**Just the Numbers**

The goal of Firefighter Rescue Survey ([FirefighterRescueSurvey.com](http://www.FirefighterRescueSurvey.com) or check us out on Facebook) is to gather as much information as possible from actual rescues in the hopes of making us all more effective and efficient on our firegrounds. By collecting data from firefighters who have been in the exact situation that most of us spend a career preparing for, we hope to provide firefighters from around the globe a better chance to save a life. We have recently analyzed the data from the first 3,000 recorded rescues (the n = 3036, data was collected on 12.05.22), and we'd like to share this info with everyone. In an attempt to obtain reliable, valid, and actionable data, we are in the third version of the survey. This means that some questions, and/or answers, have been around since day one, while other have been added, edited, or deleted in the past six plus years. Thus, while the overall sample size is over 3,000, there are some data sets that have a smaller sample size. This project is a continuous work in progress, and if anyone reading this has any ideas on how we could enhance FRS, please just let us know.

Before we get started though, here are a couple of rules for interpreting these data:

* We need to understand the entire context as any one specific data set is limited and has qualifications.
* We have been and will continue to fine-tune the survey questions and answers in an attempt to make these data as accurate, well-defined, objective, and digestible as possible.
* Correlation does not always equal causation.
* We can’t always get an ‘ought’ from an ‘is’.
* More analysis is always needed.
* Take this data, and make it work for your department and your citizens.
* Lastly, if you have removed a civilian from a fire, please fill out a survey for each rescue at FirefighterRescueSurvey.com.

**Time of Day v Total Recorded Rescues:**

00:00 – 02:59 – 19% (564/3010)

03:00-05:59 – 19% (584/3010)

06:00-08:59 – 14% (426/3010)

09:00-11:59 – 13% (402/3010)

12:00-14:59 – 10% (304/3010)

15:00-17:59 – 7% (214/3010)

18:00-20:59 – 8% (236/3010)

21:00-23:59 – 9% (280/3010)

**Time of Day v Survival Percentage:**

00:00 – 02:59 – 62% (346/559)

03:00-05:59 – 54% (312/576)

06:00-08:59 – 63% (264/420)

09:00-11:59 – 64% (257/399)

12:00-14:59 – 69% (207/301)

15:00-17:59 – 69% (146/212)

18:00-20:59 – 71% (167/236)

21:00-23:59 – 72% (198/276)

**Month v Total Recorded Rescues:**

January – 12% (369/3021)

February – 10% (315/3021)

March – 11% (325/3021)

April – 9% (264/3021)

May – 8% (250/3021)

June – 6% (189/3021)

July – 6% (175/3021)

August – 7% (198/3021)

September – 7% (207/3021)

October – 7% (209/3021)

November – 8% (229/3021)

December – 10% (291/3021)

**Month v Survival Percentage:**

January – 59% (216/367)

February – 63% (199/315)

March – 67% (216/324)

April – 61% (159/260)

May – 63% (153/244)

June – 71% (132/186)

July – 58% (101/175)

August – 67% (128/192)

September – 70% (142/204)

October – 61% (127/209)

November – 65% (148/227)

December – 65% (186/288)

**Excluding the driver operator, where are the SCBAs located on the rig that found the victim v Total Recorded Rescues:**

Seat – 83% (854/1035)

Cab – 1% (15/1035)

Exterior – 12% (129/1035)

N/A – 4% (37/1035)

**Excluding the driver operator, where are the SCBAs located on the rig that found the victim v Survival Percentage:**

Seat – 70% (592/844)

Cab – 71% (10/14)

Exterior – 67% (87/129)

N/A – 64% (23/36)

**Time of Day v Victim Location (Room) (Total) (No Graph Made):**

00:00 – 02:59

 Bedroom - 45% (251/554)

Family – 14% (79/554)

Other – 12% (67/554)

Hallway – 12% (65/554)

Kitchen – 7% (37/554)

Bathroom – 6% (35/554)

Foyer – 4% (20/554)

03:00-05:59

Bedroom - 52% (301/577)

Family – 16% (95/577)

Other – 8% (49/577)

Hallway – 8% (44/577)

Kitchen – 6% (33/577)

Bathroom – 7% (39/577)

Foyer – 3% (16/577)

06:00-08:59

Bedroom - 39% (162/419)

Family – 18% (74/419)

Other – 16% (68/419)

Hallway – 11% (48/419)

Kitchen – 9% (38/419)

Bathroom – 5% (19/419)

Foyer – 2% (10/419)

09:00-11:59

Bedroom - 42% (161/384)

Family – 15% (58/384)

Other – 18% (69/384)

Hallway – 10% (39/384)

Kitchen – 7% (25/384)

Bathroom – 7% (28/384)

Foyer – 1% (4/384)

12:00-14:59

Bedroom - 40% (119/296)

Family – 17% (50/296)

Other – 15% (44/296)

Hallway – 9% (27/296)

Kitchen – 8% (25/296)

Bathroom – 8% (24/296)

Foyer – 2% (7/296)

15:00-17:59

Bedroom - 40% (84/211)

Family – 16% (33/211)

Other – 19% (40/211)

Hallway – 7% (15/211)

Kitchen – 6% (12/211)

Bathroom – 8% (17/211)

Foyer – 5% (10/211)

18:00-20:59

Bedroom - 43% (98/230)

Family – 20% (45/230)

Other – 12% (28/230)

Hallway – 7% (17/230)

Kitchen – 12% (28/230)

