

**Appleby Fire Station**  
**Risk Based Evidence Profile 2018**  
**Risk Review**



**Prepared by Cumbria County Council  
Performance and Intelligence Team**

**September 2018**

## Contents

Introduction .....	3
Station Area and Resources.....	4
Fire Engine Availability .....	5
Station Fire Engine Response Times.....	5
Station Area Response Priorities.....	6
Primary Fire Response Profile.....	7
Incident and Risk Profile .....	7
Prevention and Protection Activity .....	8
Injury Road Traffic Collision Response Profile.....	9
Incident and Risk Profile .....	9
Prevention and Protection.....	10
Flooding and Water Rescue - Response Profile .....	11
Incident and Risk Profile .....	11
Prevention and Protection Activity .....	11
Other Risk information.....	12
Horizon Scanning.....	14

## Introduction

This document forms part of the Risk-Based Evidence Profile 2018 (RBEP 2018). The RBEP 2018 is comprised of a 'core' document profiling risk and demand across the county, and 38 individual station profiles (of which this is one).

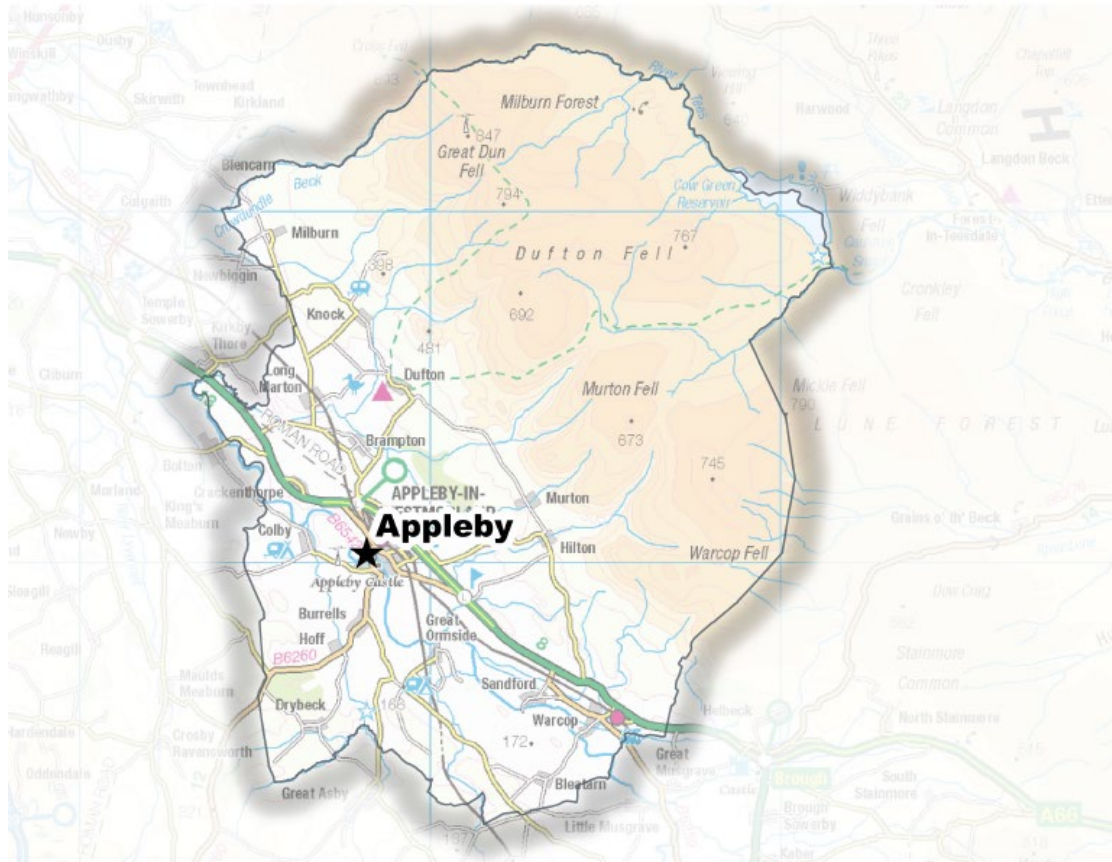
The RBEP 2018 is developed to support the Integrated Risk Management Plan (IRMP) 2019-23. The purpose of the IRMP 19-23 is to identify and assess fire and rescue related risks for the next four years, and set out what the service is going to do to address them.

