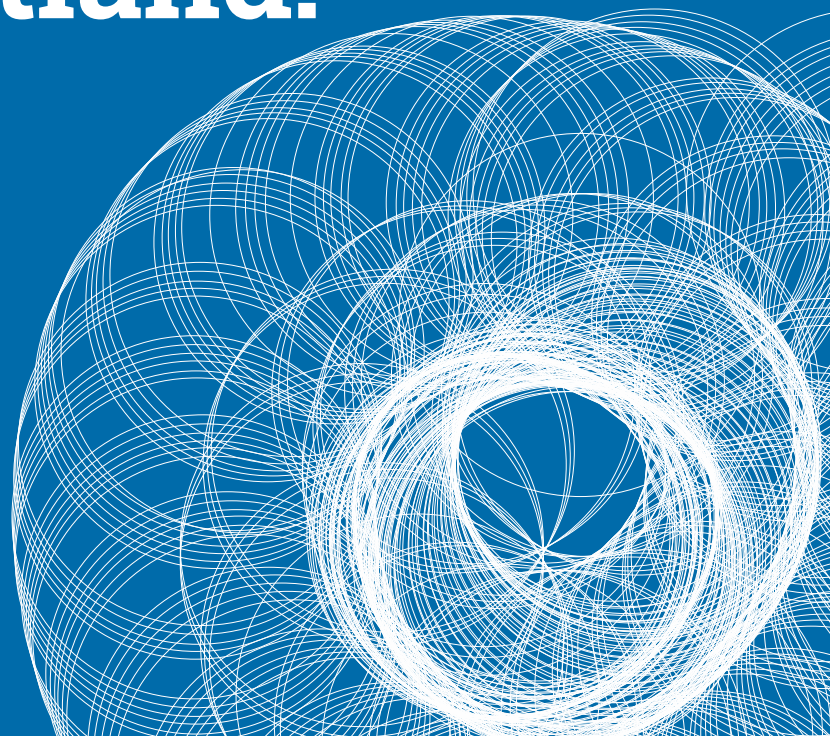


Community Risk Exposure to COVID-19 in Scotland:

Analysis and Strategy
at the National Level



Project leader Samuel MacKinnon
Researcher Emma Macfarlane
April 2020 Copyright Scotianomics Limited

Contents

| | |
|-----------|-------------------------------------|
| 3 | About Scotianomics |
| 4 | Executive summary |
| 5 | Introduction |
| 6 | Caution |
| 7 | Methodology |
| 7 | Transmission probability |
| 9 | Fatality probability |
| 10 | Results |
| 11 | Analysis |
| 14 | Key conclusions and strategy |
| 15 | Appendix |

About Scotianomics

In the 21st century data is everywhere but it is the analysis that transforms data into valuable, actionable knowledge that is key to success.

Organisations, both in Scotland's private and public sectors, lack access to useful, reliable data and value-added analysis of the kind that most advanced countries take for granted. This creates a hidden but real disadvantage for Scottish business, limits public policy and disrupts the pursuit of shared prosperity.

Scotianomics aims to spark a knowledge revolution and inform the decision makers on Scotland's economy. We provide cutting-edge intelligence and strategic planning resources so that stakeholders can gain a wide view of the threats and opportunities in the world through our geopolitical, economic and policy analysis, unique historical datasets, risk and opportunity forecasts, Geographic Information System mapping solutions and strategic planning services.

Gordon MacIntyre-Kemp

Director

Executive summary

- This report introduces a new dataset identifying the level of exposure to COVID-19 in each of Scotland's 354 council wards.
- The dataset is built using data concerning community economic and social connectivity as well as community health data.
- This data can be used by government, local government and health officials concerned with public resource allocation and containment, community stakeholders building resilience and local response measures and individuals, to inform their behaviour in particular localities.
- We conclude that government strategy should focus on ensuring that the geographic spread of high-risk regions remains small while national health resources should be concentrated on high-risk regions to have the most impact in tackling the virus.
- When the time is right, it should be possible for the Scottish Government to consider a staged reopening of the country, beginning firstly with low-risk areas. It must be pointed out that although some areas are currently identified as low risk areas, this should not imply that people in those low-risk areas should now begin to unilaterally relax their compliance with social distancing / lockdown rules, as this could transform their communities into high-risk areas.
- Defining when the time is right to lift restrictions on movement and commerce will depend on further risk threshold analysis and a review of the capacity of the Scottish NHS to cope with a potential second wave of infections. Other nations are ahead of Scotland in terms of the progression of COVID-19 in their communities and data from those nations, as they begin to ease their own restrictions, will therefore be key to the analysis.

Introduction

As cases of COVID-19 and deaths related to the virus continue to rise in Scotland and as resources become increasingly stretched, the efficient allocation of those resources, for containment and treatment of people, is ever more essential. To achieve that, data is required on how exposed each community is in Scotland, to aid community stakeholders undertaking resilience measures and government officials managing state resources.

That is why we have created this resource, the COVID-19 Community Risks Index, which provides data for Scotland's 354 local authority wards. It is an intelligence resource that can aid organisations formulating strategies to address the pandemic, but it can also inform and encourage individuals on appropriate behaviour to protect their local communities. Our findings should serve as a guide to strategies for containment and resource allocation.

This is the first version of the index. Using two components — transmission probability and potential for fatalities — it compares the risk exposure of Scotland's council wards to the virus. As this is an early and experimental version, it will also be refined as the crisis unfolds, when new data/information becomes available.

Although this document provides the initial version of the index and a community comparison, users should consult the version on our website scotianomics.org as this will be updated as new information becomes available. This report will describe our methodologies and reasoning. However, because the virus moves so quickly, data will always be behind it. The data can and should be used to anticipate outcomes and to guide policy and resources allocation procedures.

Caution

Users of this data should be cautious. It is not a map of COVID-19 cases across Scotland and does not imply that some places necessarily have more cases than others. It is a map primarily of how easy the virus may spread in particular communities, due to their population, connectivity and economic characteristics.

This means that if an area that we have identified as high-risk currently has a low incidence of COVID-19 infections, we can predict that the propensity for the rapid spread of the disease in that area is higher than in others, especially if restrictions are lifted, either partially or in full.

