

Community Link Program

Public Affairs Program • Maxwell School of Citizenship and Public Affairs • Syracuse University

2017 SYRACUSE FIRE INCIDENT DATA ANALYSIS

A Study Conducted for the Syracuse Fire Department

By Jack Schlosser

November 2017

2017 Syracuse Fire Incident Data Analysis By Jack Schlosser November 2017

EXECUTIVE SUMMARY

<u>Introduction:</u> This study analyzes fire incident data in Syracuse from January 2017 to September 2017 to discover trends in fire incidents. Results from this report will be presented to the Syracuse Fire Department. Information collected in report will be used to develop policies to improve fire department response strategies.

Methods: The data used in this report were collected from the Syracuse National Fire Incident Reporting System database (NFIRS). Syracuse Fire Department responders automatically submit fire incident data with for each emergency call. From the sample of 13,570 reported emergency incidents, 3877 (29%) relevant fire-related incidents were analyzed. Of these incidents, only 585 (15%) were fires needing extinguishment. Incident reports could be incorrectly filed, indicating that some reports used in this study may inaccurately reflect their relative incident.

Findings:

- 1. 56% of all fire incident reports were false calls. (n=3877)
- 2. 74% of all false call fire incidents were unintentional alarms. (n=2161)
- 3. 62% of all fire incidents took place between noon and midnight. (n=3,877)
- 4. 69% of fires needing extinguishment were between noon and midnight. (n=585)
- 5. 60% of all false calls were between noon and midnight. (n=2,161)
- 6. The highest proportion of fires needing extinguishment for any hour in the evening was 8-9 PM at 22%.
- 7. The highest proportion of false calls for any hour in the evening was 6-7 PM at 55%.

- 8. 72% of all fire incidents took 3 minutes or longer to respond. (n=3,520)
- 9. Inner Syracuse has the fastest average fire incident response time at 2.84 minutes. (n=3,418)
- 10. The highest proportion of false calls for any zip code was 13210 (University Area) at 75%. (n=3,803)
- 11. The highest proportion of fires needing extinguishment for any zip code was 13206 (Eastside Syracuse) at 22%. (n=3,803)
- 12. The highest proportion of good intent calls for any zip code was 13208 (Northside Syracuse) at 43%. (n=3,803)
- 13. 62% of fire incident reports with a location were from residential property. (n=3,539)
- 14. The highest proportion of fires needing extinguishment for any property type was outside or special at 29%. (n=3,539)
- 15. The highest proportion of false calls for any property type was educational property at 92%. (n=3,539)
- 16. The highest proportion of fires needing extinguishment for any fire station was station 2 and station 5 at 20%. (n=3,549)
- 17. The highest proportion of false calls for any fire station was station 10 at 70%. (n=3,549)

INTRODUCTION

This study analyzes fire incident data in Onondaga County from January 2017 to September 2017 to discover trends in fire incidents. The fire incidents used in this report include all incidents to which the Syracuse Fire Department responds. Some incidents are outside of Syracuse city zip codes as the Syracuse Fire Department shares response services with local Onondaga County fire departments. Results from this report will be presented to the Syracuse Fire Department. Information collected in report will be used to develop policies to improve fire department response strategies. Researchers consulted recent studies conducted by the Fire Protection Research Foundation as a basis for choosing what fire incident variables to analyze. This study builds on the 2013 report for the Syracuse Fire Department on alternative deployment strategies and unwanted fire alarms.

METHODS

How Data Were Collected

Instrument Design: The National Fire Incident Reporting System (NFIRS), developed by the United States Fire Administration, is used by Onondaga County and 23,000 other fire departments to track fire incidents.

Data Collection Method: Data used in this study were obtained by Syracuse City Hall and derived from Onondaga County's NFIRS database.