Each station profile details the station area and its available resources, alongside the demand and risk for that station. Prevention and protection activities are also provided to evaluate the scope of mitigating actions that have been taken to address high priority risks.

Horizon scanning is conducted to identify any significant infrastructure, economic and housing developments which need to be taken into account for future service provision.

## Station Area and Resources

The fire station is situated in Appleby. A map of the 'station area'<sup>1</sup> is shown below. The station in 17/18 was crewed by 12 firefighters working the On-call duty system.



Station Area	5,500 population
Crewing Type	On-call
Fire Engines	1 fire engine and 1 Wildfire Land Rover

The following table indicates the travel distance in miles from Appleby Fire Station to the next nearest three fire stations.

Station Name	Distance by Road (MILES)
Kirkby Stephen	10
Shap	11
Penrith	13

<sup>1</sup> This is a nominal area which distributes the county across its 38 stations for the purposes of management and performance benchmarking.

## Fire Engine Availability

During 2017/18 the Appleby On-call fire engine had been off duty for 2.49% of the time.

C62P1	2015/16	2016/17	2017/18
Total Availability	92.09%	96.99%	97.51%
Mon - Fri (08:00 - 18:00)	85.04%	97.03%	97.7%
Mon - Thurs (18:00 - 08:00)	99.36%	99.88%	99.48%
Fri - Mon (18:00 - 08:00)	91.18%	94.36%	95.59%

## Station Fire Engine Response Times

Appleby fire engine has been called to the following number of incidents over the last three years with the associated response times. Some of the incidents attended may have been in neighbouring station areas.

Between 2015/16 and 2017/18 the Appleby On-call fire engine (C62P1) had the following response times below

C62P1	2015/16	2016/17	2017/18
Average crew turnout time (time it takes the crew to respond to the station)	4 mins 48 secs	4 mins 56 secs	5 mins 15 secs
Average response time (time it takes the crew to arrive at the incident from the station)	8 mins 16 secs	9 mins 34 secs	9 mins 12 secs
Number of incidents attended by fire engine C62P1	49	51	63

## Station Area Response Priorities

A 3 year profile of demand within the station area, with associated number of fatalities and seriously injured casualties, is detailed in the table below.

**Table 1: Prevention, Protection and Response Priorities: Appleby**

Fire, Rescue and Road Safety Priorities 2018/19	Incidents			Fatalities				Seriously Injured Casualties				PRIORITY	2017/18 compared to 3yr average <sup>3</sup>
	2015/16	2016/17	2017/18	2015/16	2016/17	2017/18	Average per 100 incidents	2015/16	2016/17	2017/18	Average per 100 incidents		
All incidents	41	36	53	1	-	1	15	-	-	7	5.4	n/a	↑
Injury Road Traffic Collisions <sup>1</sup>	2	4	5	1	-	1	18.2			6	54.5	Very High	↑
Primary Fires <sup>2</sup>	5	5	6	-	-	-	0.0	-	-	-	0.0	Very High	↑
Flooding and water incidents	12	-	2	-	-	-	-	-	-	-	-	High	↓
Gas incl Carbon Monoxide	-	-	1	-	-	-	-	-	-	-	-	Medium	↑
Automatic Fire Alarms	5	17	22	-	-	-	-	-	-	-	-	Standard	↑
Wildfires <sup>4</sup>	-	-	-	-	-	-	-	-	-	-	-	Standard	↔
Animal Assistance Incidents	-	1	1	-	-	-	-	-	-	-	-	Standard	↔

↔ = No Difference +/-5%    ↑ = Higher    ↓ = Lower

<sup>1</sup>Injury Road Traffic Collisions include RTCs attended by CFRS where there was a fatality or a rescue with injury

<sup>2</sup>Primary fires include all fires in buildings, vehicles and outdoor structures or any fire involving casualties, rescues or fires attended by five or more appliances

<sup>3</sup>Increase or decrease if greater than 5% of three year average

<sup>4</sup>Wildfire is defined as any uncontrolled vegetation fire which requires a decision, or action, regarding suppression, plus any one of the following criteria (i) involves a geographical area of greater than 1 hectare (ii) has a sustained flame length of 1.m (iii) requires a committed resource of 4 or more appliances (iv) requires resources to be committed for over 6 hours (v) presents a serious threat to life, environment, property and infrastructure

## Primary Fire Response Profile

### Incident and Risk Profile

In 2017/18, there were 53 incidents within Appleby Station area with 1 fatality as a result of road traffic collision. This included 5 Injury RTCs, 6 primary fires and 2 flooding and water incidents.