These variables have the greatest weight in calculating the level of risk. Variables such as health and age structure also come into play: that is, the factors that determine how affected members of a community would be if they caught the virus. But these have a lesser weight as health issues matter less than the ability of the virus to spread.

The index is not built using data on the movement and behaviour of people during the virus, such as how seriously they have taken the lockdown; this data does not exist.

The index is not built using data on the movement and behaviour of people during the virus, such as how seriously they have taken the lockdown; this data does not exist.

Users of the data in this report should be cautious. It is not a map of COVID-19 cases across Scotland and does not imply that some places necessarily have more cases than others.

Most of the data used to construct this index, especially data related to connectivity, is taken from surveys published before the outbreak of the virus in Scotland. This is the most recent data available and is used to assume, depending on the levels of connectivity during the year of publishing, that these areas are still more connected today. This is a limitation, but it is one that cannot be overcome until new public data comes available on connectivity and the movement of people during the virus. Nonetheless, the index is still a reliable picture of how the COVID-19 virus and other future viruses may spread and the impact it can have across Scotland.

Methodology

Transmission probability

Transmission probability refers to the ability of the virus to spread through human interaction. Several variables, each weighted to reflect their importance, are used to calculate this. They are listed in order of importance, with descriptions underneath.

Existing COVID-19 cases as a share of local population

Using an average taken from relevant NHS boards, we determine how exposed a community is to the virus already.¹

Population density

We measure how many people live in a community by its total area. More compact populations are assumed to more effectively facilitate the spread of the virus. The population input data is sourced from the National Records of Scotland and the land area data from the Office for National Statistics.²

Accessibility

This measure uses the accessibility ranking from the Scottish Index for Multiple Deprivation, which measures how close members of a community are to essential services.³ While this includes health services, which a citizen may need to access sooner if they contract the virus, in this case better accessibility is assumed to facilitate the spread of the virus. This is because members of communities with greater accessibility are assumed to travel more and come into contact with one another more frequently.

-
- 1 Scottish Government (2020) 'Coronavirus (COVID-19): Tests and Cases in Scotland', Available Online: [https://www.gov.scot/publications/coronavirus-covid-19-tests-and-cases-in-scotland/?fbclid=IwAR0uHc-5MNfuMgmt47DH8DrtUPEXX6uTtqbv9AalWENZdF4M1I_5MJRlztJg].
 - 2 National Records of Scotland (2020) 'Electoral Ward Population Estimates', Available Online: [<https://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/population/population-estimates/2011-based-special-area-population-estimates/electoral-ward-population-estimates>]; Office for National Statistics (2020) 'Wards Full Clipped Boundaries in Great Britain', Available Online: [http://geoportal.statistics.gov.uk/datasets/07194e4507ae491488471c84b23a90f2_0].
 - 3 Scottish Government (2020) 'Scottish Index of Multiple Deprivation', Available Online: [<https://simd.scot/#/simd2020/BTTTTFTT/9/-4.0000/55.9000/>].

GDP per capita

Communities with higher GDP per capita are assumed to have more local economic activity, and thus more human interaction through trade. They are also assumed to trade more with people from outside their community — that is, importing and exporting with groups outside of their community, meaning there is greater potential for the virus to spread through the transportation or delivery of goods and services. The input data is sourced from the Office for National Statistics.⁴

Rail transport passengers relative to total population

Travellers on trains tend to be in close proximity to one another. Regions with greater numbers of travellers by rail are therefore assumed to be more at risk to the virus spreading. The data is sourced from Scottish Transport Statistics.⁵

Frequency of road travel

Road travel can be a more private mode of transport as community members may travel by car — although buses may be used. Nonetheless, more people travelling as a share of the population also means greater potential for the virus to spread. The data is sourced from Scottish Transport Statistics.⁶

Total population

Population size itself does not facilitate the spread of the virus, but the above factors combined with population size do. The data is produced by the National Records of Scotland.⁷

4 Office for National Statistics (2019) 'Regional Gross Value Added (Balanced) Per Head and Income Components', Available Online: [<https://www.ons.gov.uk/economy/grossvalueaddedgva/datasets/nominalregional-grossvalueaddedbalancedperheadandincomecomponents>].

5 Scottish Government (2018) 'Scottish Transport Statistics – No 36 – Datasets: Chapter 7, Rail', Available Online: [<https://www.transport.gov.scot/publication/scottish-transport-statistics-no-36-datasets/>].

6 Scottish Government (2018) 'Scottish Transport Statistics – No 36 – Datasets: Chapter 5, Road Traffic', Available Online: [<https://www.transport.gov.scot/publication/scottish-transport-statistics-no-36-datasets/>].

7 National Records of Scotland (2020) 'Electoral Ward Population Estimates', Available Online: [<https://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/population/population-estimates/2011-based-special-area-population-estimates/electoral-ward-population-estimates>].

Fatality probability

Potential for fatalities refers to how many members of a community are at risk of death if they were to contract the virus. This is calculated using two variables, also ranked according to importance and with description underneath.

Existing community health issues

Analysis has shown that people with existing health issues are more likely to die as a result of catching the virus. We identify community health by using the Scottish Index of Multiple Deprivation's health ranking.⁸

Community age structure

Analysis has also shown that older people are more likely to die from the virus. Thus, we calculate the probability of death of various age groups. Communities with older populations are more at risk of death if many of their members contracted the virus. Yet often older populations in Scotland are located in remote and peripheral regions. Therefore, they are also at less risk of catching it. The data is produced by the National Records of Scotland.⁹

Further research

Future publications of this index will offer more detailed analysis of the situation at the individual local authority level, offering recommendations to local governments on how to allocate their resources.

8 Scottish Government (2020) 'Scottish Index of Multiple Deprivation', Available Online: [<https://simd.scot/#/simd2020/BTTTTFTT/9/-4.0000/55.9000/>].

9 National Records of Scotland (2020) 'Electoral Ward Population Estimates', Available Online: [<https://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/population/population-estimates/2011-based-special-area-population-estimates/electoral-ward-population-estimates>].

