

Making land use decisions? Considering horticulture?

Start with this snapshot of resources

Considerations

When considering diversification into horticulture it is important to work thorough the whole value chain, including, but not limited to:

- ✓

What will grow (current climate, future climate, soils)
- ✓

Domestic supply and demand
- ✓

Cultivar availability
- ✓

Export supply and demand
- ✓

Adverse event risk
- ✓

NZGAP and GLOBALG.A.P.
- ✓

Consents
- ✓

Water availability
- ✓

Profitability
- ✓

Reliable transport routes
- ✓

Regulatory requirements e.g. employment laws, health and safety
- ✓

Local availability of agronomy and economic advisory services
- ✓

Coolchain and storage infrastructure
- ✓

Return on investment for a specific growing system.
- ✓

Labour requirements and availability

REGION-SPECIFIC RESOURCES

Tuputupu Grow Northland: Includes market opportunity reports for optimising land use and creating value-add products in Taitokerau Northland

Branching out: includes crop trials, commercial viability studies, and value chain development in the Taranaki region.

Hawke's Bay Climate Change Risk Assessment: shows the broad range of climate change risks and their likely impacts at regional and district levels.

Know what you can grow: an interactive map that provides a visual way to assess which crops may be suitable to grow on your property

Manawatu Land Diversification initiative: features an interactive Crop Suitability Map and grower guides for five crops that suit the regions' climate and soils.

GROW Otago: comprehensively maps Otago's climate and soils.

Waitaki Grown: evaluation of high-value medicinal and other crops suited to the Waitaki climate.

Tools, mapping and datasets – national level

Multi-Criteria Decision Making tool for Land Use Diversification	This multi-criteria decision-making (MCDM) spreadsheet tool is a relatively quick and simple process to explore land use alternatives.
Matarau 'explore your options' tool	This tool brings together data and information curated for the needs of Māori landowners in one place.
Find your whenua	Search for your whenua to see it on the map, and get detailed information about the environment, economy, and climate in the rohe – and the potential that creates.
Grow Degree Days under climate change	The total number of degrees Celsius that the mean daily temperature is above a base threshold temperature (10 degrees Celsius) in a year.
Climate projections map	This map shows projected future changes to New Zealand's temperature, rainfall, and wind under different scenarios at a 5 km resolution.
Worker requirements by land use dashboard	This dashboard estimates the number of full-time equivalent staff needed seasonally for different land-use scenarios.
Irrigation Development: IrrigationNZ	Resources to help develop and design an irrigation scheme, including a water allocation calculator and development checklist.
Land use capability map	Categorizes land into eight classes according to its long-term capability to sustain one or more productive uses.
Product groups and district Associations	These organisations are a good place to seek further information about a specific crop or region.
Crop and tree species growing potential	Maps showing the overall suitability of an area to a particular crop or tree species.

Other resources and reading

- [Integrating horticultural and arable land use options into hill country farming systems](#)
- [Climate change impacts on land use suitability](#)
- [The Future of Land Use and How To Fund It](#)
- [Modelling to identify direct risks for New Zealand agriculture due to climate change](#)
- [Considering the potential of the whenua](#)
- [Whenua Māori in primary production](#)
- [Irrigation at a glance](#)
- [Research review – Assessing and modelling the environmental performance of horticultural land uses](#)

Tools, mapping and datasets – by crop

	Growing requirements	Crop suitability & yield maps	Suitability under climate change	Critical climate risks	Greenhouse gas emissions	Whenua use factsheets
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						

 Available for this crop.