MID ROSS Partnership Profile **Demography and Deprivation** Dornoch A836 Beinn Dearg Firth Tain Easter Ross 1081m och A835 Mòr **Alness** vergordor Loch A832 Dingwall Garve Fortrose A834 Achnasheen Black Isle A835 A832 Muir of Ord A862 Beauly 6 nfarrar Inverness R Beaul R Farrar nar Cannich **Public Health Intelligence** NHS November 2022 Highland

The Public Health Intelligence team are part of the Directorate of Public Health of NHS Highland and provide an expert resource on epidemiology, demography and population health evidence.



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| Distribution | Method |
|---|--------------------------|
| Distributed to NHS Highland stakeholders, Public Health Directorate staff, community planning partners and Public Health Intelligence intranet page | Intranet with email link |

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Introduction

This report provides an overview of Mid Ross's current and future population structure. It also provides information about the population dynamics of Mid Ross and areas within Mid Ross, the geography, and the life circumstances of people living in the area.

All data are presented for Mid Ross and, where available, intermediate zones or neighbourhoods within Mid Ross. Comparisons are made to the Highland local authority and Scotland.

Further profile reports will present information covering a range of topics relating to health status (morbidity and mortality) across the life course, health behaviours and health harms from alcohol, tobacco and other substances. The reports do not cover information on the use or provision of health or social care services which other colleagues in NHS Highland may provide.

Geographies and populations

Profile reports are available for nine community partnerships in Highland local authority and four community planning groups in Argyll and Bute local authority. These partnership areas are the focus of action to improve the health of the people and communities in the area covered by NHS Highland Health Board.

This report uses four levels of geography: local authority, partnership area, intermediate zone and data zone. Local authorities, intermediate zones and data zones are nationally agreed geographical areas with defined boundaries. Partnership areas are locally defined geographies created without reference to national geographies. Therefore, partnership areas and national geographies may not neatly align.

The intermediate zone is the smallest spatial unit most commonly used for releasing and presenting potentially sensitive statistical data and reporting measures of population health. Most measures, and figures presented in this report are aggregations from data zones to higher geographical levels. The number of events in the intermediate geographies that best align with a partnership area may not sum to the exact total.

The population estimates for the intermediate zones and partnership areas presented in the profiles are aggregations of data zone-level populations provided by National Records of Scotland (NRS)¹. These are called small area population estimates (SAPE). The latest estimates are based upon the 2011 census, with an adjustment made annually for the number of births, deaths and an estimate of migration. Future estimates will be rebased on the 2022 census when the results become available.

1

The population projections used in this report were produced by the Improvement Service (IS)². They are based on Housing Market Areas (HMAs) defined by the Argyll and Bute Council and the Highland Council.

Deprivation and Inequalities

This report presents some information on deprivation using the Scottish Index of Multiple Deprivation (SIMD)³. The SIMD is an area-based measure of relative deprivation rather than household or individual deprivation. The SIMD can help to understand the life circumstances and health outcomes of people living in areas identified as experiencing high levels of deprivation.

Health inequalities have been defined as the "unjust and avoidable differences in people's health across the population and between specific population groups"⁴. Inequalities are not caused by a single issue, and can occur by gender, income, deprivation, ethnicity, disability, geography and other factors.

The SIMD is used to monitor health inequalities by dividing the population into five groups (quintiles) or ten groups (deciles) based on their area deprivation level.

The SIMD represents deprivation less accurately in rural areas⁵. The statistical indicators used in the index do not capture the nature of rural disadvantage, and poor households in rural areas are unlikely to be spatially concentrated. Rural areas tend to be less socially homogeneous than urban ones in terms of deprivation, and deprived households in rural areas are unlikely to make much statistical impact on a small area (data zone) basis. A consequence is that rural disadvantage is less visible and 'less easily tractable' than in urban areas.

Further information on the geographies, populations and other terms used within the report are available in the Glossary.

Mid Ross Summary

- The partnership area of Mid Ross includes the settlements of Avoch, Conon Bridge, Cromarty, Dingwall, Fortrose, Maryburgh, Muir of Ord, North Kessock, Rosemarkie and Strathpeffer. The area includes the Black Isle and extends across central Ross-shire.
- Almost a third of the population (29%) live within the accessible or remote small towns of Conon and Dingwall, and 71% live in areas classified as rural. About two in five people (45%) live in remote rural areas.
- As of 2021, Mid Ross has a population of 27,233 people. 16.2% are children aged 0-15 years, 59.6% are aged 16-64 years, and 24.2% are aged 65 years and over.
- The age profile of the Mid Ross population is similar to Highland.
- The population of Mid Ross increased by 16% in the period from 2002 to 2021.
- Over this period, there was a 68% increase in the 65+ age group, a 9% increase in the population aged 16-64 years and a 3% decrease in the population aged under 16 years.
- The ratio of 2.5 people of working age (16-64 years) to older people (age 65 years and over) is lower in Mid Ross than in Highland and Scotland.
- There were 226 live births to Mid Ross residents in 2020.
- The birth rate has decreased over the last decade in Mid Ross and Highland. There is variation in birth rates annually and between small areas in Mid Ross.
- The mortality rate in Mid Ross has consistently been lower than that of Highland.
- Following the pattern in Highland and Scotland, improvement in the mortality rate in Mid Ross has stalled⁶. It is a significant concern that a sentinel measure of population health and social progress is not improving.
- Population projections are informed by past trends in births, deaths and migration.
- The annual number of deaths in the area exceeds the number of births, and population growth depends on net migration gain.

