

# SCOTTISH BORDERS COVID-19 RECOVERY MATRIX AND INDEX

Overview Prepared September 2020

By E.R. Murray – Research and Policy Officer

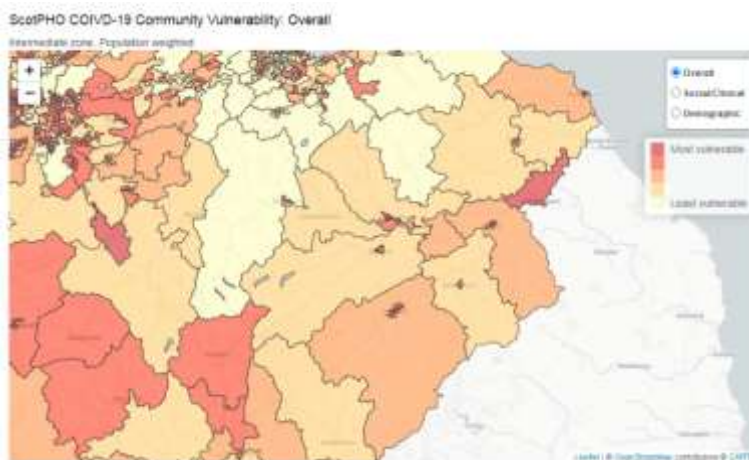
## INTRODUCTION

The Scottish Borders Covid-19 Recovery Matrix and Index were developed to provide a way to identify areas within the Scottish Borders that may need support to recover from the wider impact of Covid-19. Although there are several publicly available resources to provide a context to Covid-19 recovery it was felt that a Scottish Borders specific tool would be useful; these tools have influenced the development of Scottish Borders Covid-19 Recovery Matrix and Index. This matrix and index sets a context and may inform decisions that will help the Scottish Borders recover from Covid-19.

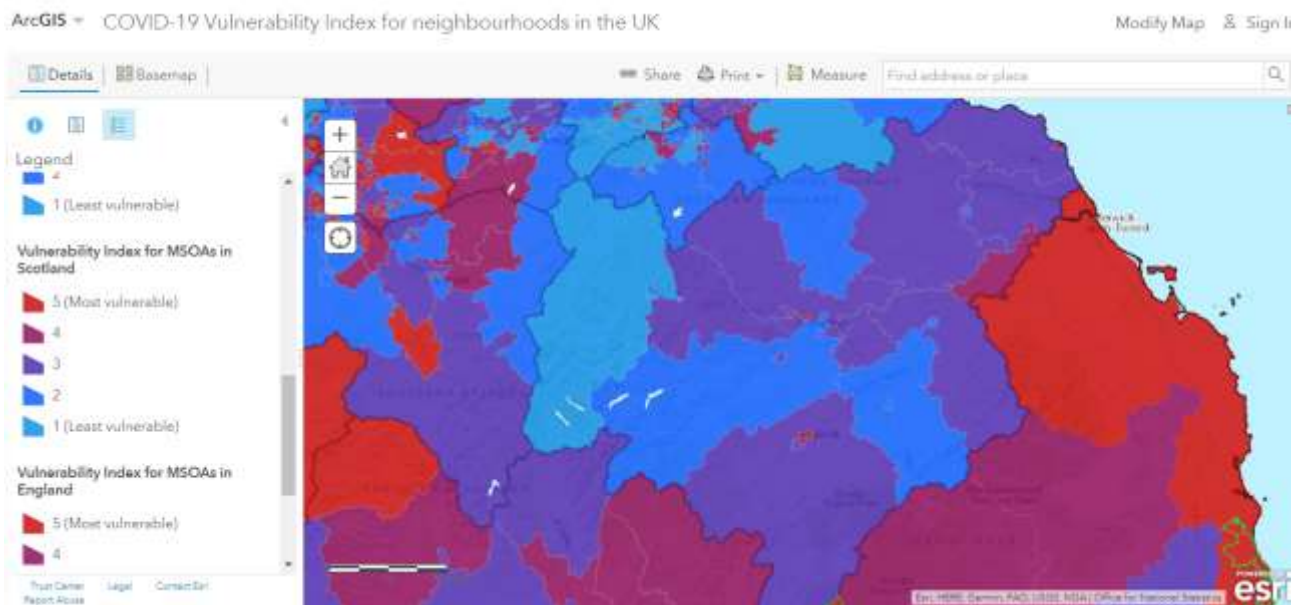
## PUBLICLY AVAILABLE COVID-19 RESOURCES

