

# Ready Reckoner Autumn 2023 Abbreviated Table of Costs to Local Authorities

Updated 14/12/2023

***Note that in the previous version 15/11/2023, some column headings were incorrectly labelled***

The Autumn 2023 update of our Ready Reckoner uses published 2022 Annual Population Survey and Local Tobacco profile data where possible. This tool provides the cost of smoking at a national, regional, local, constituency, combined LA and ward level. Overall cost of smoking is derived from the 4 following areas: Productivity, Healthcare, Social Care and Fires.

England estimates are derived from work by Howard Reed (see references)

For detail about how the national figures were derived please see CBPF model here: [Guide to ASH CBPF model 2023](#)

Other data tools and cost calculators, including the full Ready Reckoner can be found here: [ASH Data and Cost Calculators](#)

National, regional and local authority smoking prevalence data have been derived from the Annual Population Survey 2022. Due to the COVID-19 pandemic, APS changed its survey methodology in 2020, and now uses a different weighting system.

Three new costs have been included in the Ready Reckoner total in Autumn 2023 to describe broader costs of smoking. These are:

- Reduced Gross Value Added (GVA) due to expenditure on tobacco: This is the increased value in the economy of people switching their spending from tobacco to other products. Tobacco creates few jobs in the UK and there are very small profit margins for retailers (though large profit margins for manufacturers) so it has very little benefit to local economies compared to when people buy other goods and services.
- Cost of informal care by family and friends: This is what it would cost to provide this care if it was not being delivered by unpaid carers.
- Cost of unmet care needs: This is what it would cost to provide this care if needs were fully met.

All figures are approximate.

If you are not able to open the full Local Authority Ready Reckoner but would like to see the full dashboard for a given Region or Local Authority, please email [laura.bunce@ash.org.uk](mailto:laura.bunce@ash.org.uk) for screenshots.

Area Name	Number of smokers	Overall cost	Productivity costs	Social care costs	Healthcare costs	Fire costs
<b>England</b>	<b>5,666,000</b>	<b>£49.2Bn</b>	<b>£32.0Bn</b>	<b>£15.0Bn</b>	<b>£1.9Bn</b>	<b>£328.1M</b>

Area Name	Number of smokers	Overall cost	Productivity costs	Social care costs	Healthcare costs	Fire costs
<b>East Midlands</b>	<b>544,634</b>	<b>£4.5Bn</b>	<b>£2.9Bn</b>	<b>£1.4Bn</b>	<b>£182.3M</b>	<b>£30.3M</b>
Derby	39,076	£347.3M	£239.8M	£91.8M	£14.1M	£1.7M
Derbyshire	90,084	£799.8M	£455.2M	£305.5M	£33.3M	£5.8M
Leicester	36,542	£296.8M	£188.9M	£93.0M	£12.7M	£2.2M
Leicestershire	53,525	£438.5M	£286.2M	£131.2M	£17.2M	£3.9M
Lincolnshire	100,168	£761.8M	£478.5M	£245.0M	£33.1M	£5.2M
North Northamptonshire	40,927	£343.5M	£248.9M	£80.0M	£12.9M	£1.7M
Nottingham	53,878	£473.1M	£320.3M	£133.6M	£16.5M	£2.7M
Nottinghamshire	83,788	£709.8M	£417.7M	£257.8M	£28.8M	£5.6M
Rutland	3,161	£23.2M	£15.6M	£6.3M	£1.1M	£263K
West Northamptonshire	40,126	£310.3M	£218.7M	£79.0M	£11.3M	£1.4M