CFRS Risk Profile identifies the levels of risk within an area (Lower Super Output Area<sup>2</sup>) of incident types occurring – this is based on the likelihood of an incident occurring and also on the likelihood of that incident being of a life-threatening or serious nature. Full details of the risk model calculations used are in Appendix B of the RBEP 2018.

The fire risk model shows an increasing fire risk for Appleby Fire Station with no high level risk LSOAs, and overall risk score increasing from 84 in 2014/15 to 92 in 2018/19, a decrease of 10%.

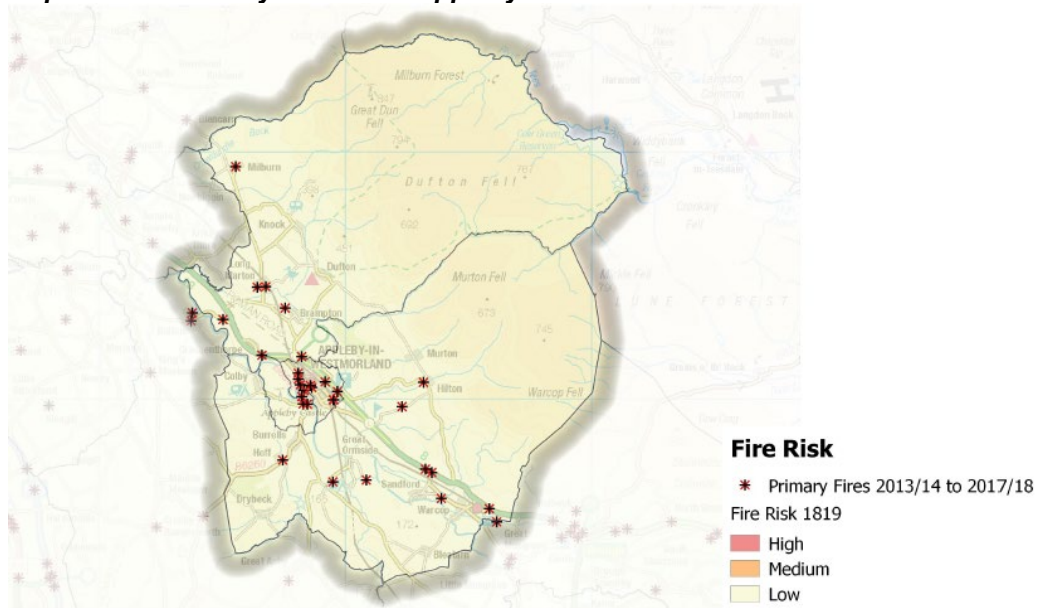
**Table 2: 18/19 Primary Fire Risk – Appleby**

Appleby Risk Profile		Incidents 2009/10 - 13/14		Incidents 2010/11 - 14/15		Incidents 2011/12 - 15/16		Incidents 2012/13 - 16/17		Incidents 2013/14 - 17/18	
		2014/15 Risk		2015/16 Risk		2016/17 Risk		2017/18 Risk		2018/19 Risk	
Score	Risk Grade	Risk Score	No of LSOAs	Risk Score	No of LSOAs	Risk Score	No of LSOAs	Risk Score	No of LSOAs	Risk Score	No of LSOAs
>=76	High	0	0	0	0	0	0	0	0	0	0
35- 75	Medium	0	0	0	0	0	0	0	0	0	0
<=34	Low	84	4	94	4	92	4	92	4	92	4
<b>TOTAL</b>		<b>84</b>	<b>4</b>	<b>94</b>	<b>4</b>	<b>92</b>	<b>4</b>	<b>92</b>	<b>4</b>	<b>92</b>	<b>4</b>

The map of Fire Risk below shows levels of Fire Risk by LSOA, with the last 5 years of primary fire incidents clustering within Appleby town centre.