There are several tools / resources available to help with understanding the impact of Covid-19, in addition to the Scottish Borders Covid-19 Recovery Matrix and Index. Key publicly available resources include:

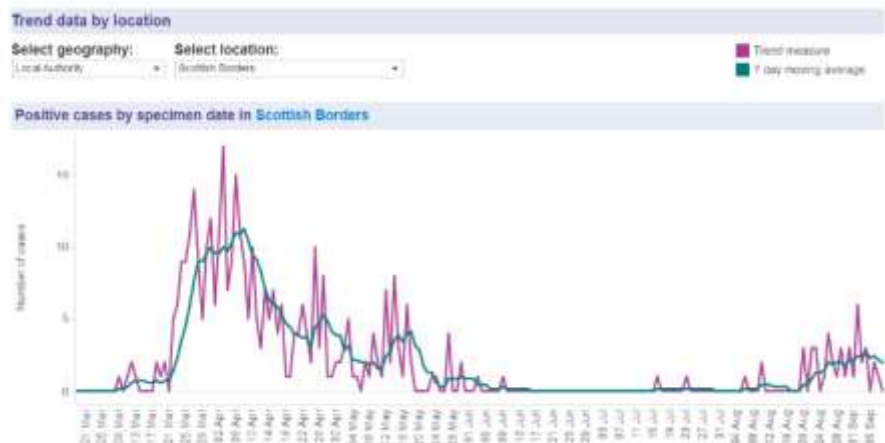
- [ScotPHO COVID-19 Community Vulnerability](#)- ScotPHO have produced maps to illustrate a COVID-19 community vulnerability measure based on available demographic, social and clinical indicators relevant either directly to COVID-19 or to socio-economic factors that are likely to modify the impacts of the pandemic and efforts to delay it. This is in addition to clinical and public health responses to the Coronavirus (COVID-19) pandemic, action will be required to mitigate a range of associated social harms. The maps do not include any real-time information about COVID-19 infections, hospitalisations or deaths. The shading shows vulnerability of a geographical area to health and care systems and socio-economic impacts. The map shows the overall vulnerability of Intermediate Zones focusing on the Scottish Borders.



- [British Red Cross COVID-19 vulnerability index](#) – The British Red Cross developed a COVID-19 vulnerability index at Intermediate Zone. This index covers demographic, clinical, economic and social vulnerabilities as well as health needs and geographic location<sup>1</sup>. The map below shows the identified vulnerability for Intermediate Zones in the Scottish Borders.



- [Public Health Scotland: COVID-19 in Scotland](#) – The dashboard gives information about the location of cases in Scotland over time. It is updated each day with the latest statistics on cases of coronavirus (Covid-19) reported to Public Health Scotland by NHS Scotland and UK government Regional Testing Centre laboratories, and the number of deaths of individuals who were laboratory confirmed with coronavirus (Covid-19) as reported to National Records of Scotland (NRS). The trend shows the number of positive cases by specimen date for the Scottish Borders with 7 day moving average.



<sup>1</sup>Details of indicators used in British Red Cross COVID-19 Vulnerability Index - [https://docs.google.com/document/d/1aWpzgvLKGFE5Ay\\_xVps17nnbT1zIEki7RGIJXL5APo/edit#](https://docs.google.com/document/d/1aWpzgvLKGFE5Ay_xVps17nnbT1zIEki7RGIJXL5APo/edit#)

- [Scottish Government: COVID-19 in Scotland](#) – This site presents data and evidence on what the Scottish Government refers to as the Four Harms of COVID-19. These are the direct impact of COVID-19, other health impacts, societal impact and economic impacts. Below is a copy of the visual summary for 09 September 2020.