Area Name	Number of smokers	Overall cost	Productivity costs	Social care costs	Healthcare costs	Fire costs
<b>East of England</b>	<b>663,939</b>	<b>£5.8Bn</b>	<b>£3.7Bn</b>	<b>£1.9Bn</b>	<b>£227.4M</b>	<b>£33.0M</b>
Bedford	17,026	£129.9M	£93.8M	£30.1M	£5.4M	£681K
Cambridgeshire	61,875	£535.0M	£326.3M	£184.4M	£21.6M	£2.8M
Central Bedfordshire	34,682	£342.3M	£200.5M	£127.9M	£12.6M	£1.3M
Essex	157,947	£1.4Bn	£852.1M	£484.2M	£55.0M	£7.7M
Hertfordshire	108,015	£992.1M	£616.5M	£333.0M	£36.9M	£5.6M
Luton	34,999	£288.5M	£185.3M	£89.3M	£12.7M	£1.1M
Norfolk	99,321	£872.2M	£596.3M	£238.7M	£30.1M	£7.0M
Peterborough	19,784	£166.6M	£104.5M	£54.7M	£6.6M	£895K
Southend-on-Sea	20,010	£184.0M	£128.5M	£46.6M	£8.0M	£955K
Suffolk	86,144	£747.2M	£436.6M	£274.4M	£32.0M	£4.1M
Thurrock	21,990	£174.0M	£127.5M	£39.6M	£6.0M	£861K

Area Name	Number of smokers	Overall cost	Productivity costs	Social care costs	Healthcare costs	Fire costs
<b>London</b>	<b>806,575</b>	<b>£7.3Bn</b>	<b>£5.3Bn</b>	<b>£1.8Bn</b>	<b>£252.4M</b>	<b>£47.9M</b>
Barking and Dagenham	21,188	£198.5M	£129.4M	£59.0M	£9.0M	£1.1M
Barnet	25,222	£241.6M	£173.9M	£57.2M	£8.6M	£1.9M
Bexley	25,562	£228.3M	£160.3M	£57.0M	£9.5M	£1.5M
Brent	36,816	£309.0M	£217.3M	£78.9M	£11.4M	£1.3M
Bromley	16,722	£150.3M	£112.4M	£32.1M	£4.4M	£1.4M
Camden	15,903	£165.5M	£134.3M	£26.8M	£3.7M	£700K
Croydon	40,668	£379.4M	£248.3M	£113.9M	£14.8M	£2.4M
Ealing	45,570	£363.1M	£253.1M	£98.0M	£10.1M	£1.8M
Enfield	33,436	£325.2M	£231.0M	£78.4M	£12.9M	£2.8M
Greenwich	30,121	£263.7M	£175.2M	£76.9M	£10.1M	£1.6M
Hackney	29,116	£214.8M	£183.9M	£23.2M	£5.9M	£1.8M
Hammersmith and Fulham	12,792	£116.3M	£81.6M	£29.8M	£3.9M	£994K
Haringey	33,432	£272.4M	£177.3M	£81.1M	£12.8M	£1.2M
Harrow	15,522	£144.0M	£96.8M	£39.8M	£6.5M	£931K
Havering	32,332	£266.8M	£177.1M	£78.8M	£9.6M	£1.3M
Hillingdon	18,913	£192.1M	£133.1M	£50.1M	£7.2M	£1.6M
Hounslow	36,208	£311.1M	£223.5M	£74.6M	£11.4M	£1.6M
Islington	14,159	£158.0M	£110.9M	£40.8M	£5.0M	£1.3M
Kensington and Chelsea	13,721	£156.2M	£112.5M	£38.8M	£3.8M	£1.1M
Kingston upon Thames	8,181	£79.1M	£54.0M	£20.5M	£3.8M	£836K
Lambeth	35,286	£354.9M	£276.5M	£65.3M	£11.2M	£2.0M
Lewisham	36,040	£313.2M	£223.4M	£78.4M	£9.6M	£1.7M
Merton	25,142	£243.1M	£178.5M	£55.0M	£8.3M	£1.3M
Newham	28,657	£266.2M	£170.5M	£82.4M	£11.0M	£2.3M
Redbridge	26,614	£216.7M	£149.6M	£56.6M	£8.8M	£1.7M
Richmond upon Thames	9,729	£109.6M	£65.3M	£39.3M	£4.3M	£749K
Southwark	28,888	£318.8M	£254.7M	£55.9M	£6.4M	£1.8M
Sutton	11,036	£100.5M	£78.5M	£18.2M	£2.7M	£1.2M
Tower Hamlets	28,943	£240.2M	£182.9M	£48.2M	£7.3M	£1.8M
Waltham Forest	25,521	£207.8M	£153.9M	£44.6M	£8.1M	£1.2M
Wandsworth	21,039	£197.2M	£155.3M	£34.5M	£5.2M	£2.2M
Westminster	21,547	£210.2M	£156.3M	£46.3M	£6.4M	£1.2M

