

Appendix A – Risk and demand analysis

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Data Analysis for Service Review 2026

Dataset taken from 01/01/23 – 31/12/25

This dataset was agreed as it gives a large enough sample for a relevant average. All figures given are an average per year based on this dataset.

Supporting Information

Lancashire Fire and Rescue Service (LFRS) carry out multiple processes to ensure that resources are allocated according to risk, this includes updating the Strategic Assessment of Risk, the Fire Risk Map, Community Risk Management Plan (CRMP), carrying out Emergency Cover and wider Service Reviews. All our resources are available to respond county wide, over the border and nationally, although on a day-to-day basis are strategically located based on risk across Lancashire.

Critical (life risk) incidents are split between Critical Fire, and Critical Special Service Calls. LFRS prioritises Critical Fire incidents and sets some of the most ambitious response standards across the UK for these incidents.

Crewing Systems

LFRS currently operates four crewing systems-

Wholetime 2/2/4

Permanently crewed by four watches of six firefighters on one pump stations and twelve firefighters on two pump stations, providing an immediate response to emergency calls at any time of day.

Day Crewing Plus (DCP)

Another wholetime duty system providing an immediate response at all times of day, with a slight delay at night due to responding from purpose-built accommodation on the site of the fire station. DCP operates a single watch of 12 firefighters who cover multiple days at a time, providing positive hours 08:00-20:00 and emergency cover from 20:00-08:00.

Flexible Day Crewing (FDC)

A hybrid system where a single watch of 12 wholetime firefighters provide an immediate response from 08:00-18:00, and a guaranteed On-Call response between 18:00-08:00 from their nearby home address (within 5 minutes of the fire station).

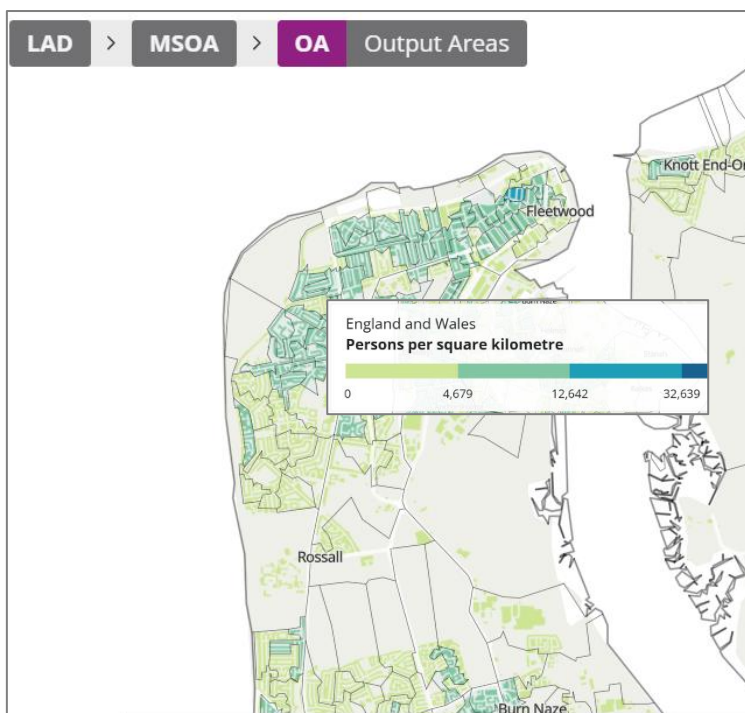
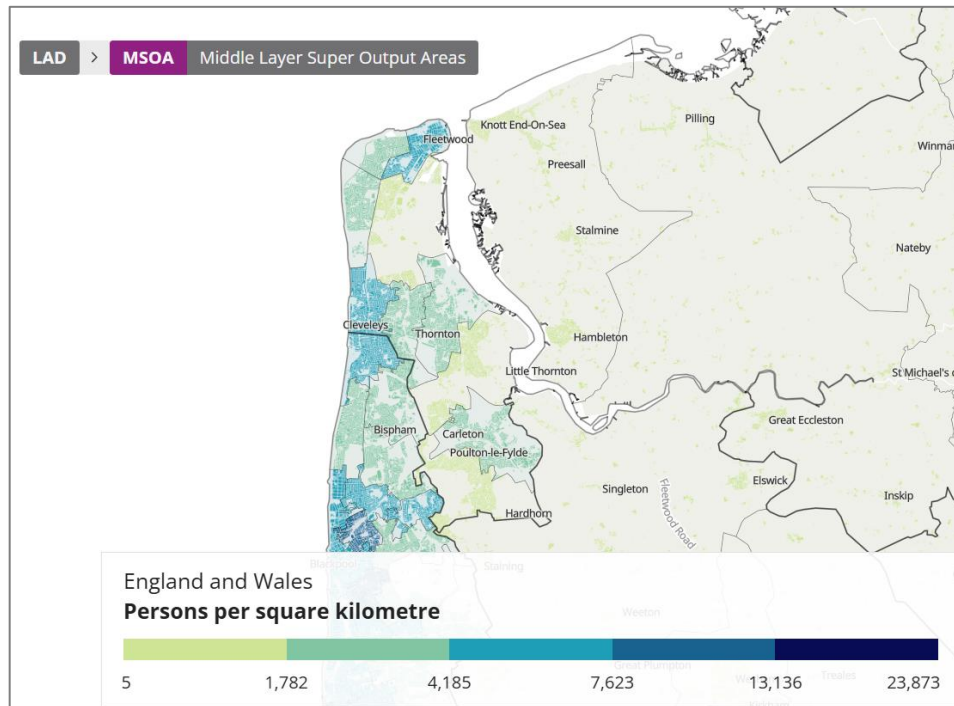
On-Call (OC)

On Call firefighters provide cover around their primary employment, responding to the fire station where there is an emergency call. The firefighters live or work, generally within 5 minutes of the fire station.