- The latest available population projections estimate that the overall population of Mid Ross will
 continue to grow to 2030.
- The number and proportion of people in the 65-74, 75-84 and 85+ age groups are projected to increase, whereas the population aged 0-15 years and 45-64 years are projected to decrease.
- Projected demographic changes indicate that the ratio of people of working age to people aged
 65 years and older will further decrease.
- SIMD 2020 identifies Dingwall Central as the only data zone in Mid Ross ranked in the 20% most deprived small areas in Scotland.
- A lower proportion (2.2%) of the population of Mid Ross live in the most deprived SIMD quintile in Scotland, compared to Highland (8.8%). Most of the population (76.1%) live in areas identified as quintiles 3 and 4.
- In SIMD 2020, 7.7% of the population of Mid Ross were identified as being income deprived and 6.2% of the working age population were employment deprived.
- Rural deprivation is an important concern. Those identified as income or employment deprived are found in all intermediate geography areas.

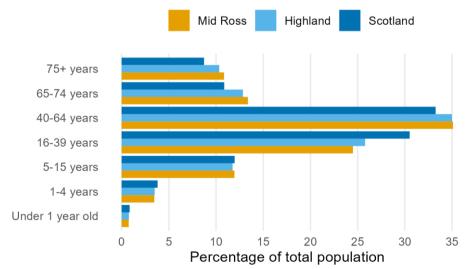
Current Population

Table 1: Current estimated population by age group

| Age Band | Mid Ross | Highland | Scotland |
|------------------|----------|----------|-----------|
| All ages | 27,233 | 238,060 | 5,479,900 |
| Under 1 year old | 204 | 1,842 | 46,782 |
| 1-4 years | 941 | 8,321 | 208,655 |
| 5-15 years | 3,255 | 27,967 | 656,085 |
| 16-39 years | 6,672 | 61,405 | 1,671,841 |
| 40-64 years | 9,560 | 83,301 | 1,822,676 |
| 65-74 years | 3,645 | 30,598 | 595,578 |
| 75+ years | 2,956 | 24,626 | 478,283 |
| 85+ years | 774 | 6,691 | 131,309 |
| 0-15 years | 4,400 | 38,130 | 911,522 |
| 16-64 years | 16,232 | 144,706 | 3,494,517 |
| 65+ years | 6,601 | 55,224 | 1,073,861 |

Source: National Records of Scotland, Small Area Population Estimates 2021

Figure 1: Percentage of the population by age group



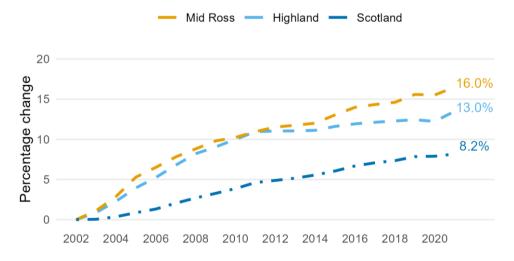
Source: National Records of Scotland, Small Area Population Estimates 2021

Table 2: Percentage of the population by age group

| Age Band | Mid Ross | Highland | Scotland |
|------------------|----------|----------|-----------|
| All ages | 27,233 | 238,060 | 5,479,900 |
| Under 1 year old | 0.8 | 0.8 | 0.8 |
| 1-4 years | 3.5 | 3.5 | 3.8 |
| 5-15 years | 11.9 | 11.8 | 12.0 |
| 16-39 years | 24.5 | 25.8 | 30.5 |
| 40-64 years | 35.1 | 35.0 | 33.3 |
| 65-74 years | 13.4 | 12.8 | 10.9 |
| 75+ years | 10.8 | 10.3 | 8.7 |
| 85+ years | 2.8 | 2.8 | 2.4 |
| 0-15 years | 16.2 | 16.0 | 16.6 |
| 16-64 years | 59.6 | 60.8 | 63.8 |
| 65+ years | 24.2 | 23.2 | 19.6 |

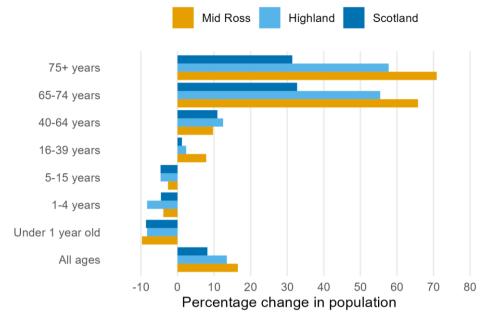
Source: National Records of Scotland, Small Area Population Estimates 2021