Results

The map below (Figure 1) summarises the distribution of risk across Scotland. Areas in red are the most at risk; areas in blue the least. Please note that “red” does not necessarily imply that the situation in an area has reached an extreme stage, that many people are dying or infected, or that the economy of that area has collapsed completely while other economies are functioning as normal.

The colours simply distinguish between particular levels of exposure. In a red area, it is more likely that it will be transmitted among a community’s population and/or that more members of that community are at risk of dying or demonstrating severe symptoms if they catch it.

The high-risk areas in red were likely to be high-risk even during the early stages of crisis when there was an insignificant number of cases across the country. However, a high-risk designation does imply that members of that community should be more cautious in their daily activities.

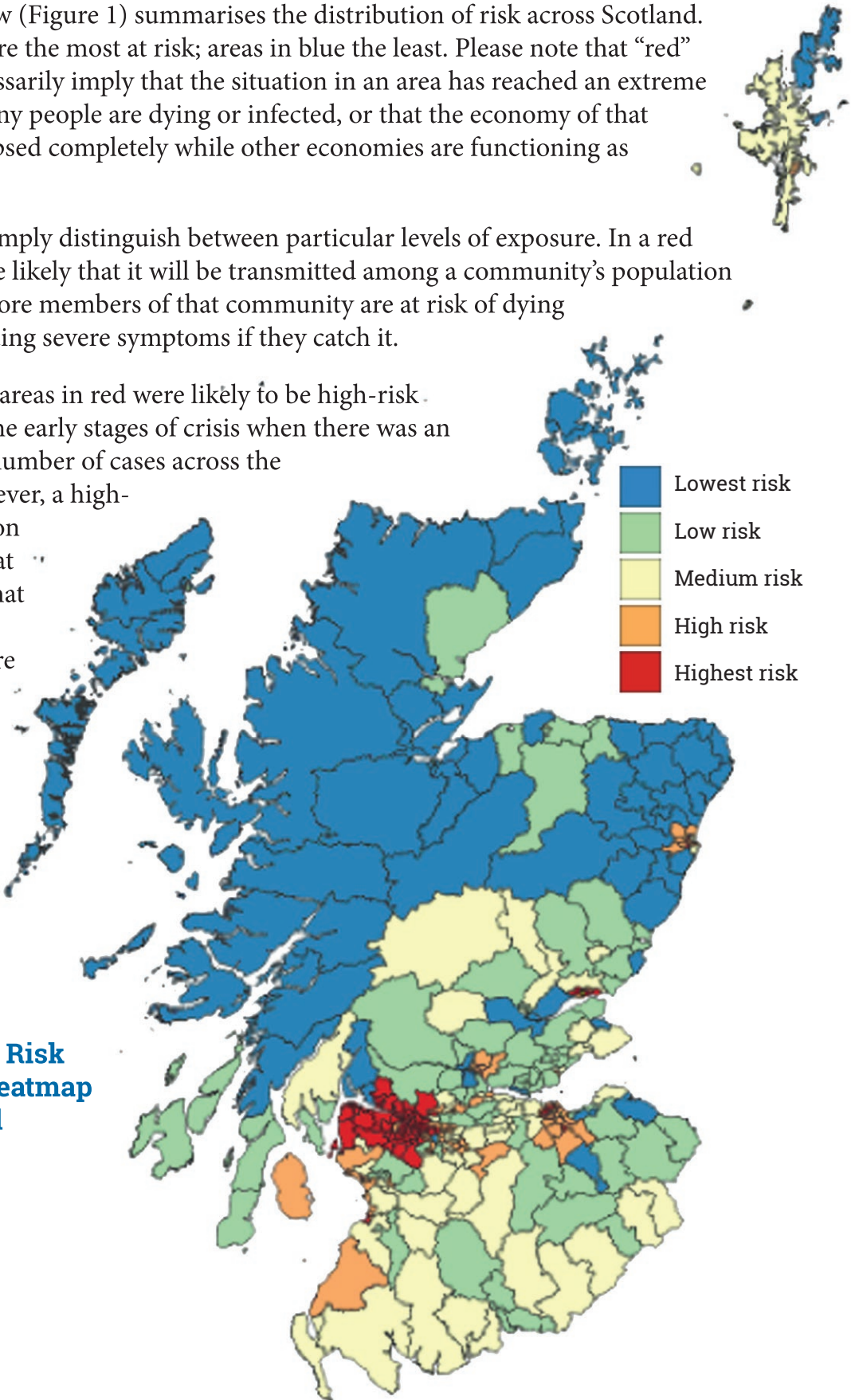
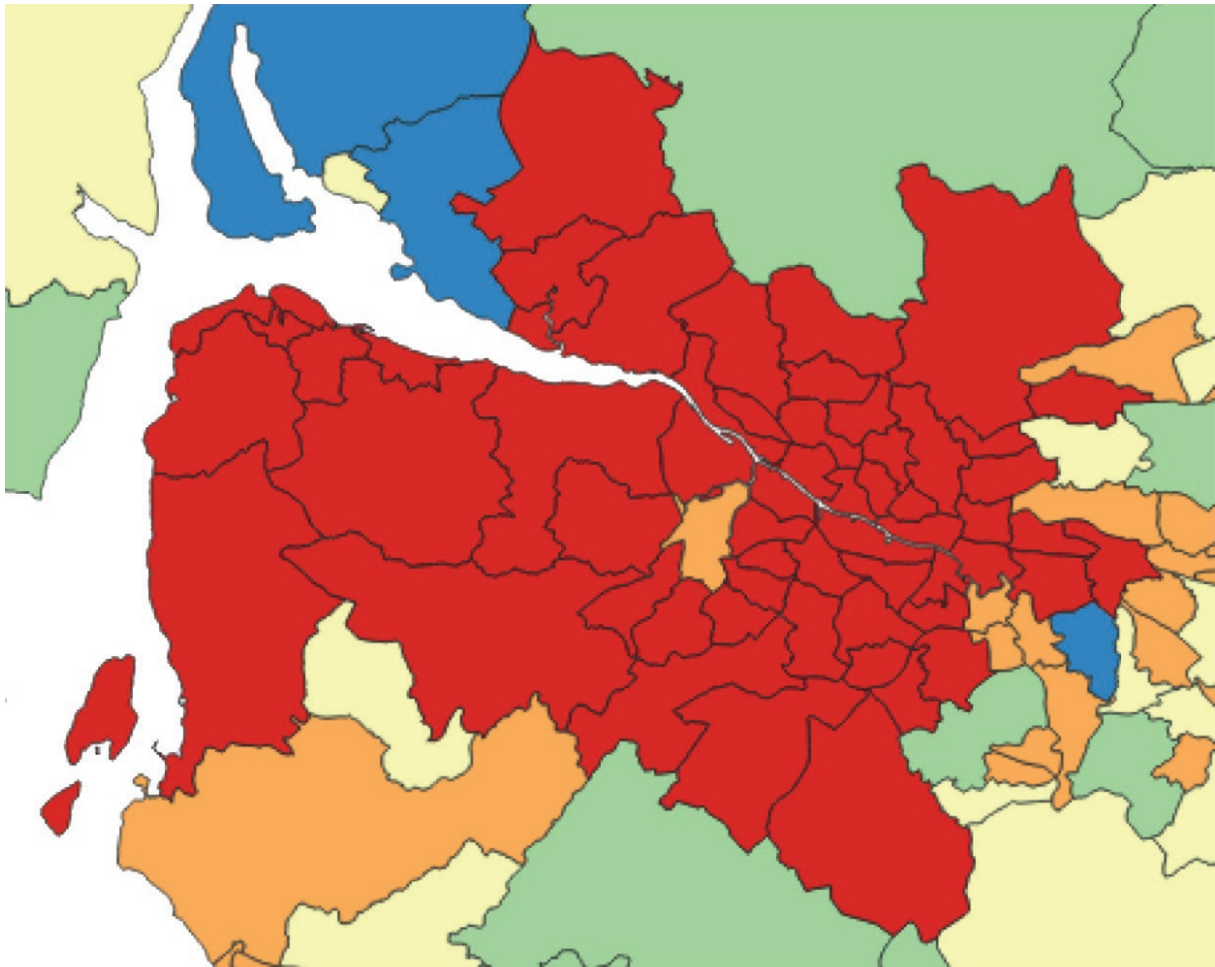