## Visual summary

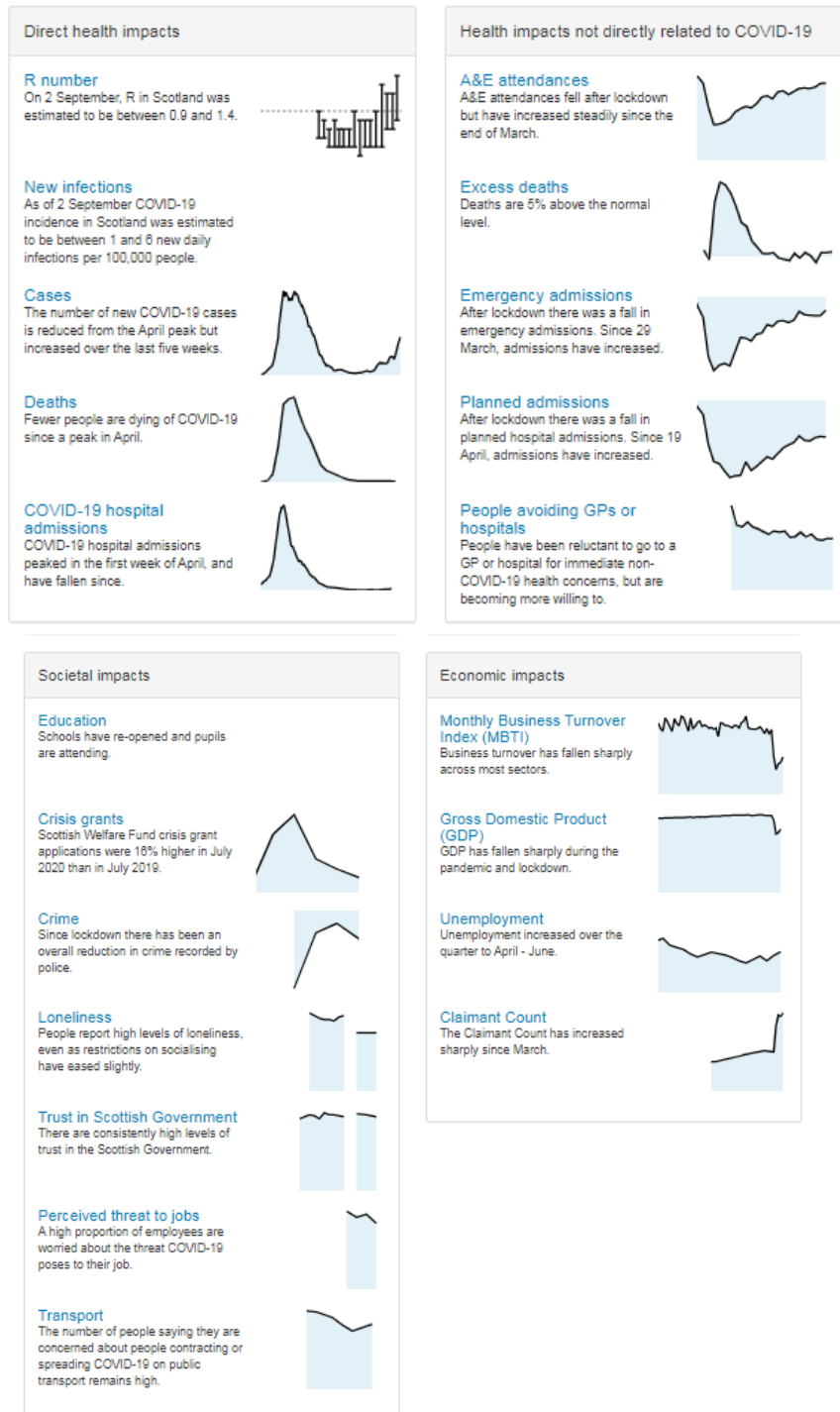


Last updated: 09 September 2020

Here is an overview of current evidence for direct and indirect health impacts, and social and economic impacts, of COVID-19. These indicators have been chosen as representing key aspects of each harm.

If you hover over each graph, you can see figures for specific days or weeks.

If you are interested in learning more about this evidence, go to 'detailed analysis'.



## SCOTTISH BORDERS COVID-19 RECOVERY INDEX (SB CRI)

### COVID-19 RECOVERY MATRIX AND INDEX DEVELOPMENT

The SB CRI are experimental statistics to help identify areas in the Scottish Borders that may need more support to recover from Covid-19 and what those vulnerabilities may be. The areas used are the 30 Intermediate Zones within the Scottish Borders grouped by locality. The components of the SB CRI and accompanying matrix cover ScotPHO Covid-19 Vulnerability Index, Economic and Geographic Setting and population, details are in the table below. Those indicators with (\*) are components of the index.

Area	Indicator
ScotPHO COVID-19 Vulnerability Index	ScotPHO Covid19 Index Social/Clinical Quintile
	ScotPHO Covid19 Index Demographic Quintile
	ScotPHO Covid19 Index Overall Quintile
	ScotPHO Covid19 Index Overall Quintile into SB CRI Points (*)
Economic / Geographic Setting	Town / Rural (*)
	% Children in Low Income Families 2016
	Child Poverty Index 2019 - Level (*)
	Population Income Deprived 2018 (*)
	Working age Population Employment Deprived 2018 (*)
	Employees in Covid-19 Vulnerable Industry 2018 (*)
	Single Adult Dwellings 2018 (*)
2018 Mid-Year Population Estimates	2018 Mid-Year Population
	2018 Children (under 16 years)
	2018 Working Age (16 - 64)
	2018 Pensionable Age (65 and over)
	2018 Age 75+
% in Age Group	2018 Children (under 16 years)
	2018 Working Age (16 - 64)
	2018 Pensionable Age (65 and over)
	2018 Age 75+ (*)