Target Population and Sample: This study's target sample is all fire incidents in Onondaga County. The database contains 13,570 reported emergency incidents, of which most are EMS and ambulance related calls. 3,877 Relevant fire-related incidents were distinguished from other emergency incidents as those with an incident type code of 100 (fire extinguishment), 600 (good intent), or 700 (false call). Of these incidents, only 585 (15%) were fires needing extinguishment.

Incident Type	Incident Type Code	Description
Fire needing extinguishment	100 Series (111-170)	Fire incident where
		emergency responders
		extinguished a fire.
Good intent call	600 Series (600-653),	Fire incident where a civilian
	excluding EMS calls (661)	mistakes a non-emergency
		incident as an emergency.
		Examples are calls into
		controlled burning, mistaken
		smoke, or wrong locations.
False call	700 Series (700-746)	Fire incident where an
		emergency alarm was falsely
		triggered. Examples are
		malicious fire alarms and
		unintentional smoke detector
		operation.

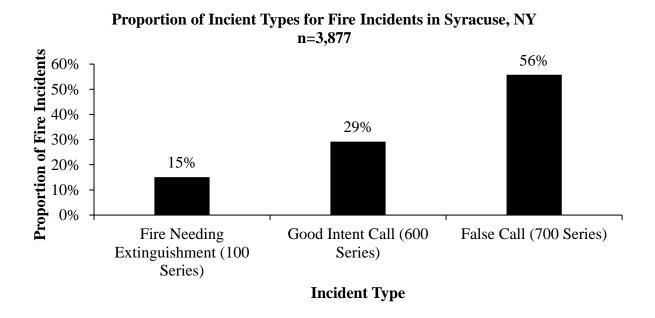
Quality of the Data

Representativeness: The NFIRS database comprises of all known fire incidents in Onondaga County, so the data used in this study is representative of Onondaga County's known fire incidents. However, unreported fire incidents may limit the representativeness of the NFIRS database to all Onondaga County fires.

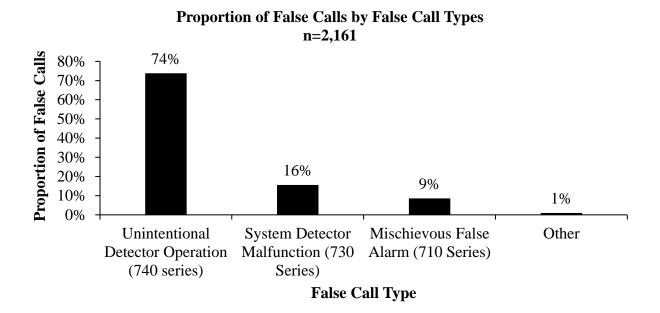
Accuracy: The data recorded in the NFIRS database only accurately represents fire incidents as they are reported by firemen. Values in the NFIRS database may be inaccurately reported by responding firemen. Training done to ensure the accuracy of such reports is unknown. Additionally, some reports are inapplicable to certain analyses as they lack the fire incident's location, time, or other necessary variable. Therefore, some findings in this study may not accurately reflect all reported fire incidents.

FINDINGS

1. 56% of all fire incident reports were false calls.



2. 74% of all false call fire incidents were unintentional alarms.

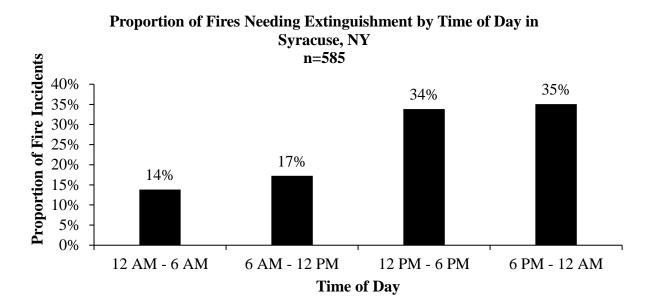


3. 62% of all fire incidents took place between 12 PM and 12 AM.