Figure 1.
COVID-19
Community Risk
Exposure Heatmap
for Scotland

Analysis

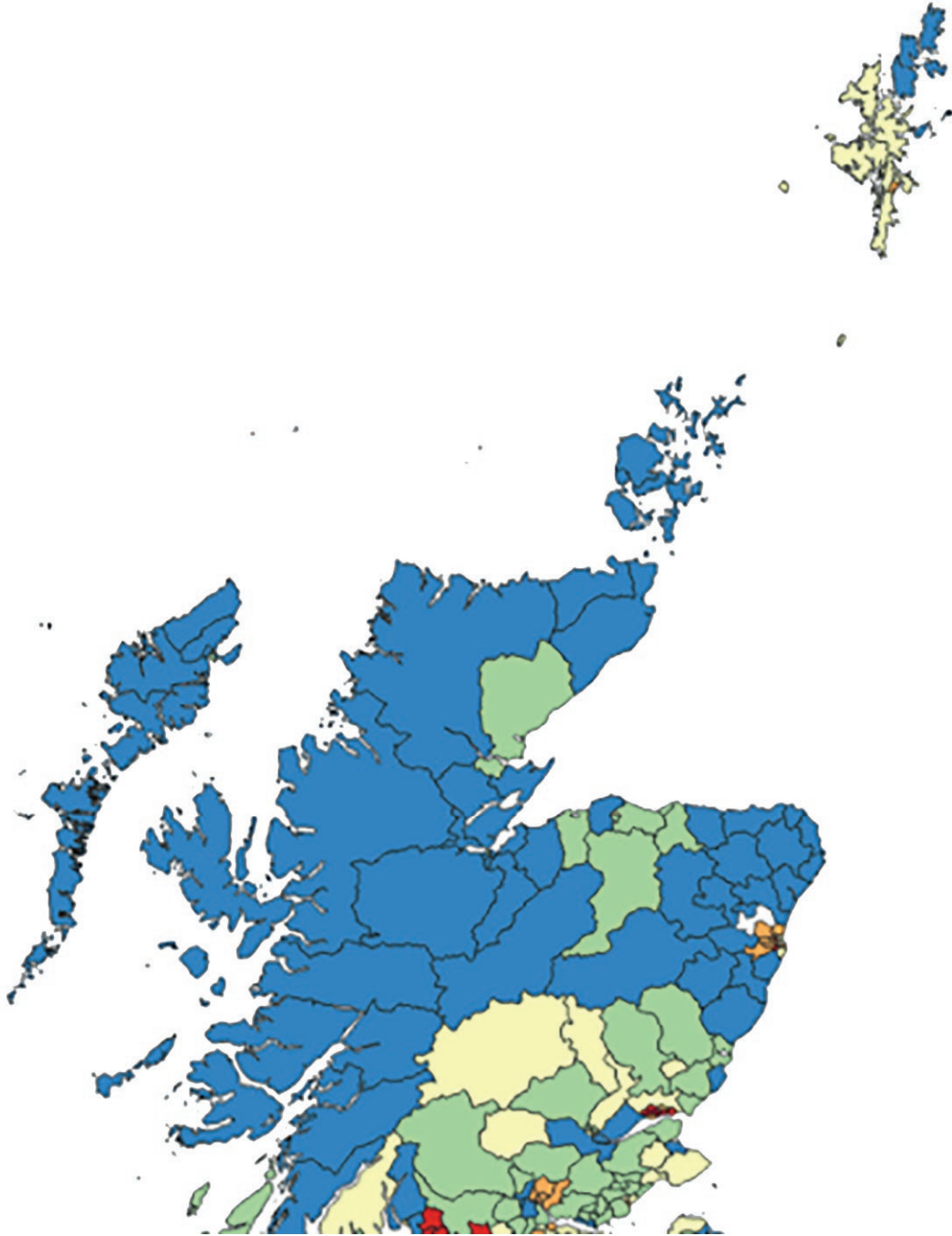
The purpose of this report is to introduce this resource and provide a national overview. Further publications will look more specifically at regional issues, breaking down each local authority area. But it is worth taking a brief look at some of the regional insights.

