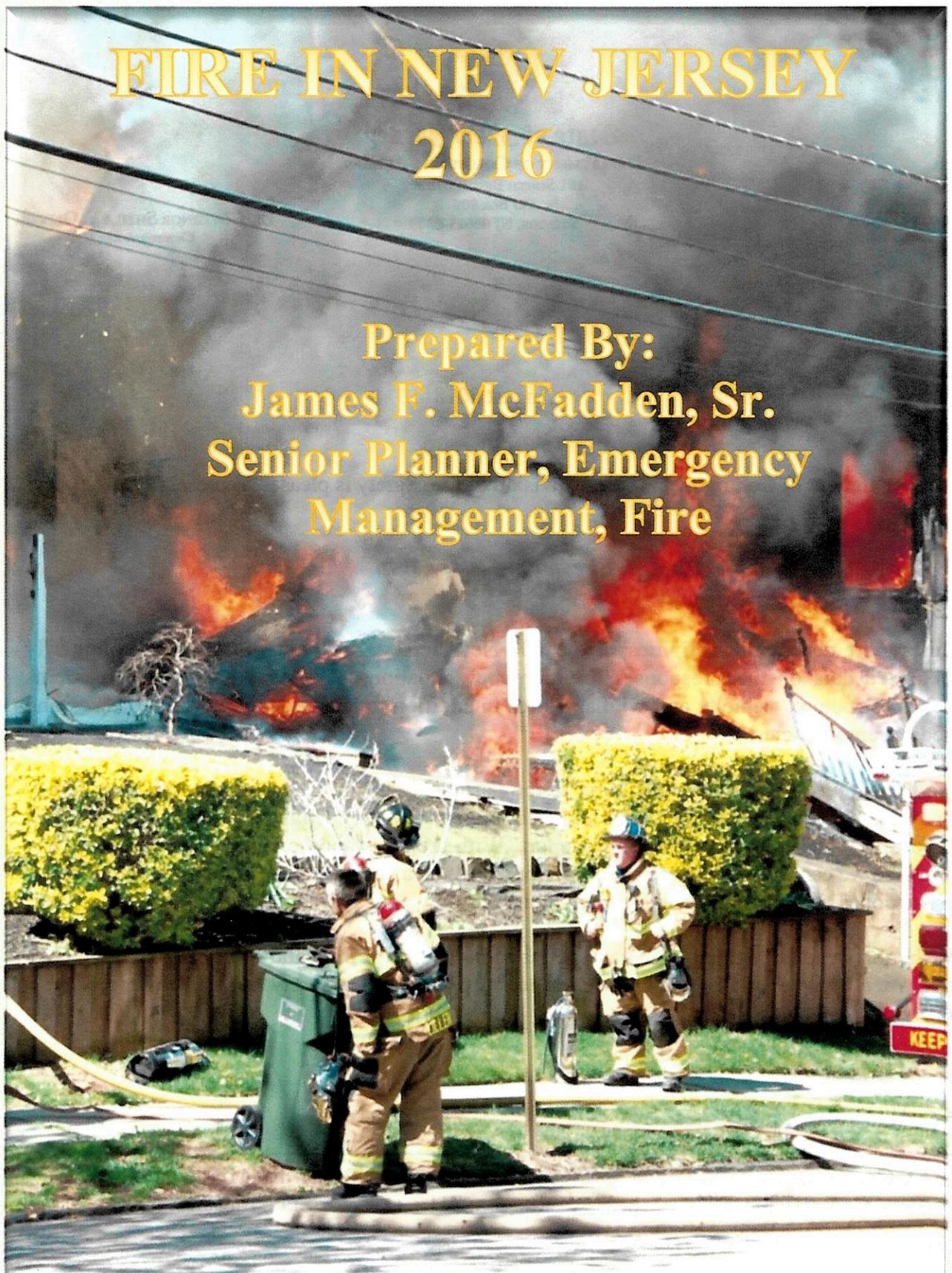
We honor those firefighters who have perished in the line of duty and offer our sincere thanks to all members of the fire service who protect the lives and property of the residents of New Jersey.

Lt. Governor Sheila Y. Oliver
Commissioner

Richard J. Mikutsky
Director/State Fire Marshal

FIRE IN NEW JERSEY 2016

Prepared By:
James F. McFadden, Sr.
Senior Planner, Emergency
Management, Fire



Rutherford 4/20/2016 – Photo by Chris Tompkins

TABLE OF CONTENTS

INTRODUCTION	6
NFIRS CONTACT INFORMATION	7
REPORT CONTENTS	8
FAST STATS FOR 2016	9
2016 FIRE CLOCK	10
FIREFIGHTER LINE-OF-DUTY DEATHS	11
CAUSE OF FIREFIGHTER INJURIES	12
SEVERITY OF FIREFIGHTER INJURIES	13
CIVILIAN FIRE FATALITIES (Year, Gender, Age)	14
CIVILIAN FIRE FATALITIES (County, Month)	15
CIVILIAN FIRE FATALITIES BY PROPERTY USE	16
CIVILIAN FIRE INJURIES (Gender, Age)	17
CIVILIAN FIRE INJURIES (Detector Presence).....	18
FIRE DEPARTMENT RESPONSES	19
INCIDENT RESPONSES BY COUNTY	20
FIRE INCIDENT RESPONSES BY MONTH (Unconfined, Confined)	21
FIRE INCIDENT RESPONSES BY MONTH (Structure)	22
FIRE INCIDENTS (Specific Property Use)	23
FIRE INCIDENTS (Structure Fires)	24
FIRE INCIDENTS (Heat Source, Code, Incidents)	25
STRUCTURE FIRE INCIDENTS	26
FIRE INCIDENTS (Heat Source)	27
SCHOOL FIRES	28
OTHER PROPERTY USE FIRES (Restaurant)	29
OTHER PROPERTY USE FIRES (Food & Beverage/Grocery Store, Business)	30
VEHICLE FIRES	31
HAZARDOUS CONDITIONS	32
SPECIAL STUDIES	33
INSPECTION TEAMS	34
FIRE TRAINING SECTION	35
NEW JERSEY FIRE ACADEMY LIST	36
INCIDENT TYPE CODES	37

INTRODUCTION

FIRE IN NEW JERSEY 2016 is a statistical analysis of fire and emergency incidents in New Jersey. The data collected and used in the formulation of this report comes from fire departments throughout New Jersey that participate in the National Fire Incident Reporting System (NFIRS). Fire service personnel enter incident data into their fire department computer-based NFIRS database and, on a monthly basis, submit their data to the Division of Fire Safety. The Division receives the fire department data, processes it into the State NFIRS database and forwards the data to the federal NFIRS database.

NFIRS BACKGROUND

The Federal Fire Prevention and Control Act of 1974 (P.L. 93-948) authorized the National Fire Data Center in the United States Fire Administration (USFA) to gather and analyze information on the frequency, causes, spread, and extinguishment of fires and on the number, nature and causes of injuries and deaths resulting from fires and on property loss.

FIRE INCIDENT REPORTING IN NEW JERSEY

The data used in this report is from fire departments that participate in the NFIRS. The statutes that created the Division of Fire Safety call for the Division to administer a fire incident reporting system in accordance with N.J.S.A. 52:27D-25d.(d.) To encourage participation, the Division of Fire Safety provides reference materials, incident field notes, and training to fire departments. The incident data that fire departments submit to the Division is forwarded to the National Fire Data Center at the United States Fire Administration. The Division began implementation of NFIRS 5 in 1999 and all of the data used in this report is from NFIRS 5. NFIRS 5 is an all incident based reporting system, which captures the many different types of incidents to which fire departments respond. Please see pages 37 to 43 for a complete list of incident types.



Tinton Falls 2/5/16, Photo courtesy of Mike Nawicki, Jr.

Front cover: Clinton 5/15/16, Photo courtesy of Rich Maxwell

NFIRS CONTACT INFORMATION

The Division of Fire Safety provides NFIRS staff to assist fire departments with NFIRS training and technical support. Please feel free to contact the NFIRS Unit for assistance.

Vince Campagna
Northern Field Representative
(609) 462-6619
vince.campagna@dca.nj.gov

Steven Hearn
Field Representative
(609) 947-7528
steven.hearn@dca.nj.gov

Sonia Mora
Technical Support Specialist
(609) 984-3476
sonia.mora@dca.nj.gov

This report would not be possible without the hard work, support, and dedication of the NFIRS staff.

REPORT CONTENTS

The 2016 data presented in this report is representative of the incident data that was submitted to the Division of Fire Safety's NFIRS Unit by March 31, 2017. Data received has been processed into the State and federal databases.

Based upon incidents received, New Jersey fire departments responded 418,041 times to 364,923 incidents in 2016.

Data submission is broken down as follows:

Of the 720 fire departments in the state, 600 (83%) submitted data.

Note: 40 fire departments submitted less than six months of data.



Elmwood Park 4/3/16

Photo by Chris Tompkins

Data in this report does not include military installation fire department data. Military installation fire departments submit their NFIRS data directly to the Department of Defense.

All of the charts included in this report are based on 2016 totals unless otherwise specified.

FAST STATS FOR 2016

- ♦ **6** firefighters died in the line of duty.
- ♦ **516** firefighter injuries were reported.
- ♦ **53** civilians lost their lives as a result of fire.
- ♦ **45 (85%)** civilian fire fatalities occurred in residential properties.
 - **28 (53%)** in dwellings
 - **17 (32%)** in multifamily dwellings
- ♦ **250** civilians were reported injured as a result of fire.
- ♦ **32,800** fires were reported.
- ♦ **20,411** structure fires were reported.
- ♦ **72%** of all reported structure fires involved residential properties.
- ♦ **66%** of reported residential fires occurred in 1- or 2-family dwellings.
- ♦ **302** fires were reported intentionally set in residential properties.
- ♦ **89%** of all reported vehicle fires involved passenger vehicles.
- ♦ **2 (4%)** civilian fire fatalities occurred in vehicles.
- ♦ **4512.5** acres were reported burned in 1055 fire incidents.
- ♦ **252** school fires were reported.
- ♦ **7.6%** of all reported incident responses were fire incidents.

2016 FIRE CLOCK

One firefighter injury occurred every **16 hours 57 minutes**



Leonia, Photo courtesy of Bill & Chris Tompkins

One fire occurred every **16 minutes 37 seconds**



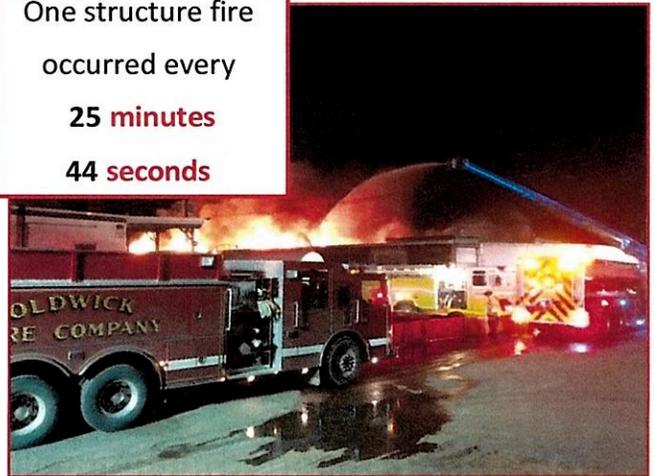
Lyndhurst, Photo courtesy of Bill & Chris Tompkins

