New Zealand Index of Multiple Deprivation

Providing an Interactive Platform for Automated Creation of Regional Reports, Geocoding and Qualtrics Integration over Multiple Domains
Deprivation

“A state of observable and demonstrable disadvantage relative to the local community or the wider society or nation to which an individual, family or group belongs.”

New Zealand Deprivation Index (NZDep)

• Since 1990
• Census

New Zealand Index of Multiple Deprivation (NZIMD)

• Census and administrative data
• 28 measurable indicators
• Grouped into 7 domains
Employment Indicators

- Sickness Benefit
- Unemployment Benefit
Income Indicators

- Income-tested benefit
- Payments from Inland Revenue
Crime Indicators

- NZ Police’s recorded Crime Victimisation Statistics
Housing Indicators

2013 Census
• Overcrowded housing
• Rented Accommodation
Health Indicators

- Emergency Department admissions
- Acute Hospitalisations related to respiratory disease*
- Acute Hospitalisations related to infectious disease*
- Standardised Mortality Ratios
- Registration for cancers*

*with social gradient
Education Indicators

School leavers who

• Left before age 17
• Left without NCEA level 2
• Did not enrol in tertiary study within 3 years

• Youth not in Education, Employment or Training
• Working age population without formal qualification
Access Indicators

Geographic co-ordinates of nearest three

- Supermarkets
- Primary health care providers
- Service stations
- Early-childhood centres
- Primary and intermediate schools
Interactive Web Page
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Area of Interest
Domain Average
Reports
A deprivation and demographic profile of the West Coast Region district

West Coast Region district, showing overall DEP deprivation with the most deprived areas shaded darkest.
A deprivation and demographic profile of the West Coast Region district
Figure 2: Stacked bar chart showing overall deprivation and seven domains in the West Coast Region district.

The stacked bar chart in Figure 5 shows the proportion of data zones in the West Coast Region district that belong to each deprivation quintile for overall IMD deprivation and the seven domains in 2013. If the deprivation circumstances were the same for all of NZ, we would see 20% of the West Coast Region’s 48 data zones in each quintile. However, Figure 2 shows that the proportion of data zones with Q5 overall IMD, income, crime, housing, health deprivation was less than 20%, while the proportion with Q5 employment, education, across deprivation was greater than 50%. The West Coast Region district has lower than average overall IMD deprivation, with 10.6% (11/104) of the data zones either in Q5 or Q6.

Table 1: Min, max and median deprivation ranks by domain for 5 data zones with Q5 IMD

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Table 1 shows summary statistics by domain for 5 data zones that were among NZ’s most deprived (Q5) for the overall IMD and reveals the contributions of different domains. In descending order, high Q5 median deprivation ranks for Education (5110), Employment (5802), Income (4604) and Health (4504) were contributing to high overall deprivation in these 5 data zones in 2013, bearing in mind that these domains carry different weights in the IMD (see Figure 1).

Figure 4: Distribution of income and crime deprivation in the West Coast Region district.

The Income Domain measures the amount of money per person paid by the government in the form of Working for Families payments and income-tested benefits. In the West Coast Region district, 8.3% (12/145) of data zones were in NZ’s 20% most income-deprived, while 20% (29/145) were in the 20% least income deprived. The median income deprivation rank in the West Coast Region district was 3046, 1.7% (114 ranks) better than the NZ median. There were four Q5 data zones in the Income Domain than for the IMD overall in the West Coast Region district.

The Crime Domain measures victimizations per 1000 people and is largely driven by thefts (1354), buggings (2453) and assaults (386). In the West Coast Region district, 4.3% (3/45) of data zone were among NZ’s 20% most deprived for the Crime Domain, while 22.2% (15/45) were among NZ’s 20% least deprived. The median crime deprivation rank in the West Coast Region district was 3582, 10.2% (467 ranks) better than the NZ median.
Qualtrics Survey Module
Address Search

Enter your address and convert to data zone ID for IMD deprivation information

Enter a location

Convert to DatazoneID

Want to know more? Visit IMD Website

Created by the Centre for eResearch, University of Auckland

Data Zone ID

7600992

Convert to DatazoneID

Know more? Visit
Survey Result

Single Response

Q2. Enter your address and convert to DatazoneID

Convert to DatazoneID

Embedded Data

- ImrRankID: 5
- EmpRankID: 5
- IncRankID: 2
- CfgRankID: 7
- HouRankID: 10
- HthhRankID: 5
- EduRankID: 1
- AccRankID: 2

7609932
Thank You
Questions?

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References

- https://www.rstudio.com/about/logos/
- https://www.docker.com/legal/brand-guidelines