Figure 2: Percentage change in total population, 2002 to 2021



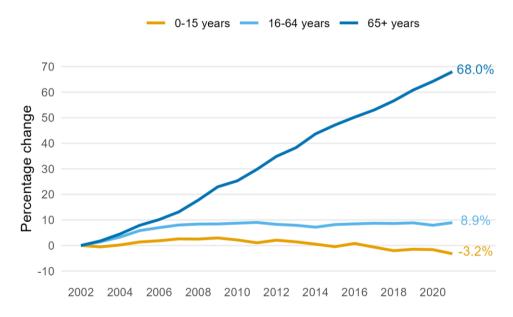
Source: National Records of Scotland, Small Area Population Estimates 2021

Figure 3: Percentage change in the population by age group, 2002 to 2021



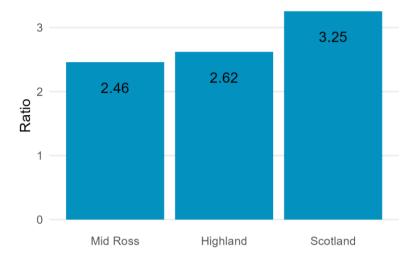
Source: National Records of Scotland, Small Area Population Estimates 2021

Figure 4: Mid Ross: Percentage change in the population by broad age group



Source: National Records of Scotland, Small Area Population Estimates 2021

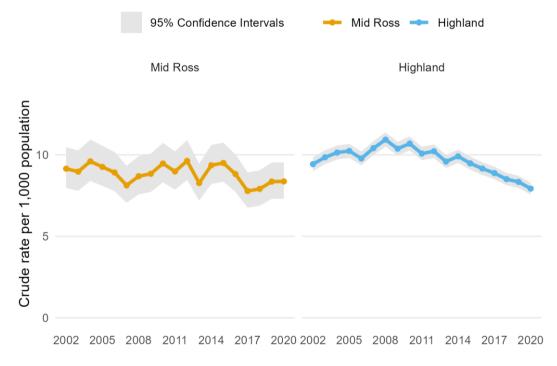
Figure 5: People of working age (16-64 years) for every person 65 years and older in 2021



Source: National Records of Scotland, Small Area Population Estimates 2021

Live Births

Figure 6: Annual births per 1,000 women aged 15-44¹, 2002 - 2020



¹ Represents the degree of variability in the measures given by the 95% confidence intervals

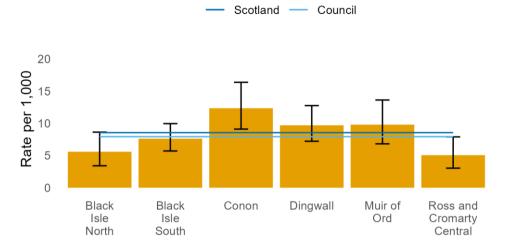
Table 3: Number of live births and births per 1,000 women aged 15-44, 2020

| | | | | | Signific | cance |
|------------------------------|--------|------|-------------|-------------|----------|---------|
| | Number | Rate | Lower bound | Upper bound | Scotland | Council |
| Highland | 1,866 | 7.9 | 7.6 | 8.3 | * | _ |
| NHS Highland | 2,458 | 7.7 | 7.4 | 8.0 | * | |
| Scotland | 46,809 | 8.6 | 8.5 | 8.6 | | * |
| | | | | | | |
| Inverness | 743 | 9.1 | 8.4 | 9.8 | | * |
| East Ross | 200 | 9.0 | 7.8 | 10.3 | | |
| Mid Ross | 226 | 8.4 | 7.3 | 9.5 | | |
| Caithness | 197 | 7.8 | 6.8 | 9.0 | | |
| Lochaber | 151 | 7.7 | 6.5 | 9.0 | | |
| Nairn and Nairnshire | 93 | 6.9 | 5.6 | 8.5 | * | |
| Badenoch and Strathspey | 85 | 6.1 | 4.9 | 7.5 | * | * |
| Skye, Lochalsh and West Ross | 111 | 5.7 | 4.7 | 6.9 | * | * |
| Sutherland | 60 | 4.7 | 3.6 | 6.0 | * | * |

Table 4: Number of live births and births per 1,000 women aged 15-44 by intermediate geographies in the area, 2020

| | | | | | Signific | cance |
|---------------------------|--------|------|-------------|-------------|----------|---------|
| | Number | Rate | Lower bound | Upper bound | Scotland | Council |
| Conon | 48 | 12.3 | 9.1 | 16.4 | * | * |
| Muir of Ord | 35 | 9.8 | 6.8 | 13.6 | | |
| Dingwall | 51 | 9.7 | 7.2 | 12.8 | | |
| Black Isle South | 53 | 7.6 | 5.7 | 10.0 | | |
| Black Isle North | 20 | 5.6 | 3.4 | 8.6 | | |
| Ross and Cromarty Central | 19 | 5.1 | 3.0 | 7.9 | * | |

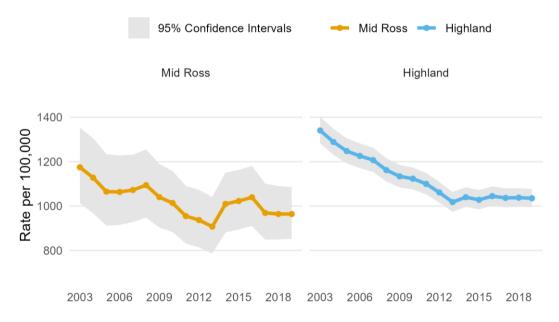
Figure 7: Live births per 1,000 women aged 15-44 by intermediate geographies¹, 2020



