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## Level 2 Agricultural and Horticultural Science, 2017

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

9.30 a.m. Wednesday 29 November 2017  
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 2–11 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**

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## Rotorua Lakes farmers hope a deal

Extract (adapted) from article in *Farmers Weekly*, September 2016.

In your answer:

- explain the factors that determined the current and/or traditional land use there
- explain in detail why the Regional Council is pushing for land use change, taking into account social and environmental factors
- evaluate the positive impacts on the environment of changing the land use, and the economic impacts.



Canterbury has seen a big shift away from traditional land use towards dairying.

- (b) Evaluate the importance of the two factors you chose in (a) in deciding whether or not to continue using the land for dairy farming.

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## Rivernook Piggery closed

Extract (adapted) from article on Stuff website, December 2015, announcing plans for the closure in 2016.

- (a) Explain, in detail, TWO factors that could have determined the land's use as a piggery from the 1950s until 2016.

(b) Justify either urbanisation or viticulture as a future use for the land the piggery occupies.

In your answer, compare and contrast urbanisation with viticulture, considering TWO of the following factors: economic, environmental, technological, social, political, and workforce.

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**Extra space if required.**  
**Write the question number(s) if applicable.**

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QUESTION  
NUMBER

## Acknowledgements

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

Page	Sources
2	(text) <a href="https://farmersweekly.co.nz/topic/environment/pollution-and-emissions/first-deal-struck-to-cut-nitrogen">https://farmersweekly.co.nz/topic/environment/pollution-and-emissions/first-deal-struck-to-cut-nitrogen</a> (photo) <a href="http://sunlive.co.nz/news/33652-tide-turning-lake-rotorua.html">http://sunlive.co.nz/news/33652-tide-turning-lake-rotorua.html</a>
4	(photo) <a href="http://www.teara.govt.nz/en/photograph/46366/dairy-cows-amuri-plain">http://www.teara.govt.nz/en/photograph/46366/dairy-cows-amuri-plain</a>
6	(text) <a href="http://www.stuff.co.nz/business/farming/75367982/Grape-growth-and-creeping-urbanisation-spell-end-for-family-owned-Marlborough-piggery">http://www.stuff.co.nz/business/farming/75367982/Grape-growth-and-creeping-urbanisation-spell-end-for-family-owned-Marlborough-piggery</a> (photo) <a href="http://www.stuff.co.nz/the-press/business/69847691/national-pig-herd-slumps-as-proportion-of-imported-product-grows">http://www.stuff.co.nz/the-press/business/69847691/national-pig-herd-slumps-as-proportion-of-imported-product-grows</a>