### SB COVID-19 RECOVERY INDEX

The eight indicators with a (\*) are components of the SB CRI. Each area gets points based on the value of each component. The points range from 9 to 30, divided into 3 groups. 9 to 15 in Yellow (Needs Support), 16 to 22 in Orange (Needs More Support), and 23 to 30 in Red (Needs Most Support). The higher the points the more support the area may need to recover from Covid-19. All areas will need support to recover from Covid-19, although some had concerns prior to Covid-19 that may exacerbate to recovery.

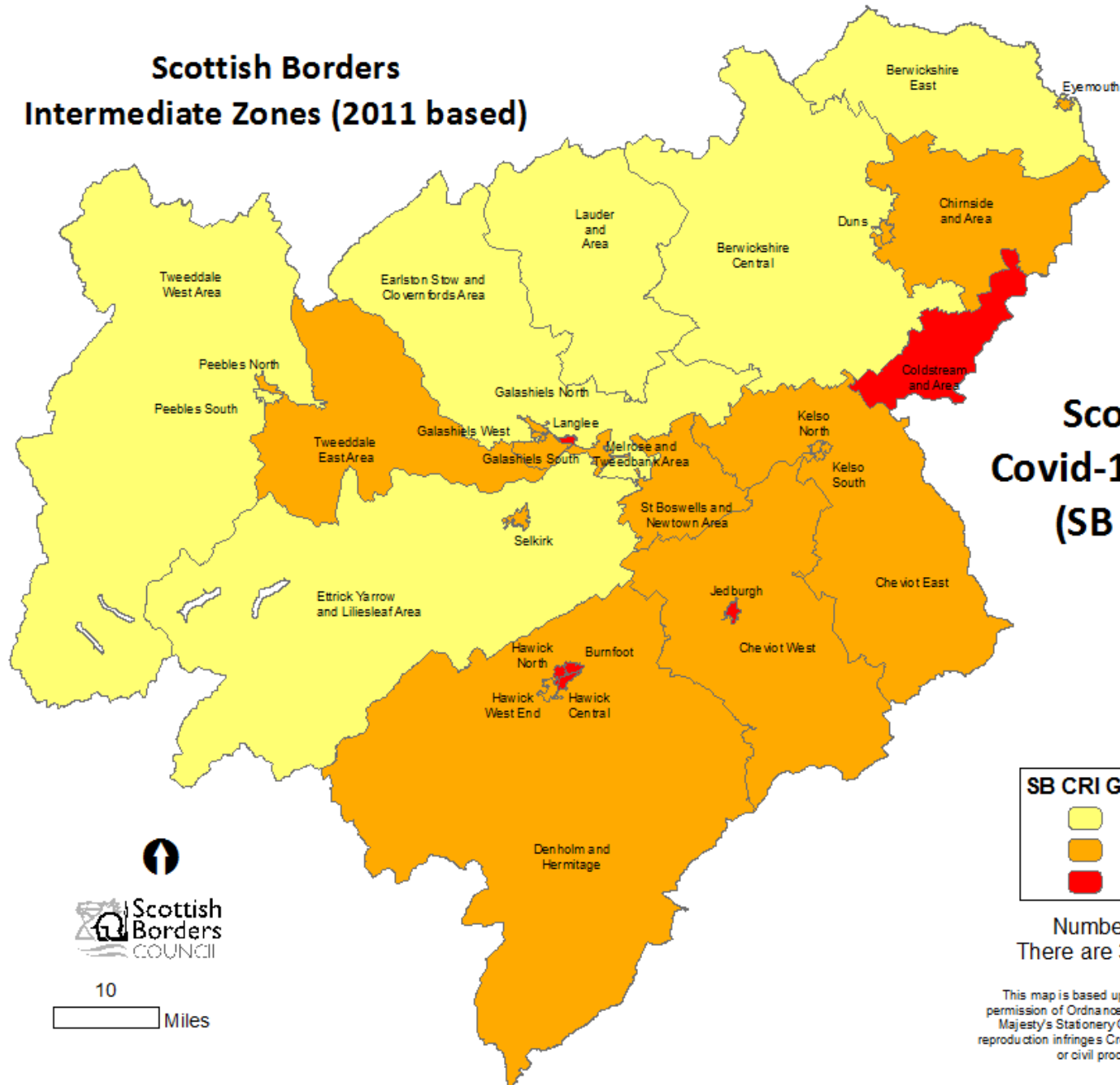
Within the Scottish Borders the area potentially needed the most support to recover from Covid-19 are: Burnfoot, Langlee, Coldstream and Area, Jedburgh, Hawick Central and Hawick North. These can be seen on the map on page 6 and the data table on page 7.