Fleetwood

Population and Risk

Across Lancashire there is a population density of 522 people per km². England's average is 450 people per km². Wyre district is 397 people per km². For comparison, Blackpool District is 4,041 people per km² and Rossendale District is 513 people per km² (ONS, Census 2021 Data).

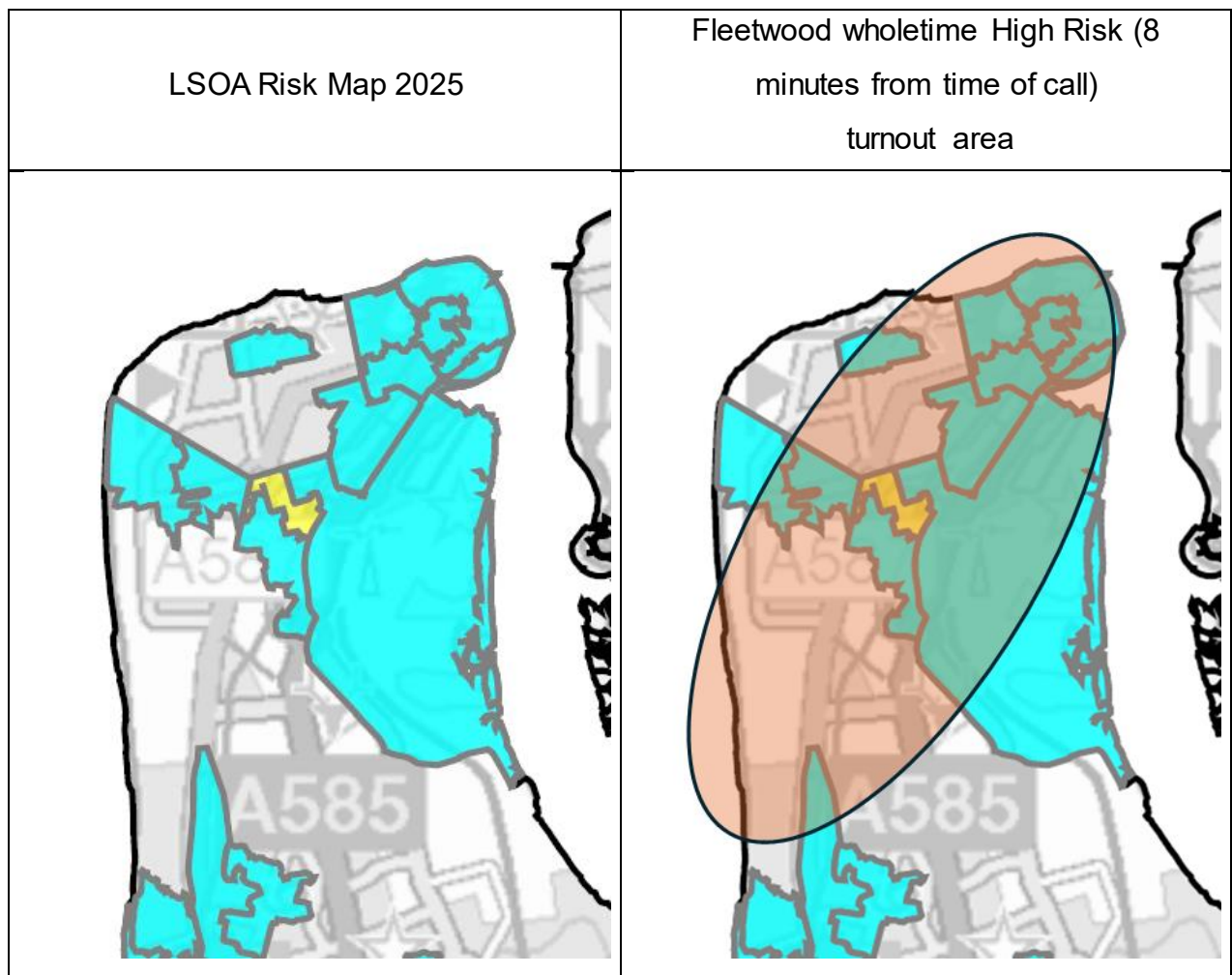


These two Census maps clearly show the concentration of population density within Fleetwood town. Note that the density figures above refer to the whole district rather than the individual Lower Super Output Areas (LSOA's).

The following maps show the overlay of our LSOA fire risk map and turnout area from home stations; this is dependent on duty systems and time of day.

Travel times shown in the following isochrones include call handling time at North West Fire Control (NWFC) (average of 70 seconds), and reaction time of firefighters on station to book mobile to incident (generally around 60 seconds).

Our current response standards to a critical fire incident in a Very High Risk LSOA is six minutes, or 360 seconds.



