

YEARLY OVERVIEW



11

TOTAL AMOUNT

£52,087,500

April 2015 to March 2016

Lives saved 1 April 2015 to 31 March 2016

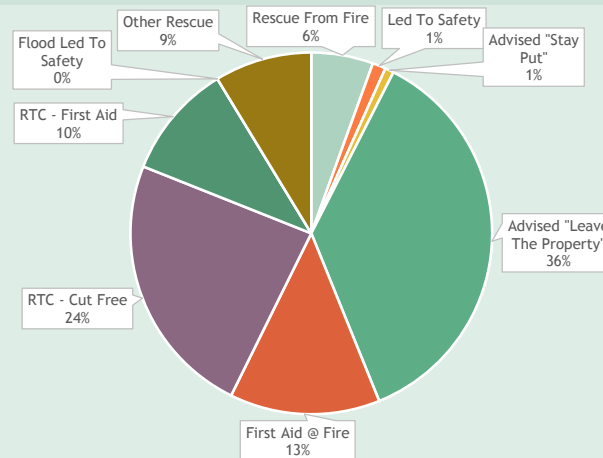
This information paper highlights the number of people that have been protected from harm, or rescued by operational crew.
Data for this indicator is provided by Fire Control on a daily basis as part of the notable incidents record.

Incident Breakdown Totals

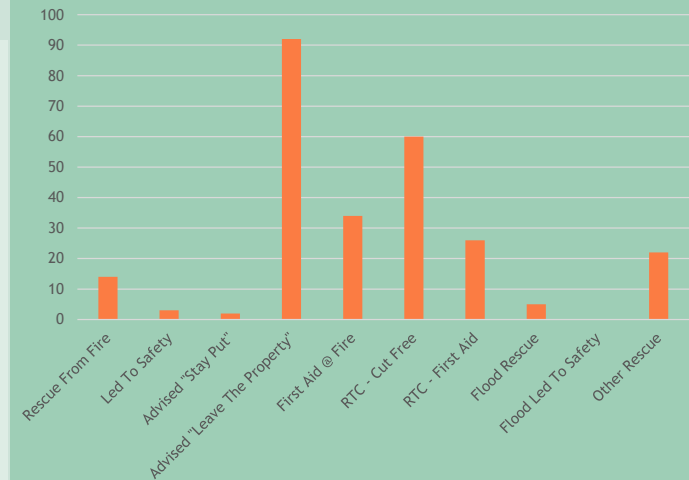
| Incident Type | Total No | Multiplier | Value £ |
|------------------------------|----------|------------|-------------|
| Rescue From Fire | 14 | 100% | £10,500,000 |
| Led To Safety | 3 | 100% | £2,250,000 |
| Advised "Stay Put" | 2 | 100% | £1,500,000 |
| Advised "Leave The Property" | 92 | 25% | £16,687,500 |
| First Aid @ Fire | 34 | 10% | £2,550,000 |
| RTC - Cut Free | 60 | 25% | £11,250,000 |
| RTC - First Aid | 26 | 10% | £1,950,000 |
| Flood Rescue | 5 | 100% | £3,750,000 |
| Flood Led To Safety | 0 | 25% | £0 |
| Other Rescue | 22 | 10% | £1,650,000 |

Accumulative Total

Total No 258 Value £52,087,500



Incident Type



YEARLY OVERVIEW



TOTAL AMOUNT

£37,740,000

April 2016 to March 2017

Lives saved 1 April 2016 to 31 March 2017

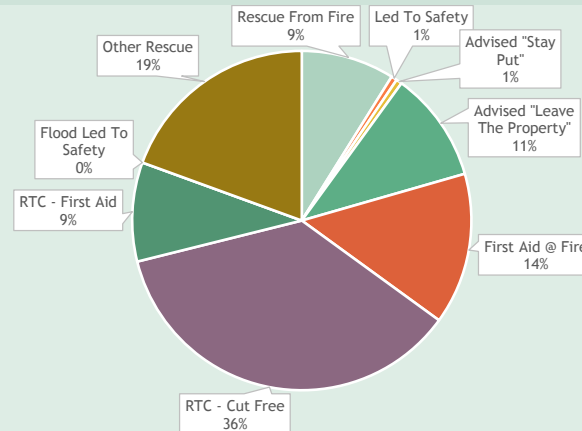
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Incident Breakdown Totals