1 Error bars (vertical lines at column series ends) show a 95% confidence interval range

Deaths - all ages

Figure 8: Age-sex standardised mortality rate (all ages) per 100,000 population¹, 2002 - 2020^{2,3}



¹ Represents the degree of variability in the measures given by the 95% confidence intervals. 2 The x-axis labels show the middle year of the aggregated time period. 3 Note: the y-axis scale does not start at zero

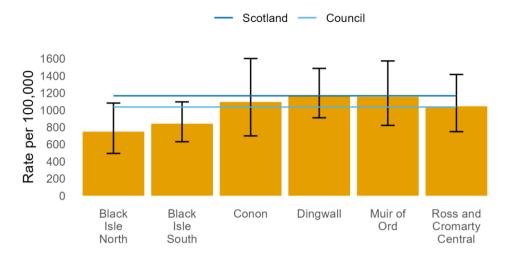
Table 5: Number of deaths and age-sex standardised mortality rates, 2018 - 2020

| | | | | | Signific | cance |
|------------------------------|----------------------|---------|----------------|----------------|----------|---------|
| | Avg Annual Number | Rate | Lower bound | Upper bound | Scotland | Council |
| Highland | 2,626 | 1,035.2 | 994.8 | 1,076.7 | * | |
| NHS Highland | 3,751 | 1,050.7 | 1,016.2 | 1,086.0 | * | |
| Scotland | 59,983 | 1,166.3 | 1,156.7 | 1,176.0 | | * |
| East Ross | 264 | 1,103.5 | 970.0 | 1,249.7 | | |
| Lochaber | 222 | 1,102.6 | 955.6 | 1,265.1 | | |
| Inverness | 833 | 1,066.3 | 992.9 | 1,143.5 | * | |
| Caithness | 301 | 1,066.0 | 945.5 | 1,197.2 | | |
| Nairn and Nairnshire | 177 | 1,058.7 | 904.5 | 1,231.2 | | |
| Sutherland | 178 | 994.2 | 846.7 | 1,159.1 | | |
| Mid Ross | 288 | 964.0 | 852.3 | 1,086.0 | * | |
| Skye, Lochalsh and West Ross | 228 | 941.6 | 820.0 | 1,075.7 | * | |
| Badenoch and Strathspey | 137 | 899.0 | 747.6 | 1,070.8 | * | |

Table 6: Age-sex standardised mortality rates by intermediate geography, 2018 - 2020

| | | | | | Signific | cance |
|---------------------------|----------------------|---------|----------------|----------------|----------|---------|
| | Avg annual number | Rate | Lower bound | Upper bound | Scotland | Council |
| Dingwall | 71.67 | 1,172.6 | 909.7 | 1,486.0 | | |
| Muir of Ord | 43.33 | 1,154.5 | 820.8 | 1,573.0 | | |
| Conon | 37.00 | 1,094.5 | 698.3 | 1,601.1 | | |
| Ross and Cromarty Central | 44.33 | 1,044.3 | 747.9 | 1,415.2 | | |
| Black Isle South | 60.67 | 840.7 | 630.4 | 1,095.3 | * | |
| Black Isle North | 30.33 | 747.8 | 493.4 | 1,081.5 | * | |





¹ Error bars (vertical lines at column series ends) show a 95% confidence interval range

Population Projections

Table 7: Projected population by age group, 2018 - 2030

| Year | 0-15 | 16-44 | 45-64 | 65-74 | 75-84 | 85+ | Totals |
|------|-------|-------|-------|-------|-------|-----|--------|
| 2018 | 3,987 | 7,081 | 7,289 | 3,175 | 1,697 | 609 | 23,838 |
| 2019 | 3,970 | 7,117 | 7,208 | 3,221 | 1,817 | 618 | 23,951 |
| 2020 | 3,975 | 7,144 | 7,170 | 3,282 | 1,843 | 652 | 24,066 |
| 2021 | 3,967 | 7,184 | 7,132 | 3,319 | 1,901 | 674 | 24,177 |
| 2022 | 3,965 | 7,231 | 7,055 | 3,315 | 2,027 | 689 | 24,282 |
| 2023 | 3,934 | 7,317 | 6,967 | 3,334 | 2,116 | 715 | 24,383 |
| 2024 | 3,937 | 7,318 | 6,935 | 3,345 | 2,188 | 754 | 24,477 |
| 2025 | 3,934 | 7,310 | 6,882 | 3,400 | 2,276 | 764 | 24,566 |
| 2026 | 3,918 | 7,310 | 6,827 | 3,473 | 2,343 | 779 | 24,650 |
| 2027 | 3,888 | 7,325 | 6,783 | 3,501 | 2,427 | 805 | 24,729 |
| 2028 | 3,845 | 7,361 | 6,732 | 3,547 | 2,466 | 854 | 24,805 |
| 2029 | 3,843 | 7,329 | 6,693 | 3,576 | 2,512 | 921 | 24,874 |
| 2030 | 3,824 | 7,343 | 6,617 | 3,649 | 2,559 | 946 | 24,938 |

