

Metadata – SEPDATA.csv, SEPDATA_RST.csv

SEPDATA.csv contains data zone information and data for 20 raw indicators for all data zones in Scotland (n = 6,505). These variables are shown in the table below.

SEPDATA_RST.csv contains the subset of data zones within rural areas or small towns, based on the Scottish Government’s Urban Rural Classification (n = 2,014). This data was used to calculate indicator deciles, Strategic Objective scores, and the overall SEP Index. Therefore, **SEPDATA_RST.csv** contains a number of additional variables associated with these calculations, described in the “Strategic Objective scores and SEP Index calculation” section of this document.

Variable name	Description	Source	Credits
Data_zone	Data zone code		
Local_authority	Local authority area	Scottish Government - SIMD 2012 Local Authority level quintiles and deciles http://www.gov.scot/Resource/0041/00410902.xls	© Crown copyright. Contains public sector information licensed under the Open Government Licence v3.0. http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/
Urban_Rural_Classification_6_Fold, Urban_Rural_Classification_8_Fold	2011-2012 Urban Rural Classification	Scottish Government - 2011-2012 Urban Rural Classification Lookup files http://www.gov.scot/Resource/0039/00399024.zip	© Crown copyright. Contains public sector information licensed under the Open Government Licence v3.0. http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/
Population_11	Usual resident population (2011)	Scotland’s Census: Data Warehouse: Bulk data files	2011 Census © Crown copyright. Data supplied by

		<p>http://www.scotlandscensus.gov.uk/ods-web/data-warehouse.html#bulkdatatab SNS Data Zone 2001, table KS101SC (The value for five data zones was infilled as 0. They had no population in 2011 – see note on page 25 of Brown, D.; Allik, M.; Dundas, R.; Leyland, R. (2014) Carstairs Scores for Scottish Postcode Sectors, Datazones & Output Areas from the 2011 Census. MRC/CSO Social and Public Health Sciences Unit, University of Glasgow. Available at http://www.sphsu.mrc.ac.uk/carstairs_2011_report.pdf (Accessed 3rd April 2017).</p>	<p>National Records of Scotland.</p>
<p>Median_household_income_0809_pounds_per_week</p>	<p>Median net household income after housing costs (£/week, 2008-9)</p>	<p>http://statistics.gov.scot/slice/observations.csv?&dataset=http%3A%2F%2Fstatistics.gov.scot%2Fdata%2Fincome-and-poverty-modelled-estimates&http%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23measureType=http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fmeasure-properties%2Fmedian&http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fdimension%2Findicator%28incomeAndPovertyModelledEstimates%29=http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fconcept%2Findicator-income-and-poverty-modelled-estimates%2Festimated-median-net-equivalent-household-income-after-housing-costs-ahc-per-week Income And Poverty Modelled Estimates Estimated Median Net Equivalent Household Income After Housing Costs (Ahc) Per Week Median (Pounds (GBP)) 2008-2009 (10 missing values filled in with Intermediate Zone-level values from: http://statistics.gov.scot/slice/observations.csv?&dataset=http%3A%2F%2Fstatistics.gov.scot%2Fdata%2Fincome-and-poverty-modelled-</p>	<p>Contains public sector information licensed under the Open Government Licence v2.0. http://www.nationalarchives.gov.uk/doc/open-government-licence/version/2/</p>

		<p>estimates&http%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23measureType=http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fmeasure-properties%2Fmedian&http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fdimension%2Findicator%28incomeAndPovertyModelledEstimates%29=http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fconcept%2Findicator-income-and-poverty-modelled-estimates%2Festimated-median-net-equivalent-household-income-after-housing-costs-ahc-per-week, matched to data zones using lookup table: SNS Lookup - Data Zone - SNSDZ10BP2011-01 http://www.gov.scot/Resource/Doc/933/0112765.txt (© Crown copyright))</p>	
Pct_families_on_low_income_and_deprived_0809	Families on low income and materially deprived (% , 2008-9)	<p>http://statistics.gov.scot/slice/observations.csv?&dataset=http%3A%2F%2Fstatistics.gov.scot%2Fdata%2Fincome-and-poverty-modelled-estimates&http%3A%2F%2Fpurl.org%2Flinked-data%2Fcube%23measureType=http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fmeasure-properties%2Fratio&http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fdimension%2Findicator%28incomeAndPovertyModelledEstimates%29=http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fconcept%2Findicator-income-and-poverty-modelled-estimates%2Festimated-percentage-of-families-on-low-income-less-than-70-median-and-materially-deprived Income And Poverty Modelled Estimates Estimated Percentage Of Families On Low Income (Less Than 70% Median) And Materially Deprived Ratio (Percent Of Families) 2008-2009 (9 missing values filled in with Local Authority-level values from: http://statistics.gov.scot/slice/observations.csv?&dataset=http%3A%2F%2Fstatistics.gov.scot%2Fdata%2Fincome-and-poverty-modelled-estimates&http%3A%2F%2Fpurl.org%2Flinked-</p>	<p>Contains public sector information licensed under the Open Government Licence v2.0. http://www.nationalarchives.gov.uk/doc/open-government-licence/version/2/</p>