Bathroom – 3% (8/230)

Foyer – 3% (6/230)

21:00-23:59

Bedroom - 47% (130/278)

Family – 16% (45/278)

Other – 14% (38/278)

Hallway – 8% (22/278)

Kitchen – 6% (17/278)

Bathroom – 6% (17/278)

Foyer – 3% (9/278)

**Time of Day v Victim Location (Room) (Survival Percentage) (No Graph Made):**

00:00 – 02:59

 Bedroom - 55% (136/247)

Family – 71% (56/79)

Other – 79% (53/67)

Hallway – 66% (43/65)

Kitchen – 54% (20/37)

Bathroom – 49% (17/35)

Foyer – 65% (13/20)

03:00-05:59

Bedroom - 54% (161/297)

Family – 58% (55/95)

Other – 81% (38/47)

Hallway – 43% (19/44)

Kitchen – 33% (11/33)

Bathroom – 36% (14/39)

Foyer – 63% (10/16)

06:00-08:59

Bedroom - 64% (103/160)

Family – 59% (43/73)

Other – 73% (49/67)

Hallway – 60% (29/48)

Kitchen – 46% (17/37)

Bathroom – 61% (11/18)

Foyer – 80% (8/10)

09:00-11:59

Bedroom - 62% (99/160)

Family – 67% (39/58)

Other – 80% (55/69)

Hallway – 67% (26/39)

Kitchen – 48% (12/25)

Bathroom – 50% (14/28)

Foyer – 100% (4/4)

12:00-14:59

Bedroom - 74% (87/118)

Family – 70% (35/50)

Other – 65% (28/43)

Hallway – 67% (18/27)

Kitchen – 48% (12/25)

Bathroom – 58% (14/24)

Foyer – 86% (6/7)

15:00-17:59

Bedroom - 69% (57/83)

Family – 66% (22/33)

Other – 75% (30/40)

Hallway – 73% (11/15)

Kitchen – 67% (8/12)

Bathroom – 59% (10/17)

Foyer – 60% (6/10)

18:00-20:59

Bedroom - 78% (76/98)

Family – 53% (24/45)

Other – 89% (25/28)

Hallway – 71% (12/17)

Kitchen – 61% (17/28)

Bathroom – 63% (5/8)

Foyer – 50% (3/6)

21:00-23:59

Bedroom - 74% (95/129)

Family – 63% (27/43)

Other – 79% (30/38)

Hallway – 77% (17/22)

Kitchen – 65% (11/17)

Bathroom – 65% (11/17)

Foyer – 67% (6/9)

**Time from initial dispatch until fire department arrival on scene v Total Recorded Rescues:**

<2 minutes – 5% (28/561)

2-4 minutes – 34% (189/561)

4-6 minutes – 32% (180/561)

6-8 minutes – 17% (96/561)

8-10 minutes – 5% (27/561)

>10 minutes – 7% (41/561)

**Time from initial dispatch until fire department arrival on scene v Survival Percentage:**

<2 minutes – 79% (22/28)

2-4 minutes – 64% (121/188)

4-6 minutes – 73% (131/179)

6-8 minutes – 66% (63/96)

8-10 minutes – 56% (15/27)

>10 minutes – 39% (16/41)

**Were There Reports of a Victim v Total Recorded Rescues:**

Yes - Report of Victim(s) – 67% (2028/3007)

Yes – Report of Everyone is Out – 3% (102/3007) – *\*71 times the source of the report was left blank…of the remaining 31 reports, 3% of these (1/31) times the report was given by family/roommate; 55% of these (17/31) times the report was given by a resident of the fire building, different unit/apartment*

No – No Report at All – 29% (877/3007)

**Were There Reports of a Victim v Survival Percentage:**

Yes - Report of Victim(s) – 61% (1232/2008)

Yes – Report of Everyone is Out – 65% (66/102)

No – No Report at All – 69% (600/869)

**Who Made the Statement About Victims Inside v Total Recorded Rescues:**

Dispatch – 24% (340/1403)

Bystander – 7% (99/1403)

Neighbor – 16% (225/1403)

Police – 7% (99/1403)

Family/Roommate – 7% (97/1403) – *\*22% (19/88) time the victim location report was inaccurate*

Resident of Fire Building, Different Unit/Apartment – 32% (442/1403)

Unknown/Other – 7% (101/1403)

**Who Made the Statement About Victims Inside v Survival Percentage:**

Dispatch – 72% (240/334)

Bystander – 69% (68/98)

Neighbor – 48% (108/224)

Police – 78% (77/99)

Family/Roommate – 60% (58/97)

Resident of Fire Building, Different Unit/Apartment – 70% (308/441)

Unknown/Other – 72% (72/100)

**Were Victim Reports Accurate (i.e. number of victims, location of victims, etc.) v Total Recorded Rescues:**

Yes - 80% (1298/1623)

No – 20% (325/1623)

N/A – 366

**Were Victim Reports Accurate (i.e. number of victims, location of victims, etc.) v Survival Percentage:**

Yes - 67% (862/1289)

No – 48% (155/320)

N/A – 53% (191/361)

**When Was Search Initiated v Total Recorded Rescues:**

Pre Knockdown – 72% (2181/3011)

Post Knockdown – 12% (369/3011)

Simultaneous With Knockdown – 15% (461/3011)

**When Was Search Initiated v Survival Percentage:**

Pre Knockdown – 67% (1448/2167)

Post Knockdown – 41% (147/361)