All Fire Incidents by Time of Day in Syracuse, NY n=3,877

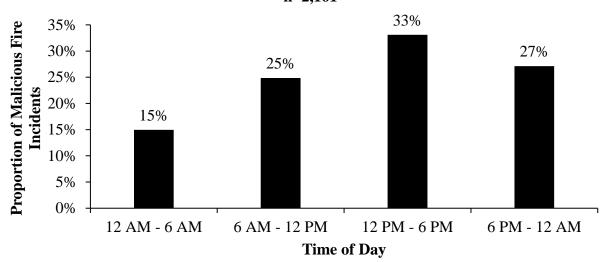
32%
30%
22%
16%
10%
12 AM - 6 AM 6 AM - 12 PM 12 PM - 6 PM 6 PM - 12 AM
Time of Day

4. 69% of fires needing extinguishment were between 12 PM and 12 AM.

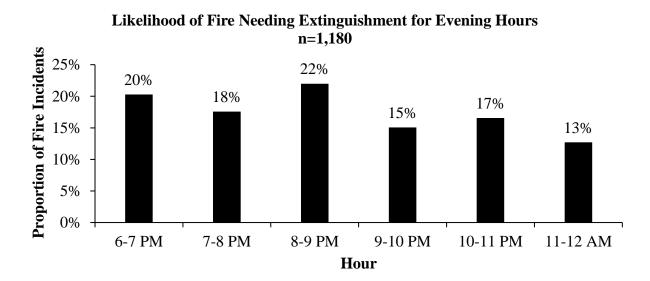


5. 60% of all false calls were between 12 PM and 12 AM.

Proportion of False Call Fire Incidents by Time of Day in Syracuse, NY n=2,161



6. The highest proportion of fires needing extinguishment for any hour in the evening was 8-9 PM at 22%.



7. The highest proportion of false calls for any hour in the evening was 6-7 PM at 55%.

n=1,180Proportion of Fire Incidents 55% 56% 54% 51% 52% 50% 50% 50% 47% 48% 46% 46% 44% 42%

8-9 PM

Hour

9-10 PM

10-11 PM

11-12 AM

Likelihood of False Call for Evening Hours

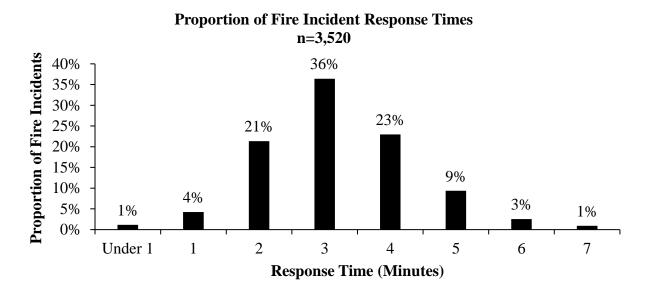
Source: Syracuse Fire Department NFIRS database, Jan 2017-Aug 2017.

7-8 PM

40%

6-7 PM

8. 72% of all fire incidents took 3 minutes or longer to respond to.



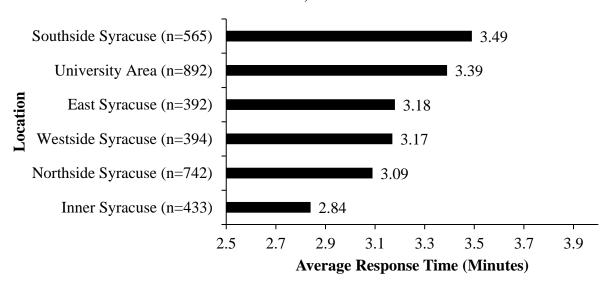
Source: Syracuse Fire Department NFIRS database, Jan 2017-Aug 2017.

Comment: The average response time for all fire incidents in Syracuse was 3.17 minutes.

Only 3,520 fire incidents of 3,877 were sampled in this finding as fire incidents with a response under 7 minutes. Some fire incidents have no response and few outlier incidents take longer than 7 minutes to respond to.