		data%2Fcube%23measureType=http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fmeasure-properties%2Fratio&http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fdimension%2Findicator%28incomeAndPovertyModelledEstimates%29=http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fconcept%2Findicator-income-and-poverty-modelled-estimates%2Festimated-percentage-of-families-on-low-income-less-than-70-median-and-materially-deprived , matched to data zones using lookup information detailed in "Local_authority" above)	
Pct_population_receiving_or_dependent_on_benefits_12	Population in receipt of or dependent on benefits (% , 2012) or SIMD Income domain rate <i>(the percentage of the data zone population who are in receipt of these benefits or dependant on someone in receipt of these benefits and credits. The rates have been rounded to the nearest whole percentage for publication)</i>	SIMD 2012 Background Data - Part 3 Income Domain Download link: http://www.gov.scot/Resource/0041/00410768.xls	© Crown copyright. Contains public sector information licensed under the Open Government Licence v3.0. http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/ Data sources for indicator: Department for Work and Pensions (2011) and HM Revenue & Customs (2010) (see Technical notes at http://www.gov.scot/Resource/0050/00504773.pdf)
Pct_people_aged_16_to_74_unemployed_11	Unemployed people (% of all people aged 16 to 74, 2011)	Calculated from data in: Scotland's Census: Data Warehouse: Bulk data files http://www.scotlandscensus.gov.uk/ods-web/data-warehouse.html#bulkdatatab SNS Data Zone 2001, table KS601SC. (5 missing values filled in with derived	2011 Census © Crown copyright. Data supplied by National Records of Scotland.

		Intermediate Zone-level values (data source as above), matched to data zones using lookup table: SNS Lookup - Data Zone - SNSDZ10BP2011-01 http://www.gov.scot/Resource/Doc/933/0112765.txt (© Crown copyright))	
Mean_drive_to_services_12_mins	Mean drive time to key services (minutes, 2012).	Calculated from drive times to GP, Petrol Station, Post Office, Primary School, Secondary School, retail centre. Data in: SIMD 2012 Background Data - Part 8 Access Domain Download link: http://www.gov.scot/Resource/0041/00410773.xls	© Crown copyright. Contains public sector information licensed under the Open Government Licence v3.0. http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/ For further information about data sources for this indicator, see information in the Technical notes at http://www.gov.scot/Resource/0050/00504773.pdf
Mean_travel_by_pub_tr_to_services_12_mins	Mean travel time by public transport to key services (minutes, 2012).	Calculated from travel times by public transport to GP, Post Office, retail centre. SIMD 2012 Background Data - Part 8 Access Domain Download link: http://www.gov.scot/Resource/0041/00410773.xls	© Crown copyright. Contains public sector information licensed under the Open Government Licence v3.0. http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/

			For further information about data sources for this indicator, see information in the Technical notes at http://www.gov.scot/Resource/0050/00504773.pdf
Pct_people_with_longterm_health_conditions_11	People with long-term health conditions (% of all people, 2011)	Calculated from data in: Scotland's Census: Data Warehouse: Bulk data files http://www.scotlandscensus.gov.uk/ods-web/data-warehouse.html#bulkdatatab SNS Data Zone 2001, table QS304SC (5 missing values filled in with derived Intermediate Zone-level values (data source as above), matched to data zones using lookup table: SNS Lookup - Data Zone - SNSDZ10BP2011-01 http://www.gov.scot/Resource/Doc/933/0112765.txt (© Crown copyright))	2011 Census © Crown copyright. Data supplied by National Records of Scotland.
Pct_people_with_good_or_very_good_general_health_11	People with "Very good" or "Good" general health (self-assessed, % of all people, 2011)	Calculated from data in: Scotland's Census: Data Warehouse: Bulk data files http://www.scotlandscensus.gov.uk/ods-web/data-warehouse.html#bulkdatatab SNS Data Zone 2001, table QS302SC (5 missing values filled in with derived Intermediate Zone-level values (data source as above), matched to data zones using lookup table: SNS Lookup - Data Zone -	2011 Census © Crown copyright. Data supplied by National Records of Scotland.