Simultaneous With Knockdown – 67% (306/455)

\* *92% (1745/1901) of all successful rescues were made when search was initiated before, or simultaneous with fire knockdown*

**When Was Search Initiated v Total Recorded Rescues:**

Pre RIT/RIC Assignment – 95% (1090/1148)

Post RIT/RIC Assignment – 5% (58/1148)

**When Was Search Initiated v Survival Percentage:**

Pre RIT/RIC Assignment – 66% (721/1088)

Post RIT/RIC Assignment – 47% (27/58)

\* *96% (721/748) of all successful rescues were made when search was initiated before the RIT was assigned*

**Occupancy Type v Total Recorded Rescues:**

SFD – 53% (1596/3029)

\*MFD – 37% (1119/3029)

 Center Hall – 176

 Garden Style – 169

 Other – 51

Mobile Home – 5% (155/3029)

Commercial – 1% (31/3029)

\*Other – 4% (128/3029)

Other – 2% (46/3029)

Care Home – <1% (27/3029)

Barn/Shed/Outbuilding – <1% (13/3029)

Multi-Use Occupancy – 1% (42/3029)

**Occupancy Type v Survival Percentage:**

SFD – 56% (879/1579)

\*MFD – 76% (845/1109)

 Center Hall - 86% (149/173)

 Garden Style – 79% (132/168)

 Other – 78% (40/51)

Mobile Home – 51% (79/154)

Commercial – 68% (21/31)

\*Other – 70% (87/125)

Other – 58% (26/45)

Care Home – 77% (20/26)

Barn/Shed/Outbuilding – 58% (7/12)

Multi-Use Occupancy – 81% (34/42)]

**Number of Floors Above Grade v Total Recorded Rescues:**

1 Story – 44% (1295/2961)

2 Stories – 38% (1123/2961)

3 Stories – 15% (446/2961)

4 Stories – 1% (37/2961)

5 Stories – <1% (18/2961)

6 Stories – <1% (13/2961)

7 Stories – <1% (13/2961)

8 Stories – <1% (4/2961)

9 Stories – <1% (1/2961)

10 Stories – <1% (2/2961)

11 Stories – <1% (6/2961)

>11 Stories – <1% (3/2961)

**Number of Floors Above Grade v Survival Percentage:**

1 Story – 55% (710/1285)

2 Stories – 66% (732/1110)

3 Stories – 76% (335/443)

4 Stories – 80% (28/35)

5 Stories – 89% (16/18)

6 Stories – 73% (8/11)

7 Stories – 77% (10/13)

8 Stories – 50% (2/4)

9 Stories – 100% (1/1)

10 Stories – 100% (2/2)

11 Stories – 100% (6/6)

>11 Stories – 100% (2/3)

**Exterior Conditions Upon Arrival v Total Recorded Rescues:**

Nothing Showing – 7% (213/3027)

Smoke Only – 30% (908/3027)

<25% - 25% (745/3027)

25-50% - 27% (811/3027)

51-75% - 8% (256/3027)

>75% - 3% (94/3027)

**Exterior Conditions Upon Arrival v Survival Percentage:**

Nothing Showing – 80% (169/212)

Smoke Only – 73% (652/898)

<25% - 70% (517/737)

25-50% - 55% (447/806)

51-75% - 36% (91/250)

>75% - 34% (32/94)

**Fire Location (Floor) v Total Recorded Rescues:**

Basement – 3% (96/2844)

1st Floor – 59% (1686/2844)

2nd Floor – 18% (512/2844)

3rd Floor – 4% (123/2844)

4 Floor – 1% (20/2844)

5 Floor – <1% (6/2844)

6 Floor – <1% (9/2844)

7 Floor – <1% (2/2844)

8 Floor – 0% (0/2844)

9 Floor – <1% (1/2844)

10 Floor – 0% (0/2844)

11 Floor – <1% (1/2844)

>11 Floor – <1% (1/2844)

Multiple Floors – 13% (374/2844)

Attic – <1% (13/2844)

**Fire Location (Floor) v Survival Percentage:**

Basement – 71% (67/94)

1st Floor – 59% (991/1672)

2nd Floor – 74% (376/509)

3rd Floor – 89% (108/122)

4 Floor – 75% (15/20)

5 Floor – 83% (5/6)

6 Floor – 71% (5/7)

7 Floor – 100% (2/2)

8 Floor – N/A

9 Floor – 100% (1/1)

10 Floor – N/A

11 Floor – 100% (1/1)

>11 Floor – 0% (0/1)

Multiple Floors – 58% (214/370)

Attic – 100% (13/13)

**Fire Location (Room) v Total Recorded Rescues:**

Bedroom – 17% (470/2690)

Bathroom – 1% (28/2690)

Kitchen – 18% (495/2690)

Family/Living Room – 17% (451/2690)

Garage – 2% (62/2690)

Attic – 2% (53/2690)

Exterior – 2% (51/2690)

Multiple Rooms – 34% (924/2690)

Basement – 1% (34/2690)

Other – 5% (122/2690)

**Fire Location (Room) v Survival Percentage:**

Bedroom – 65% (303/466)

Bathroom – 79% (22/28)

Kitchen – 75% (366/491)

Family/Living Room – 64% (286/449)

Garage – 71% (44/62)

Attic – 86% (44/51)

Exterior – 80% (41/51)

Multiple Rooms – 55% (504/915)

Basement – 61% (20/33)

Other – 73% (88/120)