9. Inner Syracuse has the fastest average fire incident response time at 2.84 minutes.

Average Fire Incident Response Time by Zip Code in Syracuse, NY n=3,418

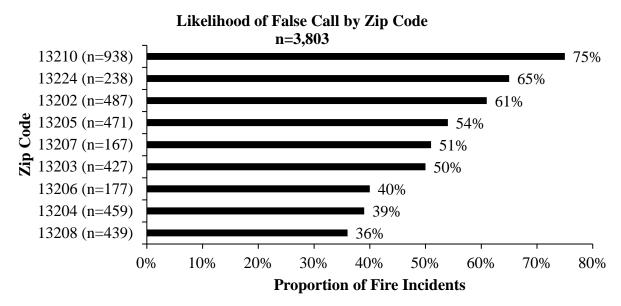


Source: Syracuse Fire Department NFIRS database, Jan 2017-Aug 2017.

Comment: Locations were derived from fire incident zip codes. Zip codes with fewer than 50 fire incidents were not included. See appendix I for details.

Only 3,418 fire incidents of 3,877 were sampled in this finding as fire incidents with a response under 7 minutes. Some fire incidents have no response and few outlier incidents take longer than 7 minutes to respond to.

10. The highest proportion of false calls for any zip code was 13210 (University Area) at 75%.

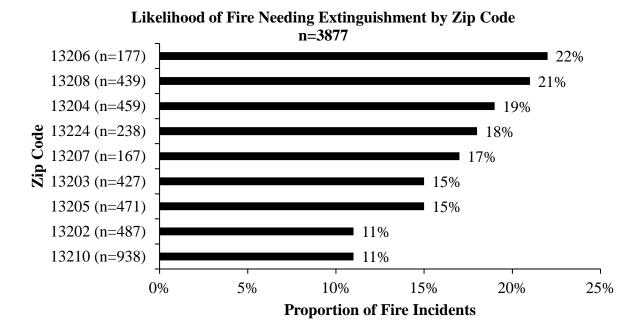


Source: Syracuse Fire Department NFIRS database, Jan 2017-Aug 2017.

Comment: Data values do not add up to 100%. The graph displays the proportion of each zip code's fire incidents that were false calls. Fires needing extinguishment (series 100) and good intent calls (series 600) were omitted from the proportions displayed in the graph.

Zip codes with fewer than 50 fire incidents were not included. See appendix I for details.

11. The highest proportion of fires needing extinguishment for any zip code was 13206 (Eastside Syracuse) at 22%.

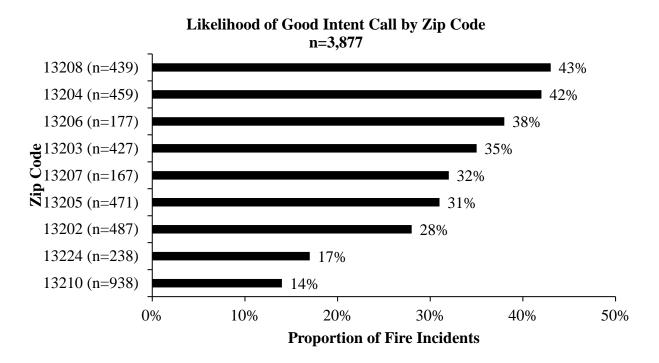


Source: Syracuse Fire Department NFIRS database, Jan 2017-Aug 2017.

Comment: Data values do not add up to 100%. The graph displays the proportion of each zip code's fire incidents that were fires needing extinguishment. False calls (series 700) and good intent calls (series 600) were omitted from the proportions displayed in the graph.

Zip codes with fewer than 50 fire incidents were not included. See appendix I for details.