<sup>2</sup> Lower Super Output Areas are geographic areas created by the [Office for National Statistics](https://www.ons.gov.uk/methods/geography/other-geographies/lsoas) to support statistical analysis at a more detailed geographical level. Each LSOA is designed to have similar population sizes of up to 1,200 households.

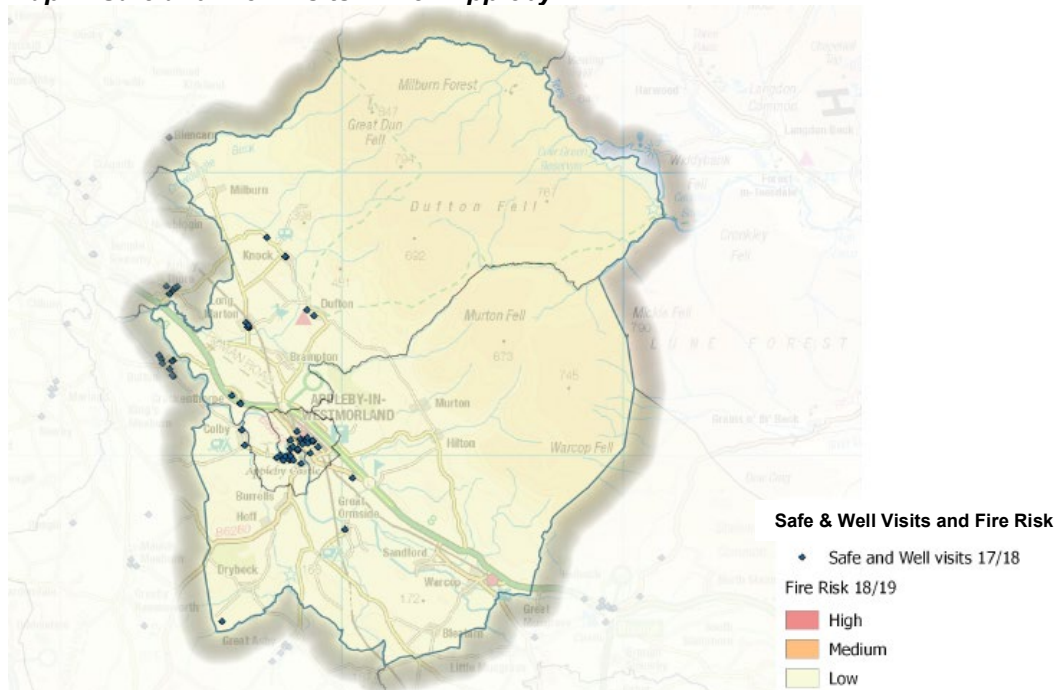
**Map 1: 18/19 Primary Fire Risk –Appleby**



**Prevention and Protection Activity**

In April 2017 CFRS implemented their new Safe and Well visits. These are targeted at individual households that are high risk, rather than areas of high risk as previously targeted in the Home Safety Visits. In 2017/18 CFRS conducted 10,432 Safe and Well visits across Cumbria.

**Map 2: Safe and Well Visits 17/18 –Appleby**





## Injury Road Traffic Collision Response Profile

### Incident and Risk Profile

The Injury RTC risk modelling shows an increasing rate of risk for Appleby Fire Station area. There is one LSOA that is high risk in 2018/19. The overall risk score decreases from 200 in 2014/15 to 321 in 2018/19 – an increase of 44%