One civilian fire injury occurred every **36 hours 39 minutes**



Pemberton, Photo courtesy of Craig Augustoni

One structure fire occurred every **25 minutes 44 seconds**



Hillsborough, Photo Courtesy of Doug Rue

Fire departments responded to fire incidents every **7 minutes 54 seconds**



Fire departments responded to incidents every **1 minute 40 seconds**

Cinnaminson, Photo courtesy of Bill Kramer

One vehicle fire occurred every **10.46 hours**

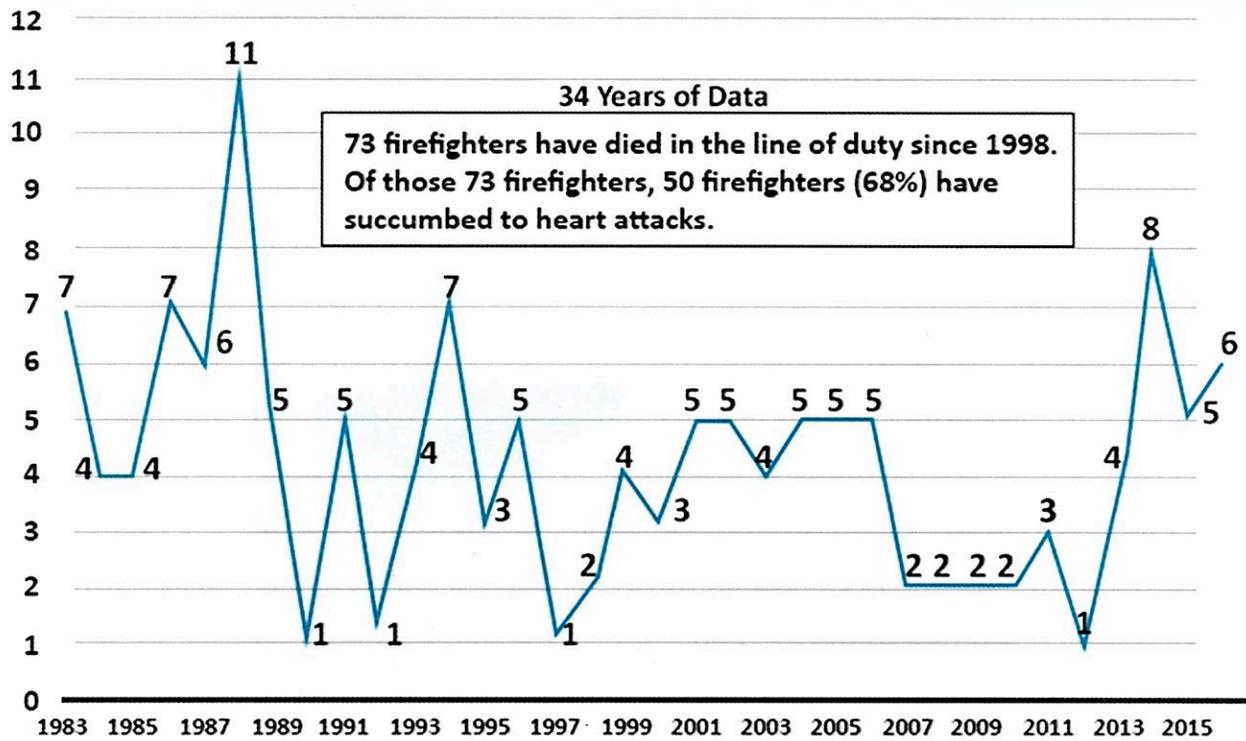


Garfield, Photo courtesy of Bill & Chris Tompkins

FIREFIGHTER LINE-OF-DUTY DEATHS

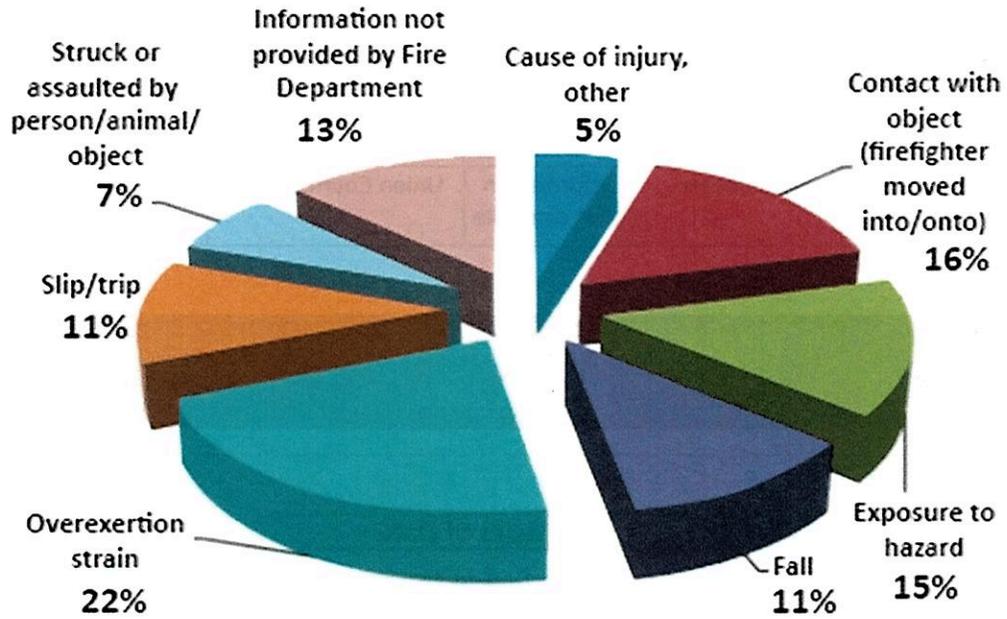
2016 Firefighter Line-of-Duty Deaths						
NAME	AGE	STATUS AT TIME OF	YEARS OF SERVICE	FIRE DEPARTMENT	CAUSE OF DEATH	INCIDENT TYPE
Richard N. Zadorozny	66	Volunteer	48	Eatontown FD	Heart Attack	Odor of natural gas
Paul Price, Sr.	63	Volunteer	40+	Audubon FD	Heart Attack	Motor vehicle
Joseph Bichler	66	Volunteer	33	Evesham FD	Heart Attack	Multiple calls
Daniel P. McCann, III	51	Volunteer	27	Manasquan FD	Heart Attack	Training
Alfred A. Stewart	79	Volunteer	Information not available	West Milford FD	Heart Attack	In-station duties
Louis Kelly	70	Volunteer	Information not available	Union County OEM	Heart Attack	Residential fire

Firefighter Line-of-Duty Deaths 1983 to 2016



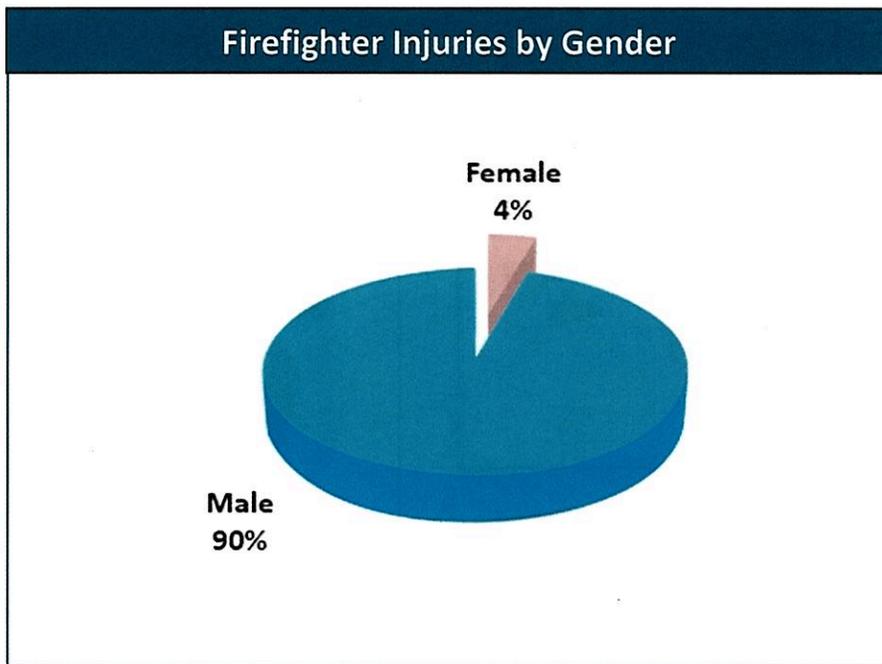
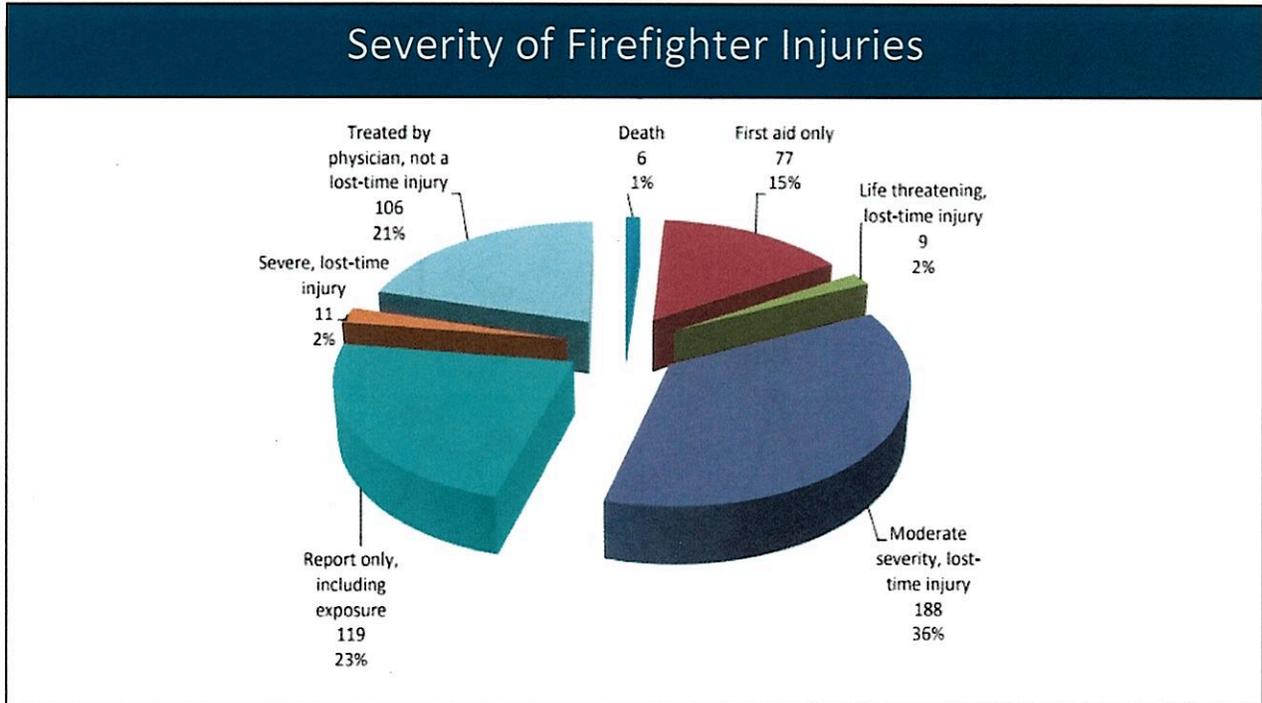
FIREFIGHTER INJURIES

Cause of Firefighter Injuries



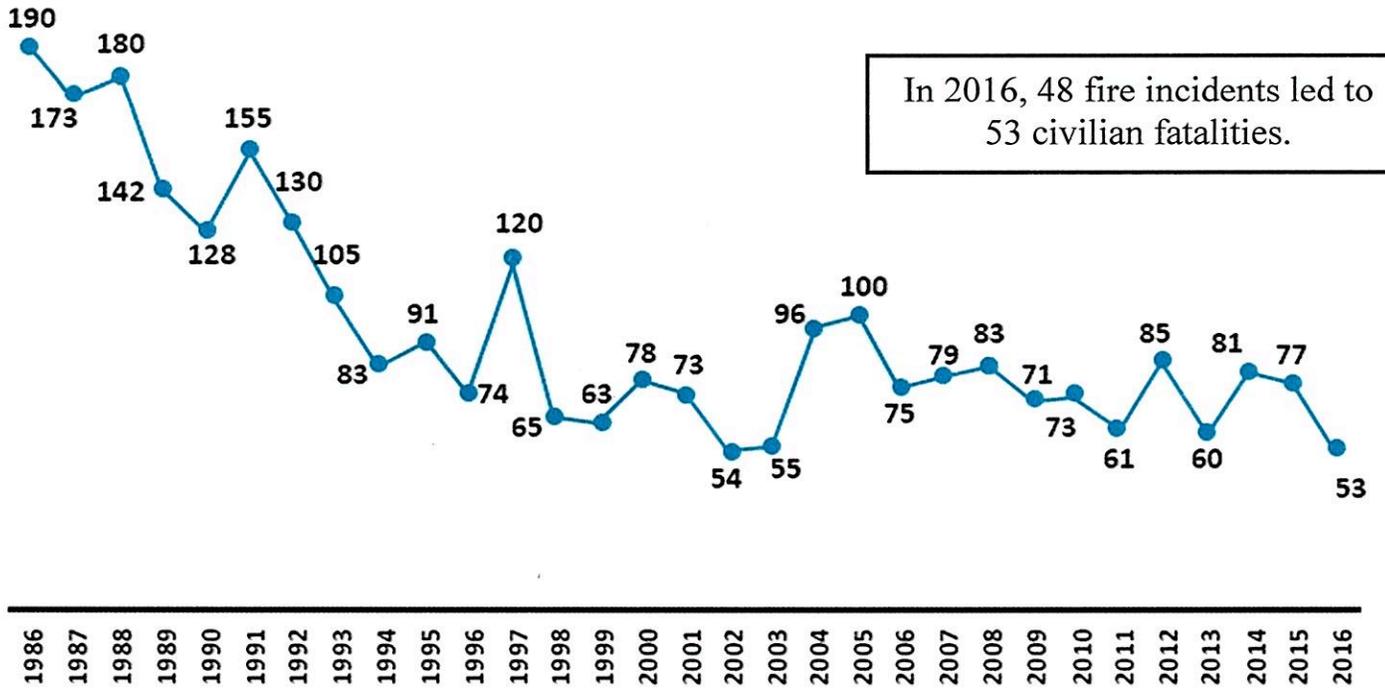
Rutherford, Photo courtesy of Bill & Chris Tompkins