12. The highest proportion of good intent calls for any zip code was 13208 (Northside Syracuse) at 43%.



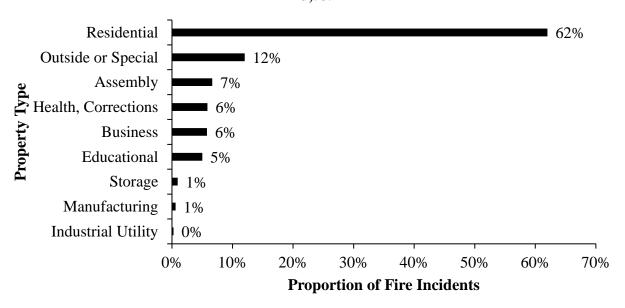
Source: Syracuse Fire Department NFIRS database, Jan 2017-Aug 2017.

Comment: Data values do not add up to 100%. The graph displays the proportion of each zip code's fire incidents that were good intent calls. False calls (series 700) and fires needing extinguishment (series 100) were omitted from the proportions displayed in the graph.

Zip codes with fewer than 50 fire incidents were not included. See appendix I for details

13. 62% of all fire incident reports with a location were from a residential property.

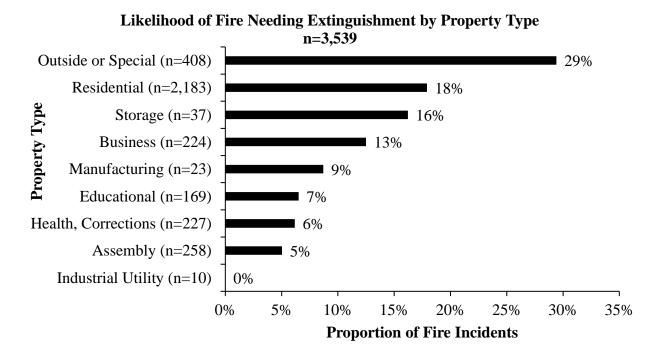
Proportion of Fire Incidents by Property Type in Syracuse, NY n=3,539



Source: Syracuse Fire Department NFIRS database, Jan 2017-Aug 2017.

Comment: Fire reports that did not include a location were not included in the sample for this graph.

14. The highest proportion of fires needing extinguishment for any property type was outside or special at 29%.

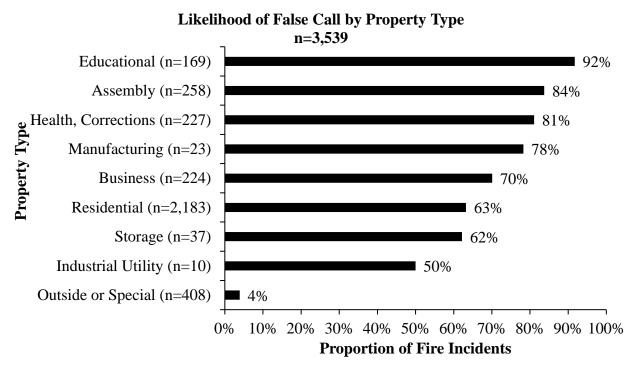


Source: Syracuse Fire Department NFIRS database, Jan 2017-Aug 2017.

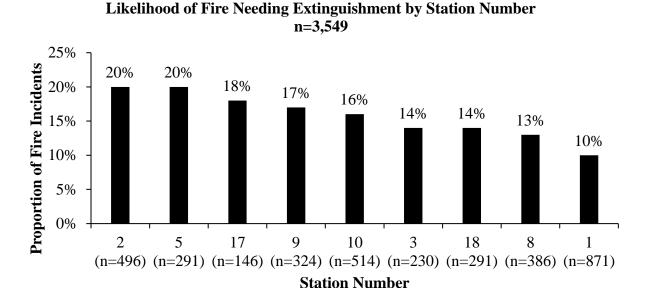
Comment: Fire reports that did not include a property type were not included in the sample for this graph.

Data values do not add up to 100%. False calls (series 700) and good intent calls (series 600) were omitted from the proportions displayed in the graph. The graph displays the proportion of each property type's fire incidents that were fires needing extinguishment.