		SNSDZ10BP2011-01 http://www.gov.scot/Resource/Doc/933/0112765.txt (© Crown copyright))	
Pct_people_with_limiting_health_problem_or_disability_11	People whose day-to-day activities are limited “a little” or “a lot” by long-term health problems or disabilities (% of all people, 2011)	Calculated from data in: Scotland’s Census: Data Warehouse: Bulk data files http://www.scotlandscensus.gov.uk/ods-web/data-warehouse.html#bulkdatatab SNS Data Zone 2001, table QS303SC (5 missing values filled in with derived Intermediate Zone-level values (data source as above), matched to data zones using lookup table: SNS Lookup - Data Zone - SNSDZ10BP2011-01 http://www.gov.scot/Resource/Doc/933/0112765.txt (© Crown copyright))	2011 Census © Crown copyright. Data supplied by National Records of Scotland.
Comparative_Illness_Factor_11_standardised_ratio	Comparative illness factor: standardised ratio (2011) <i>(The Comparative Illness Factor is based on benefits data, counting people claiming Disability Living Allowance (DLA); Employment and Support Allowance (ESA) (not also receiving DLA); Attendance Allowance (AA); Incapacity Benefit (IB) (not also receiving DLA); and Severe Disablement Allowance (SDA). The counts were indirectly age sex standardised and are expressed relative to Scotland which has a value of 100.)</i>	SIMD 2012 Background Data - Part 5 Health Domain Download link: http://www.gov.scot/Resource/0041/00410770.xls (1 missing value filled in with mean Intermediate Zone-level value (data source as above), matched to data zone using lookup table: SNS Lookup - Data Zone - SNSDZ10BP2011-01 http://www.gov.scot/Resource/Doc/933/0112765.txt (© Crown copyright))	© Crown copyright. Contains public sector information licensed under the Open Government Licence v3.0. http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/ Data sources: Department for Work and Pensions (DWP), Work and Pensions Longitudinal Study (WPLS),

			National Records of Scotland Small Area Population Estimates 2010. (see Technical notes at http://www.gov.scot/Resource/0050/00504773.pdf)
Pct_change_in_population_0111	Population change (% change, 2001-2011).	Calculated from data in: Population 11, source as noted above. 2001 data: Scotland's Census: Data Warehouse: Standard data files for 2001 Census data http://www.scotlandscensus.gov.uk/ods-web/data-warehouse.html#standarddatatab 2001 Datazones, table CAS001 (The value for five data zones was infilled as -100)	Population 11 credit as noted above. 2001 data: 2001 Census © Crown copyright. Data supplied by National Records of Scotland.
Old_age_dependency_ratio_11	Old age dependency ratio (65+ population as % of 16-64 population, 2011)	Calculated from data in: Scotland's Census: Data Warehouse: Bulk data files http://www.scotlandscensus.gov.uk/ods-web/data-warehouse.html#bulkdatatab SNS Data Zone 2001, table KS102SC (5 missing values filled in with derived Intermediate Zone-level values (data source as above), matched to data zones using lookup table: SNS Lookup - Data Zone - SNSDZ10BP2011-01 http://www.gov.scot/Resource/Doc/933/0112765.txt (© Crown copyright))	2011 Census © Crown copyright. Data supplied by National Records of Scotland.
Pct_change_in_econ_active_popula	Change in the economically active	Calculated from data in:	2001 and 2011 Censuses ©

<p>tion_0111</p>	<p>population (% change, 2001-2011)</p>	<p>2001 data: Scotland's Census: Data Warehouse: Standard data files for 2001 Census data http://www.scotlandscensus.gov.uk/ods-web/data-warehouse.html#standarddatatab 2001 Datazones, table KS09a 2011 data: Scotland's Census: Data Warehouse: Bulk data files http://www.scotlandscensus.gov.uk/ods-web/data-warehouse.html#bulkdatatab SNS Data Zone 2001, table KS601SC (The value for five data zones was infilled as -100)</p>	<p>Crown copyright. Data supplied by National Records of Scotland.</p>
<p>Pct_change_in_number_of_business_sites_0813</p>	<p>Change in number of business sites (% change, 2008-13).</p>	<p>Calculated from: a) Business Site Counts (all industries and all employee numbers) Count (Business Sites) 2008 http://statistics.gov.scot/slice/observations.csv?&dataset=http%3A%2F%2Fstatistics.gov.scot%2Fdata%2Fbusiness-site-counts&http%3A%2F%2Fpurl.org%2Flinked-data%2Fsdmx%2F2009%2Fdimension%23refPeriod=http%3A%2F%2Freference.data.gov.uk%2Fid%2Fyear%2F2008&http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fdimension%2FindustrySector=http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fconcept%2Findustry-sector%2Fall&http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fdimension%2Fnumberofemployees=http%3A%2F%2Fstatistics.gov.scot%2Fdef%2Fconcept%2Fnumber-of-employees%2Fall b) Business Site Counts (all industries and all employee numbers) Count (Business Sites) 2013 http://statistics.gov.scot/slice/observations.csv?&dataset=</p>	<p>Contains public sector information licensed under the Open Government Licence v2.0. http://www.nationalarchives.gov.uk/doc/open-government-licence/version/2/</p>