Source: Improvement Service Population Projections for Sub Council Areas 2018 based

Figure 10: Projected population by age group, 2018 – 2030

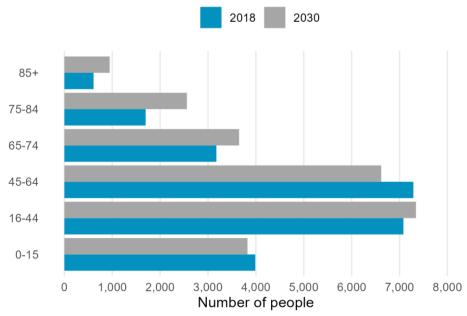


Figure 11: Estimated population in 2018 and projected population in 2030

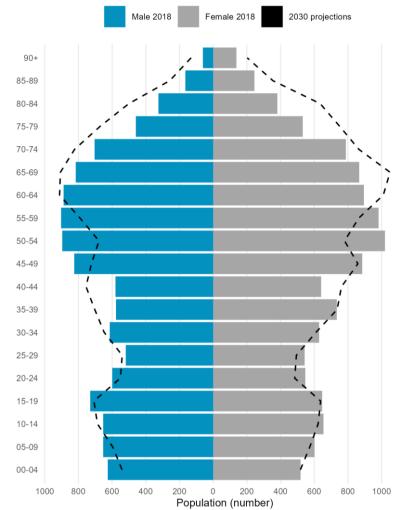


Figure 12: Projected population compared to the HSCP area by 2030

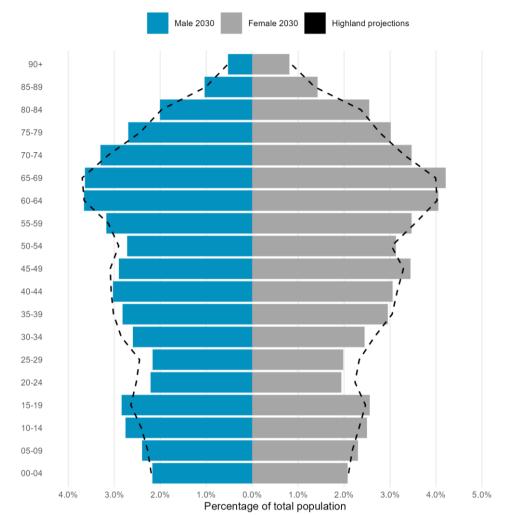
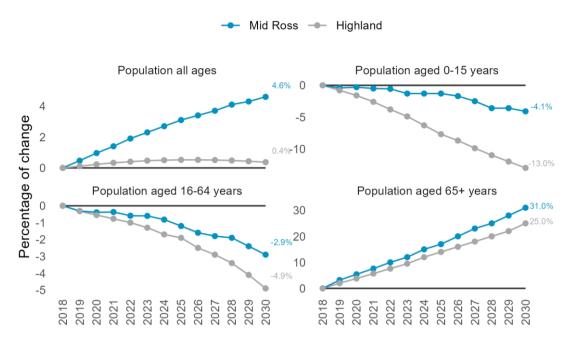
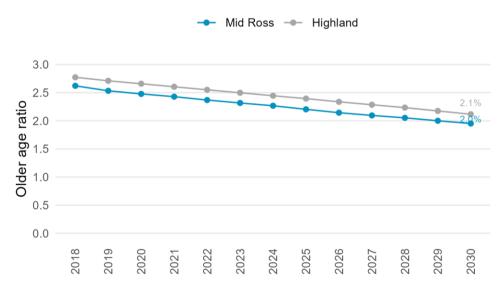


Figure 13: Projected percentage change in the population by broad age group, 2018 - 2030



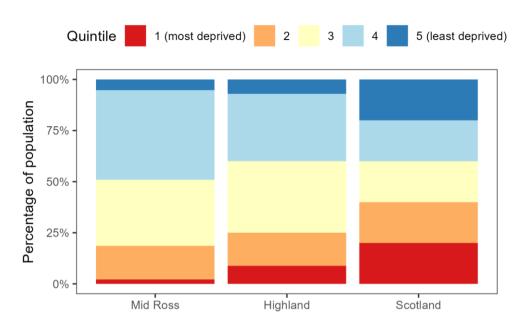
Source: Improvement Service Population Projections for Sub Council Areas 2018 based

Figure 14: Projected ratio of people of working age (16-64 years) for every person aged 65 and over



Scottish Index of Multiple Deprivation 2020

Figure 15: Percentage of the population living in small areas which are in the most to least deprived in Scotland



Source: Scottish Index of Multiple Deprivation 2020 and NRS Small Area Population Estimates (2021)

Table 8: Percentage of the population living in small areas that are in the most to least deprived in Scotland

| | 1 (most deprived) | 2 | 3 | 4 | 5 (least deprived) |
|----------|-------------------|------|------|------|--------------------|
| Mid Ross | 2.2 | 16.4 | 32.3 | 43.8 | 5.2 |
| Highland | 8.8 | 16.2 | 35.0 | 32.9 | 7.0 |
| Scotland | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |

Source: Scottish Index of Multiple Deprivation 2020 and NRS Small Area Population Estimates (2021)

Table 9: Data zones in the most deprived 20 percent of areas in Scotland in the HSCP

| | Total number of data zones in the area | Areas in the 20% most deprived in Scotland | Local share of the 20% most deprived areas in Scotland |
|---------------------------------|--|---|--|
| Badenoch and Strathspey | 17 | 0 | 0.0 |
| Caithness | 38 | 4 | 10.5 |
| East Ross | 30 | 8 | 26.7 |
| Inverness | 103 | 14 | 13.6 |
| Lochaber | 27 | 2 | 7.4 |
| Mid Ross | 33 | 1 | 3.0 |
| Nairn and Nairnshire | 18 | 1 | 5.6 |
| Skye, Lochalsh and West Ross | 26 | 0 | 0.0 |
| Sutherland | 20 | 0 | 0.0 |
| | | | |
| Highland | 312 | 30 | 9.6 |

Source: Scottish Index of Multiple Deprivation 2020

Table 10: Mid Ross data zones in the most deprived 20 percent of areas in Scotland

| Data zone | Name | Rank in Scotland (1 = most deprived area 6976 = least deprived) | National decile of deprivation |
|-----------|------------------|---|--------------------------------|
| S01010714 | Dingwall Central | 1,132 | 2 |

Source: Scottish Index of Multiple Deprivation 2020

Population Income Deprived

Table 11: Number and percentage of the population who are income deprived

| | | | | | Signific | cance |
|---------------------------------|----------------------------|--------------------------------|-------|----------------|----------|---------|
| | Population income deprived | Population income deprived (%) | Lower | Upper bound | Scotland | Council |
| Highland | 22,916 | 9.7 | 9.6 | 9.9 | * | |
| NHS Highland | 31,366 | 9.7 | 9.6 | 9.8 | * | |
| Scotland | 654,561 | 12.1 | 12.0 | 12.1 | | * |
| | | | | | | |
| East Ross | 3,154 | 14.2 | 13.8 | 14.7 | * | * |
| Caithness | 2,913 | 11.4 | 11.0 | 11.8 | * | * |
| Inverness | 8,287 | 10.2 | 10.0 | 10.4 | * | * |
| Sutherland | 1,260 | 9.8 | 9.3 | 10.3 | * | |
| Nairn and Nairnshire | 1,167 | 8.8 | 8.3 | 9.2 | * | * |
| Lochaber | 1,662 | 8.3 | 8.0 | 8.8 | * | * |
| Mid Ross | 2,070 | 7.7 | 7.4 | 8.1 | * | * |
| Skye, Lochalsh and West Ross | 1,467 | 7.6 | 7.2 | 8.0 | * | * |
| Badenoch and Strathspey | 936 | 6.8 | 6.4 | 7.2 | * | * |

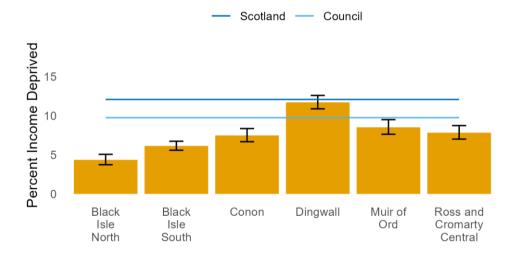
Source: Scottish Index of Multiple Deprivation 2020

Table 12: Number and percentage of the population who are income deprived by intermediate geography

| | | | | | Signific | cance |
|---------------------------|----------------------------|--------------------------------|----------------|----------------|----------|---------|
| | Population income deprived | Population income deprived (%) | Lower bound | Upper bound | Scotland | Council |
| Dingwall | 634 | 11.7 | 10.9 | 12.6 | - | * |
| Muir of Ord | 292 | 8.5 | 7.6 | 9.5 | * | * |
| Ross and Cromarty Central | 289 | 7.8 | 7.0 | 8.7 | * | * |
| Conon | 281 | 7.5 | 6.7 | 8.3 | * | * |
| Black Isle South | 417 | 6.1 | 5.6 | 6.7 | * | * |
| Black Isle North | 157 | 4.3 | 3.7 | 5.1 | * | * |

Source: Scottish Index of Multiple Deprivation 2020

Figure 16: Percentage of the population who are income deprived by intermediate geographies¹



Source: Scottish Index of Multiple Deprivation 2020

1 Error bars (vertical lines at column series ends) show a 95% confidence interval range

Working Age Population Employment Deprived

Table 13: Number and percentage of the working-age population who are employment deprived

| | | | | | Signific | cance |
|------------------------------|---|---|-------|----------------|----------|---------|
| | Working-age population employment deprived | Working-age population employment deprived (%) | Lower | Upper bound | Scotland | Council |
| Highland | 11,061 | 7.6 | 7.5 | 7.8 | * | |
| NHS Highland | 15,126 | 7.7 | 7.6 | 7.8 | * | |
| Scotland | 324,791 | 9.3 | 9.3 | 9.3 | | * |
| East Ross | 1,392 | 10.5 | 10.0 | 11.1 | * | * |
| Caithness | 1,484 | 9.6 | 9.1 | 10.1 | | * |
| Inverness | 4,200 | 8.1 | 7.8 | 8.3 | * | * |
| Sutherland | 561 | 7.6 | 7.0 | 8.3 | * | |
| Nairn and Nairnshire | 581 | 7.3 | 6.8 | 7.9 | * | |
| Mid Ross | 997 | 6.2 | 5.8 | 6.5 | * | * |
| Lochaber | 749 | 6.1 | 5.7 | 6.6 | * | * |
| Skye, Lochalsh and West Ross | 706 | 6.0 | 5.6 | 6.5 | * | * |
| Badenoch and Strathspey | 391 | 4.6 | 4.2 | 5.1 | * | * |

