



Land Use New Zealand (LUNZ) Map

Landcare Research

Data Documentation

Motu Economic and Public Policy Research

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Can Motu put this data on our website? No

Can Motu put this document on our website? Yes

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## Data Documentation

(Please note that this is informal documentation intended to help users.  
It is not a polished document. Additions/corrections are welcome at [info@motu.org.nz](mailto:info@motu.org.nz).)

1. Main Motu contact for this data: Wei Zhang, Research analyst [wei.zhang@motu.org.nz](mailto:wei.zhang@motu.org.nz)  
(Motu intern Kate Chambers worked on this dataset). Motu senior fellow contact: Suzi Kerr.

2. Data keywords:

Rural land use, environment

3. Dataset abstract:

LUNZ is a comprehensive land use dataset for New Zealand that was created by Landcare Research using information from AgriBase, LCDB2, LENZ and MAF monitor farm types. The dataset was created as part of the CLUES project (Woods et al, 2006). The smallest unit of observation is a sub-farm: a piece of land on a specific farm with a unique land cover type. As AgriBase is not comprehensive, land use for farms with missing information had to be inferred using other sources of information.

4. Motu Working Papers using this data set.

Todd, Maribeth and Suzi Kerr. 2009. "How Does Changing Land Cover and Land Use in New Zealand relate to Land Use Capability and Slope?" Motu Working Paper 09-17.

5. Additional notes.

Agribase is a national spatial farm database. It was originally developed by MAF Quality Management (now AgriQuality New Zealand Ltd) to provide core information to be used during major animal health emergencies such as a foot-and-mouth disease (FMD) epidemic. Development of the system began in late 1988 and national data capture began in earnest in 1993.

6. Variables:

MAF Monitor Farm Type	Land Use Classification Code	MAF Monitor Farm Model Name (and URL to 2004 model introductory paragraph(s) in the report)	Regional Description (quote extracted from the 2004 model report)	Regional Assignment (RC boundaries)
Dairy	AAA_DAI_NTH	<a href="#">Northland</a>	calving dairy farms north of Auckland City	Nth, Auck
	AAA_DAI_WAI	<a href="#">Waikato/Bay of Plenty</a>	seasonal supply dairy farms in the Waikato and Bay of Plenty	Wai, BoP, Gis

**Sheep &  
Beef**

AAA_DAI_NIL	<a href="#">Lower North Island</a>	3,235 seasonal supply dairy farms in the bottom half of the North Island, including the regions of Taranaki, Manawatu, Horowhenua, Wairarapa and Southern Hawke's Bay. These dairy farms supply the Fonterra Co-operative Dairy Company.	Tar, HBay, MW, Wgtn
AAA_DAI_CAN	<a href="#">Canterbury</a>	700 dairy farms throughout Canterbury and North Otago	Tas, Marl, Cant
AAA_DAI_STH	<a href="#">Southland</a>	owner operators who supply milk to the Fonterra factory at Edendale	Otago, Sth
AAA_DAI_WCS	<a href="#">West Coast South Island</a>	West Coast of the South Island	WCoast
AAA_SBI_NTH	<a href="#">Northland</a>	[Northland] easy rolling to moderately steep hill country	Nth, Auck
AAA_SBI_WAI	<a href="#">Waikato/Bay of Plenty Intensive</a>	1,200 farms bounding the predominantly dairying districts of the Waikato/Bay of Plenty region.	Wai, BoP, Gis
AAA_SBI_MAN	<a href="#">Manawatu/Rangitikei Intensive</a>	situated on flat to easy rolling country in the Manawatu and Rangitikei districts	Tar, HBay, MW, Wgtn
AAA_SBI_CAN	<a href="#">Canterbury/Marlborough Breeding &amp; Finishing</a>	sheep and cattle breeding and finishing farms in coastal Marlborough and Canterbury. Farms are located on the dry downs and plains, in irrigated areas, and in the higher rainfall upper plains	Tas, Marl, Cant
AAA_SBI_STH	<a href="#">Southland/South Otago Intensive</a>	intensive sheep and beef farms in Southland and South Otago, ranging in size from 100-300 hectares (ha). The farms are on the plains and downlands in normally ample summer rainfall areas	Otago, Sth, WCoast
AAA_SBI_NIC	<a href="#">Central North Island Hill Country</a>	a range of hill country across the central area of the North Island. It includes the Waitomo, Ruapehu,	Nth, Auck, Wai, BoP, Tar, MW