FIREFIGHTER INJURIES

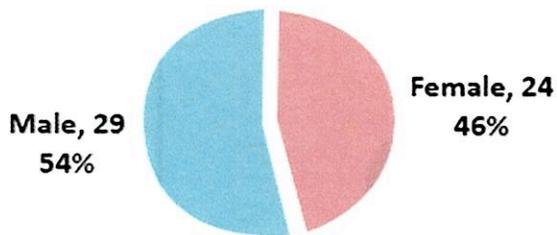


CIVILIAN FIRE FATALITIES

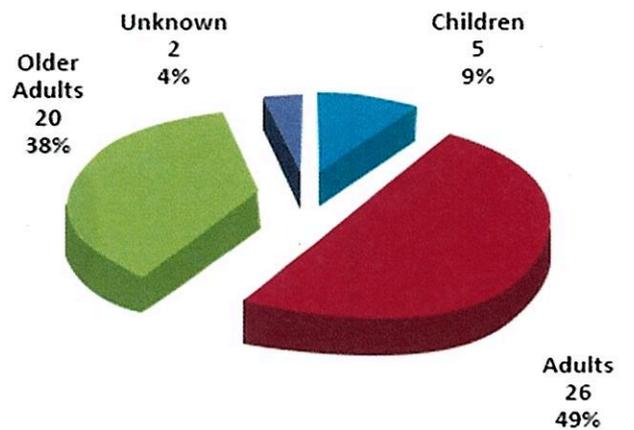
Civilian Fire Fatalities by Year



Civilian Fire Fatalities by Gender

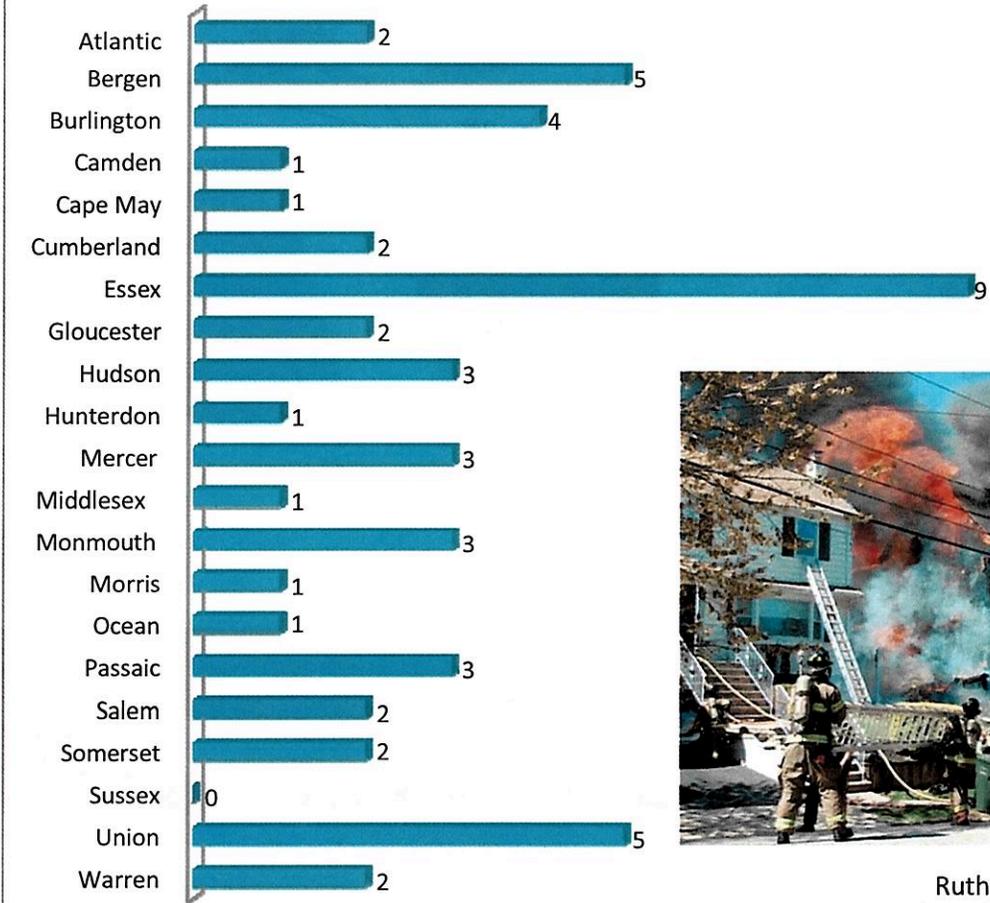


Civilian Fire Fatalities by Age



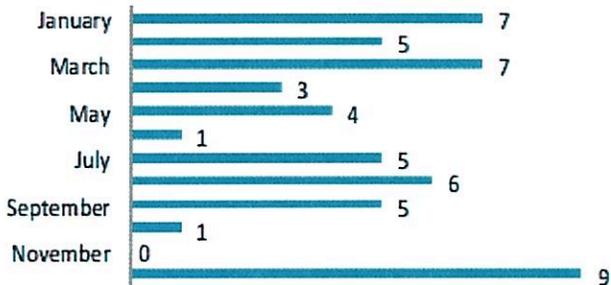
CIVILIAN FIRE FATALITIES

Civilian Fire Fatalities by County

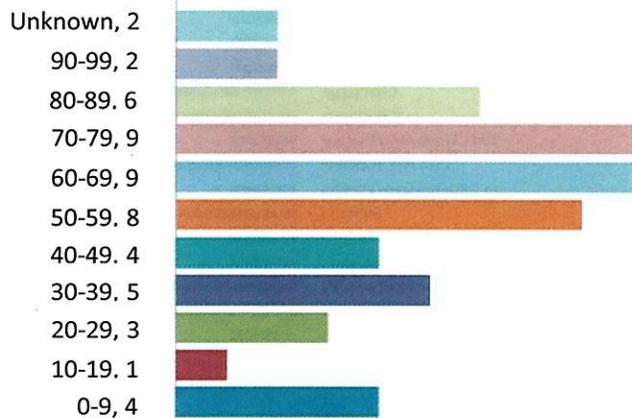


Rutherford 4/20/16
Photo by Chris Tompkins

Civilian Fire Fatalities by Month

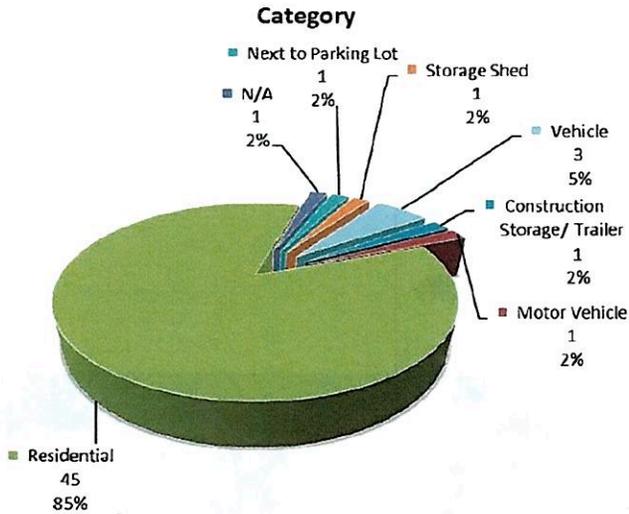


Civilian Fire Fatalities by Age Range

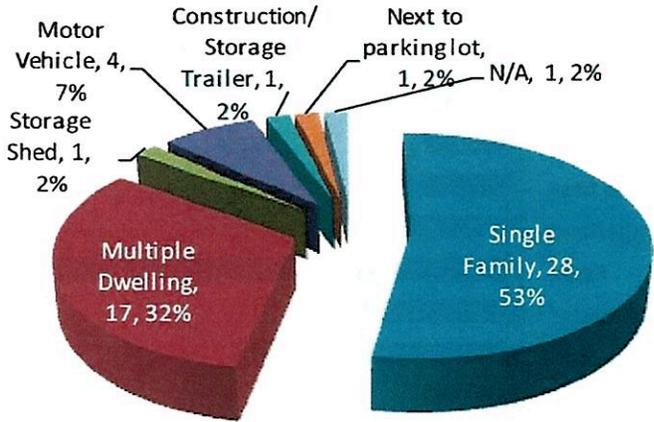


CIVILIAN FIRE FATALITIES

Civilian Fire Fatalities By Property Use



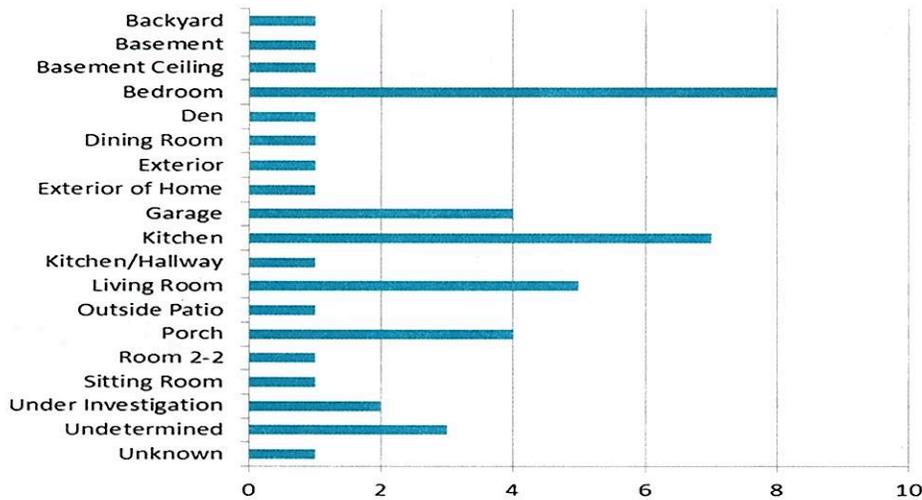
Civilian Fire Fatalities By Specific Property Use



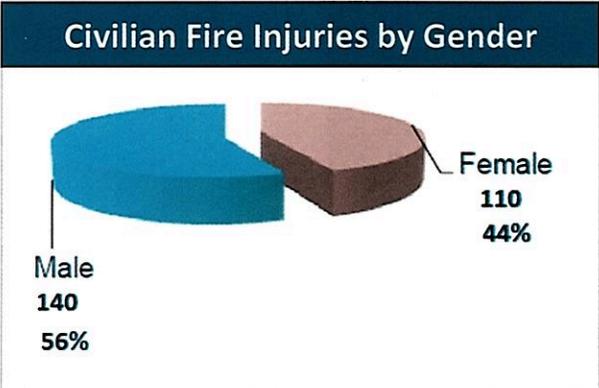
Detector Operation When Present By Residential Property Use Per Fire Incident

Property Use	Detector Did Not Operate	Unknown	Detector Did Operate	Total
Multiple Dwellings	2	6	9	17
Single Family	7	14	6	27
Total	9	20	15	44

Room of Origin Per Fire Incident: Residential Property Uses



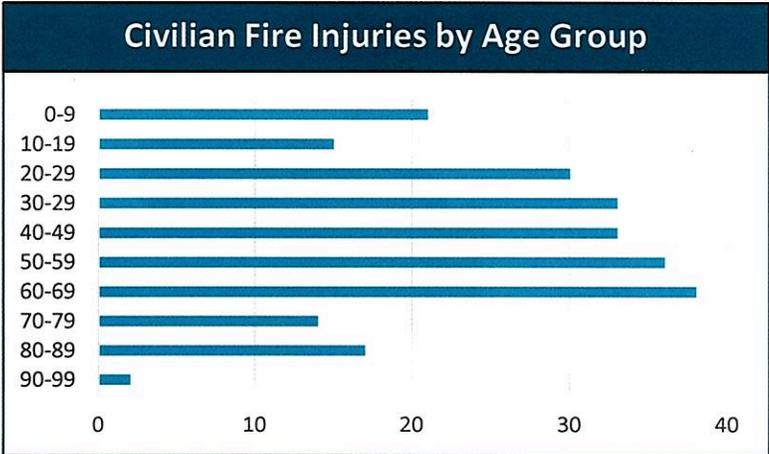
CIVILIAN FIRE INJURIES



Newark, Photo courtesy of Bill & Chris Tompkins



Passaic, Photo courtesy of Bill & Chris Tompkins

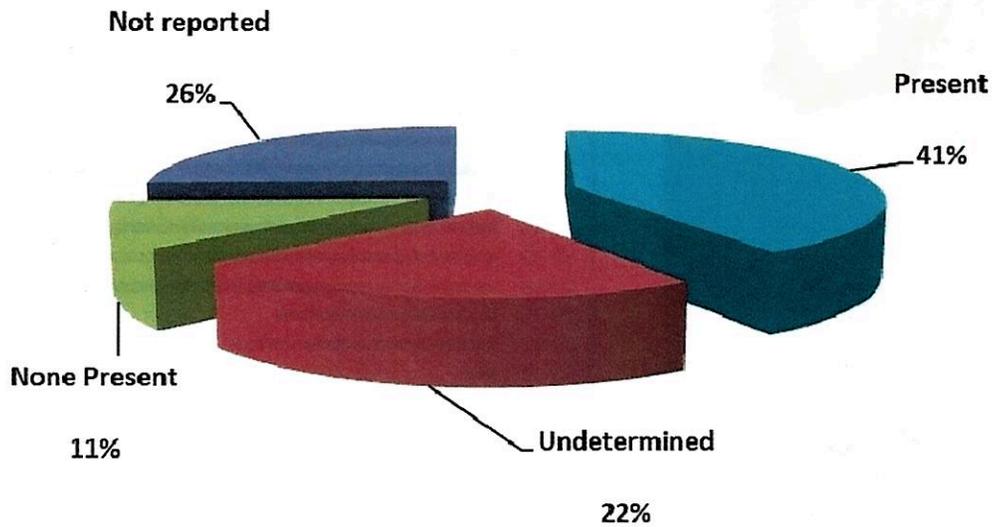


CIVILIAN FIRE INJURIES



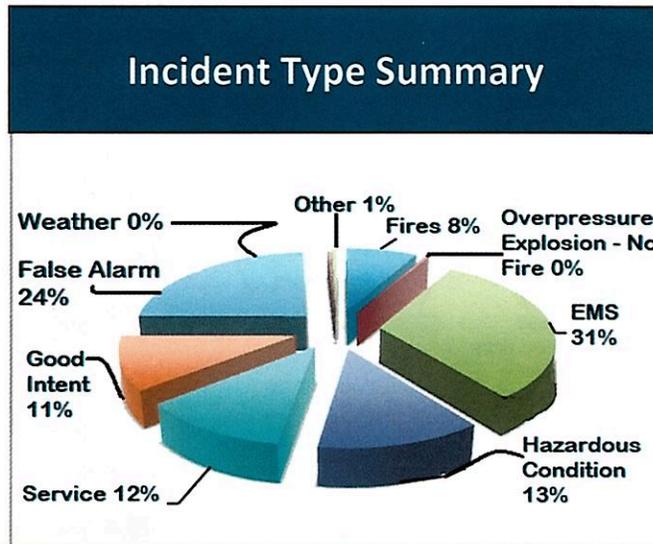
Netcong, Photo by K. Maloney

Presence of Detectors in Residential Property Uses When Civilian Fire Injuries Occurred