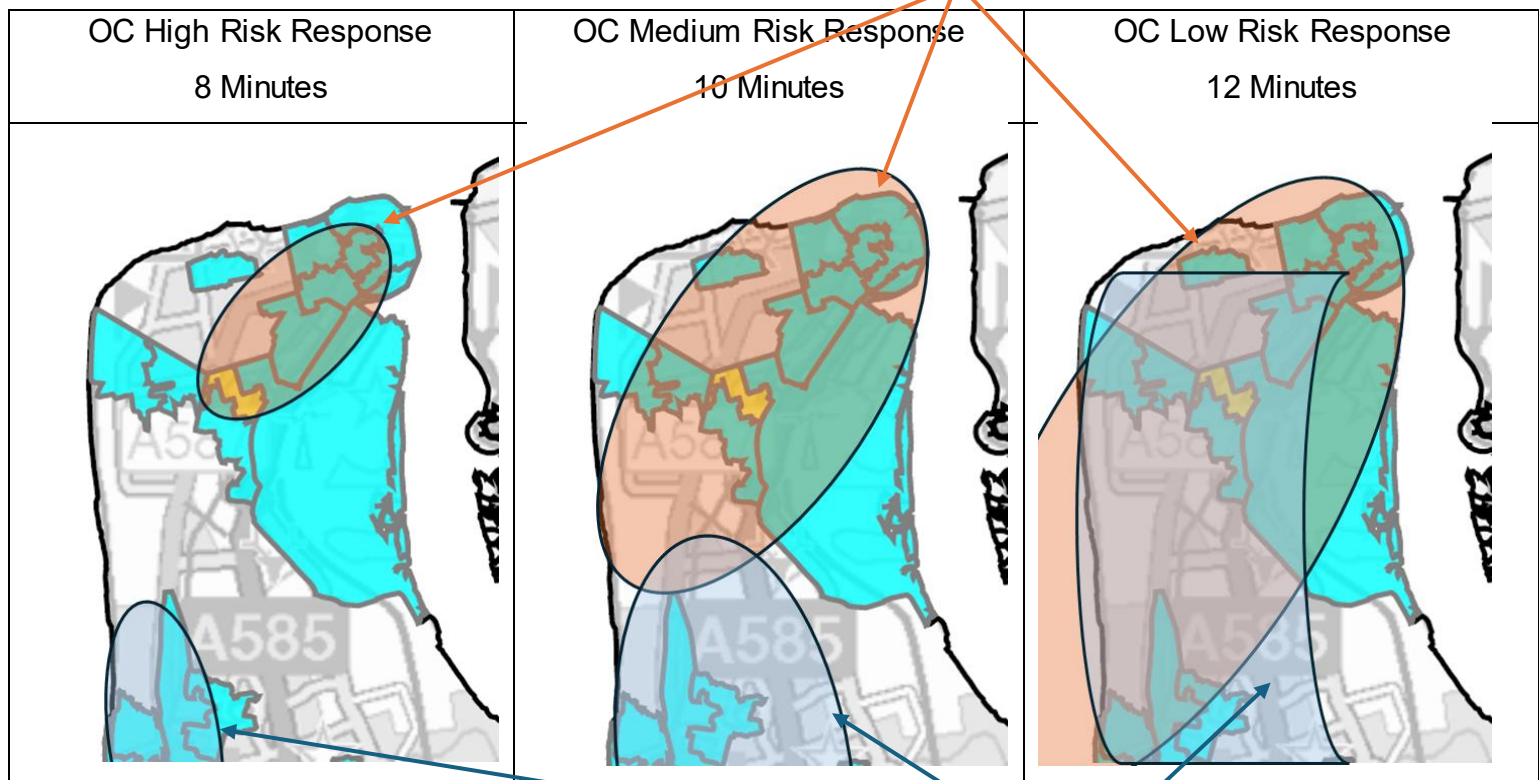
Shading	Risk	Response Time
Red (NA)	Very High	6 minutes
Yellow	High	8 minutes
Blue	Medium	10 minutes
Unshaded	Low	12 minutes

The map above shows the turnout area achievable by Wholetime crews from Fleetwood in eight minutes, which is our response standard for high risk areas (there are no very high risk areas in Fleetwood).

Fleetwood comfortably achieves the required attendance time for the one high risk LSOA in their area, which is in close proximity to the fire station.

The following maps confirm that a FDC unit based at Fleetwood would still be able to meet response standards to critical fire incidents at all times of the day, including when responding from their home address when on their 'on-call' element of their contract between 18:00 – 08:00.

Fleetwood response is represented by an orange overlay:

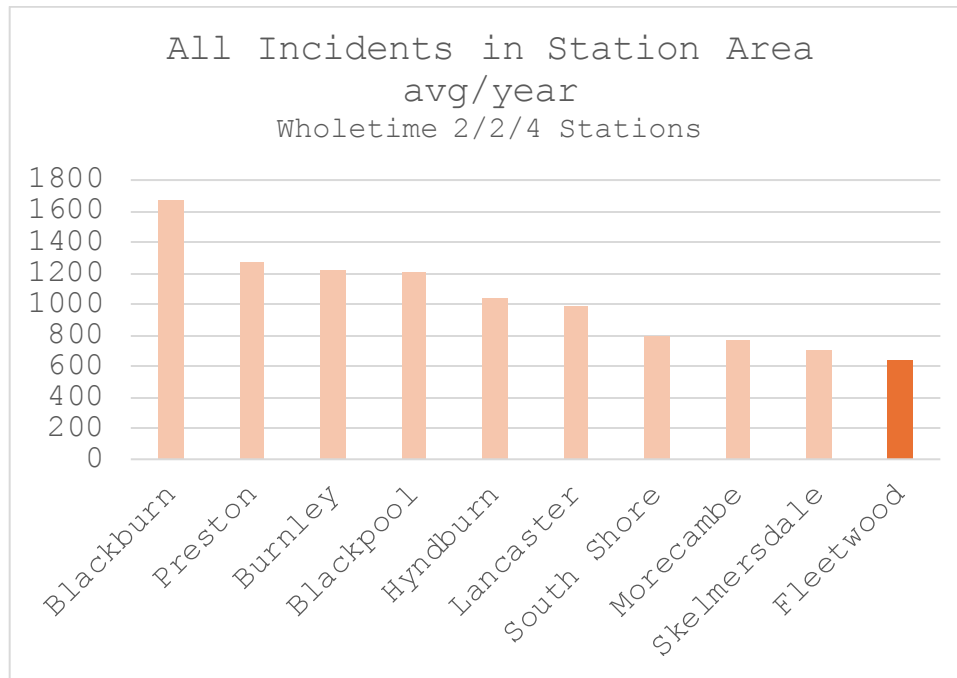


Bispham fire station's response is shown in the light blue overlay:

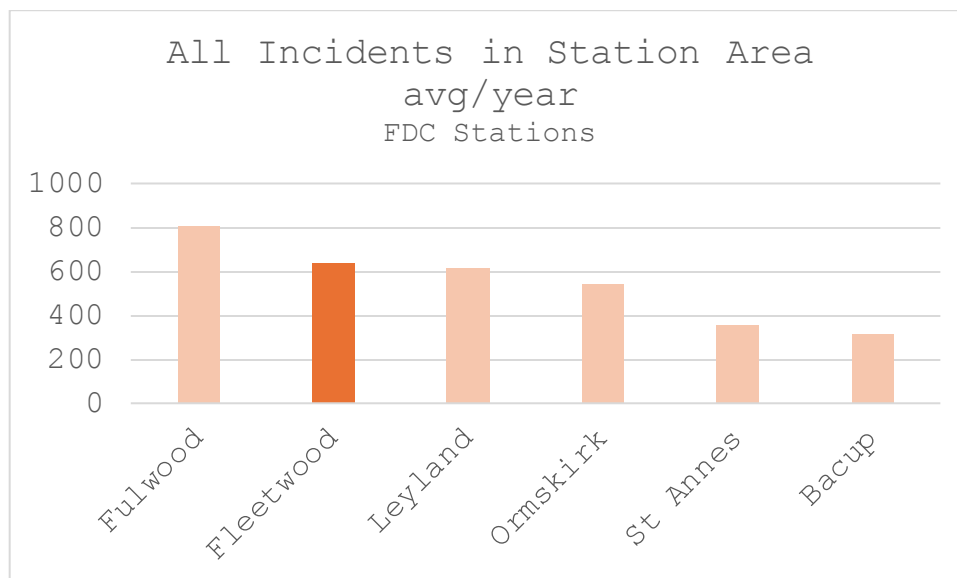
Fleetwood and Bispham's turnout areas start to over-cross at around 10-minute response times, due to the close proximity of the fire stations, thereby providing a very high level of community resilience across the northern area of the Fylde coast. Fleetwood and Bispham are approximately 5 miles apart, with excellent and fast road network connection via the Broadway (A587) and Promenade (A584).

Incident Demand

Fleetwood station area has an average of 636 incidents per year within their designated nominal station area, the lowest of any of Lancashire's wholetime (2/2/4) crewed stations. In comparison, Fulwood, currently a Flexi Day Crewed (FDC) station, receives an average of 806 incidents in its area annually.

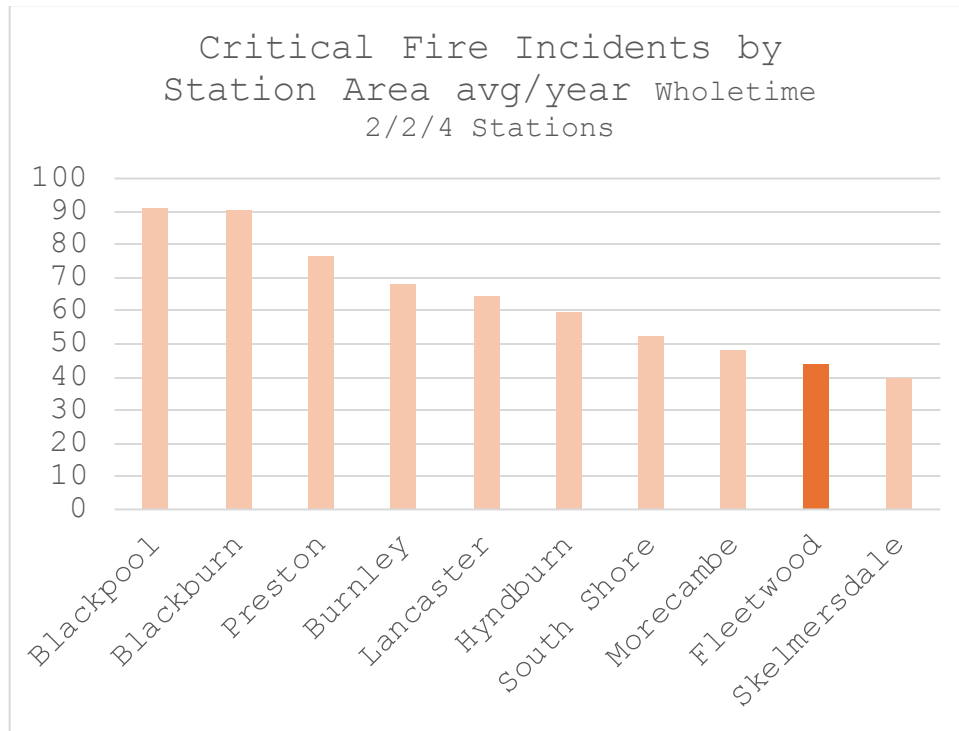


For comparison, Fleetwood has been shown below with the existing FDC stations.

