

91297



SUPERVISOR'S USE ONLY

Level 2 Agricultural and Horticultural Science, 2019

91297 Demonstrate understanding of land use for primary production in New Zealand

2.00 p.m. Monday 25 November 2019 Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of land use for primary production in New Zealand.	Demonstrate in-depth understanding of land use for primary production in New Zealand.	Demonstrate comprehensive understanding of land use for primary production in New Zealand.

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt ALL the questions in this booklet.

If you need more room for any answer, use the extra space provided at the back of this booklet.

Check that this booklet has pages 2–12 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

TOTAL

QUESTION ONE: PIP FRUIT PRODUCTION

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The Hawke's Bay and Otago regions are major producers of pip fruit, such as apples.

Pin	fruit	orchard
TIP	11 uit	orcharu

(a)	Explain TWO environmental factors that make both these regions suitable for pip frui
	production.

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QUESTION TWO: DAIRY CATTLE NUMBERS

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Dairy cattle numbers in New Zealand have increased from 3.8 million in 1994 to 6.5 million in 2017. However, this increase has not been spread out equally across the regions.

The map below shows some regions have had a loss in dairy cattle numbers, while other regions have had increases of more than 400%.



Map of the change in dairy cattle numbers between 1994 and 2015

cattle numbers.			

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QUE	STION THREE: VITICULTURE	ASSESSOR'S USE ONLY
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	A New Zealand vineyard	
a)	Identify a region in New Zealand that has traditionally been used for grape production and explain in detail the impacts of viticulture on this region in terms of workforce and social factors.	
	Region:	

•	why the land use could be converted to viticulture
•	environmental and economic considerations.

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Acknowledgements

Material from the following sources has been adapted for use in this examination:

Page 2

Image: https://www.bayleys.co.nz/media.ashx/orchardsmall.jpg

Page 5

Image: http://archive.stats.govt.nz/browse_for_stats/environment/environmental-reporting-series/

environmental-indicators/Home/Land/livestock-numbers.aspx (recreated)

Page 8

Image: http://www.oysterbaywines.com/nz/our-place/marlborough/