FIRE DEPARTMENT RESPONSES

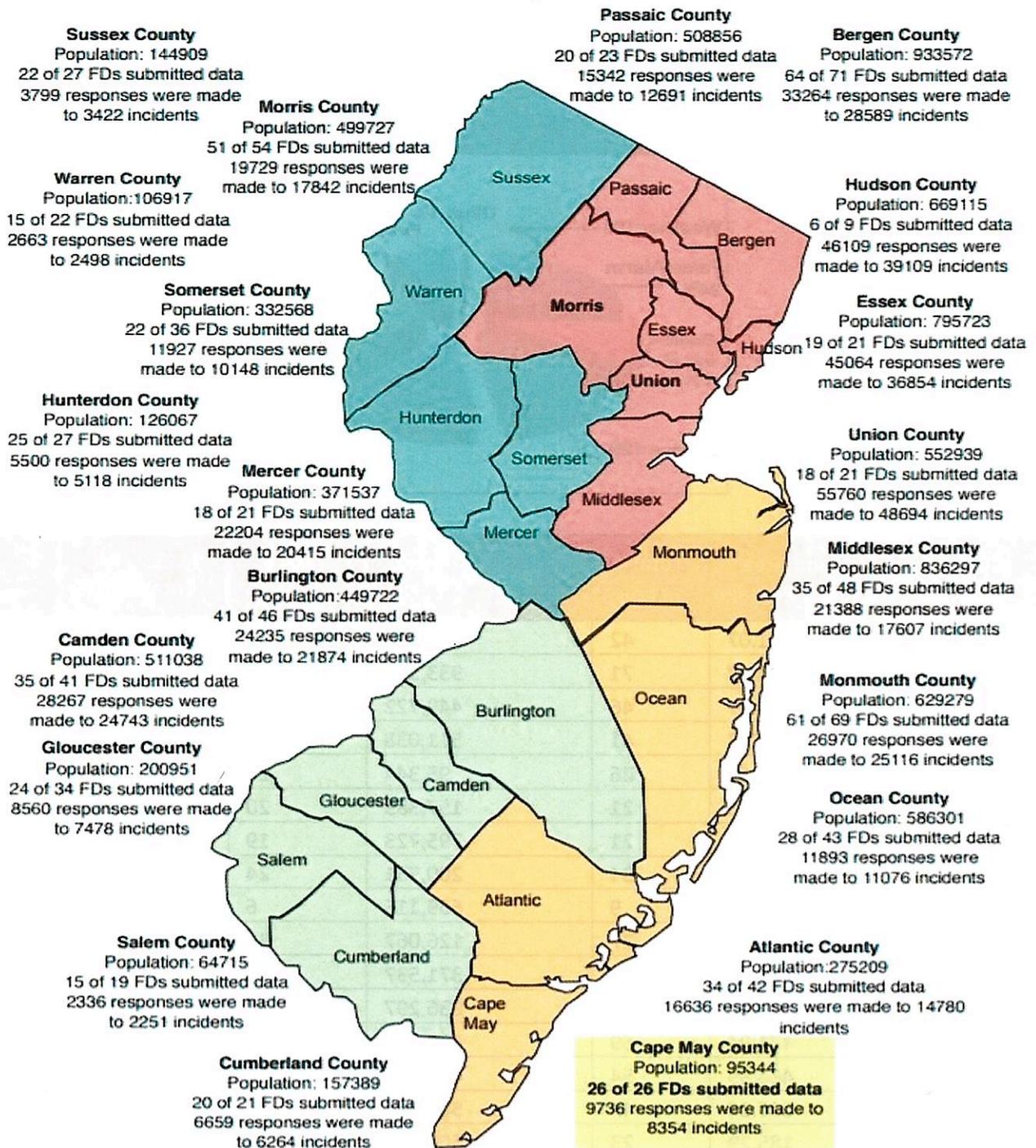
The two charts below represent the number of incidents that fire departments responded to in 2016. Totals include “aid given” and “aid received” incidents.



County Statistics	Land Area Square Footage	Total # of FDs	Population	FDs Reporting	Total Fires	Total Responses
Atlantic	561.07	42	275,209	34	1,206	16,636
Bergen	234.17	71	933,572	64	3,190	33,264
Burlington	804.57	46	449,722	41	2,062	24,235
Camden	222.3	41	511,038	35	2,467	28,267
Cape May	255.19	26	95,344	26	732	9,736
Cumberland	489.3	21	157,389	20	793	6,659
Essex	126.27	21	795,723	19	3,014	45,064
Gloucester	324.72	34	200,951	24	1,278	8,560
Hudson	46.69	9	669,115	6	2,757	46,109
Hunterdon	429.94	27	126,067	25	906	5,500
Mercer	225.93	21	371,537	18	1,937	22,204
Middlesex	309.72	48	836,297	35	2,039	21,388
Monmouth	471.94	69	629,279	61	2,189	26,970
Morris	468.99	54	499,727	51	1,601	19,729
Ocean	636.28	43	586,301	28	1,300	11,893
Passaic	185.29	23	508,856	20	1,429	15,342
Salem	337.88	19	64,715	15	312	2,336
Somerset	304.69	36	332,568	22	886	11,927
Sussex	521.26	27	144,909	22	420	3,799
Union	103.29	21	552,939	18	1,931	55,760
Warren	357.87	22	106,917	15	351	2,663
Total	7,417.36	721	8,848,175	599	32,800	418,041

Percentage of fire departments reporting: 83%

FIRE INCIDENT RESPONSES BY COUNTY



FIRE INCIDENT RESPONSES BY MONTH

Unconfined Fires							
Month	Cultivated Vegetation	Mobile Prop	Natural Vegetation	Outside Rubbish	Special Fire Outside	Structure	Total
January	1	346	95	146	43	853	1,484
February	1	280	119	123	51	715	1,289
March	3	287	644	240	46	651	1,871
April	3	307	896	272	62	810	2,350
May	4	351	367	234	75	649	1,680
June	7	357	918	300	95	652	2,329
July	5	408	368	250	88	815	1,934
August	7	387	454	204	75	530	1,657
September	1	297	469	223	74	563	1,627
October	4	285	187	214	40	437	1,167
November	1	331	419	239	34	624	1,648
December	0	292	161	162	25	709	1,349
Total	37	3,928	5,097	2,607	708	8,008	20,385

Confined Fires							
Month	Chimney Fire	Compactor Malfunction	Cooking Fire	Fuel Burner or Boiler Malfunction	Incinerator Overload	Trash Fire	Total
January	126	3	844	148	3	63	1,187
February	123	5	676	106	5	62	977
March	55	0	798	45	3	87	988
April	50	2	729	42	1	88	912
May	21	3	781	31	1	105	942
June	10	1	670	18	4	84	787
July	6	2	661	11	5	94	779
August	6	1	648	6	5	96	762
September	17	2	642	23	4	81	769
October	26	1	696	77	2	78	880
November	77	3	802	78	2	91	1,053
December	75	4	781	91	4	80	1,035
Total	592	27	8,728	676	39	1,009	11,071

FIRE INCIDENT RESPONSES BY MONTH

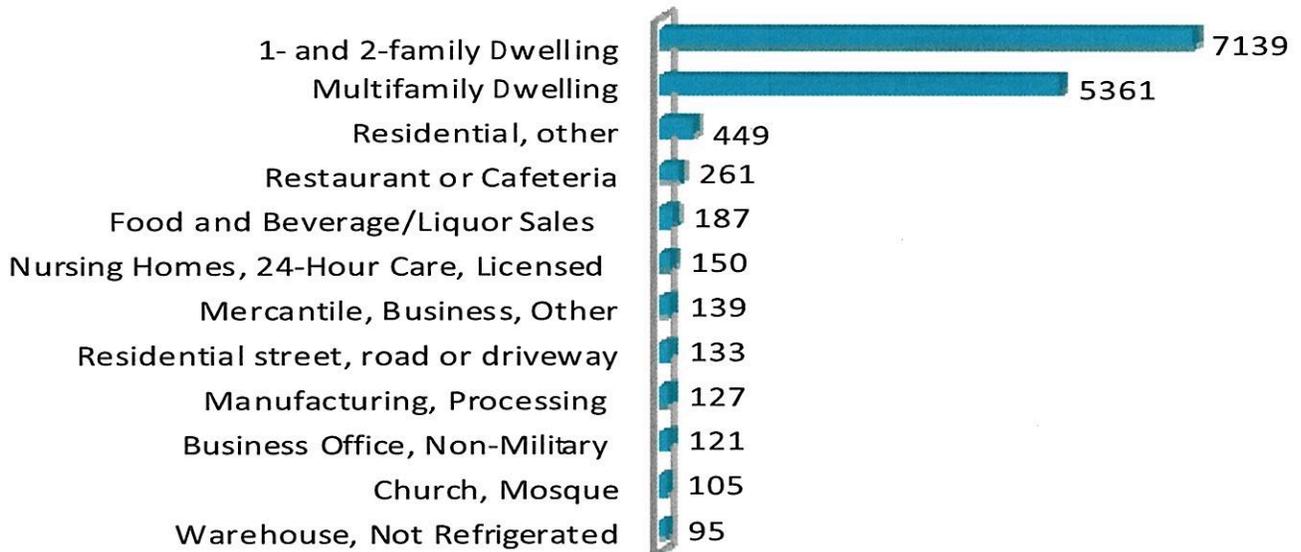
Structure Fires By Specific Incident Type													
Incident Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
100, Fire-Other	102	91	104	130	115	132	139	100	83	90	92	91	1,269
111, Building Fire	804	706	619	756	603	610	776	499	523	405	584	671	7,556
112, Fire in Structure other	47	28	36	45	34	34	31	26	34	21	34	29	399
113, Cooking Fire, Confined	844	701	798	729	781	670	661	648	642	696	804	782	8,756
114, Chimney Fire, Contained	126	123	55	50	21	10	6	6	17	26	77	76	593
115, Incinerator Fire	3	6	0	2	3	1	2	1	2	1	3	4	28
116, Fuel Burner/Boiler	148	109	45	42	31	18	11	6	23	77	78	91	679
117, Commercial Compactor	3	5	3	1	1	4	5	5	4	2	2	4	39
118, Trash/Rubbish Fire In A Structure, no flame damage	63	64	87	88	105	84	94	96	81	78	91	80	1,011
121, Fire in Mobile Home	1	0	3	4	8	2	7	3	1	6	4	11	50
122, Fire in Mobile Home	0	0	1	2	3	2	0	1	4	3	0	0	16
123, Fire in a Portable Building	1	3	2	2	0	2	0	1	1	0	2	1	15
Total	2,142	1,836	1,753	1,851	1,705	1,569	1,732	1,392	1,415	1,405	1,771	1,840	20,411

Fires By Month						
Month	Total Fires	Fire Service Injuries	Civilian Fire Fatalities	Civilian Fire Injuries	Property Loss	Contents Loss
January	2,845	32	8	29	\$6,825,786.00	\$1,754,987.00
February	2,464	38	4	29	\$4,482,855.00	\$1,229,919.00
March	2,922	24	6	33	\$14,592,464.00	\$10,070,179.00
April	3,232	34	3	17	\$6,186,092.00	\$2,582,577.00
May	2,650	20	5	22	\$6,341,189.00	\$2,442,457.00
June	3,047	29	1	20	\$2,795,939.00	\$1,128,015.00
July	2,767	50	5	22	\$5,056,716.00	\$1,593,015.00
August	2,411	30	3	14	\$4,182,995.00	\$2,277,218.00
September	2,364	43	5	14	\$5,752,604.00	\$1,406,315.00
October	2,125	14	4	14	\$3,393,288.00	\$971,588.00
November	2,762	29	3	18	\$5,060,819.00	\$1,541,276.00
December	2,487	48	7	18	\$2,681,704.00	\$771,781.00
Total	32,076 *	391	54	250	\$67,352,451.00	\$27,769,327.00

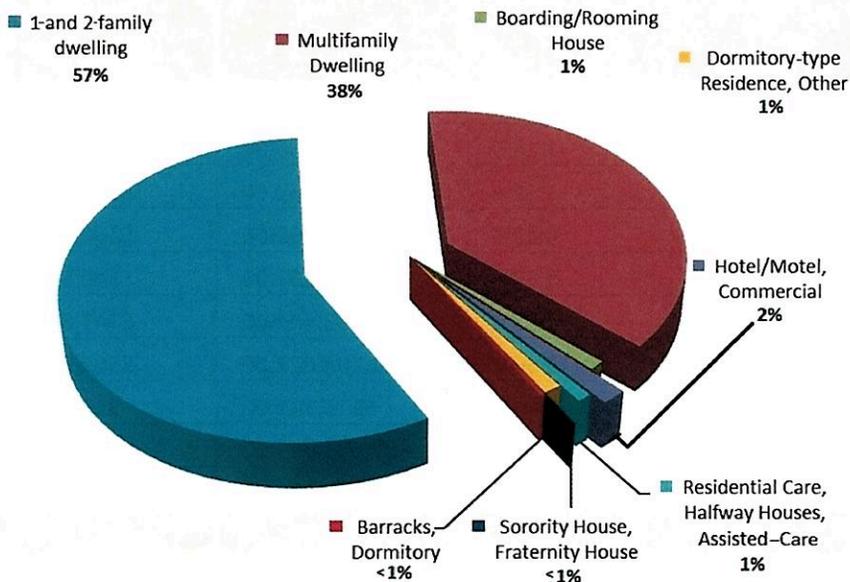
* Numbers obtained through Firehouse Software

FIRE INCIDENTS

Most Frequent Fires By Specific Property Use



Frequency of Residential Fires



Orange, 12/17/16
Photo by Bill Tompkins

FIRE INCIDENTS

Residential Properties by Fire Type				
Code	Description	1-or 2-Family	Multifamily	Residential Properties
111	Building fire	2,712	876	3,701
113	Cooking fire, confined to container	2,940	3,988	7,099
114	Chimney or flue fire, confined to chimney or flue	365	16	407
116	Fuel burner/boiler malfunction, fire confined	392	117	538
118	Trash or rubbish fire contained	236	164	422
142	Brush or brush-and-grass mixture fire	327	95	484
142M	Mulch fire	98	69	168
150	Outside rubbish fire, other	159	49	227
151	Outside rubbish, trash or waste fire	367	96	468
100	Fire, other	374	148	595

Structure Fires By Property Use Category				
Property Use Category	Total Structure Fires	Percentage of Total	Property Loss	Contents Loss
Assembly	871	3.33%	\$11,189,593.00	\$8,105,918.00
Educational	295	1.13%	\$331,656.00	\$36,266.00
Health Care	395	1.51%	\$1,711,162.00	\$552,567.00
Industrial	110	0.42%	\$110,000.00	\$100,000.00
Manufacturing	139	0.53%	\$499,102.00	\$40,502.00
Mercantile	1,271	4.87%	\$2,093,422.00	\$741,866.00
Other, Undetermined, None	4,875	18.66%	\$1,104,022.00	\$502,017.00
Outside or Special property	3,660	14.01%	\$113,111.00	\$10,425.00
Residential	14,109	54.01%	\$39,966,097.00	\$13,217,624.00
Storage	399	1.53%	\$906,051.00	\$1,664,881.00
Total	26,124	100%	\$58,024,216.00	\$24,972,066.00