Area Name	Number of smokers	Overall cost	Productivity costs	Social care costs	Healthcare costs	Fire costs
<b>North East England</b>	<b>277,182</b>	<b>£2.5Bn</b>	<b>£1.6Bn</b>	<b>£797.3M</b>	<b>£93.7M</b>	<b>£12.1M</b>
County Durham	64,985	£586.6M	£374.1M	£188.6M	£21.7M	£2.2M
Darlington	9,896	£81.6M	£59.4M	£18.7M	£3.2M	£288K
Gateshead	17,461	£168.6M	£102.5M	£58.8M	£6.4M	£956K
Hartlepool	10,400	£101.7M	£67.5M	£30.1M	£3.7M	£429K
Middlesbrough	18,230	£144.3M	£103.4M	£34.6M	£5.6M	£674K
Newcastle upon Tyne	29,169	£233.2M	£175.5M	£49.6M	£6.5M	£1.6M
North Tyneside	18,791	£175.5M	£108.1M	£58.7M	£7.6M	£1.1M
Northumberland	25,337	£220.8M	£131.4M	£78.8M	£9.2M	£1.4M
Redcar and Cleveland	14,943	£145.1M	£90.6M	£48.8M	£5.3M	£496K
South Tyneside	17,983	£177.4M	£112.2M	£58.4M	£5.9M	£827K
Stockton-on-Tees	20,354	£195.1M	£128.6M	£58.2M	£7.6M	£655K
Sunderland	29,146	£284.6M	£154.5M	£116.9M	£11.7M	£1.4M

Area Name	Number of smokers	Overall cost	Productivity costs	Social care costs	Healthcare costs	Fire costs
<b>North West England</b>	<b>784,434</b>	<b>£6.8Bn</b>	<b>£4.3Bn</b>	<b>£2.2Bn</b>	<b>£259.4M</b>	<b>£49.9M</b>
Blackburn with Darwen	22,298	£187.2M	£122.6M	£56.4M	£7.1M	£1.2M
Blackpool	21,264	£184.4M	£110.8M	£64.3M	£7.7M	£1.5M
Bolton	31,911	£264.4M	£173.9M	£77.7M	£10.3M	£2.4M
Bury	17,571	£165.8M	£104.9M	£53.8M	£6.1M	£1.0M
Cheshire East	30,200	£245.8M	£160.2M	£74.6M	£8.9M	£2.1M
Cheshire West and Chester	25,710	£203.0M	£129.2M	£65.6M	£7.0M	£1.2M
Cumbria	53,645	£459.8M	£283.1M	£155.3M	£18.5M	£3.0M
Halton	13,423	£111.7M	£70.3M	£36.4M	£4.4M	£639K
Knowsley	17,877	£160.0M	£88.5M	£63.8M	£6.5M	£1.2M
Lancashire	131,905	£1.2Bn	£732.2M	£397.5M	£45.1M	£9.4M
Liverpool	67,752	£623.0M	£416.8M	£180.9M	£20.9M	£4.4M
Manchester	73,419	£628.8M	£394.2M	£208.0M	£22.3M	£4.2M
Oldham	19,689	£191.2M	£112.2M	£70.4M	£6.5M	£2.0M
Rochdale	25,899	£241.9M	£153.5M	£77.4M	£9.5M	£1.6M
Salford	31,980	£266.0M	£168.0M	£85.3M	£10.9M	£1.7M
Sefton	17,988	£165.3M	£97.8M	£59.9M	£6.2M	£1.4M
St. Helens	17,509	£163.2M	£104.8M	£51.3M	£6.2M	£992K
Stockport	27,479	£232.3M	£154.0M	£68.1M	£8.6M	£1.7M
Tameside	36,366	£315.3M	£219.8M	£81.2M	£12.3M	£2.0M
Trafford	14,417	£138.6M	£83.1M	£49.6M	£4.8M	£1.2M
Warrington	16,734	£140.2M	£86.6M	£47.0M	£5.8M	£801K
Wigan	38,463	£292.6M	£182.5M	£94.6M	£13.3M	£2.1M
Wirral	27,534	£226.7M	£133.2M	£81.6M	£10.0M	£1.9M