**Fire Conditions Upon Entry v Total Recorded Rescues:**

Incipient – 9% (261/3008)

Room and Contents – 39% (1185/3008)

Multiple Rooms – 25% (763/3008)

Structure – 27% (799/3008)

**Fire Conditions Upon Entry v Survival Percentage:**

Incipient – 84% (216/257)

Room and Contents – 69% (814/1174)

Multiple Rooms – 62% (471/757)

Structure – 50% (395/792)

**Initial Mode of Operation v Total Recorded Rescues:**

Offensive – 94% (1971/2104)

Defensive – 6% (133/2101)

**Initial Mode of Operation v Survival Percentage:**

Offensive – 70% (1368/1961)

Defensive – 50% (65/131)

**Number of firefighters on scene when the victim was located v Total Recorded Rescues:**

<3 – 13% (135/1032)

3-6 – 16% (164/1032) \*Numbers overlap with bucket below

6-10 – 24% (252/1032) \*Numbers overlap with bucket above

11-13 – 19% (193/1032)

14-16 – 24% (252/1032)

>16 – 3% (36/1032)

**Number of firefighters on scene when the victim was located v Survival Percentage:**

<3 – 81% (109/134)

3-6 – 84% (137/164) \*Numbers overlap with bucket below

6-10 – 68% (169/250) \*Numbers overlap with bucket above

11-13 – 63% (120/190)

14-16 – 63% (155/248)

>16 – 58% (21/36)

**Visibility v Total Recorded Rescues:**

High Viz – 10% (301/2996)

Moderate Viz – 23% (704/2996)

Low Viz – 37% (1104/2996)

Zero Viz – 30% (887/2996)

**Visibility v Survival Percentage:**

High Viz – 87% (262/300)

Moderate Viz – 76% (531/700)

Low Viz – 62% (678/1091)

Zero Viz – 48% (423/880)

**Conditions at Victim Location v Total Recorded Rescues:**

Fire – 2% (36/1871)

Fire and Smoke – 25% (465/1871)

Smoke – 70% (1312/1871)

No Fire or Smoke – 3% (58/1871)

\* *27% (501/1871) of recorded rescues have fire (or fire and smoke) at the victim’s location*

**Conditions at Victim Location v Survival Percentage:**

Fire – 19% (7/36)

Fire and Smoke – 50% (229/462)

Smoke – 75% (985/1305)

No Fire or Smoke – 90% (52/58)

\* *47% (236/498) survival percentage when fire (or fire and smoke) at the victim’s location*

**Did the Structure appear Vacant or Abandoned v Total Recorded Rescues:**

Yes - 3% (90/2816)

No – 97% (2726/2816)

**Did the Structure Appear Vacant or Abandoned v Survival Percentage:**

Yes - 70% (61/87)

No – 65% (1754/2699)

**Did the Structure Have Working Smoke Alarms v Total Recorded Rescues:**

Yes - 38% (815/2134)

No – 30% (632/2134)

Unknown – 32% (687/2134)

**Did the structure have working smoke alarms v Survival Percentage:**

Yes - 81% (653/806)

No – 61% (385/627)

Unknown – 60% (409/686)

**If multiple victims were found, were any other victims found in this same room/vicinity v Total Recorded Rescues:**

Yes – 61% (160/261)

No – 39% (101/261)

**If multiple victims were found, were any other victims found in this same room/vicinity v Survival Percentage:**

Yes – 87% (135/156)

No - 77% (78/101)

**Victim Location (Floor) v Total Recorded Rescues:**

Basement – 3% (99/2985)

1st Floor – 58% (1717/2985)

2nd Floor – 30% (899/2985)

3rd Floor – 7% (223/2985)

4 Floor – 1% (18/2985)

5 Floor – <1% (7/2985)

6 Floor – <1% (11/2985)

7 Floor – <1% (6/2985)

8 Floor – <1% (1/2985)

9 Floor – <1% (1/2985)

10 Floor – 0% (0/2985)

11 Floor – <1% (1/2985)

>11 Floor – <1% (2/2985)

**Victim Location (Floor) v Survival Percentage:**

Basement – 58% (56/97)

1st Floor – 57% (973/1707)

2nd Floor – 70% (623/891)

3rd Floor – 87% (191/220)

4 Floor – 83% (15/18)

5 Floor – 86% (6/7)

6 Floor – 56% (5/9)

7 Floor – 100% (6/6)

8 Floor – 100% (1/1)

9 Floor – 100% (1/1)

10 Floor – N/A

11 Floor – 100% (1/1)

>11 Floor – 50% (1/2)

**Victim location relative to fire (floor) v Total Recorded Rescues?**

Fire Floor – 85% (1233/1458)

Floor Above Fire – 10% (152/1458)

>1 Floor Above Fire - 2% (29/1458)

Floor Below Fire – 2% (36/1458)

>1 Floor Below Fire – 1% (8/1458)

**Victim location relative to fire (floor) v Survival Percentage?**

Fire Floor – 59% (714/1219)

Floor Above Fire – 80% (121/152)

>1 Floor Above Fire - 86% (25/29)

Floor Below Fire – 78% (28/36)

>1 Floor Below Fire – 86% (6/7)

**Victim Location (Room) v Total Recorded Rescues:**

Balcony/Porch/Deck – 4% (120/2975)

Basement – <1% (12/2975)

Bathroom – 6% (187/2975)

Bedroom – 45% (1326/2975)

Family – 16% (482/2975)