FIRE INCIDENTS

HEAT SOURCE	CODE	INCIDENTS
OPERATING EQUIPMENT, OTHER SPARK, EMBER, OR FLAME	10	810
OPERATING EQUIPMENT	11	533
RADIATED OR CONDUCTED HEAT	12	860
ELECTRICAL ARCING	13	791
HOT OR SMOLDERING OBJECT	40	470
HEAT, SPARK FROM FRICTION	41	136
MOLTEN, HOT MATERIAL	42	62
HOT EMBER OR ASH	43	635
EXPLOSIVES, FIREWORKS, OTHER	50	8
FIREWORKS	54	24
INCENDIARY DEVICE	56	8
OTHER OPEN FLAME	60	245
CIGARETTE	61	465
PIPE OR CIGAR	62	11
HEAT FROM UNDETERMINED SMOKING MATERIAL	63	56
MATCH	64	127
LIGHTER: CIGAR, CIGARETTE LIGHTER	65	164
CANDLE	66	80
WARNING OR ROAD; FUSE	67	4
BACKFIRE FROM INTERNAL COMBUSTION ENGINE	68	14
FLAME/TORCH USED FOR LIGHTING CHEMICAL, NATURAL HEAT SOURCES	69	68
OTHER	70	21
SUNLIGHT	71	61
SPONTANEOUS COMBUSTION	72	101
LIGHTNING DISCHARGE	73	30
OTHER STATIC DISCHARGE	74	3
HEAT SPREAD FROM ANOTHER FIRE	80	42
HEAT FROM DIRECT FLAME, CONVECTION CURRENTS SPREADING FROM ANOTHER FIRE	81	212
RADIATED HEAT FROM ANOTHER FIRE	82	83
FLYING BRAND, EMBER, SPARK	83	20
CONDUCTED HEAT FROM ANOTHER FIRE	84	29
OTHER HEAT SOURCE	97	43
UNDETERMINED	UU	7786
Total		14,002

AREA OF FIRE ORIGIN	CODE	INCIDENTS
ASSEMBLY	10-19	226
FUNCTION AREAS, OTHER	20	164
BEDROOM FOR LESS THAN 5	21	330
BEDROOM FOR MORE THAN 5	22	21
DINING, CAFETERIA, ETC	23	36
COOKING AREA	24	1586
BATH, LOCKER ROOM, ETC	25	129
LAUNDRY ROOM	26	268
OFFICE	27	29
PERSONAL SERVICE AREA	28	7
TECH PROCESS	30-39	62
STORAGE AREAS	40-49	383
SERVICE AREAS	50-59	112
SERVICE OR EQUIPMENT AREAS	60-69	242
STRUCTURAL AREAS	70-79	842
TRANSPORTATION	80-89	113
OUTSIDE AREAS	90-99	3325
UNDETERMINED		1251



Leonía, 5/28/16

Photo by Bill Tompkins

STRUCTURE FIRE INCIDENTS

Loss By Type of Fire				
Code	Incident Type	Total Structure	Property Loss	Contents Loss
100	Fire, Other	595	\$416,481.00	\$214,208.00
111	Building Fire	3,701	\$39,259,145.00	\$12,866,007.00
112	Fire in Structure Other than a Building	149	\$382,913.00	\$95,413.00
113	Cooking Fire, Confined to Container	7,099	\$101,022.00	\$94,262.00
114	Chimney or Flue Fire, Confined to Chimney or Flue	407	\$36,801.00	\$4,001.00
115	Incinerator Overload or Malfunction, Fire Contained	11	\$8,500.00	\$100.00
116	Fuel Burner/Boiler Malfunction, Fire Contained	538	\$32,103.00	\$30,203.00
117	Commercial Compactor Fire, Confined to Rubbish	13	\$1.00	\$1.00
118	Trash or Rubbish Fire, Contained	422	\$14,153.00	\$561.00
121	Fire in Mobile Home Used As a fixed Residence	22	\$51,500.00	\$11,500.00
122	Fire In a Mobile Home, Camper, Recreational Vehicle	1	\$0.00	\$0.00
123	Fire in a Portable Building, Fixed Location	2	\$1,000.00	\$100.00
Total		12,960	\$40,303,619.00	\$13,316,356.00

Cause of Ignition In Specific Property Uses										
Code		4	0	5	U	3	Blank Information Not Provided By FD	1	2	
category	Property Use Category	Act of Nature	Cause of Ignition Not A Required Entry	Cause Under Investigation	Cause Undetermined After Investigation	Failure of Equipment or Heat Source		Intentional	Unintentional	Total
0	Other, Undetermined, None	2	13	19	44	14	40784	5	79	40960
1	Assembly	8	18	68	104	36	17161	28	234	17657
2	Educational	3	6	10	23	12	12373	9	42	12478
3	Health Care	3	2	25	26	17	18205	6	94	18378
4	Residential	81	209	1129	724	544	194965	306	2910	20868
5	Mercantile	33	32	141	274	102	26360	16	453	27411
6	Industrial	19	2	30	28	13	1788	14	31	1925
7	Manufacturing	10	2	29	9	15	2191	0	36	2292
8	Storage	9	28	104	85	31	9330	2	117	9706
9	Outside or Special property	198	137	804	1617	617	78684	280	2413	84750
	Total	366	449	2359	2934	1401	401841	666	6409	416425

Structure Fires Ignition Causes w/Property Loss						
Code	Cause Of Ignition	Incidents	% of Total	Property Loss	Contents Loss	Total Dollar Loss
0	Cause of Ignition Not A Required Entry	251	1.21%	\$821,507.00	\$303,607.00	\$1,125,114.00
1	Intentional	202	0.98%	\$1,468,973.00	\$409,533.00	\$1,878,506.00
2	Unintentional	2968	14.36%	\$10,983,920.00	\$4,120,250.00	\$15,104,170.00
3	Failure of Equipment or Heat Source	607	2.94%	\$3,527,284.00	\$2,043,968.00	\$5,571,252.00
4	Act Of Nature	57	0.28%	\$1,948,501.00	\$955,501.00	\$2,904,002.00
5	Cause Under Investigation	1294	6.26%	\$20,439,572.00	\$5,708,720.00	\$26,148,292.00
Blank	Information Not Provided By FD	14639	70.81%	\$2,687,867.00	\$1,075,112.00	\$3,762,979.00
U	Cause Undetermined After	655	3.17%	\$16,726,027.00	\$10,714,686.00	\$27,440,713.00
	Total	20673	100.00%	\$58,603,651.00	\$25,331,377.00	\$83,935,028.00

FIRE INCIDENTS - HEAT SOURCE

The Top 20 Heat Sources For Fires

NFIRS Code	Most Frequent Heat Source of Fires	Incidents	Property Loss	Contents Loss	Total Dollar Loss
UU	Undetermined	2,337	\$37,628,635.00	\$17,065,137.00	\$54,693,772.00
12	Radiated or conducted heat from operating equipment	608	\$1,289,360.00	\$1,160,213.00	\$2,449,573.00
10	Heat from operating equipment, other	509	\$2,527,731.00	\$1,641,229.00	\$4,168,960.00
13	Electrical arcing	441	\$2,404,419.00	\$932,899.00	\$3,337,318.00
11	Spark, ember, or flame from operating equipment	354	\$3,550,666.00	\$1,030,666.00	\$4,581,332.00
40	Hot or smoldering object, other	239	\$1,379,725.00	\$345,576.00	\$1,725,301.00
43	Hot ember or ash	216	\$948,763.00	\$172,923.00	\$1,121,686.00
60	Heat from open flame, other	172	\$968,703.00	\$228,403.00	\$1,197,106.00
61	Cigarette	145	\$313,307.00	\$123,556.00	\$436,863.00
66	Candle	74	\$555,001.00	\$193,861.00	\$748,862.00
65	Lighter	58	\$466,511.00	\$94,511.00	\$561,022.00
64	Match	35	\$24,006.00	\$20,605.00	\$44,611.00
42	Molten, hot material	33	\$13,300.00	\$6,200.00	\$19,500.00
41	Heat, spark from friction – Includes overheated tires	31	\$21,000.00	\$5,000.00	\$26,000.00
69	Flame/torch used for lighting	31	\$319,100.00	\$121,000.00	\$440,100.00
72	Spontaneous combustion	26	\$357,900.00	\$116,650.00	\$474,550.00
73	Lightning discharge	17	\$397,500.00	\$200,000.00	\$597,500.00
63	Heat from undetermined smoking material	13	\$12,500.00	\$1,000.00	\$13,500.00
70	Chemical, natural heat sources, other	6	\$3,000.00	\$1,000.00	\$4,000.00
56	Incendiary device	4	\$285,300.00	\$22,750.00	\$308,050.00



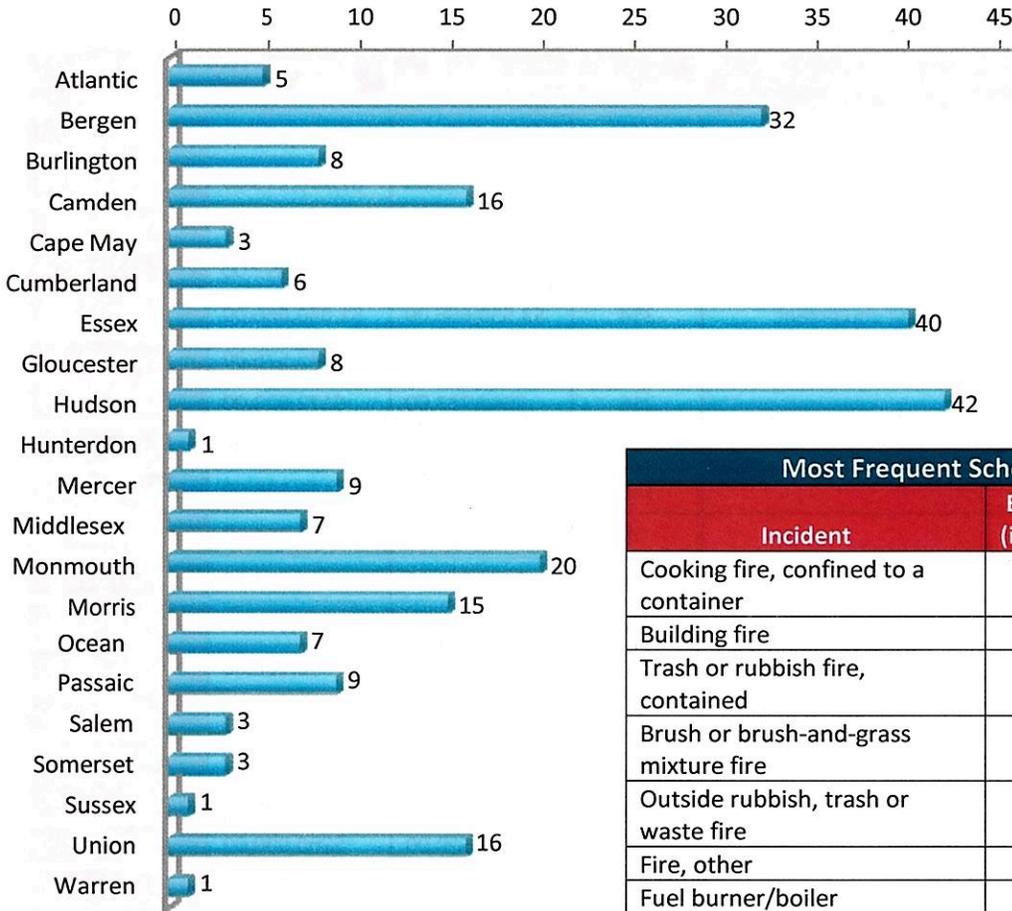
Photo by Mike Nawicki, Jr.