Area Name	Number of smokers	Overall cost	Productivity costs	Social care costs	Healthcare costs	Fire costs
<b>South East England</b>	<b>849,090</b>	<b>£7.4Bn</b>	<b>£4.9Bn</b>	<b>£2.2Bn</b>	<b>£287.2M</b>	<b>£42.3M</b>
Bracknell Forest	14,220	£119.1M	£83.0M	£30.8M	£4.8M	£491K
Brighton and Hove	29,242	£272.3M	£191.0M	£71.5M	£8.5M	£1.3M
Buckinghamshire unitary authority	45,646	£409.3M	£284.8M	£108.4M	£13.8M	£2.3M
East Sussex	51,120	£451.0M	£290.0M	£137.3M	£21.0M	£2.7M
Hampshire	118,064	£1.1Bn	£681.7M	£328.5M	£41.0M	£5.2M
Isle of Wight	11,156	£114.1M	£65.1M	£43.9M	£4.4M	£652K
Kent	143,883	£1.3Bn	£771.5M	£427.4M	£52.2M	£7.8M
Medway	19,244	£176.9M	£125.5M	£43.5M	£6.5M	£1.5M
Milton Keynes	30,150	£248.3M	£174.3M	£62.8M	£9.6M	£1.6M
Oxfordshire	64,945	£489.0M	£335.7M	£132.8M	£17.5M	£3.0M
Portsmouth	24,262	£210.9M	£161.0M	£42.0M	£7.0M	£953K
Reading	19,762	£179.0M	£122.2M	£49.1M	£6.6M	£1.0M
Slough	17,450	£155.5M	£112.2M	£36.8M	£5.7M	£802K
Southampton	26,039	£230.2M	£164.8M	£56.8M	£7.6M	£1.0M
Surrey	112,520	£1.0Bn	£714.2M	£259.3M	£35.3M	£6.4M
West Berkshire	14,389	£126.8M	£73.3M	£47.6M	£5.1M	£802K
West Sussex	88,805	£746.4M	£478.9M	£230.0M	£33.9M	£3.6M
Windsor and Maidenhead	10,355	£98.2M	£63.4M	£30.4M	£3.7M	£670K
Wokingham	6,287	£50.6M	£33.7M	£14.1M	£2.4M	£431K

Area Name	Number of smokers	Overall cost	Productivity costs	Social care costs	Healthcare costs	Fire costs
<b>South West England</b>	<b>552,196</b>	<b>£4.6Bn</b>	<b>£2.9Bn</b>	<b>£1.5Bn</b>	<b>£182.8M</b>	<b>£34.4M</b>
Bath and North East Somerset	18,060	£159.3M	£116.4M	£37.3M	£4.9M	£780K
Bournemouth, Christchurch and Poole	32,969	£289.9M	£184.4M	£91.3M	£12.1M	£2.1M
Bristol, City of	56,158	£520.6M	£362.9M	£138.5M	£16.0M	£3.2M
Cornwall	48,173	£413.8M	£239.5M	£154.2M	£16.8M	£3.3M
Devon	92,966	£758.9M	£475.3M	£248.2M	£29.7M	£5.6M
Dorset	28,821	£237.0M	£134.1M	£91.2M	£10.1M	£1.7M
Gloucestershire	59,911	£487.1M	£296.1M	£169.6M	£19.0M	£2.4M
North Somerset	18,150	£162.4M	£92.1M	£62.2M	£6.9M	£1.2M
Plymouth	31,329	£257.9M	£169.6M	£76.5M	£9.4M	£2.4M
Somerset	58,316	£484.4M	£292.8M	£166.3M	£20.4M	£4.9M
South Gloucestershire	28,141	£223.8M	£152.0M	£62.1M	£8.2M	£1.5M
Swindon	17,378	£164.0M	£97.8M	£58.5M	£6.4M	£1.3M
Torbay	21,006	£183.4M	£106.5M	£68.0M	£7.6M	£1.3M
Wiltshire	41,759	£336.4M	£212.6M	£105.0M	£16.1M	£2.7M