		<p>http://www.statistics.gov.scot/data/business-site-counts&http://www.purl.org/linked-data/sdmx/2009/dimension%23refPeriod=http://www.reference.data.gov.uk/id/year/2013&http://www.statistics.gov.scot/def/dimension%2FindustrySector=http://www.statistics.gov.scot/def/concept/industry-sector/fall&http://www.statistics.gov.scot/def/dimension/number-of-employees=http://www.statistics.gov.scot/def/concept/number-of-employees/fall</p> <p>Intermediate geography resolution data, matched to data zones using lookup table: SNS Lookup - Data Zone - SNSDZ10BP2011-01 http://www.gov.scot/Resource/Doc/933/0112765.txt (© Crown copyright)</p>	
SIMD_crimes_per_10000_people_1011	SIMD Crimes per 10,000 total population (2010-11)	<p>SIMD 2012 Background Data - Part 9 Crime Domain Download link: http://www.gov.scot/Resource/0041/00410775.xls (558 missing values were infilled based on SIMD crime ranks provided within the dataset, using midpoints of existing crime rate values).</p>	<p>© Crown copyright. Contains public sector information licensed under the Open Government Licence v3.0. http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/</p> <p>Data sources: Scottish Police Forces, National Records of Scotland 2010 mid year population estimates (see Technical notes at http://www.gov.scot/Resource/0050/00504773.pdf).</p>

<p>Emergency_hospital_stays_0710_standardised_ratio</p>	<p>Emergency stays in hospital: standardised ratio (2007-10) <i>(Indirectly age-sex standardised ratio of observed to expected emergency stays in acute NHS hospitals in Scotland, both sexes and all ages. Scotland = 100).</i></p>	<p>SIMD 2012 Background Data - Part 5 Health Domain Download link: http://www.gov.scot/Resource/0041/00410770.xls (1 missing value filled in with mean of data zone values within the relevant Intermediate Zone, matched to data zones using lookup table: SNS Lookup - Data Zone - SNSDZ10BP2011-01 http://www.gov.scot/Resource/Doc/933/0112765.txt (© Crown copyright))</p>	<p>© Crown copyright. Contains public sector information licensed under the Open Government Licence v3.0. http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/ Data sources: NHS Scotland Information Services Division (ISD), Scottish Morbidity Record (SMR)01, National Records of Scotland mid-year resident population estimates (see Technical notes at http://www.gov.scot/Resource/0050/00504773.pdf).</p>
<p>People_aged_16_to_19_with_no_qualifications_11_pct_of_exp</p>	<p>People aged 16 or over with no qualifications (% of expected count, 2011)</p>	<p>Calculated from data in: Scotland's Census: Data Warehouse: Bulk data files http://www.scotlandscensus.gov.uk/ods-web/data-warehouse.html#bulkdatatab SNS Data Zone 2001, table KS501SC (5 missing values filled in with derived Intermediate Zone-level values (data source as above), matched to data zones using lookup table: SNS Lookup - Data Zone - SNSDZ10BP2011-01 http://www.gov.scot/Resource/Doc/933/0112765.txt)</p>	<p>2011 Census © Crown copyright. Data supplied by National Records of Scotland.</p>