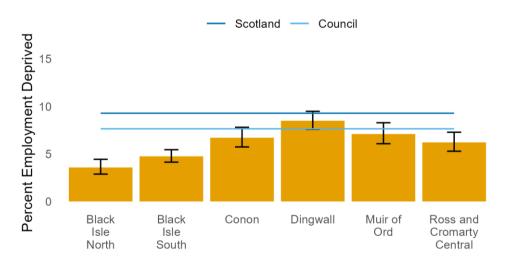
Source: Scottish Index of Multiple Deprivation 2020

Table 14: Number and percentage of the working-age population who are employment deprived by intermediate geographies in the area

| | | | | | Signific | cance |
|---------------------------------|---|---|----------------|----------------|----------|---------|
| | Working-age population employment deprived | Working-age population employment deprived (%) | Lower bound | Upper bound | Scotland | Council |
| Dingwall | 288 | 8.5 | 7.6 | 9.5 | | _ |
| Muir of Ord | 148 | 7.1 | 6.1 | 8.3 | * | |
| Conon | 151 | 6.7 | 5.7 | 7.8 | * | |
| Ross and Cromarty Central | 140 | 6.2 | 5.3 | 7.3 | * | * |
| Black Isle South | 192 | 4.8 | 4.1 | 5.4 | * | * |
| Black Isle North | 78 | 3.6 | 2.9 | 4.4 | * | * |

Source: Scottish Index of Multiple Deprivation 2020

Figure 17: Percentage of the working-age population who are employment deprived by intermediate geographies¹



¹ Error bars (vertical lines at column series ends) show a 95% confidence interval range

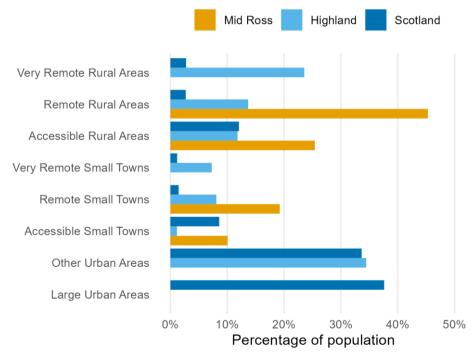
Overview of Community Partnership Area

Table 15: Population by the Scottish Government Urban Rural 8-fold classification (2020)

| | Mid Ross population | Mid Ross % | Highland % | Scotland % |
|-------------------------|------------------------|------------|------------|------------|
| Large Urban Areas | 0 | 0.0 | 0.0 | 37.6 |
| Other Urban Areas | 0 | 0.0 | 34.4 | 33.6 |
| Accessible Small Towns | 2,740 | 10.1 | 1.2 | 8.6 |
| Remote Small Towns | 5,239 | 19.2 | 8.1 | 1.4 |
| Very Remote Small Towns | 0 | 0.0 | 7.3 | 1.2 |
| Accessible Rural Areas | 6,919 | 25.4 | 11.8 | 12.1 |
| Remote Rural Areas | 12,335 | 45.3 | 13.7 | 2.7 |
| Very Remote Rural Areas | 0 | 0.0 | 23.6 | 2.8 |

Data source: Scottish Government Urban Rural Classification (2020) and National Records of Scotland Small Area Population Estimates (2021)

Figure 18: Population by the Scottish Government Urban Rural 8-fold classification (2020)



Data source: Scottish Government Urban Rural Classification (2020) and National Records of Scotland Small Area Population Estimates (2021)

Table 16: Mid-2020 population estimates for settlements and localities

| | All ages | 0-15 | 16-64 | 65+ |
|---------------|----------|------|-------|-------|
| Avoch | 1,000 | 148 | 608 | 244 |
| Conon Bridge | 2,190 | 441 | 1,285 | 464 |
| Cromarty | 660 | 91 | 377 | 192 |
| Dingwall | 5,360 | 905 | 3,247 | 1,208 |
| Fortrose | 1,680 | 239 | 889 | 552 |
| Maryburgh | 1,090 | 174 | 689 | 227 |
| Muir of Ord | 2,840 | 532 | 1,710 | 598 |
| North Kessock | 1,290 | 195 | 731 | 364 |
| Rosemarkie | 640 | 114 | 338 | 188 |
| Strathpeffer | 1,040 | 175 | 618 | 247 |