Area Name	Number of smokers	Overall cost	Productivity costs	Social care costs	Healthcare costs	Fire costs
<b>West Midlands</b>	<b>623,503</b>	<b>£5.3Bn</b>	<b>£3.4Bn</b>	<b>£1.7Bn</b>	<b>£206.8M</b>	<b>£45.1M</b>
Birmingham	116,700	£1.0Bn	£656.8M	£319.0M	£39.0M	£11.9M
Coventry	49,105	£466.1M	£330.1M	£118.0M	£14.8M	£3.1M
Dudley	31,320	£238.6M	£157.8M	£69.2M	£8.6M	£3.0M
Herefordshire, County of	18,804	£138.1M	£89.2M	£42.4M	£5.6M	£828K
Sandwell	53,823	£448.2M	£286.0M	£140.5M	£17.7M	£4.0M
Shropshire	26,657	£239.6M	£132.5M	£94.9M	£10.8M	£1.5M
Solihull	17,933	£157.3M	£97.1M	£52.6M	£6.0M	£1.6M
Staffordshire	65,760	£587.8M	£348.3M	£209.4M	£24.0M	£6.1M
Stoke-on-Trent	32,486	£295.4M	£196.4M	£86.7M	£9.4M	£2.9M
Telford and Wrekin	24,114	£207.8M	£137.2M	£61.2M	£8.6M	£835K
Walsall	29,750	£231.1M	£144.1M	£73.6M	£10.7M	£2.6M
Warwickshire	66,496	£573.8M	£380.8M	£170.7M	£21.0M	£1.3M
Wolverhampton	30,539	£283.2M	£197.4M	£72.8M	£10.6M	£2.4M
Worcestershire	55,958	£466.0M	£282.2M	£160.0M	£20.8M	£3.1M

Area Name	Number of smokers	Overall cost	Productivity costs	Social care costs	Healthcare costs	Fire costs
<b>Yorkshire and the Humber</b>	<b>567,120</b>	<b>£4.9Bn</b>	<b>£3.0Bn</b>	<b>£1.6Bn</b>	<b>£194.3M</b>	<b>£33.1M</b>
Barnsley	30,799	£273.7M	£160.8M	£100.5M	£10.9M	£1.5M
Bradford	63,595	£471.9M	£315.0M	£134.4M	£18.4M	£4.2M
Calderdale	18,619	£166.9M	£97.5M	£60.1M	£7.7M	£1.6M
Doncaster	30,222	£251.5M	£154.4M	£85.0M	£10.0M	£2.1M
East Riding of Yorkshire	28,849	£250.9M	£164.3M	£76.3M	£9.0M	£1.4M
Kingston upon Hull	39,236	£370.3M	£226.5M	£126.9M	£14.8M	£2.2M
Kirklees	45,048	£403.2M	£241.9M	£141.4M	£16.8M	£3.0M
Leeds	79,133	£672.5M	£431.6M	£209.5M	£26.3M	£5.1M
North East Lincolnshire	27,074	£217.4M	£153.0M	£55.4M	£8.1M	£966K
North Lincolnshire	20,918	£161.1M	£95.6M	£57.2M	£7.4M	£787K
North Yorkshire	48,653	£400.2M	£218.3M	£162.6M	£16.8M	£2.6M
Rotherham	29,482	£249.7M	£143.4M	£93.4M	£11.3M	£1.6M
Sheffield	53,161	£532.5M	£361.5M	£149.5M	£18.9M	£2.6M
Wakefield	35,092	£305.8M	£191.4M	£98.8M	£12.7M	£2.9M
York	14,563	£120.1M	£77.0M	£37.7M	£4.6M	£715K

## POPULATION AND PREVALENCE

1- ONS Mid-year estimates by country, region and upper tier local authority (2021) MYE2: Persons

[Link](#)

2- ONS Smoking habits in the UK and its constituent countries (2022) Table 4 Smoking prevalence in local and unitary authority areas

[Link](#)

## HEALTH CARE

H Reed updated estimates for 2023 based on:

3a.- United Kingdom Household Longitudinal Study Wave 11 (2020)

[Link](#)

3b- ONS (2008): 2006 General Household Survey: healthcare events by smoking status (custom analysis, derived from NICE ROI tool)

[Link](#)

4- ONS Smoking habits in the UK and its constituent countries (2022) Cut of smoking prevalence in people aged 35+

[Link](#)

*(2021 population and 2022 smoking prevalence used for LA and regional estimates)*

## PRODUCTIVITY

5- H Reed updated estimates for 2023 based on methodology explained in H Reed (2020) The impact of smoking history on employment prospects, earnings and productivity: an analysis using UK panel data.