## SB COVID-19 RECOVERY INDEX COMPONENTS

There are eight components to the SB CPI, for each area 'points' are allocated based on the value for the component. Listed below are each of the components and the potential allocation of points.

<b>SB CPI Component</b>	<b>Component Description and Points</b>
<b>SB Covid-19 Recovery Index Points ScotPHO Covid19 Index Overall Quintile into Index Points (*)</b>	Using the 'reverse' of the ScotPHO Covid19 Vulnerability Index Overall Quintile. Points range from 1 to 5 where 1 is the least vulnerable and 5 is the most vulnerable.
<b>Town / Rural (*)</b>	The intermediate zones are grouped into town (1 point) or rural (2 points). The rural areas have 2 points reflecting the challenges there may be in delivering or getting access to services.
<b>Child Poverty Index 2019 - Level (*)</b>	The Scottish Borders Child Poverty Index is a points based index, the components are Children in Low Income Families, % Free School Meals, % Clothing Grant, and % Pupils aged 16 with EMA. Sources are SBC and HMRC. For Intermediate Zones the SBCPI levels range from 2-Low to 5-Higher levels of Child Poverty.
<b>Population Income Deprived 2018 (*)</b>	The proportion of population that is Income Deprived (2018) is a component of the SIMD. For the SB CRI points range from 1 to 3. Under 10% = 1 point, 10% to Under 20% = 2 points, and 20% or More = 3 points.
<b>Working age Population Employment Deprived 2018 (*)</b>	The proportion of working age population that is Employment Deprived (2018) is a component of SIMD. For the SB CRI points range from 1 to 4. Under 5% = 1 point, 5% to Under 10% = 2 points, 10% to Under 15% = 3 points, and 15% or More = 4 points.
<b>Employees in Covid-19 Vulnerable Industry 2018 (*)</b>	Covid-19 Vulnerably Industries, based on OCEA analysis, were identifies as manufacturing, construction, retail and wholesale, accommodation and food services, and arts, entertainment and recreation. These sectors are most at risk because of their reliance on face-to-face and on-site working. Source is NOMIS. For the SB CRI points range from 1 to 5. Under 40% = 1 point, 40% to Under 50% = 2 points, 50% to Under 60% = 3 points, 60% to Under 70% = 4 points, 70% or More = 5 points.
<b>Single Adult Dwellings 2018 (*)</b>	Areas with higher proportion of Single Adult Dwellings may have more vulnerable people. Source is NRS. For the SB CRI the points range from 1 to 3. Under 30% = 1 point, 30% to Under 40% = 2 points, and 40% or More = 3 points.
<b>2018 Age 75+ (*)</b>	Areas with higher proportion of people aged 75 or more may have more vulnerable people. Source is NRS. For the SB CRI the points range from 1 to 3. Under 10% = 1 point, 10% to Under 15% = 2 points, and 15% or More = 3 points.

## Scottish Borders Intermediate Zones (2011 based)



## Scottish Borders Covid-19 Recovery Index (SB CRI Grouping)

SB CRI Group	
	A. Needs Support
	B. Needs More Support
	C. Needs Most Support

Number in ( ) is count of IZs.  
There are 30 IZ in Scottish Borders.

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Scottish Borders COVID-19 Recovery Matrix ScotPHO COVID-19 Vulnerability Index