Glossary

| Term | Description |
|-------------------------------------|--|
| Age-sex standardised mortality rate | An age-sex standardised mortality rate is a summary measure of the mortality rate that a population would have if it had a standard age structure. Standardised rates are used to allow comparisons across geographical areas by controlling for differences in the age and sex structure of local populations. It is also used when comparing rates for one geography over time. All rates shown are standardised to the European standard population 2013. Unless otherwise stated, refers to deaths from all causes and all ages. |
| Birth rate | The birth rate is a standard measure of fertility. It is the number of live births per 1,000 women of child-bearing age (15-44 years). |
| Confidence Interval (CI) | A confidence interval (CI) is a range of values that describes the uncertainty around a point estimate of a quantity, for example a mortality rate, arising from either random or 'natural' variation. Confidence intervals quantify the uncertainty in point estimates: the wider the confidence interval the greater the uncertainty. The width of the confidence interval depends upon the size of the population from which an estimate is derived, the degree of variability in the indicator being measured, and the required level of confidence. In public health the conventional practice is to use 95% confidence intervals. |
| Deprivation deciles or quintiles | The SIMD deprivation analyses in this report rank data zones from 1 (most deprived) to 6,976 (least deprived). These are then split into five deprivation quintiles with 20% of the data zones in each quintile. Deprivation deciles have 10% of the data zones in each decile. |
| Data zone | The data zone is the standard national small area geography used in the production of statistics. There are 6,976 data zones in the 2011 release (125 in Argyll and Bute and 312 in Highland local authorities). Nationally data zones are used as the 'building bricks' for higher level geography such as intermediate zones and are the smallest spatial area that population estimates are published for in the inter-census period. Data zones are used routinely to provide 'best fit' populations for local geographies such as Community Partnerships. Details of the mapping are available in the Scottish Health and Social Care Open Data platform ⁷ . |
| European Standard population (ESP) | The European Standard Population (ESP) is an artificial population structure which is used in the weighting of mortality or incidence data to produce age standardised rates. The current version is the ESP2013, which is based on an average of states' population projections for 2011 - 2030. |
| Intermediate zone | Intermediate zones (sometimes referred to as intermediate geographies or neighbourhoods) are constructed from aggregations of data zones and provide a small area geography |

| | that is more suitable for the release of potentially sensitive data and for reporting routine measures of population health. The intermediate zone is the standard spatial unit of analysis used in the Scottish Public Health Observatory online profiles tool ⁸ . |
|--|--|
| Island populations | The size of inhabited island populations, estimated using Community Health Index (CHI) general practice registered populations at April 2012 and April 2022. A spatial join was created in ArcGIS Pro between unit postcodes of registered patients and the National Records of Scotland Islands boundary file for 2022. The method provides a best estimate for inhabited island populations in the intra Census period. A limitation is that smaller islands, with very few households, may have the same postcodes as mainland households with the population being ascribed to the mainland. Larger islands, with larger practice populations, will have postcodes that cover only the island. |
| Lower and Upper bounds | The lower and upper bounds are the lower and upper limits of a 95% confidence interval. They represent the range of values between which the true value of a point estimate is expected to fall within. |
| Population estimates | The size of the population estimated on an annual basis, using 30 th June (mid-year) as a reference point. Scotland's Census is used as a base for the population estimates, with annual adjustments made for the number of births, deaths and estimates of migration. National Records of Scotland (NRS) are responsible for producing official population figures for Scotland ⁹ . |
| Population projections | Population projections provide an indication of the potential future size and age structure of the population, based on past trends and assumptions of future levels of fertility, mortality and migration. The projections in this report were produced by the Improvement Service (IS) based on trends observed to 2018 ² . They do not account for recent or future changes occurring as a result of the COVID-19 pandemic or Brexit. All projections have limitations and should be interpreted with caution ¹⁰ . |
| Scottish Government Urban Rural classification | The Scottish Government Urban Rural (SGUR) classification provides a consistent way of defining urban and rural areas across Scotland ¹¹ . The classification is based upon two main criteria: (i) population, as defined by the National Records of Scotland (NRS), and (ii) accessibility, based on drive time analysis to an urban area. The classification is available in multiple forms, including a 6-fold classification which distinguishes between urban, rural, and remote areas through six categories, and an 8-fold classification which further distinguishes between remote and very remote regions. The latest version is the SGUR 2020. |
| Scottish Index of Multiple Deprivation (SIMD) | The Scottish Index of Multiple Deprivation (SIMD) identifies small area concentrations of deprivation ³ . The latest version is the SIMD 2020 and is based on small areas called data zones. The SIMD is a measure of relative deprivation and takes account of indicators across seven domains: income, employment, education, health, access to services, crime and housing. The seven domains are combined into a single index score and ranked. |

| Settlements and Localities | Settlements and localities are defined by the National Records of Scotland (NRS). The NRS maintain data on unit postcodes, including a boundary enclosing all of the addresses assigned to the postcode. These postcode areas are used as 'building bricks' in the definition. |
|---|---|
| Statistical significance of differences | Confidence intervals are used to interpret whether a measure is statistically higher or lower than another. If the confidence intervals of one particular area have no overlap with a comparison area confidence interval then it is statistically significantly higher/lower than the comparison. If there is overlap then there is no statistically significant difference between them. Statistical significance of differences are indicated by a * in the tables in this report. |

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