[Link](#)

6- H Reed updated estimates for 2023 based on methodology explained in H Reed (2021) The economic impact of a smokefree United Kingdom: technical report.

[Link](#)

7- H Reed updated estimates for 2023 based on methodology explained in H Reed (2021) Estimates of poverty in the UK adjusted for expenditure on tobacco

[Link](#)

8- Annual population survey (2021) Estimates of economic activity and inactivity

[Link](#)

9- Annual survey of hours and earnings - Resident Analysis (2021) Median gross annual pay

[Link](#)

*(2021 population and 2022 smoking prevalence used for LA and regional estimates)*

## SOCIAL CARE

13- Action on Smoking and Health (ASH). The Cost of Smoking to the Social Care System. March 2021.

[Link](#)

10- H Reed updated estimates for 2023 based on methodology explained in H Reed (2021) The costs of smoking to the social care system and related costs for older people in England

[Link](#)

11- ONS Smoking habits in the UK and its constituent countries (2022) Cut of smoking prevalence in people aged 50+

[Link](#)

*(2021 population and 2022 smoking prevalence used for LA and regional estimates)*

## FIRE

12- DCLG (2023): FIRE0102: Incidents attended by fire and rescue services, Data tab, 2019/20,2020/21, 2021/22 data

[Link](#)

13- DCLG (2023): FIRE0602: Primary fires by source of ignition and whether the cause was by human/non-human factors, Tables 0602a, 0602b, 0602c, 2019/20,2020/21, 2021/22 data

[Link](#)

14-DCLG (2023): FIRE0502 Fatalities and non-fatal casualties by fire and rescue authority and location group, Data - Casualties & Data - Fatalities tabs, 2019/20, 2020/21, 2021/22 data

[Link](#)

H Reed updated estimates for 2023 based on:

15a- DCLG (2010): Fire statistics UK 2008: county and regional data, tables 29 - 31

[Link](#)

15b- DCLG (2011) The economic cost of fire: Supplementary tables of estimates for 2008 (England) – Fire Research Report 3/2011

[Link](#)

*(2021 population and smoking prevalence, together with approximate mapping between LF&RS and local geographies used to generate LA and regional estimates)*

Estimates for fire related data are not calculated for wards & constituencies, as smoking-related fires are relatively rare

### COST OF TOBACCO

H Reed updated estimates for 2023 based on:

16a- Methodology explained in H Reed (2020) The impact of smoking history on employment prospects, earnings and productivity: an analysis using UK panel data.

[Link](#)

16b- HMRC (2019): A disaggregation of HMRC tax receipts between England, Wales, Scotland & Northern Ireland (report discontinued post-2019)

[Link](#)

### QALY VALUE OF LIFE LOST

H Reed updated estimates for 2023 based on:

17a HM Treasury Green Book (2022)

[Link](#)

17b England-wide smoking attributable mortality rate per 100,000 population (35+) (2016-18)

[Link](#)

### WARD AND CONSTITUENCY ESTIMATES

**There has been a demand for data at the ward and constituency levels in feedback on previous iterations of the Ready Reckoner. For this release, estimates are added for these geographies, but there are significant caveats and these are intended to be indicative-only. confidence intervals are wide, and any year-on-year fluctuations in ward or constituency data do not necessarily convey an actual change in smoking prevalence.**

Ward and constituency estimates are derived based on modelling by Marie Horton using populations, smoking prevalences and IMD deciles at the local and ward level. Boundaries are approximated for end 2020. Where a ward is split between constituencies, the split is assumed to be even.

18- ONS (2020) Ward-level population estimates (Experimental statistics)

[Link](#)

19- Ministry of Housing, Communities & Local Government (2019) English indices of deprivation. File 1: index of multiple deprivation & File 10: local authority district summaries

[Link](#)

20- Ward to Westminster Parliamentary Constituency to Local Authority District to Upper Tier Local Authority (December 2020) Lookup in the United Kingdom [Link](#)