

Nelson 1955 to NZVD2016 Conversion

Title

Nelson 1955 to NZVD2016 Conversion

Creator

LINZ - Land Information New Zealand

Date

2016-06-27

Description

The NSN55-NZVD2016 grid enables the conversion of normal-orthometric heights from the Nelson 1955 local vertical datum to the New Zealand Vertical Datum 2016 (NZVD2016). The conversion value is represented by the attribute "O", in metres. This conversion and NZVD2016 are formally defined in the LINZ standard [LINZS25009] (<http://www.linz.govt.nz/regulatory/25009>). NSN55-NZVD2016 is published on a two arc-minute grid (approximately 3.6 kilometres) extending over the benchmarks that nominally define the extent of the Nelson 1955 vertical datum (171.3° E to 174.4° E, 40.4° S to 42.7° S). The height conversion grid models the difference between the Nelson 1955 vertical datum and NZVD2016 using the LINZ GPS-levelling marks. From the GPS-levelling marks the expected accuracy of NSN55-NZVD2016 is better than 2 centimetres (95% Confidence interval). More information on converting heights between vertical datums can be found [on the LINZ website](<http://www.linz.govt.nz/data/geodetic-services/coordinate-conversion/converting-between-nzvd2016-nzgd2000-and-local-vertical-datums>).

Source

****NSN55-NZVD2016 version 20160627**** This height conversion grid supersedes the offset (0.29m) that was used with NZVD2009. NSN55-NZVD2016 is published on a two arc-minute grid (approximately 3.6 kilometres) extending over the benchmarks that nominally define the extent of the Nelson 1955 vertical datum (171.3° E to 174.4° E, 40.4° S to 42.7° S). The conversion value is represented by the attribute "delta", in metres. The height conversion grid models the difference between the Nelson 1955 vertical datum and NZVD2016 using the LINZ GPS-levelling marks. The input data has an average of 0.33m and range of 0.22m to 0.44m. From the GPS-levelling marks the expected accuracy of NSN55-NZVD2016 is better than 2 centimetres (95% Confidence interval).

Coverage

-42.7 171.3 -40.4 174.4

Identifier

<https://data.linz.govt.nz/layer/53438-nelson-1955-to-nzvd2016-conversion/>

Type

grid

Language

eng

Subject

New Zealand

Subject

LAND-Geodesy

Subject

| LAND-Cadastre
Subject
| LAND-Topography
Subject
| location