Equipment Involved in Ignition

Code Group	Description	Incidents
100s	Heating, Ventilation and Air Conditioning	339
300s	Shop tools and industrial equipment	61
400s	Commercial and medical equipment	7
500s	Garden tools and agricultural equipment	11
600s	Kitchen and cooking equipment	684
800s	Personal and household equipment	213
NNN	None	667
UUU	Undetermined	69
Blank	Not reported	18,366
Total		20,417

SCHOOL FIRES

All School Fires By County



Most Frequent School Fires by Incident Type

Incident	Elementary (including K)	High School (Jr. High/Middle)	Total
Cooking fire, confined to a container	29	22	51
Building fire	11	20	31
Trash or rubbish fire, contained	11	15	26
Brush or brush-and-grass mixture fire	8	5	13
Outside rubbish, trash or waste fire	10	2	12
Fire, other	6	6	12
Fuel burner/boiler malfunction, fire confined	3	6	9
Dumpster or other outside receptacle fire	2	5	7
Passenger vehicle fire	2	2	4
Outside rubbish fire, other	2	1	3

School Fires By Specific Property Use

Code	Educational Property Use	Incidents	Property Loss	Contents Loss	Total Dollar Loss
215	High school/Junior high school/middle	71	\$315,300.00	\$33,750.00	\$349,050.00
213	Elementary school, including	60	\$11,256.00	\$1,006.00	\$12,262.00
254	Day Care, in commercial property	40	\$0.00	\$0.00	\$0.00
241	Adult Education Center, College	29	\$1,000.00	\$1,010.00	\$2,010.00
211	Preschool	20	\$4,100.00	\$500.00	\$4,600.00
200	Educational, other	14	\$0.00	\$0.00	\$0.00
210	Schools, non-adult, other	12	\$0.00	\$0.00	\$0.00
255	Day care, in residence, licensed	6	\$0.00	\$0.00	\$0.00
Total		252	\$331,656.00	\$36,266.00	\$367,922.00

OTHER PROPERTY USE FIRES

Reported Loss by Property Type				
Incident Type	Incidents	Property Loss	Contents Loss	Total Dollar Loss
Cooking fire, confined to container	103	\$361.00	\$751.00	\$1,112.00
Building fire	25	\$26,000.00	\$7,600.00	\$33,600.00
Fire, Other	16	\$0.00	\$1,000.00	\$1,000.00
Trash or rubbish fire, contained	5	\$0.00	\$0.00	\$0.00
Brush or brush-and-grass mixture fire	4	\$0.00	\$0.00	\$0.00
Mulch fire	4	\$0.00	\$0.00	\$0.00
Outside rubbish, trash or waste fire	1	\$0.00	\$0.00	\$0.00
Passenger vehicle fire	1	\$0.00	\$0.00	\$0.00
Total	159	\$26,361.00	\$9,351.00	\$35,712.00



Greenwich Twp.
Photo by Rich Maxwell

Most Frequent Restaurant Fire Incident Types				
Incident Type	Incidents	Property Loss	Contents Loss	Total Dollar Loss
Cooking fire, confined to container	148	\$2,301.00	\$2,401.00	\$4,702.00
Building fire	82	\$213,101.00	\$109,851.00	\$322,952.00
Brush or brush-and-grass mixture fire	30	\$600.00	\$0.00	\$600.00
Mulch fire	19	\$0.00	\$0.00	\$0.00
Outside rubbish, trash or waste fire	12	\$10,000.00	\$1,500.00	\$11,500.00
Passenger vehicle fire	10	\$8,000.00	\$500.00	\$8,500.00
Fire, Other	10	\$0.00	\$0.00	\$0.00
Trash or rubbish fire, contained	7	\$1.00	\$1.00	\$2.00
Fuel burner/boiler malfunction, fire confined	6	\$1,000.00	\$0.00	\$1,000.00
Fires in structure other than in building	2	\$0.00	\$0.00	\$0.00
Grass fire	2	\$0.00	\$0.00	\$0.00
Outside rubbish fire, Other	2	\$0.00	\$0.00	\$0.00
Total	330	\$235,003.00	\$114,253.00	\$349,256.00

OTHER PROPERTY USE FIRES

Most Frequent Food and Beverage Sales/Grocery Store Fire Incident Types

Incident Type	Incidents	Property Loss	Contents Loss	Total Dollar Loss
Cooking fire, confined to container	90	\$1,000.00	\$2,000.00	\$0.00
Building fire	49	\$364,250.00	\$163,500.00	\$527,750.00
Mulch fire	35	\$5.00	\$5.00	\$10.00
Fire, Other	26	\$9,001.00	\$3,001.00	\$12,002.00
Brush or brush-and-grass mixture fire	18	\$0.00	\$0.00	\$0.00
Outside rubbish, trash or waste fire	12	\$1,000.00	\$0.00	\$1,000.00
Passenger vehicle fire	12	\$16,000.00	\$100.00	\$16,100.00
Trash or rubbish fire, contained	8	\$0.00	\$0.00	\$0.00
Fuel burner/boiler malfunction, fire confined	7	\$1,000.00	\$200.00	\$1,200.00
Grass fire	6	\$1.00	\$1.00	\$2.00
Outside rubbish fire, Other	5	\$0.00	\$0.00	\$0.00
Fires in structure other than in a building	3	\$1,000.00	\$0.00	\$1,000.00
Incinerator overload or malfunction, fire confined	1	\$0.00	\$0.00	\$0.00
Total	272	\$393,257.00	\$168,807.00	\$562,064.00

Most Frequent Business Office Fire Incident Types

Incident Type	Incidents	Property Loss	Contents Loss	Total Dollar Loss
Cooking fire, confined to container	63	\$0.00	\$200.00	\$200.00
Building fire	38	\$395,002.00	\$118,602.00	\$513,604.00
Mulch fire	25	\$200.00	\$0.00	\$200.00
Brush or brush-and-grass mixture fire	23	\$101.00	\$51.00	\$152.00
Passenger vehicle fire	12	\$22,962.00	\$1,000.00	\$23,962.00
Fire, Other	8	\$100.00	\$10,000.00	\$10,100.00
Trash or rubbish fire, contained	8	\$0.00	\$0.00	\$0.00
Outside rubbish, trash or waste fire	5	\$1.00	\$1.00	\$2.00
Fuel burner/boiler malfunction, fire confined	4	\$0.00	\$0.00	\$0.00
Grass fire	4	\$0.00	\$0.00	\$0.00
Outside rubbish fire, Other	4	\$0.00	\$0.00	\$0.00
Total	194	\$418,366.00	\$129,854.00	\$548,220.00

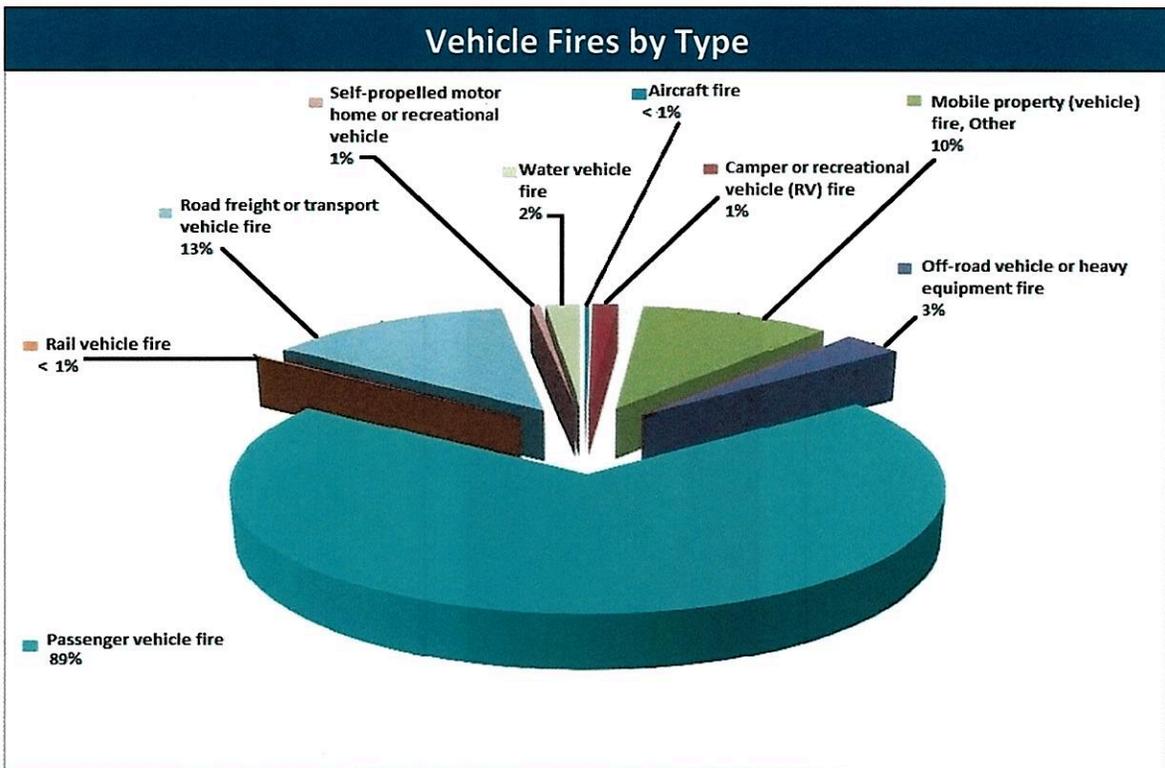


Greenwich Twp.
Photo by Rich Maxwell

VEHICLE FIRES

Passenger Vehicle Fires				
Cause of Ignition	Incidents	Property Loss	Contents Loss	Total Dollar Loss
Cause undetermined after investigation	349	\$10,000.00	\$0.00	\$10,000.00
Unintentional	113	\$174,274.00	\$9,053.00	\$183,327.00
Information not provided by FD	85	\$107,901.00	\$27,251.00	\$135,152.00
Failure of equipment or heat source	58	\$83,463.00	\$7,601.00	\$91,064.00
Cause under investigation	50	\$82,002.00	\$1,502.00	\$83,504.00
Not reported	13	\$15,000.00	\$0.00	\$15,000.00
Intentional	5	\$2,000.00	\$0.00	\$2,000.00
Act of nature	1	\$0.00	\$0.00	\$0.00
Total	674	\$474,640.00	\$45,407.00	\$520,047.00

All Other Vehicle Fires				
Cause of Ignition	Incidents	Property Loss	Contents Loss	Total Dollar Loss
Information not provided by FD	138	\$0.00	\$0.00	\$0.00
Cause undetermined after investigation	14	\$87,201.00	\$1.00	\$87,202.00
Failure of equipment or heat source	13	\$110,000.00	\$1,125.00	\$111,125.00
Unintentional	12	\$0.00	\$0.00	\$0.00
Cause under investigation	11	\$350,000.00	\$25,000.00	\$375,000.00
Not reported	7	\$0.00	\$0.00	\$0.00
Act of nature	2	\$0.00	\$0.00	\$0.00
Total	197	\$547,201.00	\$36,126.00	\$583,327.00



HAZARDOUS CONDITIONS

Gas leaks were the hazardous condition the fire service responded to the most during 2016, with a total of 11,949 incidents reported. The next most responded to was carbon monoxide incidents with a total of 4,590 responses. Below are the total responses to the nine most frequent hazardous conditions in 2016.

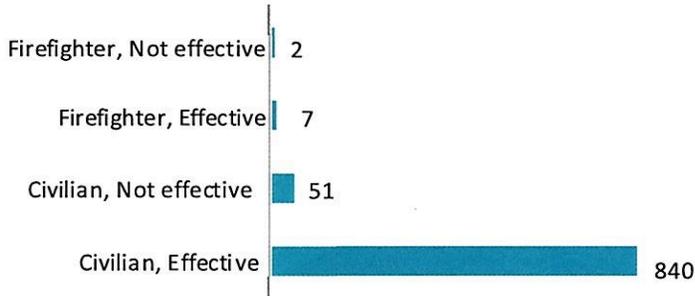
County	Arcing electrical equipment	CO alarm	Electrical wiring, other	Gas leak	Flammable liquid spill	Hazardous Condition, Other	Heat from short circuit	Overheated motor	Power line down
Atlantic	78	111	98	504	24	73	21	0	68
Bergen	203	507	192	1392	74	149	58	128	101
Burlington	172	146	94	550	39	76	51	80	211
Camden	165	275	140	839	73	96	58	110	308
Cape May	85	36	60	405	19	25	17	12	60
Cumberland	49	61	16	120	10	2	11	14	13
Essex	245	560	274	1392	103	197	71	117	353
Gloucester	31	99	37	175	13	28	12	23	44
Hudson	194	527	240	1301	124	558	60	101	276
Hunterdon	38	54	64	135	12	31	9	13	59
Mercer	108	218	52	648	49	67	44	68	61
Middlesex	131	320	124	737	37	98	31	40	189
Monmouth	122	237	188	736	60	138	38	87	195
Morris	61	275	114	685	54	23	19	37	76
Ocean	169	255	57	421	29	49	20	24	81
Passaic	62	268	95	601	31	81	27	40	82
Salem	5	13	8	68	2	0	4	3	22
Somerset	38	164	45	390	23	19	15	22	29
Sussex	14	36	13	56	6	12	8	3	44
Union	140	402	289	744	66	172	45	54	447
Warren	10	26	22	50	10	17	4	9	16
Totals	2120	4590	2222	11949	858	1911	623	985	2735



Warren County College 2/14/16
Photo by Rich Maxwell

SPECIAL STUDIES

Automatic External Defibrillator Special Study— 7000



Hillsborough, Photo by Jim McFadden

Thermal Imaging Camera Special Study - 6000	Total
VALUE 1 - NOT USED	42,741
VALUE 2 - USED TO LOCATE PRIMARY FIRE	1,397
VALUE 3 - USED TO LOCATE FIRE EXTENSION	1,583
VALUE 4 - USED TO CONDUCT PRIMARY SEARCH/NO VICTIMS PRESENT	45
VALUE 5 - USED TO CONDUCT PRIMARY SEARCH/VICTIMS FOUND	11
VALUE 6 - USED TO CONDUCT PRIMARY SEARCH/VICTIMS NOT FOUND	14
VALUE 7 - USED TO SERACH FOR MISSING FIREFIGHTER(S)/FIREFIGHTER	2
VALUE 8 - USED TO SEARCH FOR MISSING FIREFIGHTER(S)/FIREFIGHTER(S) NOT FOUND	1
VALUE 9 - OTHER	10,034

Inspection Teams

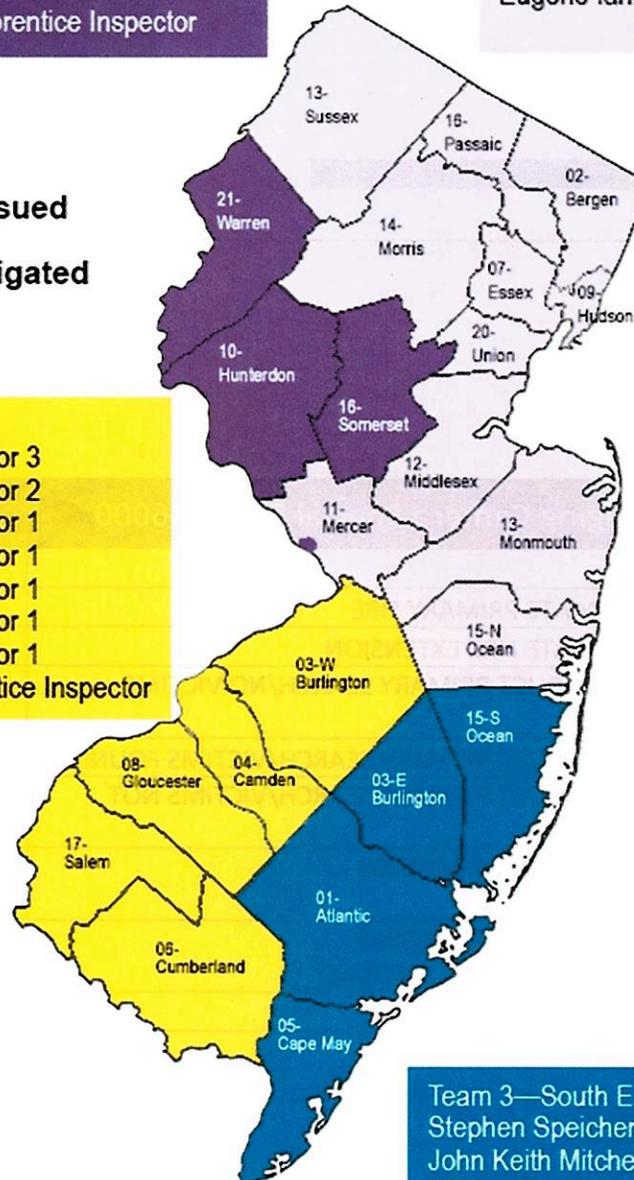
Team 1—North West

Lawrence Wheeler	Inspector 3
David lesser	Inspector 2
Darius Bishop	Inspector 1
Randy Coddington	Inspector 1
Lee Schroeder	Inspector 1
Vincent Campagna	Inspector 1
Anthony Tarinelli	Inspector 1
Christopher Wilt	Inspector 1
Stacy Diaz	Apprentice Inspector