Figure 2. Inverclyde and Glasgow Regions



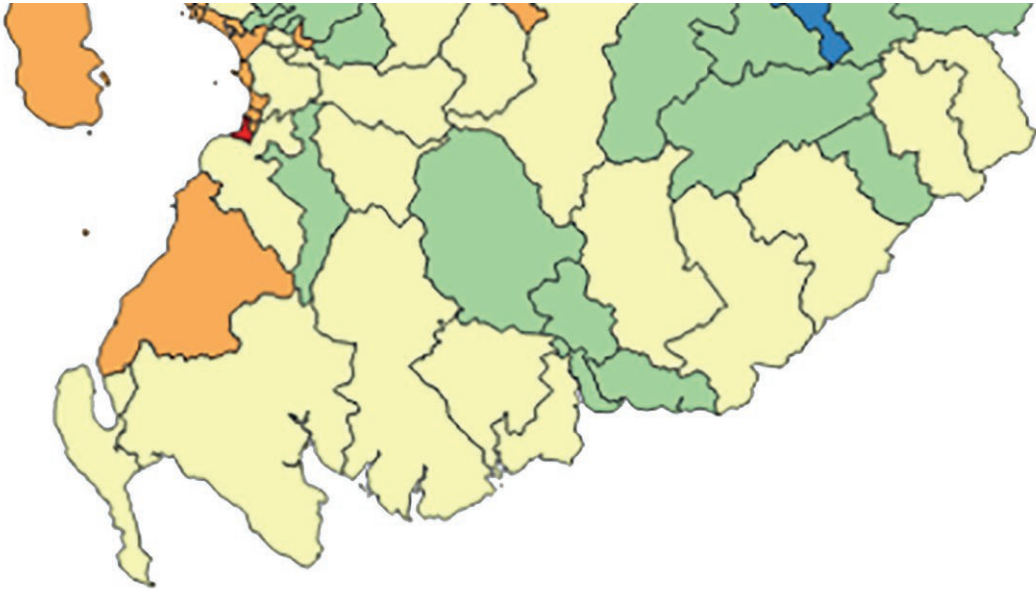
Most of the risk is concentrated in Scotland's more densely populated urban areas. Particularly at risk are areas around the Clyde: these communities have high levels of connectivity and population density, while existing health issues are more frequent, relative to the rest of Scotland, among their members. Due to their high levels of connectivity and larger populations, they also have had more numbers of cases of the virus, meaning more chance that it will be spread.

Figure 3. Highlands and Islands and North East Regions



Scotland's northern rural regions, such as the Highlands and Islands and the North East, are least at risk. While their older population structure means that many of their members are vulnerable to the virus in the sense that, if they were to catch it, they could die, there is less risk of the virus spreading among their communities due to decreased levels of connectivity and their geographically spread-out populations. The one exception to this is Shetland which early on had a high number of cases relative to its population. This may be due to Shetland's increased contact with the rest of the UK as a result of the activities of the oil industry on the islands.

Figure 4. Regions Near the Scottish Borders



Regions south of the Central Belt also have higher levels of risk, as there is greater accessibility between them and the Central Belt, while they are also located at the bottleneck of Scotland’s international and domestic trade routes.

Key conclusions and strategy

1. Government strategy should focus on maintaining the current distribution of risk across the country: that is, ensuring that low-risk areas remain low risk. By doing so, the crisis will be easier to manage, and resources will not become even more stretched.
2. To do this, public services such as the police and institutions concerned with transportation management should be used to contain the spread of the virus from high-risk urban areas to lower risk rural areas. This can be done through policies that manage flows of people at urban boundaries and thus need to be considered when travel restrictions are lifted and we enter a new potential stage of the virus's transmission in Scotland.
3. Meanwhile, the government should continue to concentrate on directing national health resources toward those more populated areas with high levels of risk and where the cases are being contained. If the geographic spread of risk remains concentrated in high-population areas and the maximum possible national health resources are targeted at these areas, this will have a positive impact on the efficiency of the response at a national level. The virus may eventually reach all parts of Scotland but at different timescales, so as the pressure on resources in the most populous areas reduces, resources will become available to meet the needs of the areas that were less at risk and therefore benefited most from the lockdown and social distancing rules.
4. This data also suggests, when the virus begins to be brought under control, that a gradual, regionally staged opening up of the country and loosening of restrictions is a possibility. Lower risk regions could see restrictions loosened at a faster pace than high-risk regions. An example would be the staged reopening of schools and childcare facilities in low-risk areas or construction work being phased back in with appropriate social distancing protections in place. This is not to say that such relaxations of the rules should be imminent or that people living in low-risk regions should begin to go about their ordinary lives at this time, as this could turn their communities into high-risk regions. Rather, it must be controlled, done in parallel to a mass testing programme and only when the government feels the time is right, after further research to establish risk thresholds.

Appendix

COVID-19 Community Risk Rankings (Higher Scores are Worse)

| Council Ward | Risk Score | Rank |
|--------------------------------------|------------|------|
| Inverclyde North | 112.7 | 1 |
| Inverclyde West | 112.4 | 2 |
| Inverclyde East | 112.0 | 3 |
| Inverclyde South | 111.7 | 4 |
| Inverclyde East Central | 111.4 | 5 |
| Clydebank Central | 111.1 | 6 |
| Inverclyde Central | 110.8 | 7 |
| Clydebank Waterfront | 110.4 | 8 |
| Dumbarton | 110.1 | 9 |
| Lomond | 109.8 | 10 |
| Inverclyde South West | 109.5 | 11 |
| Partick East/Kelvindale | 109.2 | 12 |
| Kilpatrick | 108.9 | 13 |
| Leven | 108.5 | 14 |
| Langside | 108.2 | 15 |
| Garscadden/Scotstounhill | 107.9 | 16 |
| East Centre | 107.6 | 17 |
| The Ferry | 107.3 | 18 |
| Hillhead | 106.9 | 19 |
| Giffnock and Thornliebank | 106.6 | 20 |
| Cardonald | 106.3 | 21 |
| Bearsden South | 106.0 | 22 |
| Clarkston, Netherlee and Williamwood | 105.7 | 23 |
| Southside Central | 105.4 | 24 |
| Pollokshields | 105.0 | 25 |
| Victoria Park | 104.7 | 26 |
| Coldside | 104.4 | 27 |
| Leith Walk | 104.1 | 28 |
| Paisley Southeast | 103.8 | 29 |
| Paisley Northeast and Ralston | 103.4 | 30 |
| Drumchapel/Anniesland | 103.1 | 31 |
| Shettleston | 102.8 | 32 |
| Bearsden North | 102.5 | 33 |
| Ayr West | 102.2 | 34 |
| Maryhill | 101.9 | 35 |