<https://scotland.shinyapps.io/scotpho-covid-vulnerability/>

Economic / Geographic Setting

2018 Mid Year Population Estimates

% in Age Group

Scottish Borders		4	1	3	3	12.6%	3 - Mid	9.5%	8.7%	45.8%	35.8%	115,270	19,046	68,121	28,103	12,240	16.5%	59.1%	24.4%	10.6%		
Locality (Best Fit for IZ)	IZcode	IZ Area Name	ScotPHO Covid19 Index Social/Clinical Quintile	ScotPHO Covid19 Index Demographic Quintile	ScotPHO Covid19 Index Overall Quintile	ScotPHO Covid19 Index Overall Quintile into SB CRI Points (*)	Town / Rural (*)	% Children in Low Income Families 2016	Child Poverty Index 2019 - Level (*)	Population Income Deprived 2018 (*)	Working age Population Employment Deprived 2018 (*)	Employees in Covid-19 Vulnerable Industry 2018 (*)	Single Adult Dwellings 2018 (*)	2018 Mid Year Population	2018 Children (under 16 years)	2018 Working Age (16-64)	2018 Pensionable Age (65 and over)	2018 Age 75+	2018 Children (under 16 years)	2018 Working Age (16-64)	2018 Pensionable Age (65 and over)	2018 Age 75+ (*)
Berwickshire	S02002303	Berwickshire Central	4	3	4	2	Rural	8.6%	2 - Low	6.5%	7.3%	42.5%	26.8%	4,170	708	2,521	941	343	17.0%	60.5%	22.6%	8.2%
	S02002305	Berwickshire East	4	3	4	2	Rural	10.9%	3 - Mid	9.7%	7.5%	38.1%	28.5%	3,698	496	2,215	987	379	13.4%	59.9%	26.7%	10.2%
	S02002307	Chirnside & Area	4	3	4	2	Rural	10.1%	3 - Mid	7.8%	7.1%	77.5%	28.4%	3,986	650	2,333	1,003	400	16.3%	58.5%	25.2%	10.0%
	S02002308	Coldstream & Area	4	1	1	5	Rural	15.2%	4 - High	10.2%	10.5%	44.2%	36.5%	2,753	337	1,478	938	462	12.2%	53.7%	34.1%	16.8%
	S02002304	Duns	3	1	1	3	Town	9.3%	3 - Mid	9.7%	8.6%	60.7%	40.6%	2,824	483	1,634	707	333	17.1%	57.9%	25.0%	11.8%
S02002306	Eymouth	3	1	2	4	Town	15.6%	4 - High	14.3%	12.5%	64.3%	38.0%	3,538	726	1,953	859	372	20.5%	55.2%	24.3%	10.5%	
Cheviot	S02002309	Cheviot East	5	2	3	3	Rural	9.9%	2 - Low	7.8%	6.8%	71.5%	28.4%	4,701	698	2,643	1,360	576	14.8%	56.2%	28.9%	12.3%
	S02002312	Cheviot West	5	2	4	2	Rural	7.7%	2 - Low	5.2%	4.9%	72.2%	27.0%	2,965	396	1,748	821	304	13.4%	59.0%	27.7%	10.3%
	S02002314	Jedburgh	3	1	2	4	Town	18.5%	4 - High	13.5%	10.6%	61.6%	40.4%	3,885	657	2,262	966	458	16.9%	58.2%	24.9%	11.8%
	S02002310	Kelso North	3	1	2	4	Town	13.3%	4 - High	10.7%	10.1%	30.6%	40.1%	3,186	499	1,828	859	440	15.7%	57.4%	27.0%	13.8%
	S02002311	Kelso South	3	1	1	5	Town	19.7%	3 - Mid	8.8%	9.3%	56.7%	46.4%	2,376	314	1,286	776	381	13.2%	54.1%	32.7%	16.0%