Team 2—North East

James Mudd	Inspector 3
Chad Stanley	Inspector 2
Bennet Berkman	Inspector 1
Dwayne Breeden	Inspector 1
Gerard Cook	Inspector 1
Anthony Massaro	Inspector 1
Rickey Williams	Inspector 1
Eugene landdolo	Inspector 1

17,963 Inspections
17,371 Re-inspections
1,786 Event permits issued
59,569 Violations cited
281 Complaints investigated



Team 4—South West

Robert Lenox	Inspector 3
Chris Reier	Inspector 2
Kristen Bozarth	Inspector 1
Thomas Horner	Inspector 1
Mike Versaggio	Inspector 1
Scott Janssens	Inspector 1
Joseph Del Vecchio	Inspector 1
Isaiah Goldsby	Apprentice Inspector

Team 3—South East

Stephen Speicher	Inspector 3
John Keith Mitchell	Inspector 2
William Brooks	Inspector 1
Michael Johnston	Inspector 1
Charles Prendergast	Inspector 1
Jose Rodriguez	Inspector 1
Thomas Johnson	Inspector 1

FIRE TRAINING

Fire academy locations

DIVISION Certifications in 2016

ProBoard certifications: 6,561 (Includes all * courses)

- * Firefighter I: 1,349
- * Firefighter II: 389
- * Hazardous Materials: Awareness: 1,141
- * Hazardous Materials: Operations: 1,123
- * Fire Officer I: 145
- * Fire Officer II: 35
- * Fire Instructor One: 403
- * Fire Instructor Two: 268

Total Codes Certifications: 1459

Fire Inspector: 809
Fire Official: 650

Total Incident Management Courses: 1464

Incident Management Level 1: 611
Incident Management Level 2: 460
Incident Management Level 3: 393

Total Other Certifications: 569

Fire Officer III: 5
Hazardous Materials: On-Scene Commander: 108
Drill Ground Instructor: 456

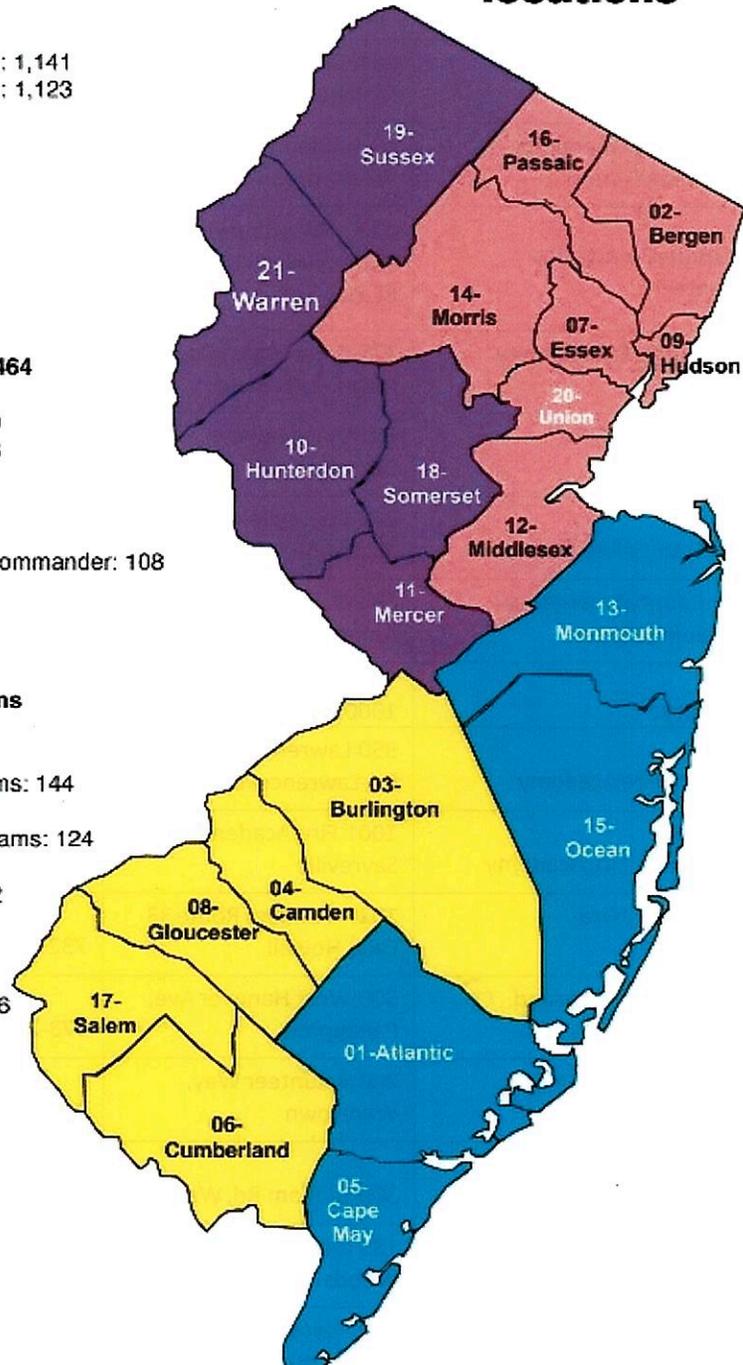
Total Certifications: 10,053

Continuing Education Training Programs

Kean University: 330
Attendance: 7,002
Code Enforcement Programs: 144
Attendance: 3,223
Fire Service Training Programs: 124
Attendance: 2,377
Special Training Events: 62
Attendance: 1,512

Partnered Training Events

Eligible Training Organizations: 106
Training Programs: 320
Individuals Trained: 4,371



NEW JERSEY FIRE ACADEMY LIST

FACILITY NAME	ADDRESS	PHONE	GPS LAT	GPS LON
Atlantic County Fire Training Center	5033 English Creek Ave, Egg Harbor Twp.	609-407-6743	39.401309	-74.631268
Bergen County Law and Public Safety Institute	281 Campgaw Rd, Mahwah	201-818-7800	41.057277	-74.183185
Burlington County Emergency Services Training Center	53 Academy Drive, Westampton	609-702-7157 X3900	40.020047	-74.820598
Camden County Emergency Training Center	420 Woodbury/ Turnersville Rd, Blackwood	856-374-6167	39.787937	-75.073801
Cape May County Public Safety Training Center	175 Crest Haven Rd, Cape May Court House	609-465-2570	39.102786	-74.795038
Cumberland County Fire Training Center	601 Vineland Ave, Bridgeton	856-455-8526	39.467173	-75.152641
Gloucester County Fire Academy	210 County House Rd, Clarksboro	856-423-4127	39.802802	-75.21369
Hunterdon County Emergency Services Training Center	59 Petticoat Lane, Annandale	908-806-5599	40.658198	-74.867611
Kean University	1000 Morris Ave, Union	908-737-0230	40.682754	-74.235577
Mercer County Fire Academy	350 Lawrence Station Rd, Lawrenceville	609-799-3245	40.273181	-74.682262
Middlesex County Fire Academy	1001 Fire Academy Dr., Sayreville	732-727-0008	40.485741	-74.307962
Monmouth County Fire Academy	1027 Business Route 33 East, Howell	732-683-8857	40.229014	-74.201961
Morris County Firefighter and Police Training Academy	500 West Hanover Ave, Parsippany	973-285-2979	40.832844	-74.517794
Ocean County Fire and EMS Training Center	200 Volunteer Way, Waretown	800-723-2088	39.797757	-74.205298
Passaic County Public Safety Academy	300 Oldham Rd, Wayne	973-304-6020	40.931138	-74.201282
Salem County Fire Academy	135 Cemetery Rd, Woodstown	856-769-3500	39.631089	-75.35669
Somerset County Emergency Services Training Academy	402 Roycefield Rd, Hillsborough	908-725-5070	40.530886	-74.635171
Sussex County Fire Academy	114 Morris Turnpike, Newton	973-948-7897	41.123008	-74.755579
Union County Fire Academy	710 Lower Rd, Linden		40.612691	-74.234091
Warren County Fire Academy	1024 Route 57, Washington	908-835-2048	40.743559	-75.021086

INCIDENT TYPE CODES

FIRE. Includes fires out on arrival and gas vapor explosions (with extremely rapid combustion).

Structure fire

- 111 Building fire. Excludes confined fires (113–118).
- 112 Fire in structure, other than in a building. Included are fires on or in piers, quays, or pilings; tunnels or underground connecting structures; bridges, trestles, or overhead elevated structures; transformers, power or utility vaults or equipment; fences; and tents.
- 113 Cooking fire involving the contents of a cooking vessel without fire extension beyond the vessel.
- 114 Chimney or flue fire originating in and confined to a chimney or flue. Excludes fires that extend beyond the chimney (111 or 112).
- 115 Incinerator overload or malfunction, but flames cause no damage outside the incinerator.
- 116 Fuel burner/boiler, delayed ignition or malfunction, where flames cause no damage outside the fire box.
- 117 Commercial compactor fire, confined to contents of compactor. Excluded are home trash compactors.
- 118 Trash or rubbish fire in a structure, with no flame damage to structure or its contents.

Fire in mobile property used as a fixed structure. Includes mobile homes, motor homes, camping trailers.

- 121 Fire in mobile home used as a fixed residence. Includes mobile homes when not in transit and used as a structure for residential purposes; and manufactured homes built on a permanent chassis.
- 122 Fire in a motor home, camper, or recreational vehicle when used as a structure. Includes motor homes when not in transit and used as a structure for residential purposes.
- 123 Fire in a portable building, when used at a fixed location. Includes portable buildings used for commerce, industry, or education and trailers used for commercial purposes.
- 123A Fire in a mobile building used as an amusement ride. (Enclosed rides/amusements on wheels in a fixed location, such as dark rides or funhouses, mounted on a trailer.)
- 120 Fire in mobile property used as a fixed structure, other.

Mobile property (vehicle) fire. Excludes mobile properties used as a structure (120 series). If a vehicle fire occurs on a bridge and does not damage the bridge, it should be classified as a vehicle fire.

- 131 Passenger vehicle fire. Includes any motorized passenger vehicle, other than a motor home (136) (e.g., pickup trucks, sport utility vehicles, buses).
- 132 Road freight or transport vehicle fire. Includes commercial freight hauling vehicles and contractor vans or trucks. Examples are moving trucks, plumber vans, and delivery trucks.
- 133 Rail vehicle fire. Includes all rail cars, including intermodal containers and passenger cars that are mounted on a rail car.
- 134 Water vehicle fire. Includes boats, barges, hovercraft, and all other vehicles designed for navigation on water.
- 135 Aircraft fire. Includes fires originating in or on an aircraft, regardless of use.
- 136 Self-propelled motor home or recreational vehicle. Includes only self-propelled motor homes or recreational vehicles when being used in a transport mode. Excludes those used for normal residential use (122).
- 137 Camper or recreational vehicle (RV) fire, not self-propelled. Includes trailers. Excludes RVs on blocks or used regularly as a fixed building (122) and the vehicle towing the camper or RV or the campers mounted on pickups (131).
- 137A Open amusement ride on wheels/trailer. (Fire in an open amusement ride that is on wheels or trailer mounted, used in a fixed location.)
- 138 Off-road vehicle or heavy equipment fire. Includes dirt bikes, specialty off-road vehicles, earth-moving equipment (bulldozers), and farm equipment.
- 130 Mobile property (vehicle) fire, other.

Natural vegetation fire. Excludes crops or plants under cultivation (see 170 series).

- 141 Forest, woods, or wildland fire. Includes fires involving vegetative fuels, other than prescribed fire (632), that occur in an area in which development is essentially nonexistent, except for roads, railroads, power lines, and the like. Also includes forests managed for lumber production and fires involving elevated fuels such as tree branches and crowns. Excludes areas in cultivation for agricultural purposes such as tree farms or crops (17x series).
- 142 Brush or brush-and-grass mixture fire. Includes ground fuels lying on or immediately above the ground such as duff, roots, dead leaves, fine dead wood, and downed logs.
- 142M Mulch fire.
- 143 Grass fire. Includes fire confined to area characterized by grass ground cover, with little or no involvement of other ground fuels; otherwise, see 142.
- 140 Natural vegetation fire, other.

INCIDENT TYPE CODES

Outside rubbish fire. Includes all rubbish fires outside a structure or vehicle.

- 151 Outside rubbish, trash, or waste fire not included in 152–155. Excludes outside rubbish fires in a container or receptacle (154).
- 152 Garbage dump or sanitary landfill fire.
- 153 Construction or demolition landfill fire.
- 154 Dumpster or other outside trash receptacle fire. Includes waste material from manufacturing or other production processes. Excludes materials that are not rubbish or have salvage value (161 or 162).
- 155 Outside stationary compactor or compacted trash fire. Includes fires where the only material burning is rubbish. Excludes fires where the compactor is damaged (162).
- 150 Outside rubbish fire, other.