| | | |
|--|-------|----|
| Bishopbriggs South | 101.5 | 36 |
| Renfrew South and Gallowhill | 101.2 | 37 |
| Linn | 100.9 | 38 |
| Springburn/Robroyston | 100.6 | 39 |
| Calton | 100.3 | 40 |
| Newlands/Auldburn | 99.9 | 41 |
| Greater Pollok | 99.6 | 42 |
| Anderston/City/Yorkhill | 99.3 | 43 |
| Erskine and Inchinnan | 99.0 | 44 |
| North Coast and Cumbraes | 98.7 | 45 |
| Baillieston | 98.4 | 46 |
| Newton Mearns South and Eaglesham | 98.0 | 47 |
| Milngavie | 97.7 | 48 |
| Paisley Southwest | 97.4 | 49 |
| East End | 97.1 | 50 |
| Canal | 96.8 | 51 |
| Govan | 96.4 | 52 |
| Dennistoun | 96.1 | 53 |
| Johnstone South and Elderslie | 95.8 | 54 |
| Maryfield | 95.5 | 55 |
| Hilton/Woodside/Stockethill | 95.2 | 56 |
| Barrhead, Liboside and Uplawmoor | 94.9 | 57 |
| Corstorphine/Murrayfield | 94.5 | 58 |
| Renfrew North and Braehead | 94.2 | 59 |
| Bonnyrigg | 93.9 | 60 |
| Lochee | 93.6 | 61 |
| Bishopbriggs North and Campsie | 93.3 | 62 |
| Airyhall/Broomhill/Garthdee | 92.9 | 63 |
| Johnstone North, Kilbarchan, Howwood and Lochwinnoch | 92.6 | 64 |
| Bishopton, Bridge of Weir and Langbank | 92.3 | 65 |
| Lenzie and Kirkintilloch South | 92.0 | 66 |
| Paisley East and Central | 91.7 | 67 |
| Houston, Crosslee and Linwood | 91.4 | 68 |
| Strathmartine | 91.0 | 69 |
| Inverleith | 90.7 | 70 |
| Newton Mearns North and Neilston | 90.4 | 71 |
| Midlothian West | 90.1 | 72 |
| East Kilbride Central South | 89.8 | 73 |
| Penicuik | 89.4 | 74 |

| | | |
|--|------|-----|
| North East | 89.1 | 75 |
| Kirkintilloch East and North and Twechar | 88.8 | 76 |
| Paisley Northwest | 88.5 | 77 |
| Morningside | 88.2 | 78 |
| West End | 87.8 | 79 |
| Troon | 87.5 | 80 |
| East Kilbride Central North | 87.2 | 81 |
| Midlothian East | 86.9 | 82 |
| Forth | 86.6 | 83 |
| Clackmannanshire North | 86.3 | 84 |
| Northfield/Mastrick North | 85.9 | 85 |
| Prestwick | 85.6 | 86 |
| Ayr East | 85.3 | 87 |
| Ardrossan and Arran | 85.0 | 88 |
| Clackmannanshire South | 84.7 | 89 |
| Craightinny/Duddingston | 84.3 | 90 |
| Southside/Newington | 84.0 | 91 |
| Saltcoats | 83.7 | 92 |
| Clackmannanshire Central | 83.4 | 93 |
| Clackmannanshire East | 83.1 | 94 |
| Rutherglen South | 82.8 | 95 |
| North Isles | 82.4 | 96 |
| Cumbernauld South | 82.1 | 97 |
| North East | 81.8 | 98 |
| Fountainbridge/Craiglockhart | 81.5 | 99 |
| Coatbridge West | 81.2 | 100 |
| Rutherglen Central and North | 80.8 | 101 |
| Dalkeith | 80.5 | 102 |
| Airdrie Central | 80.2 | 103 |
| Hamilton South | 79.9 | 104 |
| Sighthill/Gorgie | 79.6 | 105 |
| Liberton/Gilmerton | 79.3 | 106 |
| Irvine West | 78.9 | 107 |
| Portobello/Craigmillar | 78.6 | 108 |
| Midlothian South | 78.3 | 109 |
| Drum Brae/Gyle | 78.0 | 110 |
| Torry/Ferryhill | 77.7 | 111 |
| Wishaw | 77.3 | 112 |
| Hazlehead/Queens Cross/Countesswells | 77.0 | 113 |
| Falkirk South | 76.7 | 114 |

| | | |
|---------------------------------------|------|-----|
| Clackmannanshire West | 76.4 | 115 |
| City Centre | 76.1 | 116 |
| Girvan and South Carrick | 75.8 | 117 |
| Lower Deeside | 75.4 | 118 |
| Ayr North | 75.1 | 119 |
| Coatbridge North | 74.8 | 120 |
| Colinton/Fairmilehead | 74.5 | 121 |
| Lerwick South | 74.2 | 122 |
| Kirkcaldy Central | 73.8 | 123 |
| Dyce/Bucksburn/Danestone | 73.5 | 124 |
| Motherwell West | 73.2 | 125 |
| Dalry and West Kilbride | 72.9 | 126 |
| Midstocket/Rosemount | 72.6 | 127 |
| East Kilbride East | 72.3 | 128 |
| Bothwell and Uddingston | 71.9 | 129 |
| Grangemouth | 71.6 | 130 |
| Coatbridge South | 71.3 | 131 |
| Irvine South | 71.0 | 132 |
| Bridge of Don | 70.7 | 133 |
| Cambuslang West | 70.3 | 134 |
| Cumbernauld East | 70.0 | 135 |
| Motherwell South East and Ravenscraig | 69.7 | 136 |
| Murdostoun | 69.4 | 137 |
| Clydesdale North | 69.1 | 138 |
| Leith | 68.8 | 139 |
| Stevenston | 68.4 | 140 |
| Kilmarnock East and Hurlford | 68.1 | 141 |
| Thorniewood | 67.8 | 142 |
| Kingswells/Sheddocksley/Summerhill | 67.5 | 143 |
| Kilbirnie and Beith | 67.2 | 144 |
| North Berwick Coastal | 66.8 | 145 |
| Bellshill | 66.5 | 146 |
| Blantyre | 66.2 | 147 |
| Strathearn | 65.9 | 148 |
| George St/Harbour | 65.6 | 149 |
| Linlithgow | 65.3 | 150 |
| Kelso and District | 64.9 | 151 |
| Dee and Glenkens | 64.6 | 152 |
| Lerwick North | 64.3 | 153 |
| Motherwell North | 64.0 | 154 |