S02002313	St Boswells & Newtown Area	4	1	3	3	Rural	9.4%	3 - Mid	8.3%	7.9%	33.9%	33.7%	3,746	607	2,156	983	446	16.2%	57.6%	26.2%	11.9%	
Eildon	S02002296	Earlston Stow & Clovenfords Area	4	4	5	1	Rural	6.9%	2 - Low	5.4%	4.5%	36.0%	30.3%	5,749	1,107	3,524	1,118	456	19.3%	61.3%	19.4%	7.9%
	S02002320	Etrick Yarrow & Lilliesleaf Area	5	2	4	2	Rural	7.7%	2 - Low	5.4%	4.3%	5.7%	27.4%	2,696	416	1,513	767	282	15.4%	56.1%	28.4%	10.5%
	S02002297	Galashiels North	2	3	3	3	Town	11.3%	3 - Mid	11.4%	11.0%	31.2%	42.0%	3,686	534	2,510	642	252	14.5%	68.1%	17.4%	6.8%
	S02002299	Galashiels South	3	1	2	4	Town	15.7%	3 - Mid	9.2%	9.2%	54.0%	39.8%	3,272	453	1,952	867	393	13.8%	59.7%	26.5%	12.0%
	S02002298	Galashiels West	1	3	2	4	Town	18.7%	4 - High	13.5%	11.7%	36.9%	42.5%	3,039	463	2,048	528	208	15.2%	67.4%	17.4%	6.8%
	S02002300	Langlee	1	3	1	5	Town	32.2%	5 - Higher	23.2%	20.7%	42.5%	46.9%	2,591	502	1,666	423	162	19.4%	64.3%	16.3%	6.3%
	S02002302	Lauder & Area	4	4	5	1	Rural	6.4%	2 - Low	4.2%	4.1%	62.5%	27.2%	3,082	665	1,821	996	245	21.6%	59.1%	19.3%	7.9%
	S02002301	Melrose & Tweedbank Area	4	2	3	3	Rural	7.5%	2 - Low	7.2%	6.6%	40.1%	34.6%	5,387	895	3,167	1,325	595	16.6%	58.8%	24.6%	11.0%
	S02002321	Selkirk	3	1	2	4	Town	15.8%	4 - High	11.6%	10.6%	39.2%	42.2%	5,570	857	3,215	1,498	696	15.4%	57.7%	26.9%	12.5%
	S02002316	Burnfoot	1	4	1	5	Town	30.0%	5 - Higher	25.0%	18.9%	67.6%	43.0%	2,986	801	1,750	435	149	26.8%	58.6%	14.6%	5.0%
Teviot	S02002315	Denholm & Hermitage	4	1	3	3	Rural	12.6%	3 - Mid	8.6%	6.4%	58.1%	27.5%	4,053	511	2,348	1,194	482	12.6%	57.9%	29.5%	11.9%
	S02002317	Hawick Central	2	1	1	5	Town	17.9%	4 - High	12.4%	14.1%	57.0%	44.4%	4,185	594	2,456	1,135	523	14.2%	58.7%	27.1%	12.5%
	S02002319	Hawick North	2	2	2	4	Town	12.9%	3 - Mid	13.7%	14.0%	70.9%	42.0%	3,385	539	2,079	767	358	15.9%	61.4%	22.7%	10.6%
	S02002318	Hawick West End	3	1	1	5	Town	10.6%	3 - Mid	10.6%	10.5%	40.0%	42.7%	3,316	455	1,905	956	497	13.7%	57.4%	28.8%	15.0%
Tweeddale	S02002293	Peebles North	3	1	2	4	Town	9.4%	2 - Low	10.0%	8.3%	62.2%	45.3%	4,250	621	2,471	1,158	552	14.6%	58.1%	27.2%	13.0%
	S02002294	Peebles South	5	3	5	1	Town	6.3%	2 - Low	3.6%	3.9%	21.8%	28.3%	4,323	862	2,436	1,025	432	19.9%	56.3%	23.7%	10.0%
	S02002295	Tweeddale East Area	4	3	4	2	Rural	11.3%	3 - Mid	7.0%	6.6%	67.5%	34.5%	5,716	1,025	3,430	1,261	561	17.9%	60.0%	22.1%	9.8%
S02002292	Tweeddale West Area	5	4	5	1	Rural	6.2%	2 - Low	4.4%	3.8%	51.6%	26.1%	6,156	1,175	3,773	1,208	503	19.1%	61.3%	19.6%	8.2%	