Special outside fire. Includes outside fires with definable value. Excludes crops and orchards (170 series).

- 161 Outside storage fire on residential or commercial/industrial property, not rubbish. Includes recyclable materials at drop off points.
- 162 Outside equipment fire. Includes outside trash compactors, outside HVAC units, and irrigation pumps. Excludes special structures (110 series) and mobile construction equipment (130 series).
- 163 Outside gas or vapor combustion explosion without sustained fire.
- 164 Outside mailbox fire. Includes drop off boxes for delivery services.
- 160 Special outside fire, other.

Cultivated vegetation, crop fire

- 171 Cultivated grain or crop fire. Includes fires involving corn, wheat, soybeans, rice, and other plants before harvest.
- 172 Cultivated orchard or vineyard fire.
- 173 Cultivated trees or nursery stock fire. Includes fires involving Christmas tree farms and plants under cultivation for transport off-site for ornamental use.
- 170 Cultivated vegetation, crop fire, other.

Fire, other

- 100 Fire, other.

OVERPRESSURE, RUPTURE, EXPLOSION, OVERHEAT (NO FIRE). Excludes steam mistaken for smoke.

Overpressure rupture from steam (no ensuing fire)

- 211 Overpressure rupture of steam pipe or pipeline.
- 212 Overpressure rupture of steam boiler.
- 213 Overpressure rupture of pressure or process vessel from steam.
- 210 Overpressure rupture from steam, other.

Overpressure rupture from air or gas (no ensuing fire). Excludes steam or water vapor.

- 221 Overpressure rupture of air or gas pipe or pipeline.
- 222 Overpressure rupture of boiler from air or gas. Excludes steam-related overpressure ruptures.
- 223 Overpressure rupture of pressure or process vessel from air or gas, not steam.
- 220 Overpressure rupture from air or gas, other.

Overpressure rupture from chemical reaction (no ensuing fire)

- 231 Overpressure rupture of pressure or process vessel from a chemical reaction.

Explosion (no fire)

- 241 Munitions or bomb explosion (no fire). Includes explosions involving military ordnance, dynamite, nitroglycerin, plastic explosives, propellants, and similar agents with a UN classification 1.1 or 1.3. Includes primary and secondary high explosives.
- 242 Blasting agent explosion (no fire). Includes ammonium nitrate and fuel oil (ANFO) mixtures and explosives with a UN Classification 1.5 (also known as blasting agents).
- 243 Fireworks explosion (no fire). Includes all classes of fireworks.
- 240 Explosion (no fire), other.

Excessive heat, scorch burns with no ignition

- 251 Excessive heat, overheat scorch burns with no ignition. Excludes lightning strikes with no ensuing fire (814).

Overpressure rupture, explosion, overheat, other

- 200 Overpressure rupture, explosion, overheat, other.

INCIDENT TYPE CODES

RESCUE AND EMERGENCY MEDICAL SERVICE INCIDENT

Medical assist

311 Medical assist. Includes incidents where medical assistance is provided to another group/agency that has primary EMS responsibility. (Example, providing assistance to another agency-assisting EMS with moving a heavy patient.)

Emergency medical service incident

321 EMS call. Includes calls when the patient refuses treatment. Excludes vehicle accident with injury (322) and pedestrian struck (323).

322 Motor vehicle accident with injuries. Includes collision with other vehicle, fixed objects, or loss of control resulting in leaving the roadway.

323 Motor vehicle/pedestrian accident (MV Ped). Includes any motor vehicle accident involving a pedestrian injury.

324 Motor vehicle accident with no injuries.

Lock-In

331 Lock-in. Includes opening locked vehicles and gaining entry to locked areas for access by caretakers or rescuers, such as a child locked in a bathroom. Excludes lock-outs(511).

Search for lost person

341 Search for person on land. Includes lost hikers and children, even where there is an incidental search of local bodies of water, such as a creek or river.

342 Search for person in water. Includes shoreline searches incidental to a reported drowning call.

343 Search for person underground. Includes caves, mines, tunnels, and the like.

340 Search for lost person, other.

Extrication, rescue

351 Extrication of victim(s) from building or structure, such as a building collapse. Excludes high-angle rescue(356).

352 Extrication of victim(s) from vehicle. Includes rescues from vehicles hanging off a bridge or cliff.

353 Removal of victim(s) from stalled elevator.

354 Trench/below-grade rescue.

355 Confined space rescue. Includes rescues from the interiors of tanks, including areas with potential for hazardous atmospheres such as silos, wells, and tunnels.

356 High-angle rescue. Includes rope rescue and rescues off of structures.

357 Extrication of victim(s) from machinery. Includes extrication from farm or industrial equipment.

350 Extrication, rescue, other.

Water and ice-related rescue

361 Swimming/recreational water areas rescue. Includes pools and ponds. Excludes ice rescue (362).

362 Ice rescue. Includes only cases where victim is stranded on ice or has fallen through ice.

363 Swift-water rescue. Includes flash flood conditions.

364 Surf rescue.

365 Watercraft rescue. Excludes rescues near the shore and in swimming/recreational areas (361). Includes people falling overboard at a significant distance from land.

360 Water and ice-related rescue, other.

Electrical rescue

371 Electrocutation or potential electrocution. Excludes people trapped by power lines (372).

372 Trapped by power lines. Includes people trapped by downed or dangling power lines or other energized electrical equipment.

370 Electrical rescue, other.

Rescue or EMS standby

381 Rescue or EMS standby for hazardous conditions. Excludes aircraft standby (462).

Rescue, emergency medical service (EMS) incident, other

300 Rescue and EMS incident, other.

INCIDENT TYPE CODES

HAZARDOUS CONDITION (NOFIRE)

Combustible/flammable spills and leaks

- 411** Gasoline or other flammable liquid spill (flash point below 100 degrees F at standard temperature and pressure (Class I)).
- 412** Gas leak (natural gas or LPG). Excludes gas odors with no source found(671).
- 413** Oil or other combustible liquid spill (flash point at or above 100 degrees F at standard temperature and pressure (Class II or III)).
- 410** Combustible and flammable gas or liquid spills or leaks other.

Chemical release, reaction, or toxic condition

- 421** Chemical hazard (no spill or leak). Includes the potential for spills or leaks.
- 422** Chemical spill or leak. Includes unstable, reactive, explosive material.
- 423** Refrigeration leak. Includes ammonia.
- 424** Carbon monoxide incident. Excludes incidents with nothing found (736 or 746).
- 420** Toxic chemical condition, other.

Radioactive condition

- 431** Radiation leak, radioactive material. Includes release of radiation due to breaching of container or other accidental release.
- 430** Radioactive condition, other.

Electrical wiring/equipment problem

- 441** Heat from short circuit (wiring), defective or worn insulation.
- 442** Overheated motor or wiring.
- 443** Breakdown of light ballast.
- 444** Power line down. Excludes people trapped by downed power lines(372).
- 445** Arcing, shorted electrical equipment.
- 440** Electrical wiring/equipment problem, other.

Biological hazard

- 451** Biological hazard, confirmed or suspected.

Accident, potential accident

- 461** Building or structure weakened or collapsed. Excludes incidents where people are trapped(351).
- 462** Aircraft standby. Includes routine standby for takeoff and landing as well as emergency alerts at airports.
- 463** Vehicle accident, general cleanup. Includes incidents where FD is dispatched after the accident to clear away debris. Excludes extrication from vehicle (352) and flammable liquid spills (411 or 413).
- 460** Accident, potential accident, other.

Explosive, bomb removal

- 471** Explosive, bomb removal. Includes disarming, rendering safe, and disposing of bombs or suspected devices. Excludes bomb scare (721).

Attempted burning, illegal action

- 481** Attempt to burn. Includes situations in which incendiary devices fail to function.
- 482** Threat to burn. Includes verbal threats and persons threatening to set themselves on fire. Excludes an attempted burning(481).
- 480** Attempted burning, illegal action, other.

Hazardous condition, other

- 400** Hazardous condition (no fire), other.

INCIDENT TYPE CODES

SERVICE CALL

Person in distress

- 511 Lock-out. Includes efforts to remove keys from locked vehicles. Excludes lock-ins(331).
- 512 Ring or jewelry removal, without transport to hospital. Excludes persons injured(321).
- 510 Person in distress, other.

Water problem

- 521 Water (not people) evacuation. Includes the removal of water from basements. Excludes water rescues (360series).
- 522 Water or steam leak. Includes open hydrant. Excludes overpressure ruptures (211).
- 520 Water problem, other.

Smoke, odor problem

- 531 Smoke or odor removal. Excludes the removal of any hazardous materials.

Animal problem or rescue

- 541 Animal problem. Includes persons trapped by an animal or an animal on the loose.
- 542 Animal rescue.
- 540 Animal problem or rescue, other.

Public service assistance

- 551 Assist police or other governmental agency. Includes forcible entry and the provision of lighting.
- 552 Police matter. Includes incidents where FD is called to a scene that should be handled by the police.
- 553 Public service. Excludes service to governmental agencies (551 or 552).
- 554 Assist invalid. Includes incidents where the invalid calls the FD for routine help, such as assisting a person in returning to bed or chair, with no transport or medical treatment given.
- 555 Defective elevator, no occupants.
- 550 Public service assistance, other.

Unauthorized burning

- 561 Unauthorized burning. Includes fires that are under control and not endangering property.

Cover assignment, standby at fire station, move-up

- 571 Cover assignment, assist other fire agency such as standby at a fire station or move-up.

Service call, other

- 500 Service call, other.

GOOD INTENT CALL

Dispatched and canceled en route

- 611 Dispatched and canceled en route. Incident cleared or canceled prior to arrival of the responding unit. If a unit arrives on the scene, fill out the applicable code.

Wrong location, no emergency found

- 621 Wrong location. Excludes malicious false alarms (710 series).
- 622 No incident found on arrival at dispatch address.

Controlled burning

- 631 Authorized controlled burning. Includes fires that are agricultural in nature and managed by the property owner. Excludes unauthorized controlled burning (561) and prescribed fires(632).
- 632 Prescribed fire. Includes fires ignited by management actions to meet specific objectives and have a written, approved prescribed fire plan prior to ignition. Excludes authorized controlled burning(631).

Vicinity alarm

- 641 Vicinity alarm (incident in other location). For use only when an erroneous report is received for a legitimate incident. Includes separate locations reported for an actual fire and multiple boxes pulled for one fire.

INCIDENT TYPE CODES

Steam, other gas mistaken for smoke

651 Smoke scare, odor of smoke, not steam (652). Excludes gas scares or odors of gas(671).

652 Steam, vapor, fog, or dust thought to be smoke.

653 Smoke from barbecue or tar kettle (no hostile fire).

650 Steam, other gas mistaken for smoke, other.

EMS call where party has been transported

661 EMS call where injured party has been transported by a non-fire service agency or left the scene prior to arrival.

HazMat release investigation w/no HazMat found

671 Hazardous material release investigation with no hazardous condition found. Includes odor of gas with no leak/gas found.

672 Biological hazard investigation with no hazardous condition found.

Good intent call, other

600 Good intent call, other.

FALSE ALARM AND FALSECALL

Malicious, mischievous false alarm

711 Municipal alarm system, malicious false alarm. Includes alarms transmitted on street fire alarm boxes.

712 Direct tie to fire department, malicious false alarm. Includes malicious alarms transmitted via fire alarm system directly tied to the fire department, not via dialed telephone.

713 Telephone, malicious false alarm. Includes false alarms transmitted via the public telephone network using the local emergency reporting number of the fire department or another emergency service agency.

714 Central station, malicious false alarm. Includes malicious false alarms via a central-station-monitored fire alarm system.

715 Local alarm system, malicious false alarm. Includes malicious false alarms reported via telephone or other means as a result of activation of a local fire alarm system.

710 Malicious, mischievous false alarm, other.

Bomb scare

721 Bomb scare (no bomb).

System or detector malfunction. Includes improper performance of fire alarm system that is not a result of a proper system response to environmental stimuli such as smoke or high heat conditions.

731 Sprinkler activated due to the failure or malfunction of the sprinkler system. Includes any failure of sprinkler equipment that leads to sprinkler activation with no fire present. Excludes unintentional operation caused by damage to the sprinkler system (740 series).

732 Extinguishing system activation due to malfunction.

733 Smoke detector activation due to malfunction.

734 Heat detector activation due to malfunction.

735 Alarm system activation due to malfunction.

736 Carbon monoxide detector activation due to malfunction.

730 System or detector malfunction, other.

Unintentional system or detector operation (no fire). Includes tripping an interior device accidentally.

741 Sprinkler activation (no fire), unintentional. Includes testing the sprinkler system without fire department notification.

742 Extinguishing system activation. Includes testing the extinguishing system without fire department notification.

743 Smoke detector activation (no fire), unintentional. Includes proper system responses to environmental stimuli such as non-hostile smoke.

744 Detector activation (no fire), unintentional. A result of a proper system response to environmental stimuli such as high heat conditions

745 Alarm system activation (no fire), unintentional.

746 Carbon monoxide detector activation (no carbon monoxide detected). Excludes carbon monoxide detector malfunction.

740 Unintentional transmission of alarm, other.

INCIDENT TYPE CODES

Biohazard scare

751 Biological hazard, malicious falsereport.

False alarm and false call ,other

700 False alarm or false call, other.

SEVERE WEATHER AND NATURALDISASTER

811 Earthquake assessment, no rescue or other service rendered.

812 Flood assessment. Excludes water rescue (360series).

813 Wind storm. Includes tornado, hurricane, or cyclone assessment. No other service rendered.

814 Lightning strike (no fire). Includes investigation.

815 Severe weather or natural disasterstandby.

800 Severe weather or natural disaster, other.

SPECIAL INCIDENTTYPE

Citizen complaint

911 Citizen's complaint. Includes reports of code or ordinance violation.

Special type of incident, other

900 Special type of incident, other.