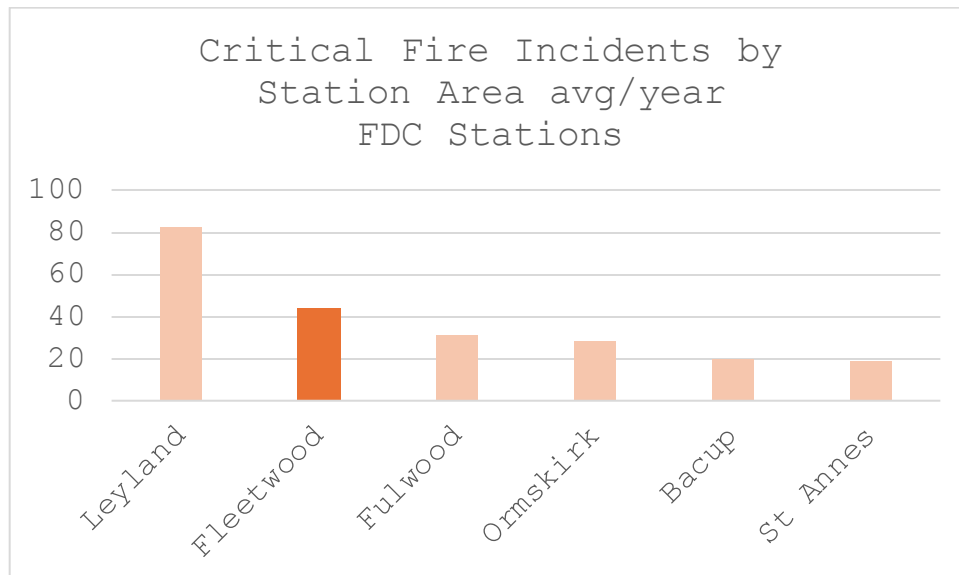


Critical Fire Incidents

In Fleetwood area, there are, on average 44 critical fire incidents per year, a slightly higher number than Skelmersdale, though substantially lower than Leyland (which is flexi-day crewed) at 82. The average number of critical fire incidents across FDC station areas is 36.



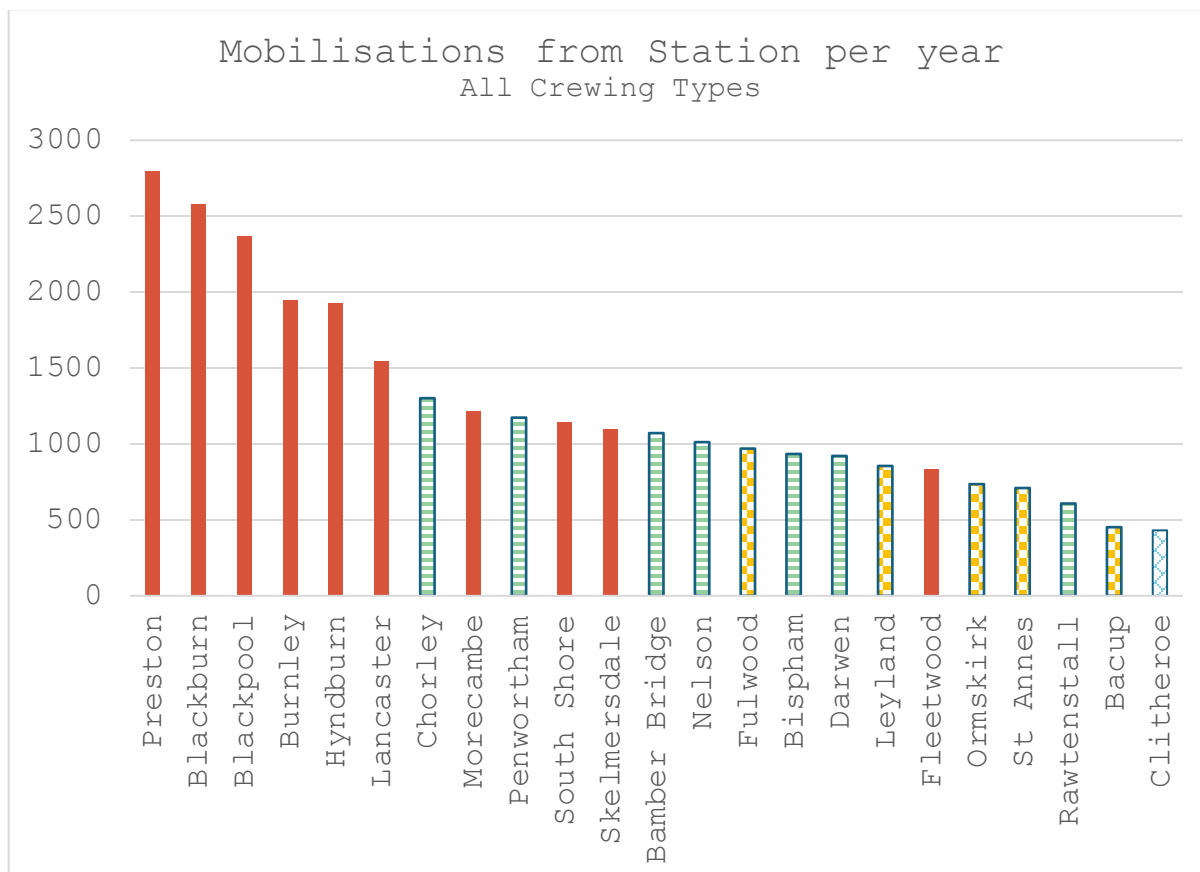
For comparison, Fleetwood has been shown below with the existing FDC stations.