| | | |
|------------------------------------|------|-----|
| Almond | 63.7 | 155 |
| Blairgowrie and Glens | 63.3 | 156 |
| Hamilton North and East | 63.0 | 157 |
| Kincorth/Nigg/Cove | 62.7 | 158 |
| Kilmarnock West and Crosshouse | 62.4 | 159 |
| Perth City South | 62.1 | 160 |
| Kilwinning | 61.7 | 161 |
| Broxburn, Uphall and Winchburgh | 61.4 | 162 |
| Whitburn and Blackburn | 61.1 | 163 |
| Falkirk North | 60.8 | 164 |
| Kyle | 60.5 | 165 |
| Annandale East and Eskdale | 60.2 | 166 |
| Tillydrone/Seaton/Old Aberdeen | 59.8 | 167 |
| Highland | 59.5 | 168 |
| East Neuk and Landward | 59.2 | 169 |
| Clydesdale South | 58.9 | 170 |
| Monifieth and Sidlaw | 58.6 | 171 |
| Cowal | 58.2 | 172 |
| Pentland Hills | 57.9 | 173 |
| Maybole, North Carrick and Coylton | 57.6 | 174 |
| Airdrie South | 57.3 | 175 |
| Larkhall | 57.0 | 176 |
| Strathmore | 56.7 | 177 |
| Stepps, Chryston and Muirhead | 56.3 | 178 |
| Kilsyth | 56.0 | 179 |
| Kirkcaldy North | 55.7 | 180 |
| Fortissat | 55.4 | 181 |
| Lower Braes | 55.1 | 182 |
| Annandale North | 54.7 | 183 |
| Livingston North | 54.4 | 184 |
| Hawick and Hermitage | 54.1 | 185 |
| Mid Galloway and Wigtown West | 53.8 | 186 |
| Cupar | 53.5 | 187 |
| East Kilbride South | 53.2 | 188 |
| Shetland South | 52.8 | 189 |
| Livingston South | 52.5 | 190 |
| Castle Douglas and Crocketford | 52.2 | 191 |
| Ballochmyle | 51.9 | 192 |
| Bo'ness and Blackness | 51.6 | 193 |
| Fauldhouse and the Breich Valley | 51.2 | 194 |

| | | |
|--------------------------------------|------|-----|
| Cumbernauld North | 50.9 | 195 |
| Abbey | 50.6 | 196 |
| Kilmarnock South | 50.3 | 197 |
| Mossend and Holytown | 50.0 | 198 |
| Shetland West | 49.7 | 199 |
| Leven, Kennoway and Largo | 49.3 | 200 |
| Clydesdale East | 49.0 | 201 |
| Shetland Central | 48.7 | 202 |
| Avondale and Stonehouse | 48.4 | 203 |
| Stranraer and the Rhins | 48.1 | 204 |
| Helensburgh Central | 47.7 | 205 |
| Clydesdale West | 47.4 | 206 |
| Elgin City North | 47.1 | 207 |
| Forfar and District | 46.8 | 208 |
| Cumnock and New Cumnock | 46.5 | 209 |
| Bathgate | 46.2 | 210 |
| Shetland North | 45.8 | 211 |
| Kirkcaldy East | 45.5 | 212 |
| Jedburgh and District | 45.2 | 213 |
| Arbroath West, Letham and Friockheim | 44.9 | 214 |
| Armadale and Blackridge | 44.6 | 215 |
| Irvine East | 44.2 | 216 |
| Keith and Cullen | 43.9 | 217 |
| Dunfermline North | 43.6 | 218 |
| Perth City Centre | 43.3 | 219 |
| Airdrie North | 43.0 | 220 |
| East Livingston and East Calder | 42.7 | 221 |
| Irvine Valley | 42.3 | 222 |
| Isle of Bute | 42.0 | 223 |
| Bonnybridge and Larbert | 41.7 | 224 |
| North West Dumfries | 41.4 | 225 |
| Mid Berwickshire | 41.1 | 226 |
| Annick | 40.7 | 227 |
| Selkirkshire | 40.4 | 228 |
| Nith | 40.1 | 229 |
| Musselburgh | 39.8 | 230 |
| Carnoustie and District | 39.5 | 231 |
| Buckie | 39.2 | 232 |
| Mid and Upper Nithsdale | 38.8 | 233 |
| Denny and Banknock | 38.5 | 234 |