Foyer – 3% (82/2975)

Garage – 1% (22/2975)

Hallway – 9% (277/2975)

Kitchen – 7% (215/2975)

Laundry – <1% (11/2975)

Stairs – 2% (50/2975)

Other – 6% (191/2975)

**Victim Location (Room) v Survival Percentage:**

Balcony/Porch/Deck – 98% (117/119)

Basement – 33% (4/12)

Bathroom – 52% (96/186)

Bedroom – 63% (827/1312)

Family – 63% (304/479)

Foyer – 68% (56/82)

Garage – 59% (13/22)

Hallway – 63% (175/277)

Kitchen – 50% (108/214)

Laundry – 60% (6/10)

Stairs – 67% (33/49)

Other – 73% (138/190)

**Arrival order of the crew that located victim v Total Recorded Rescues:**

First In – 63% (652/1029)

Second In – 24% (248/1029)

Third In – 7% (74/1029)

>/= Fourth In – 5% (55/1029)

**Arrival order of the crew that located victim v Survival Percentage:**

First In – 76% (487/645)

Second In – 64% (158/245)

Third In – 66% (49/74)

>/= Fourth In – 29% (16/55)

**Was the Victim Found Behind a Closed Door/Isolated From Fire v Total Recorded Rescues:**

Yes - 30% (674/2245)

No – 70% (1571/2245)

**Was the Victim Found Behind a Closed Door/Isolated From Fire v Survival Percentage:**

Yes - 82% (546/667) \* Bedroom with a closed door 79% (290/369)

No – 62% (963/1564) \* Bedroom without a closed door 59% (374/631)

**Was the Victim Found Behind a Closed Door/Isolated From Fire v Working Smoke Alarms v Survival Percentage:**

Closed door with working smoke alarms - 94% (267/285)

Closed door with no working smoke alarms - 79% (89/113)

No closed door with working smoke alarms - 74% (377/510)

No closed door with no working smoke alarms - 57% (290/506)

\*Added on 8.18.21

**Location of Victim (Within Compartment) v Total Recorded Rescues:**

On Floor Within 6' of an Exterior Door – 10% (299/3003)

On Floor Directly Beneath a Window – 6% (175/3003)

Closet – 1% (32/3003)

In Crib – 1% (22/3003)

On Bed – 13% (385/3003)

On Top Bunk – <1% (2/3003)

Under Bed – 1% (25/3003)

Couch/Sofa/Chair – 5% (161/3003)

Floor – 39% (1170/3003)

Standing – 13% (378/3003)

Bath Tub/Shower – 2% (51/3003)

Vehicle – <1% (4/3003)

Other – 10% (299/3003)

\* All Floor Categories (Non-Bed/Crib/Chair/Standing/Other) – 58% (1751/3003)

**Location of Victim (Within Compartment) v Survival Percentage:**

On Floor Within 6' of an Exterior Door – 53% (158/298)

On Floor Directly Beneath a Window – 57% (99/174)

Closet – 56% (18/32)

In Crib – 82% (18/22)

On Bed – 61% (231/381)

On Top Bunk – 100% (2/2)

Under Bed – 52% (13/25)

Couch/Sofa/Chair – 65% (104/160)

Floor – 54% (623/1159)

Standing – 99% (373/375)

Bath Tub/Shower – 48% (24/50)

Vehicle – 0% (0/3)

Other – 80% (239/297)

\* All Floor Categories (Non-Bed/Crib/Chair/Standing/Vehicle/Other) – 54% (935/1738)

**Victim Age v Total Recorded Rescues:**

0-2 – 4% (86/2023)

3-5 – 5% (110/2023)

6-12 – 7% (132/2023)

13-18 – 4% (74/2023)

19-39 – 19% (389/2023)

40-60 – 16% (327/2023)

>60 – 45% (905/2023)

**Victim Age v Survival Percentage:**

0-2 – 59% (50/85)

3-5 – 58% (64/110)

6-12 – 68% (90/132)

13-18 – 75% (55/73)

19-39 – 71% (273/384)

40-60 – 69% (224/326)

>60 – 59% (530/898)

**Crew Locating Victim v Total Recorded Rescue:**

Primary – 57% (1734/3026)

Attack – 24% (726/3026)

Other – 7% (222/3026)

Secondary – 4% (106/3026)

Salvage/Overhaul – 2% (53/3026)

PD – 2% (56/3026)

Ventilation – 1% (34/3026)

N/A (Victim Showing Upon Arrival) – 3% (95/3026)

**Crew Locating Victim v Survival Percentage:**

Primary – 64% (1097/1717)

Attack – 60% (435/720)

Other – 82% (181/220)

Secondary – 20% (21/106)

Salvage/Overhaul – 8% (4/53)

PD – 96% (54/56)

Ventilation – 91% (31/34)

N/A (Victim Showing Upon Arrival) – 96% (91/95)

**Did the Primary Search Crew That Located the Victim Physically Have a Hoseline With Them v Total Recorded Rescues:**

Yes - 10% (115/1165)

No – 90% (1050/1165)

**Did the Primary Search Crew That Located the Victim Physically Have a Hoseline With Them v Survival Percentage:**

Yes - 62% (71/114)

No – 68% (706/1043)

**Did the Search Crew (Primary and Secondary) That Located the Victim Physically Have a Hoseline With Them v Total Recorded Rescues:**

Yes - 10% (125/1226)

No – 90% (1101/1226)