Mobilisations by Station

Fleetwood station (both Wholetime and On Call appliances collectively) are mobilised, on average, 832 times per year. This makes Fleetwood the least utilised wholetime (2/2/4) pump, and its activity levels place it firmly alongside other FDC and DCP stations, as highlighted below.

● 2/2/4 ● DCP ■ FDC ● On Call



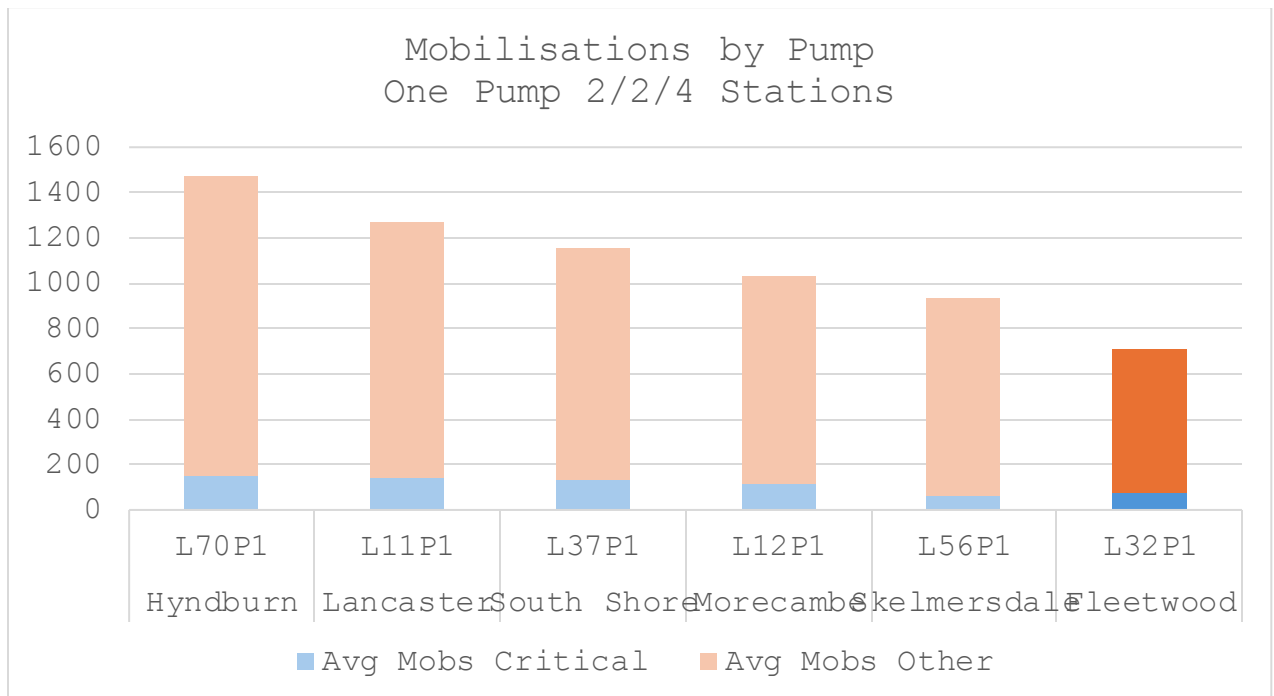
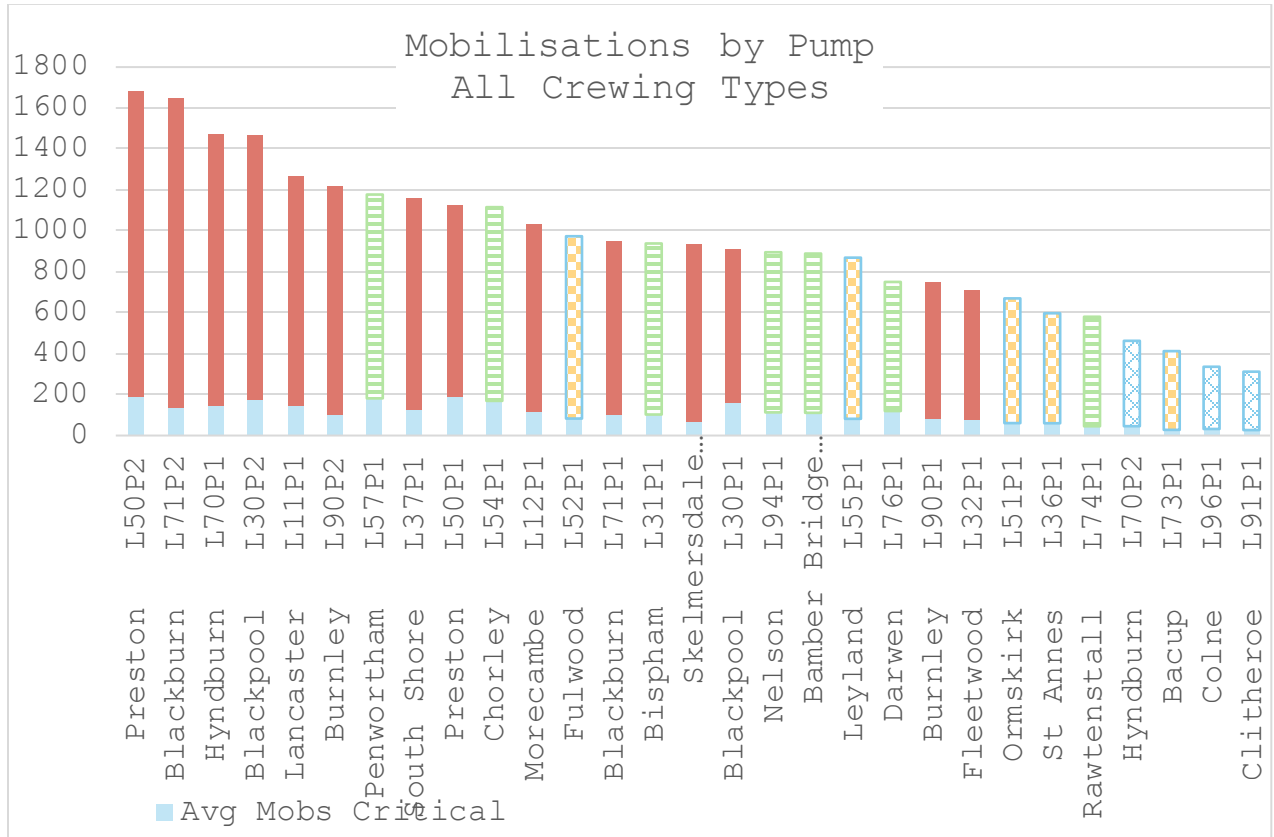
Lancashire currently has five FDC stations and six stations with one wholetime pump, the overall activity levels of the crewed pumps at each of these stations are placed in descending order below. Fleetwood has markedly lower activity levels than other one pump stations and fewer mobilisations than two other FDC stations.