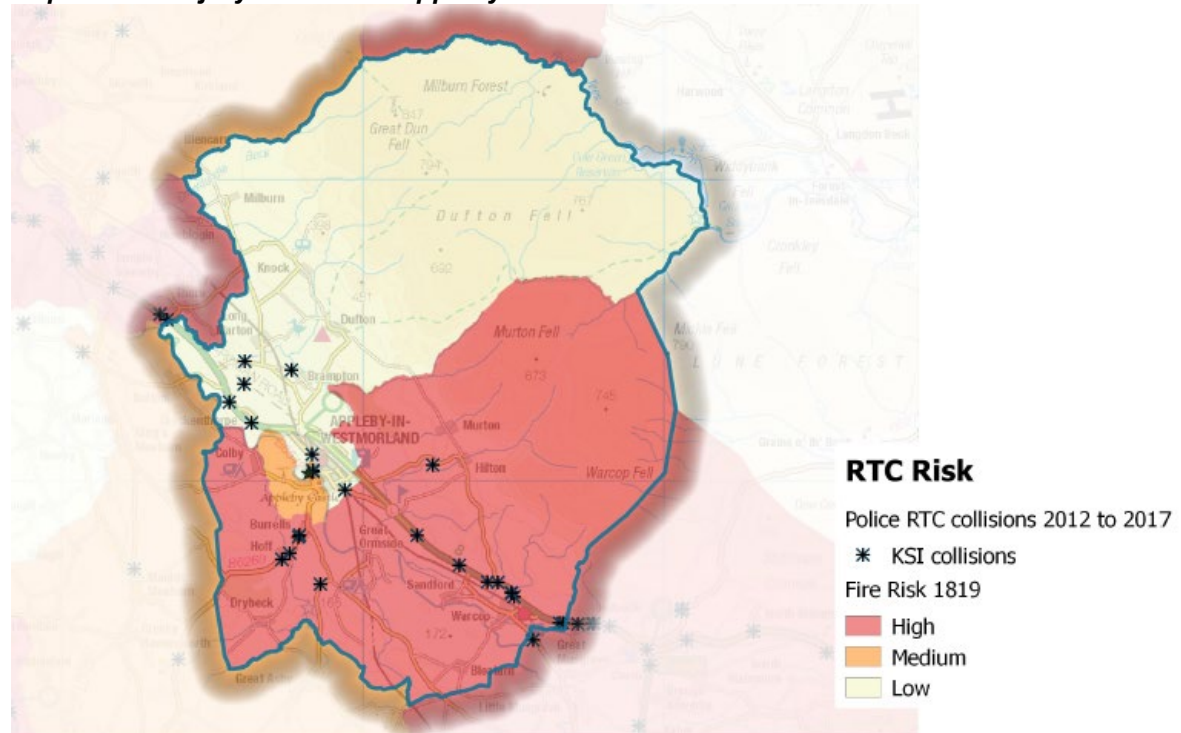
**Table 3: 18/19 Injury RTC Risk – Appleby**

Appleby Risk Profile		Incidents 2009/10 - 13/14		Incidents 2010/11 - 14/15		Incidents 2011/12 - 15/16		Incidents 2012/13 - 16/17		Incidents 2013/14 - 17/18	
		2014/15 Risk		2015/16 Risk		2016/17 Risk		2017/18 Risk		2018/19 Risk	
Score	Risk Grade	Risk Score	No of LSOA	Risk Score	No of LSOAs	Risk Score	No of LSOAs	Risk Score	No of LSOAs	Risk Score	No of LSOAs
100	High	100	1	100	1	200	2	100	1	100	1
24-100	Med	80	1	80	1	0	0	140	2	140	2
<=24	Low	20	2	72	2	84	2	36	1	48	1
<b>TOTAL</b>		<b>200</b>	<b>4</b>	<b>252</b>	<b>4</b>	<b>284</b>	<b>4</b>	<b>276</b>	<b>321</b>	<b>288</b>	<b>4</b>

Datasources: Cumbria Constabulary RTC Data, FireCore Incident data

The map below shows the risk levels by LSOA for Cumbria, overlaid with Killed/ Seriously Injured (KSI) incidents between 2012 and 2017. There is one high risk LSOA, 2 medium risk LSOAs and one low risk LSOAs.

**Map 3: 18/19 Injury RTC Risk –Appleby**



## Prevention and Protection

CFRS provide Road Awareness Training (RAT) sessions targeted at drivers aged 18 to 25 years, as these are at highest risk of being involved in a collision. We also currently provide RAT sessions targeted at those aged 55 years and older.

In Eden District, 3 RAT sessions were provided throughout 2017/18 a total of 120 attendees.