**Did the Search (Primary and Secondary) Crew That Located the Victim Physically Have a Hoseline With Them v Survival Percentage:**

Yes - 59% (73/124)

No – 65% (715/1094)

**Number of Firefighters Assigned to Search Before Victim Was Located v Total Recorded Rescues:**

0 – 15% (320/2125)

1 – 6% (132/2125)

2 – 35% (742/2125)

3 – 19% (405/2125)

4 – 13% (275/2125)

5 – 4% (77/2125)

>5 – 8% (174/2125)

**Number of Firefighters Assigned to Search Before Victim Was Located v Survival Percentage:**

0 – 78% (248/319)

1 – 71% (94/132)

2 – 70% (514/738)

3 – 70% (281/404)

4 – 60% (164/272)

5 – 61% (46/75)

>5 – 54% (94/173)

**Search Type v Total Recorded Rescues:**

Split – 39% (661/1707)

Left Hand/Right Hand – 24% (416/1707)

Oriented – 16% (265/1707)

VES/VEIS – 21% (353/1707)

Search Line – 1% (12/1707)

**Search Type v Survival Percentage:**

Split – 62% (407/655)

Left Hand/Right Hand – 59% (245/414)

Oriented – 63% (165/264)

VES/VEIS – 62% (216/347)

Search Line – 25% (3/12)

**VES Rescues v Victim Reports (Total):**

Yes, Report of Victim – 88% (309/350)

Yes – Report of Everyone is Out – 1% (3/350)

No, No Report of Victims – 11% (38/350)

**VES Rescues v Victim Reports (Survival Percentage)?**

Yes, Report of Victim – 62% (188/303)

Yes – Report of Everyone is Out – 3% (1/3)

No, No Report of Victims – 68% (26/38)

**If victim was found by VES, was victim found in the initial room of entry v Total Recorded Rescues?**

Yes – 84% (85/101)

No – 16% (16/101)

**If victim was found by VES, was victim found in the initial room of entry v Survival Percentage?**

Yes – 74% (60/81)

No – 47% (7/15)

**Was a Thermal Imaging Camera Used to Assist Search v Total Recorded Rescues:**

Yes - 39% (738/1889)

No – 61% (1151/1889)

**Was a Thermal Imaging Camera Used to Assist Search v Survival Percentage:**

Yes - 52% (382/729)

No – 67% (766/1142)

**How was victim initially located v Total Recorded Rescues?**

TIC – 7% (67/1028)

Eyes (No TIC) – 52% (536/1028)

Hands – 28% (288/1028)

Ears (Responded to call out) – 6% (62/1028)

Ears (Heard victim cough, cry, movement, etc.) – 7% (75/1028)

**How was victim initially located v Survival Percentage?**

TIC – 54% (35/65)

Eyes (No TIC) – 76% (407/534)

Hands – 50% (141/284)

Ears (Responded to call out) – 95% (59/62)

Ears (Heard victim cough, cry, movement, etc.) – 95% (71/75)

**Approximate victim weight v Total Recorded Rescues?**

<25 – 2% (19/1025)

25-50 – 3% (32/1025)

51-100 – 5% (56/1025)

101-200 – 64% (652/1025)

201-300 – 23% (232/1025)

>300 – 3% (34/1025)

**Approximate victim weight v Survival Percentage?**

<25 – 89% (16/18)

25-50 – 72% (23/32)

51-100 – 65% (36/55)

101-200 – 71% (458/649)

201-300 – 67% (154/229)

>300 – 62% (21/34)

**Time From FD Arrival on Scene Until Arrival at Victim (Search Time) v Total Recorded Rescues:**

<2 minutes – 18% (511/2807)

2-4 minutes – 27% (764/2807)

4-6 minutes – 20% (567/2807)

6-8 minutes – 13% (356/2807)

8-10 minutes – 8% (220/2807)

10-15 minutes – 8% (226/2807)

15-20 minutes – 3% (79/2807)

20-30 minutes – 2% (54/2807)

30-60 minutes – 1% (30/2807)

**Time From FD Arrival on Scene Until Arrival at Victim (Search Time) v Survival Percentage:**

<2 minutes – 81% (409/507)

2-4 minutes – 69% (528/760)

4-6 minutes – 65% (367/564)

6-8 minutes – 58% (205/353)

8-10 minutes – 54% (116/215)

10-15 minutes – 50% (113/224)

15-20 minutes – 37% (29/79)

20-30 minutes – 30% (16/53)

30-60 minutes – 13% (4/30)

**Time From Arrival at Victim Until Victim Removed (Removal Time) v Total Recorded Rescues:**

<2 minutes – 58% (1494/2581)

2-4 minutes – 21% (550/2581)

4-6 minutes – 10% (247/2581)

6-8 minutes – 4% (114/2581)

8-10 minutes – 3% (80/2581)

10-15 minutes – 2% (42/2581)

15-20 minutes – 1% (27/2581)

20-30 minutes – 1% (13/2581)

30-60 minutes – 1% (14/2581)

**Time From Arrival at Victim Until Victim Removed (Removal Time) v Survival Percentage:**

<2 minutes – 67% (989/1483)

2-4 minutes – 73% (400/545)

4-6 minutes – 68% (168/246)

6-8 minutes – 61% (69/114)

8-10 minutes – 57% (45/79)

10-15 minutes – 48% (20/42)

15-20 minutes – 33% (9/27)

20-30 minutes – 38% (5/13)

30-60 minutes – 7% (1/14)