Scottish Borders COVID-19 Recovery Index (SB CRI)

Maximum SB CRI Points	30	5	2	5	3	4	5	3	3
Minimum SB CRI Points	9	1	1	2	1	1	1	1	1

Scottish Borders	16	3	1	3	1	2	2	2	2
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Locality (Best Fit for IZ)	IZcode	IZ Area Name	SB Covid-19 Recovery Index Points	ScotPHO Covid19 Index Overall Quintile into Index Points	Town / Rural (*)	Child Poverty Index 2019 - Level (*)	Population Income Deprived 2018 (*)	Working age Population Employment Deprived 2018 (*)	Employees in Covid-19 Vulnerable Industry 2018 (*)	Single Adult Dwellings 2018 (*)	2018 Age 75+ (*)
Berwickshire	S02002303	Berwickshire Central	13	2	2	2	1	2	2	1	1
	S02002305	Berwickshire East	14	2	2	3	1	2	1	1	2
	S02002307	Chirnside & Area	18	2	2	3	1	2	5	1	2
	S02002308	Coldstream & Area	23	5	2	4	2	3	2	2	3
	S02002304	Duns	19	3	1	3	1	2	4	3	2
S02002306	Eymouth	22	4	1	4	2	3	4	2	2	
Cheviot	S02002309	Cheviot East	18	3	2	2	1	2	5	1	2
	S02002312	Cheviot West	16	2	2	2	1	1	5	1	2
	S02002314	Jedburgh	23	4	1	4	2	3	4	3	2
	S02002310	Kelso North	20	4	1	4	2	3	1	3	2
	S02002311	Kelso South	21	5	1	3	1	2	3	3	3
S02002313	St Boswells & Newtown Area	16	3	2	3	1	2	1	2	2	
Eildon	S02002296	Earlston Stow & Clovenfords Area	11	1	2	2	1	1	1	2	1
	S02002320	Etrick Yarrow & Lilliesleaf Area	12	2	1	1	1	1	1	1	2
	S02002297	Galashiels North	17	3	1	3	2	3	1	3	1
	S02002299	Galashiels South	18	4	1	3	1	2	3	2	2
	S02002298	Galashiels West	19	4	1	4	2	3	1	3	1
	S02002300	Langlee	24	5	1	5	3	4	2	3	1
	S02002302	Lauder & Area	13	1	2	2	1	1	4	1	1
	S02002301	Melrose & Tweedbank Area	16	3	2	2	1	2	2	2	2
	S02002321	Selkirk	20	4	1	4	2	3	1	3	2
	S02002316	Burnfoot	26	5	1	5	3	4	4	3	1
Teviot	S02002315	Denholm & Hermitage	17	3	2	3	1	2	3	1	2
	S02002317	Hawick Central	23	5	1	4	2	3	3	3	2
	S02002319	Hawick North	23	4	1	3	2	3	5	3	2
	S02002318	Hawick West End	22	5	1	3	2	3	2	3	3
Tweeddale	S02002293	Peebles North	20	4	1	2	2	2	4	3	2
	S02002294	Peebles South	10	1	2	2	1	1	1	1	2
	S02002295	Tweeddale East Area	17	2	2	3	1	2	4	2	1
	S02002292	Tweeddale West Area	12	1	2	2	1	2	3	1	1

Components of Scottish Borders Covid-19 Recovery Index (SB CRI)

Prepared 23 July 2020 by E.R. Murray, Scottish Borders Council

This is experimental statistics to help identify areas in the Scottish Borders that may need more support to recover from Covid-19 and what those vulnerabilities may be.

SB Covid-19 Recovery Index Points

The points range from 9 to 30, divided into 3 groups. 9 to 15 in Yellow, 16 to 22 in Orange, and 23 to 30 in Red. The higher the points the more support the area may need to recover from Covid-19.

SB Covid-19 Recovery Index Points ScotPHO Covid19 Index Overall Quintile into Index Points (\*)

Using the 'reverse' of the ScotPHO Covid19 Vulnerability Index Overall Quintile. Points range from 1 to 5 where 1 is the least vulnerable and 5 is the most vulnerable.

Town / Rural (\*)

The intermediate zones are grouped into town (1 point) or rural (2 points). The rural areas have 2 points reflecting the challenges there may be in delivering or getting access to services.

Child Poverty Index 2019 - Level (\*)

The Scottish Borders Child Poverty Index is a points based index, the components are Children in Low Income Families, % Free School Meals, % Clothing Grant, and % Pupils aged 16 with EMA. Sources are SBC and HMRC. For Intermediate Zones the SB CPI levels range from 2-Low to 5-Higher levels of Child Poverty.

Population Income Deprived 2018 (\*)

The proportion of population that is Income Deprived (2018) is a component of the SIMD. For the SB CRI points range from 1 to 3. Under 10% = 1 point, 10% to Under 20% = 2 points, and 20% or More = 3 points.

Working age Population Employment Deprived 2018 (\*)

The proportion of working age population that is Employment Deprived (2018) is a component of SIMD. For the SB CRI points range from 1 to 4. Under 5% = 1 point, 5% to Under 10% = 2 points, 10% to Under 15% = 3 points, and 15% or More = 4 points.

Employees in Covid-19 Vulnerable Industry 2018 (\*)

Covid-19 Vulnerable Industries, based on OCEA analysis, were identified as manufacturing, construction, retail and wholesale, accommodation and food services, and arts, entertainment and recreation. These sectors are most at risk because of their reliance on face-to-face and on-site working. Source is NOMIS. For the SB CRI points range from 1 to 5. Under 40% = 1 point, 40% to Under 50% = 2 points, 50% to Under 60% = 3 points, 60% to Under 70% = 4 points, 70% or More = 5 points.

Single Adult Dwellings 2018 (\*)

Areas with higher proportion of Single Adult Dwellings may have more vulnerable people. Source is NRS. For the SB CRI the points range from 1 to 3. Under 30% = 1 point, 30% to Under 40% = 2 points, and 40% or More = 3 points.

2018 Age 75+ (\*)

Areas with higher proportion of people aged 75 or more may have more vulnerable people. Source is NRS. For the SB CRI the points range from 1 to 3. Under 10% = 1 point, 10% to Under 15% = 2 points, and 15% or More = 3 points.