**Table 4: Number of RAT sessions 2017/18 by District**

Road Traffic Awareness Training Sessions completed 2017/18		
District	Number of RATs	Number attended
Allerdale	27	305
Barrow-in-Furness	7	257
Carlisle	24	629
Copeland	11	329
Eden	3	120
South Lakeland	10	507
<b>Cumbria</b>	<b>82</b>	<b>2,147</b>

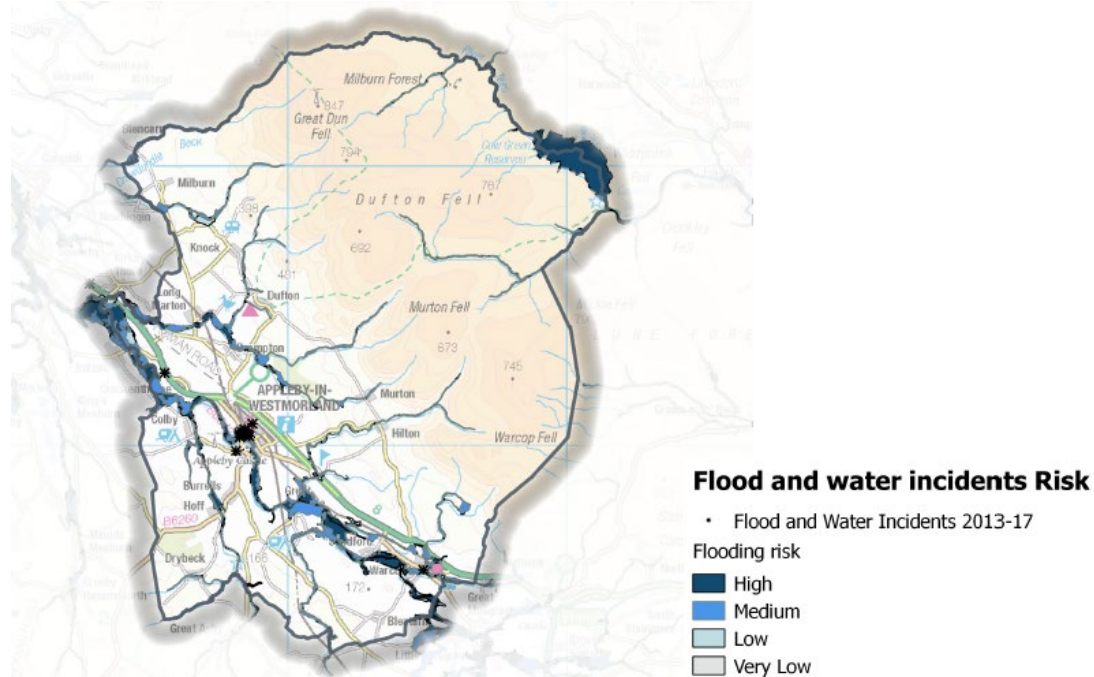
*Datasource: CFRMIS*

## Flooding and Water Rescue - Response Profile

### Incident and Risk Profile

Flood Risk is taken from the Environment Agency's Risk of Flooding from Rivers and Seas (Aug 2018). The risk of flooding is categorised into high, medium, low and very low areas. Incidents responded to by CFRS between 2013 and 2017 are overlaid on the risk areas.

**Map 4: Risk Map of Flooding based on Rivers and Seas (Aug 2018) - Appleby**



### Prevention and Protection Activity

The [Environment Agency's Cumbria Flood Action Plan](#) (1 June 2016) details 65 areas of action for implementation across Cumbria, Eden, Derwent and Kent and Leven Catchment areas. These proposed actions fall into five key themes

- Strengthening Defences
- Upstream Management
- Maintenance
- Resilience
- Water Level Management Boards

Full details of the Cumbria 2015 Flood Events are available in the [Flood Impact Assessment](#) Dec 2015.

## Other Risk information

Appleby, the old county town of Westmorland, is situated in East Cumbria in a rural location. The fire station covers approximately a seven mile radius which includes a large farming community and is also divided by the notorious A66 trunk road.

Being in a very rural location the majority of incidents involve farm fires, the usual domestic incidents, and because of the locality of the A66, road traffic collisions represent a high percentage of our turnouts. Notable incidents over the years include two RAF Tornados colliding near the small village of Milburn with the sad loss of all four aircrew.