Average Mobilisations per Year by Pump					
Crewing	Station	Callsign	Mobilised	Attended	% Att.
WT	Hyndburn	L70P1	1467	1268	86%
WT	Lancaster	L11P1	1259	1109	88%
WT	South Shore	L37P1	1146	1027	90%
WT	Morecambe	L12P1	1022	898	88%
FDC	Fulwood	L52P1	970	805	83%
FDC	Leyland	L55P1	855	719	84%
WT	Skelmersdale	L56P1	843	703	83%
WT	Fleetwood	L32P1	702	651	93%
FDC	Ormskirk	L51P1	651	554	85%
FDC	St. Annes	L36P1	597	536	90%
FDC	Bacup	L73P1	392	350	89%

Mobilisations by Pump

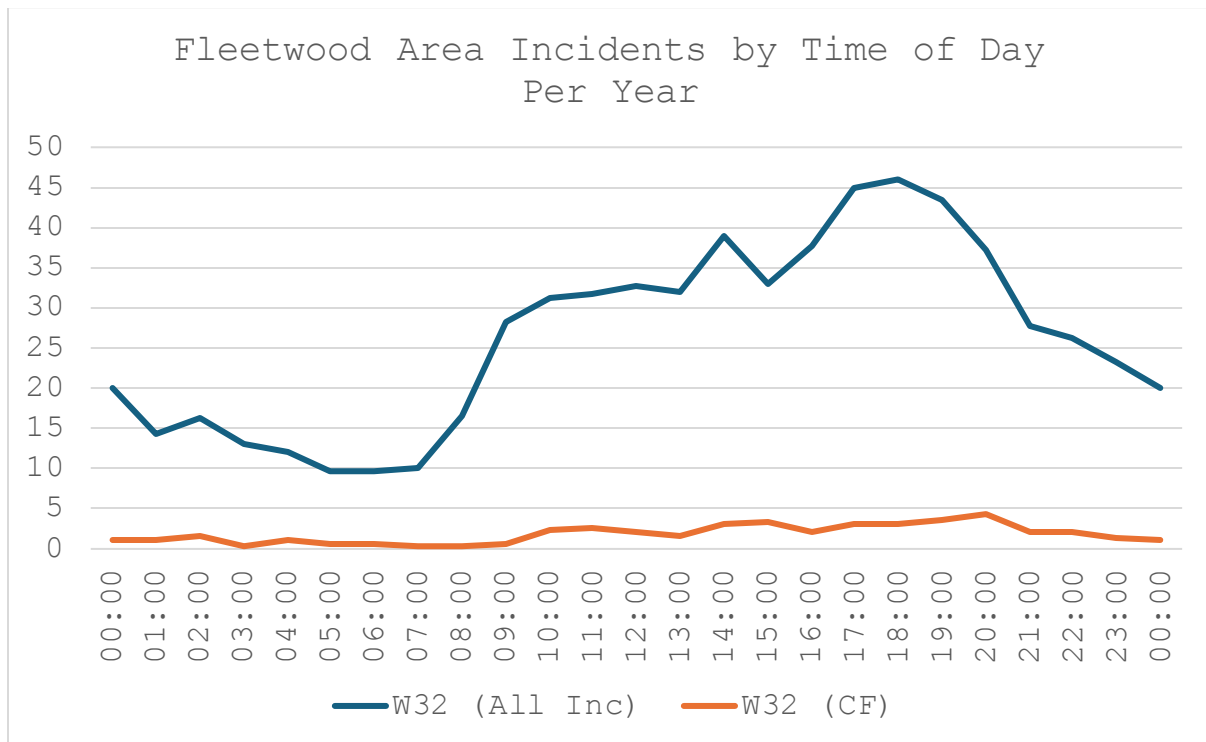
Pump mobilisations from all crewing types are shown below. Fleetwood L32P1 has been highlighted. L32P1 is the least utilised wholetime 2/2/4 pump and has less mobilisations than eight FDC and DCP pumps.