			Taupo, Wanganui and Rangitikei districts, as well as the Taranaki region	
	AAA_SBH_GIS	<a href="#">Gisborne Large Hill Country</a>	230 farms located from the top of the East Coast through to inland Wairoa, with contours ranging from steep erosion-prone hill country to easy rolling, high producing farmland	Gisb
	AAA_SBH_HBW	<a href="#">Hawke's Bay/Wairarapa Hill Country</a>	hill country properties from Wairoa south, through to Cape Palliser	HBay, Wgtn
	AAA_SBH_CAN	<a href="#">Canterbury/Marlborough Hill Country</a>	hill country farms in Marlborough, Canterbury foothills and Banks Peninsula	Tas, Marl, Cant
	AAA_SBH_OTA	<a href="#">Otago Dry Hill</a>	400 farms in the Otago area. These farms range in size from 500-4,000 hectares (ha), and are spread from Kurow in North Otago to Millers Flat in Central Otago, with the main concentration being in the Middlemarch and inland Palmerston areas. The model size is 2,000 ha	Otago
	AAA_SBH_STH	<a href="#">Southland/South Otago Hill Country</a>	750 farms in the moderately rolling clay downlands to steeper hill properties in South Otago and Southland. The farms are spread through the Clutha (44%), Southland and Gore (56%) districts	Sth, WCoast
	AAA_SBM_SIM	<a href="#">South Island Merino</a>	200 hill and high country merino properties in the South Island	Sth Island
<b>Deer</b>	AAA_DEE_NTH	<a href="#">North Island Deer</a>	North Island	Nth Island
	AAA_DEE_STH	<a href="#">South Island Deer</a>	represents the deer farms of Southland and South Otago. It is based on a farm running deer only	Sth Island
<b>Arable</b>	ARA_ARA_CAN	<a href="#">Canterbury Arable Cropping</a>	600 properties over 100 hectares (ha) located throughout Canterbury	Can

	ARA_ARA_WAI	<a href="#">Maize (Waikato)</a>	maize growing for silage and grain in the Waikato and Bay of Plenty areas	Wai
	ARA_PFV	<a href="#">Process and Fresh Vegetables</a>	process and fresh vegetable growers throughout New Zealand	
<b>Horticulture</b>	HOR_KIW	<a href="#">Kiwifruit</a>	kiwifruit orchards in the major growing areas of New Zealand. The model budget represents an established owner-operator property in the Bay of Plenty	
	HOR_SUM	<a href="#">Summerfruit</a>	New Zealand summerfruit industry in the two main production regions, Hawke's Bay and Central Otago	
	HOR_TRO	<a href="#">Subtropicals</a>	subtropical crops of avocados, citrus, persimmons, feijoas, tamarillos and passionfruit. These crops are grown in the warmer parts of New Zealand, particularly Gisborne, the coastal Bay of Plenty, greater Auckland and Northland	
	HOR_EXB	<a href="#">Export Berryfruit</a>	export berryfruit crops grown throughout New Zealand. They are grown mainly in Auckland, Waikato, Horowhenua, Nelson and Canterbury	
	<i>Not used</i>	<a href="#">Apiculture</a>	beekeeping activities and products throughout New Zealand	
	HOR_FLO	<a href="#">Floriculture</a>	flower industry in New Zealand	
	HOR_VIT_HAB HOR_VIT_MAR	<a href="#">Viticulture</a>	owner-operator vineyard businesses whereby grape income is the primary income. This excludes the smaller lifestyle properties and the larger corporate businesses. The two budgets represent the Hawke's Bay and Marlborough regions	HBay, Marlb.
<b>Pipfruit</b>	HOR_PIP_HAB	<a href="#">Hawke's Bay Pipfruit</a>	Hawke's Bay is the largest pipfruit-	HBay

producing district in New Zealand, exporting 50% of the country's pipfruit crop. Most orchards have a mixture of pipfruit varieties and are run by owner-operators

HOR\_PIP\_NEL [Nelson Pipfruit](#)

Nelson is the second largest apple district in New Zealand after Hawke's Bay. Most orchards are a mixture of old and new varieties, typically run by owner-operators