**Time From FD Arrival on Scene Until Victim Removed (Total Rescue Time) v Total Recorded Rescues:**

<2 minutes – 16% (348/2211)

2-4 minutes – 28% (615/2211)

4-6 minutes – 18% (397/2211)

6-8 minutes – 12% (255/2211)

8-10 minutes – 9% (205/2211)

10 - 15 minutes –11 % (237/2211)

15 - 20 minutes – 4% (89/2211)

20 – 30 minutes – 2% (47/2211)

30 – 60 minutes – 1% (18/2211)

**Time From FD Arrival on Scene Until Victim Removed (Total Rescue Time) v Survival Percentage:**

<2 minutes – 79% (273/345)

2-4 minutes – 73% (444/612)

4-6 minutes – 65% (256/394)

6-8 minutes – 65% (166/254)

8-10 minutes – 62% (124/201)

10 - 15 minutes – 62% (145/233)

15 - 20 minutes – 47% (42/89)

20 – 30 minutes – 40% (19/47)

30 – 60 minutes – 56% (10/18)

**Time from fire department arrival on scene until water on the fire v Total Recorded Rescues:**

<2 minutes – 14% (125/896)

2-4 minutes – 27% (244/896)

4-6 minutes – 22% (197/896)

6-8 minutes – 15% (133/896)

8-10 minutes – 9% (78/896)

10-15 minutes – 10% (90/896)

15-20 minutes – 1% (12/896)

20-30 minutes – 1% (12/896)

30-60 minutes – 1% (5/896)

**Time from fire department arrival on scene until water on the fire v Survival Percentage:**

<2 minutes – 58% (72/125)

2-4 minutes – 74% (177/240)

4-6 minutes – 74% (145/195)

6-8 minutes – 68% (90/132)

8-10 minutes – 77% (59/77)

10-15 minutes – 72% (65/90)

15-20 minutes – 67% (8/12)

20-30 minutes – 42% (5/12)

30-60 minutes – 0% (0/5)

**Time from dispatch until water on the fire v Total Recorded Rescues:**

<2 minutes – 1% (10/681)

2-4 minutes – 7% (49/681)

4-6 minutes – 21% (143/681)

6-8 minutes – 23% (154/681)

8-10 minutes – 19% (129/681)

10-15 minutes – 19% (130/681)

15-20 minutes – 6% (38/681)

20-30 minutes – 2% (16/681)

30-60 minutes – 2% (12/681)

**Time from dispatch until water on the fire v Survival Percentage:**

<2 minutes – 60% (6/10)

2-4 minutes – 78% (36/46)

4-6 minutes – 78% (111/142)

6-8 minutes – 72% (109/152)

8-10 minutes – 71% (91/128)

10-15 minutes – 71% (92/130)

15-20 minutes – 68% (26/38)

20-30 minutes – 44% (7/16)

30-60 minutes – 8% (1/12)

**Time from dispatch until victim removal v Total Recorded Rescues:**

<2 minutes – 1% (8/675)

2-4 minutes – 5% (31/675)

4-6 minutes – 8% (57/675)

6-8 minutes – 13% (90/675)

8-10 minutes – 17% (113/675)

10-15 minutes – 31% (210/675)

15-20 minutes – 12% (84/675)

20-30 minutes – 9% (60/675)

30-60 minutes – 3% (22/675)

**Time from dispatch until victim removal v Survival Percentage:**

<2 minutes – 75% (6/8)

2-4 minutes – 65% (20/31)

4-6 minutes – 86% (49/57)

6-8 minutes – 91% (81/89)

8-10 minutes – 82% (92/112)

10-15 minutes – 73% (150/206)

15-20 minutes – 63% (53/84)

20-30 minutes – 37% (22/60)

30-60 minutes – 36% (8/22)

**How Was Victim Removed v Total Recorded Rescues:**

Walk or Crawl Under Victim’s Own Power – 15% (265/1792)

Drag or Carry with Firefighter(s) Hands (Dirty Drag) – 72% (1299/1792)

Drag or Carry with webbing (or similar) – 4% (71/1792)

Other – 8% (157/1792)

**How Was Victim Removed v Survival Percentage:**

Walk or Crawl Under Victim’s Own Power – 98% (258/262)

Drag or Carry with Firefighter(s) Hands (Dirty Drag) – 55% (712/1287)

Drag or Carry with webbing (or similar) – 47% (33/70)

Other – 72% (112/156)

**Path of Removal v Total Recorded Rescues:**

Window (Head First) – 6% (122/2097)

Window (Feet First) – 4% (93/2097)

Door – 82% (1727/2097)

Not Removed – 1% (22/2097)

Other – 6% (133/2097)

**Path of Removal v Survival Percentage:**

Window (Head First) – 73% (88/120)

Window (Feet First) – 88% (81/92)

Door – 62% (1065/1717)

Not Removed – 0% (0/22)

Other – 72% (94/130)

**How was victim brought to ground level v Total Recorded Rescues?**

Ground Ladder – 50% (415/838)

Aerial Ladder – 4% (32/838)

Interior Stairs – 21% (173/838)

Exterior Stairs – 10% (80/838)

Not Applicable/First Floor Window – 11% (95/838)

Other – 5% (43/838)

**How was victim brought to ground level v Survival Percentage?**

Ground Ladder – 86% (355/411)

Aerial Ladder – 87% (27/31)

Interior Stairs – 75% (128/170)

Exterior Stairs – 71% (57/80)