● 2/2/4 ● DCP ■ FDC ● On Call ■



Comparison Against Existing FDC Stations

Having determined that the overall mobilisations of Fleetwood (W32) place it within the activity levels of other FDC pumps, the impact of FDC crewing is further assessed below.



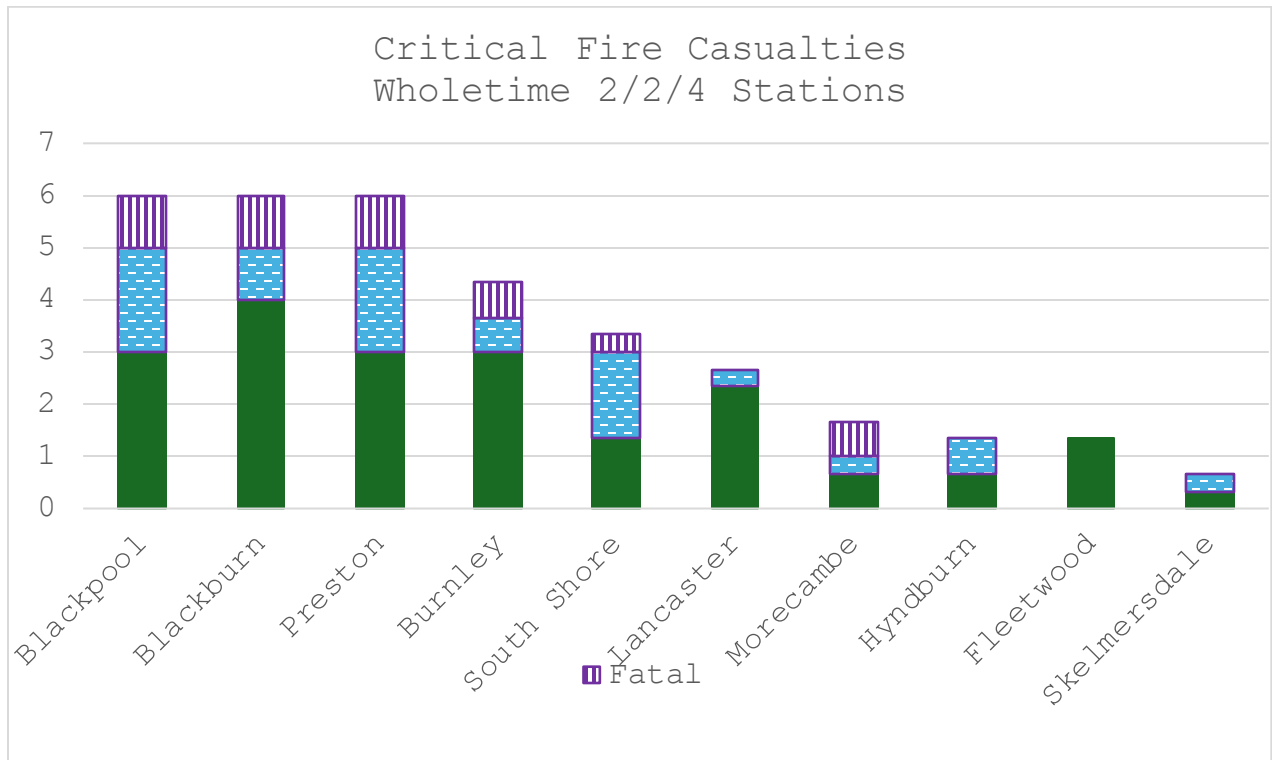
*CF means critical fires

FDC respond from the fire station between 08:00 and 18:00, then as an On Call unit between 18:00 and 08:00. As the graph above shows, incident activity peaks at 18:00 and then quickly drops to a low baseline which it maintains until 08:00. The majority of incidents are therefore during crewed hours. The low numbers of critical fires follow a similar pattern, but peak at 20:00.

Casualties

As they are subjective and open to interpretation, “precautionary check” and “first aid at scene” have been removed from the following charts to focus on fire related hospitalisations and fatalities.

Fleetwood receives markedly fewer serious fire casualties than other 2/2/4 crewed stations.



Compared against existing FDC stations, Fleetwood has similar casualty numbers to Fulwood and Bacup.