Appleby	Risk in station area
Heritage	<p><b>Grade I listed:</b></p> <ul style="list-style-type: none"> <li>• Parish Church of St Lawrence</li> <li>• Lady Anne's Bee-house, in copse to north-east of former stable block at Appleby Castle</li> <li>• Nos.1 and 2 Castle Park, The Flat, Castle Park, and Former coachhouses and stables, Castle Park</li> <li>• Gateway to Appleby Castle courtyard, Gatehouse Cottage, and Castle Moat Cottage</li> <li>• Main Building of Appleby Castle</li> <li>• Caesar's Tower at Appleby Castle</li> <li>• Grange Hall and adjoining buildings, Asby</li> <li>• Parish Church of St Columba, Warcop</li> <li>• Church of All Saints, Bolton</li> <li>• Church of St Margaret &amp; St James, Long Marton</li> <li>• Church of St James, Bandleyside</li> <li>• Howgill Castle, Milburn</li> </ul> <p><b>Grade II* listed:</b></p> <ul style="list-style-type: none"> <li>• High Cross, Boroughgate</li> <li>• Rear wing to east of No 27 and The White House, Boroughgate</li> <li>• Low Cross, Boroughgate</li> <li>• No 30 Boroughgate</li> <li>• Lamp Post on north side of High Cross, Boroughgate</li> <li>• Nos 63 to 66 (Consec), Moot Hall, Boroughgate</li> <li>• The Cloisters, Boroughgate</li> <li>• Church of St Michael</li> <li>• Nos 1-5 (consec) and Nos 7-13 (consec), St Anne's Hospital and Chapel at St Anne's Hospital, Boroughgate Well to east of Grange Hall, Asby</li> <li>• Gaythorne Hall, Asby</li> <li>• Warcop Hall, Warcop</li> <li>• Bank barn to north- west of Barwise Hall, Bandleyside</li> <li>• Brackenber Hall and adjoining garage, Murton</li> <li>• Nether Hoff farmhouse, Colby</li> <li>• Crackenthorpe Hall, Crackenthorpe</li> <li>• Holesfoot House, Crosby Ravensworth</li> <li>• Drybeck Hall and attached buildings, Bandleyside</li> <li>• Asby Hall, area railings and central gate, Asby</li> </ul>

	<ul style="list-style-type: none"> <li>• Old Rectory, Asby</li> <li>• Ormside Hall and adjoining barns, Bandleyside</li> <li>• Kirkby Thore Hall, Kirkby Thore</li> <li>• Church of St Michael, Kirkby Thore</li> <li>• Murton Hall, adjoining store, and area wall to rear, Murton</li> <li>• Warcop Old Bridge over River Eden to south-west of Eden Gate, Warcop</li> </ul>
Environment	<ul style="list-style-type: none"> <li>• 8 Sites of Scientific Interest</li> </ul>
Site Specific Risks	<ul style="list-style-type: none"> <li>• An action plan exists to deal with Appleby Fair, an annual event which regularly attracts between 10,000 - 12,000 gypsy travellers and up to 30,000 visitors in the first week of June.</li> </ul>
Rurality	<ul style="list-style-type: none"> <li>• According to the DEFRA Urban/Rural classifications the 4 LSOAs that make up Appleby 2 are "Town and Fringe" and 2 are "Village and Hamlet".</li> </ul>

## Horizon Scanning

Risk and demand are constantly evolving across the county, and as such necessitate an evolving service to optimise efficiency and effectiveness. In the short to long-term a range of infrastructure and economic projects are anticipated across the county.

Currently there are no large infrastructure or economic projects planned within the Appleby Fire Station area, however the neighbouring station area, Penrith, has:

Station	Size	Project	Investment Impact
Penrith	Local	Gillwilly Phase 2	Bring forward future development
Penrith	Local	North Penrith	500 homes

Based on these economic and housing projects, Eden district's population is expected to remain relatively stable with projections of growth between 0% and +4% by 2023, which would lead to primary fires staying the same or increasing by 2. This would have no projected impact on fire casualty rates by 2023.