Not Applicable/First Floor Window – 51% (48/94)

Other – 70% (30/43)

**Was victim moved up or down interior stairs v Total Recorded Rescues?**

Yes (Victim was Moved Up Stairs) – 4% (20/571)

Yes (Victim was Moved Down Stairs) – 32% (181/571)

No – 65% (370/571)

**Was victim moved up or down interior stairs v Survival Percentage?**

Yes (Victim was Moved Up Stairs) – 50% (10/20)

Yes (Victim was Moved Down Stairs) – 78% (138/178)

No – 75% (275/367)

**Was victim ever purposefully sheltered in placed (for over 2 minutes) v Total Recorded Rescues?**

Yes – 7% (75/1018)

No – 93% (943/1018)

**Was victim ever purposefully sheltered in placed (for over 2 minutes) v Survival Percentage?**

Yes – 91% (67/74)

No – 68% (639/937)

**Number of Rescuers Needed for Removal v Total Recorded Rescues:**

1 – 23% (688/2970)

2 – 42% (1256/2970)

3 – 19% (560/2970)

4-6 – 14% (427/2970)

>6 – 1% (39/2970)

**Number of Rescuers Needed for Removal v Survival Percentage:**

1 – 77% (528/685)

2 – 65% (807/1244)

3 – 59% (327/556)

4-6 – 55% (231/423)

>6 – 26% (10/39)

**Was a Cyanokit used v Total Recorded Rescues?**

Yes – 15% (324/2163)

No (Cyanokit was not available on scene) – 23% (499/2163)

No – 62% (1340/2163)

\* All No categories – 85% (1839/2163)

**Was a Cyanokit used v Survival Percentage?**

Yes – 68% (219/323)

No (Cyanokit was not available on scene) – 69% (342/493)

No – 68% (914/1337)

\* All No categories – 69% (1256/1830)

**Was CPR Performed on Victim v Total Recorded Rescues:**

Yes – 38% (919/2434)

No – 62% (1515/2434)

**Was CPR Performed on Victim v Survival Percentage:**

Yes – 31% (285/911) – No Cyanokit - 32% (149/471) ; Cyanokit 39% (61/155)

No – 82% (1239/1509)

**Was Victim Transported to a Hospital v Total Recorded Rescues:**

Yes – 75% (1981/2651)

No – 25% (670/2651)

**Was Victim Transported to a Hospital v Survival Percentage:**

Yes - 73% (1438/1965) – No Cyanokit - 75% (888/1182) ; Cyanokit 70% (215/305)

No – 54% (364/669)

**Was Victim Conscious Upon Removal From Structure v Total Recorded Rescues:**

Yes – 36% (955/2678)

No – 64% (1723/2678)

**Was Victim Conscious Upon Removal From Structure v Survival Percentage:**

Yes – 98% (932/955)

No – 43% (733/1709) – No Cyanokit - 43% (410/963) ; Cyanokit 57% (133/235)

\* 55% (314/569) survival percentage for unconscious victims when CPR was not performed

**Victim Burns v Total Recorded Rescues:**

None – 45% (1080/2421)

Mild – 31% (758/2421)

Severe – 24% (583/2421)

**Victim Burns v Survival Percentage:**

None – 84% (904/1075)

Mild – 59% (446/754)

Severe – 36% (206/579)

\* 42% (122/292) survival percentage for victims with severe burns when CPR was not performed

**Victim Burns v Cyanokit v Total Recorded Rescues:**

None – 951 (No Cyanokit) ; 104 (Cyanokit)

Mild – 478 (No Cyanokit) ; 107 (Cyanokit)

Severe – 393 (No Cyanokit) ; 52 (Cyanokit)

**Victim Burns v Cyanokit v Survival Rate:**

None – 85% (803/947) (No Cyanokit) ; 77% (80/104) (Cyanokit)

Mild – 61% (290/476) (No Cyanokit) ; 65% (69/106) (Cyanokit)

Severe – 39% (151/391) (No Cyanokit) ; 48% (25/52) (Cyanokit)

**Did Victim Suffer Smoke Inhalation (v Cyanokit) v Total Recorded Rescues:**

Yes – 93% (2543/2739)

No – 7% (196/2739)

**Did Victim Suffer Smoke Inhalation v Survival Percentage:**

Yes – 65% (1644/2525) – No Cyanokit - 66% (1064/1620) ; Cyanokit 69% (216/311)

No – 94% (183/195)

**Medical Treatment v Survival Percentage:**

CPR – 31% (285/911)

Cyanokit – 68% (219/323)

Hospital – 73% (1438/1965)

**Condition of Victim (v Cyanokit) v Survival Percentage:**

Smoke Inhalation – 65% (1644/2525) – No Cyanokit - 66% (1064/1620) ; Cyanokit 69% (216/311)

Unconscious – 43% (733/1709) – No Cyanokit - 43% (410/963) ; Cyanokit 57% (133/235)

Severe Burns – 36% (206/579) – No Cyanokit 39% (151/391); Cyanokit 48% (25/52)

CPR – 31% (285/911) – No Cyanokit - 32% (149/471) ; Cyanokit 39% (61/155)

**Condition of Victim v Survival Percentage:**

Unconscious (no CPR) – 55% (314/569)

Severe Burns (no CPR) – 42% (122/292)

CPR – 31% (285/911)

**Total Recorded Rescues v Survival Percentage:**

Alive – 64% (1916/3005)

Deceased – 36% (1089/3005)