| | | |
|---|------|-----|
| Carse, Kinnaird and Tryst | 38.2 | 235 |
| Doon Valley | 37.9 | 236 |
| Speyside Glenlivet | 37.6 | 237 |
| Forres | 37.2 | 238 |
| Brechin and Edzell | 36.9 | 239 |
| Howe of Fife and Tay Coast | 36.6 | 240 |
| East Sutherland and Edderton | 36.3 | 241 |
| Inverkeithing and Dalgety Bay | 36.0 | 242 |
| Montrose and District | 35.6 | 243 |
| Kirriemuir and Dean | 35.3 | 244 |
| Strathallan | 35.0 | 245 |
| Hamilton West and Earnock | 34.7 | 246 |
| Buckhaven, Methil and Wemyss Villages | 34.4 | 247 |
| Stirling West | 34.1 | 248 |
| Annandale South | 33.7 | 249 |
| East Berwickshire | 33.4 | 250 |
| Burntisland, Kinghorn and Western Kirkcaldy | 33.1 | 251 |
| Forth and Endrick | 32.8 | 252 |
| East Kilbride West | 32.5 | 253 |
| Haddington and Lammermuir | 32.1 | 254 |
| Cowdenbeath | 31.8 | 255 |
| Glenrothes North, Leslie and Markinch | 31.5 | 256 |
| Elgin City South | 31.2 | 257 |
| Kilmarnock North | 30.9 | 258 |
| Tweeddale West | 30.6 | 259 |
| Steòrnabhagh a Deas | 30.2 | 260 |
| Gartcosh, Glenboig and Moodiesburn | 29.9 | 261 |
| Fochabers Lhanbryde | 29.6 | 262 |
| Leaderdale and Melrose | 29.3 | 263 |
| Preston, Seton and Gosford | 29.0 | 264 |
| South Kintyre | 28.6 | 265 |
| Strathtay | 28.3 | 266 |
| Hawick and Denholm | 28.0 | 267 |
| Upper Braes | 27.7 | 268 |
| Kinross-shire | 27.4 | 269 |
| Trossachs and Teith | 27.1 | 270 |
| Dunblane and Bridge of Allan | 26.7 | 271 |
| Glenrothes Central and Thornton | 26.4 | 272 |
| Tay Bridgehead | 26.1 | 273 |
| Inverness Central | 25.8 | 274 |

| | | |
|---|------|-----|
| Dunoon | 25.5 | 275 |
| Tweeddale East | 25.1 | 276 |
| Lochgelly, Cardenden and Benarty | 24.8 | 277 |
| West Fife and Coastal Villages | 24.5 | 278 |
| Dunfermline South | 24.2 | 279 |
| Dunfermline Central | 23.9 | 280 |
| Lochar | 23.6 | 281 |
| Glenrothes West and Kinglassie | 23.2 | 282 |
| Perth City North | 22.9 | 283 |
| Kintyre and the Islands | 22.6 | 284 |
| Stirling East | 22.3 | 285 |
| Dunbar and East Linton | 22.0 | 286 |
| Na Hearadh agus Ceann a Deas nan Loch | 21.6 | 287 |
| Wester Ross, Strathpeffer and Lochalsh | 21.3 | 288 |
| Arbroath East and Lunan | 21.0 | 289 |
| Sgir'Uige agus Ceann a Tuath nan Loch | 20.7 | 290 |
| St Andrews | 20.4 | 291 |
| North, West and Central Sutherland | 20.1 | 292 |
| Heldon and Laich | 19.7 | 293 |
| Rosyth | 19.4 | 294 |
| Cambuslang East | 19.1 | 295 |
| An Taobh Siar agus Nis | 18.8 | 296 |
| Nairn and Cawdor | 18.5 | 297 |
| Oban North and Lorn | 18.1 | 298 |
| Galashiels and District | 17.8 | 299 |
| Almond and Earn | 17.5 | 300 |
| Tranent, Wallyford and Macmerry | 17.2 | 301 |
| Carse of Gowrie | 16.9 | 302 |
| Thurso and Northwest Caithness | 16.6 | 303 |
| Mid Argyll | 16.2 | 304 |
| Tain and Easter Ross | 15.9 | 305 |
| Bannockburn | 15.6 | 306 |
| Black Isle | 15.3 | 307 |
| North Isles | 15.0 | 308 |
| Inverness West | 14.6 | 309 |
| Inverness Ness-side | 14.3 | 310 |
| Inverness Millburn | 14.0 | 311 |
| Eilean á Chèò | 13.7 | 312 |
| Badenoch and Strathspey | 13.4 | 313 |
| Barraigh, Bhatarsaigh, Eirisgeigh agus Uibhist a Deas | 13.1 | 314 |

| | | |
|---|------|-----|
| Helensburgh and Lomond South | 12.7 | 315 |
| Stromness and South Isles | 12.4 | 316 |
| Aird and Loch Ness | 12.1 | 317 |
| Aboyne, Upper Deeside and Donside | 11.8 | 318 |
| Wick and East Caithness | 11.5 | 319 |
| Dingwall and Seaforth | 11.1 | 320 |
| Oban South and the Isles | 10.8 | 321 |
| Beinn na Foghla agus Uibhist a Tuath | 10.5 | 322 |
| Stirling North | 10.2 | 323 |
| Caol and Mallaig | 9.9 | 324 |
| Banff and District | 9.5 | 325 |
| Fort William and Ardnamurchan | 9.2 | 326 |
| Banchory and Mid Deeside | 8.9 | 327 |
| Sgìre an Rubha | 8.6 | 328 |
| Huntly, Strathbogie and Howe of Alford | 8.3 | 329 |
| Cromarty Firth | 8.0 | 330 |
| Steòrnabhagh a Tuath | 7.6 | 331 |
| West Mainland | 7.3 | 332 |
| Stonehaven and Lower Deeside | 7.0 | 333 |
| Lomond North | 6.7 | 334 |
| Inverurie and District | 6.4 | 335 |
| Culloden and Ardersier | 6.0 | 336 |
| Fraserburgh and District | 5.7 | 337 |
| Kirkwall East | 5.4 | 338 |
| Turriff and District | 5.1 | 339 |
| Peterhead North and Rattray | 4.8 | 340 |
| Loch a Tuath | 4.5 | 341 |
| Ellon and District | 4.1 | 342 |
| Troup | 3.8 | 343 |
| Kirkwall West and Orphir | 3.5 | 344 |
| Central Buchan | 3.2 | 345 |
| Peterhead South and Cruden | 2.9 | 346 |
| East Mainland, South Ronaldsay and Burray | 2.5 | 347 |
| West Garioch | 2.2 | 348 |
| Mearns | 1.9 | 349 |
| Inverness South | 1.6 | 350 |
| Westhill and District | 1.3 | 351 |
| Mid Formartine | 1.0 | 352 |
| North Kincardine | 0.6 | 353 |
| East Garioch | 0.3 | 354 |