		112765.txt (© Crown copyright))	
Pct_people_aged_16_to_19_NEET_0910_to_1011	People aged 16-19 not in full time education, employment or training rate (2009-10 – 2010-11) <i>(Counts have been adjusted using probabilistic rounding to base 5. Any counts that are shown as zero may not be a real zero.)</i>	SIMD 2012 Background Data - Part 6 Education Domain Download link: http://www.gov.scot/Resource/0041/00413502.xls	© Crown copyright. Contains public sector information licensed under the Open Government Licence v3.0. http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/ Data sources: Department for Work and Pensions, Careers Scotland, ScotXed (see Technical notes at http://www.gov.scot/Resource/0050/00504773.pdf).
Pct_population_aged_16_and_over_with_level_4_qual_11	Population aged 16 and over with level 4 qualifications or higher (% , 2011)	Calculated from data in: Scotland's Census: Data Warehouse: Bulk data files http://www.scotlandscensus.gov.uk/ods-web/data-warehouse.html#bulkdatatab SNS Data Zone 2001, table KS501SC (5 missing values filled in with derived Intermediate Zone-level values (data source as above), matched to data zones using lookup table: SNS Lookup - Data Zone - SNSDZ10BP2011-01 http://www.gov.scot/Resource/Doc/933/0112765.txt (© Crown copyright))	2011 Census © Crown copyright. Data supplied by National Records of Scotland.

Pct_employed_people_aged_16_to_74_in_prof_jobs_11	Population aged 16-74 in employment in professional occupations (% , 2011). <i>(Professional occupations are defined as occupation groups 1-3 within the Standard occupational classification 2010)</i>	Calculated from data in: Scotland's Census: Data Warehouse: Bulk data files http://www.scotlandscensus.gov.uk/ods-web/data-warehouse.html#bulkdatatab SNS Data Zone 2001, table KS608SC (5 missing values filled in with derived Intermediate Zone-level values (data source as above), matched to data zones using lookup table: SNS Lookup - Data Zone - SNSDZ10BP2011-01 http://www.gov.scot/Resource/Doc/933/0112765.txt (© Crown copyright))	2011 Census © Crown copyright. Data supplied by National Records of Scotland.
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Strategic Objective scores and SEP Index calculation

To calculate the SEP Index, the information and raw data for the 2,014 data zones in rural areas and small towns was extracted. The variables described in this section were calculated on the data in this subset only, and they only exist in the **SEpdata_RST.csv** file. Firstly, 20 of the above indicators (all except Data_zone, Local_authority, Urban_Rural_Classification_6_Fold, Urban_Rural_Classification_8_Fold and Population_11) were converted to deciles: a score between 1 and 10. Higher scores show better/stronger performance. These decile scores are shown by the variables with a name starting “**DECILE_**”.

Note that the variable “DECILE_Pct_change_in_number_of_business_sites_0813” does not contain scores of 4 or 5, but does contain a score of 4.5 – this is because two decile ‘break points’ were identical.

Four Strategic Objective scores were then calculated as simple decile means:

SCORE_Wealthier_and_Fairer: the mean of DECILE_Median_household_income_0809_pounds_per_week, DECILE_Pct_families_on_low_income_and_deprived_0809, DECILE_Pct_population_receiving_or_depend_on_benefits_12, DECILE_Pct_people_aged_16_to_74_unemployed_11, DECILE_Mean_drive_to_services_12_mins, DECILE_Mean_travel_by_pub_tr_to_services_12_mins

SCORE_Healthier: the mean of DECILE_Pct_people_with_longterm_health_conditions_11, DECILE_Pct_people_with_good_or_very_good_general_health_11, DECILE_Pct_people_with_limiting_health_problem_or_disability_11, DECILE_Comparative_Illness_Factor_11_standardised_ratio

SCORE_Safer_and_Stronger: the mean of DECILE_Pct_change_in_population_0111, DECILE_Pct_change_in_econ_active_population_0111, DECILE_Old_age_dependency_ratio_11, DECILE_Pct_change_in_number_of_business_sites_0813, DECILE_SIMD_crimes_per_10000_people_1011, DECILE_Emergency_hospital_stays_0710_standardised_ratio

SCORE_Smarter: DECILE_People_aged_16_to_19_with_no_qualifications_11_pct_of_exp, DECILE_Pct_people_aged_16_to_19_NEET_0910_to_1011, DECILE_Pct_population_aged_16_and_over_with_level_4_qualifications_11, DECILE_Pct_employed_people_aged_16_to_74_in_prof_jobs_11

The SEP Index (**SEPINDEX**) was then calculated as a mean of the four Strategic Objective scores.

Software used:

ESRI (2013) ArcGIS 10.2.1 for Desktop. ESRI, Redlands.

R Core Team (2016) R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. <https://www.R-project.org/>

R Core Team (2015). foreign: Read Data Stored by Minitab, S, SAS, SPSS, Stata, Systat, Weka, dBase, <https://CRAN.R-project.org/package=foreign>