

Land Environments of New Zealand

Nga Taiao o Aotearoa

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LENZ

Level III

Classification



What is LENZ?

Land Environments of New Zealand, or LENZ, is a radically different environmental classification of New Zealand based on a set of 15 underlying climate, landform, and soil variables. LENZ is designed to facilitate conservation and resource management at a range of scales.

Whv LENZ?

- Growth of ecosystem management as reflected in national legislation, government policy, and international agreements
- Increase in monitoring and reporting requirements 2)
- Need for spatially explicit, quantitative tools including maps showing the distribution of areas with similar ecosystem character.

LENZ Classification

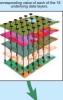
LENZ classifies New Zealand into environments with varying degrees of similiarity using multivariate classification techniques. Whereas traditional ecosystem classifications generally rely on subjective synthesis of multiple information sources, multivariate classifications offer signficant advantages because they are flexible, explicit, repeatable, and scalable.

At the heart of LENZ lies the concept of environmental distance. Environmental distance measures how "close" (similar) two areas are based on a given set of environmental variables. For LENZ, the set consisted of the 15 underlying data layers.



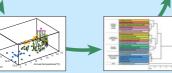


Climate



Classification **Process**

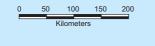


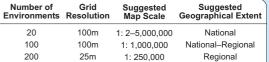












(Levels I to IV) for description and mapping at various levels of detail and geographic scales. A standard set of classification levels promotes a common framework for activities such as environmental reporting and maximises the ability to readily compare

LENZ Hierarchy LENZ consists of four levels of classification

Regional-District 1: 50.000 **LENZ Applications**

The environmental factors that influence the distribution of native flora and fauna also influence human uses of the landscape. Therefore LENZ has applications for a broad range of issues including:

or combine results from different studies.

Biodiversity conservation

Level

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100

200

500

- Ecological restoration
- Biosecurity
- Risk management
- Public health
- Economic development



LENZ Underlying Data Layers © Landcare Research.

LENZ Classification @ Ministry for the Environment.







Soil Variables