15. The highest proportion of false calls for any property type was educational property at 92%.



16. The highest proportion of fires needing extinguishment for any fire station was station 2 and station 5 at 20%.

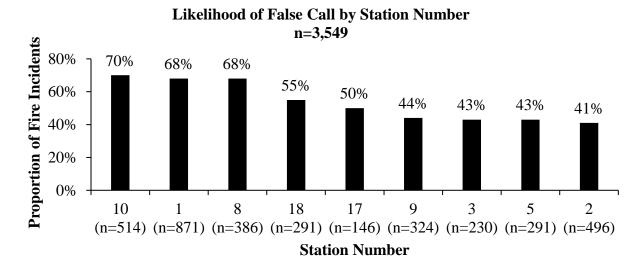


Source: Syracuse Fire Department NFIRS database, Jan 2017-Aug 2017.

Comment: Data values do not add up to 100%. The graph displays the proportion of each station's fire incidents that were fires needing extinguishment. False calls (series 700) and good intent calls (series 600) were omitted from the proportions displayed in the graph.

Stations with fewer than 50 incidents (1 and 6) were omitted. 299 incidents without a station number were omitted.

17. The highest proportion of false calls for any fire station was station 10 at 70%.



Source: Syracuse Fire Department NFIRS database, Jan 2017-Aug 2017.

Comment: Data values do not add up to 100%. The graph displays the proportion of each station's fire incidents that were fires needing extinguishment. Fires needing extinguishment (series 100) and good intent calls (series 600) were omitted from the proportions displayed in the graph.

Stations with fewer than 50 incidents (1 and 6) were omitted. 299 incidents without a station number were omitted.

APPENDICIES

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Zip Code Location Coding and Exclusions
Suspect Addresses
Codebook & Spreadsheet

Appendix I

Data Frequencies

- 1. Proportion of Fire Incidents by Incident Type (n=3,877) [Findings 1-7, 10-17]
 - a. Fire Needing Extinguishment/100 Series (15%)
 - b. Good Intent Call/600 Series (29%)
 - c. False Call/700 Series (56%)
- 2. Proportion of Fire Incidents by Time of Day (n=3,877) [Findings 3-7
 - a. 12 AM 6 AM (16%)
 - b. 6 AM 12 PM (22%)
 - c. 12 PM 6 PM (32%)
 - d. 6 PM 12 AM (30%)
- 3. Proportion of Fire Incidents by Response Time (n=3,520) [Findings 8-9]
 - a. Under 1 minute (1%)
 - b. 1 minute (4%)
 - c. 2 minutes (21%)
 - d. 3 minutes (36%)
 - e. 4 minutes (23%)
 - f. 5 minutes (9%)
 - g. 6 minutes (3%)
 - h. 7 minutes (1%)
- 4. Proportion of Fire Incidents by Zip Code (n=3,803) [Findings 9-12]
 - a. 13202 (13%)
 - b. 13203 (11%)
 - c. 13204 (12%)
 - d. 13205 (12%)
 - e. 13206 (5%)
 - f. 13207 (4%)
 - g. 13208 (12%)
 - h. 13210 (25%)
 - i. 13224 (6%)
 - 5. Proportion of Fire Incidents by Property Type (n=3,539) [Findings 13-15]
 - a. Residential (62%)
 - b. Outside/Special (12%)
 - c. Assembly (7%)
 - d. Health, Corrections (6%)
 - e. Business (6%)
 - f. Educational (5%)
 - g. Storage (1%)
 - h. Manufacturing (0%)
 - i. Industrial/Utility (0%)

- 6. Proportion of Fire Incidents by Station Number (n=3,549) [Findings 16-17]
 - a. Station 1 (25%)
 - b. Station 2 (14%)
 - c. Station 3 (6%)
 - d. Station 5 (8%)
 - e. Station 8 (11%)
 - f. Station 9 (9%)
 - g. Station 10 (14%)
 - h. Station 17 (4%)
 - i. Station 18 (8%)