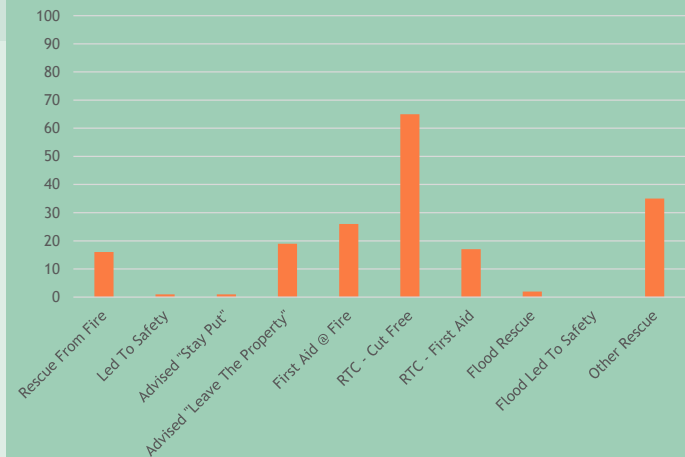
| Incident Type | Total No | Multiplier | Value £ |
|------------------------------|----------|------------|-------------|
| Rescue From Fire | 16 | 100% | £12,000,000 |
| Led To Safety | 1 | 100% | £750,000 |
| Advised "Stay Put" | 1 | 100% | £3,000,000 |
| Advised "Leave The Property" | 19 | 25% | £3,562,500 |
| First Aid @ Fire | 26 | 10% | £1,365,000 |
| RTC - Cut Free | 65 | 25% | £12,187,500 |
| RTC - First Aid | 17 | 10% | £1,140,000 |
| Flood Rescue | 2 | 100% | £1,500,000 |
| Flood Led To Safety | 0 | 25% | £0 |
| Other Rescue | 35 | 10% | £2,235,000 |

Accumulative Total

Total No 182 Value £37,740,000



Incident Type



Explanatory Notes

Economic Value of Life

There is no standard concept for the value of a specific human life in economics. Previous discussions at SMT have raised the issue of appropriateness when placing a monetary value on life and the difficulties this presents when the people we save from fire or other incident are of varying ages and abilities. The previously cited figure of £1.2 million pounds is derived from road safety meta-analysis, and relates to the total average cost to the economy of a road collision which results in the death of a casualty, and includes data on age, location, dealing with the incident, dealing with injuries, recovery periods and more. This would appear too complex for SFRS purposes.

However, in order to determine the financial benefit of carrying out treatment regimens on hospital patients, estimates are applied to the value of life for every additional year of “quality life” that person may enjoy. The official NHS adviser has imposed a threshold of £30,000 for an added year of life provided by a treatment. This figure could reasonably be adopted by SFRS as our activity can guarantee an extended life beyond our operational intervention.

It is therefore proposed that using available data on age of casualties (persons whose lives we have saved), with an upper threshold of 80 years (average life expectancy in the population), and multiplying by a factor of £30,000 we will arrive at a value of lives saved.

So for example, a person aged 60 rescued from a house fire would have a life expectancy of $80 - 60 \text{ years} = 20 \text{ years} \times £30,000 = £600,000$ value of life saved.

For the purposes of providing an estimate of the value of SFRS, and in the absence of confirmed age data in relation to the casualties the following value estimate is based on all casualties surviving for 25 years after our intervention and uses the following multipliers:

| Incident Type | Multiplier |
|----------------------|------------|
| Rescue from fire | 100% |
| Led to safety | 100% |
| “Stay put” | 50% |
| “leave the property” | 25% |
| First aid @ fire | 10% |
| RTC cut free | 25% |
| RTC first aid | 10% |
| Flood rescue | 100% |
| Flood led to safety | 25% |
| Other rescue | 10% |