Appendix II

Zip Code Location Coding and Exclusions

Location	Zip Codes
Inner Syracuse	13202
Northside Syracuse	13203, 13208
Westside Syracuse	13204
Eastside Syracuse	13206, 13224
University Area	13210
Southside Syracuse	13205, 13207

Excluded Zip Code	Number of Fire Incidents
13088	2
13120	1
13209	1
13212	30
13214	32
13215	5
13219	3

Appendix III

Suspect Addresses

Address	Fire Incidents	False Calls	Likelihood of False Call
150 HENRY ST	67	63	94%
2005E FAYETTE ST	39	37	95%
550S CLINTON ST	39	23	59%
100E ONONDAGA ST	32	32	100%
304 COURT ST	30	26	87%
753 JAMES ST	26	18	69%
750E ADAMS ST	25	20	80%
700E BRIGHTON AVE	23	17	74%
1811E FAYETTE ST	22	20	91%
301 PROSPECT AVE	21	18	86%
1000 COL EILEEN			
COLLINS BLVD	20	12	60%
818 SALT SPRINGS RD	20	12	60%
601 COMSTOCK AVE	18	17	94%
830 JAMES ST	18	15	83%
159 BALLANTYNE RD	16	15	94%
300 MOUNT OLYMPUS			
DR	16	15	94%
701E GENESEE ST	16	13	81%
710E BRIGHTON AVE	16	13	81%
100 MOUNT OLYMPUS			
DR	14	13	93%
104 CROLY ST	14	9	64%
407 SMALL RD	14	13	93%
750E BRIGHTON AVE	14	14	100%
2119E FAYETTE ST	13	10	77%
315 SMALL RD	13	11	85%
441S SALINA ST	13	13	100%
600 JAMES ST	13	11	85%
100 AMIDON DR	12	10	83%
1809E FAYETTE ST	12	10	83%
303 STADIUM PL	12	12	100%
4101E GENESEE ST	12	11	92%
415 SMALL RD	12	12	100%
142 OAKLAND ST	11	10	91%
241 LAFAYETTE RD	11	9	82%
505 COMSTOCK AVE	11	8	73%
1901E FAYETTE ST	10	10	100%
309W BRIGHTON AVE	10	8	80%
401 VAN BUREN ST	10	7	70%

Appendix IV

CODEBOOK

COLUMN	FIELD NAME	DEFINITION	CODE
A	Incidentdate	Incident date	Time and day of incident
В	Incidentnumber	Incident number	Incident #9900000 – #9914000
С	Station	Responding firefighter station	Numbered correspondingly 1 through 18
D	incidenttype	Fire Incident Category	1 – Fire 2 – Overpressure 3 – Rescue/EMS 4 – Hazardous condition 5 – Service call 6 – Good intent call 7 – False alarm 8 – Severe weather 9 – Special incident
Е	Initialdispatchcode	Dispatch Coding	FIRE or ALRM were fire-related incidents (list of 4 letter codes can be found at Syracuse Fire Department website)
F	Alarmdate	Alarm date	Same as incidentdate; time of incident call-in
G	Arrivaldate	Arrival date	Time dispatch unit arrives
Н	Lastunitclewered	Time of last unit clewered	Time last dispatch unit leaves scene
M	Alarmday	Alarm day	Recoded separation of Incident Date into day
N	Alarmtime	Alarm time	Recoded separation of Incident Date into time
O	Propertyuse	Property Use	100 – Assembly 200 – Educational 300 – Health, Detention, Correction 400 – Residential 500 – Business 600 – Industrial utility 700 – Manufacturing

			800 – Storage
			900 – Outside or
			Special Property
P,Q,R,S,T,U,V	Numberormile,	Address of incident	6 cells that indicate the
	streetprefix,		address's number,
	streethighway,		street prefix, street
	streettype,		name, street type,
	streetsuffix,		street suffix, and
	apartment		apartment number.
W	Postalcode	Postal Code	Syracuse zip codes
			(13201-13290)

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