

SUPERVISOR'S USE ONLY

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**Mana Tohu Mātauranga o Aotearoa**
New Zealand Qualifications Authority

Level 2 Agricultural and Horticultural Science 2023

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

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.

Do not write in any cross-hatched area (☒). This area will be cut off when the booklet is marked.

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

QUESTION ONE: Land use – North and South

- (a) Select a North Island region, describe a land use that is commonly carried out there, and explain why it is carried out in that region.

Region: _____

- (b) Select a South Island region, describe a land use that is commonly carried out there, and explain why it is carried out in that region. The land use selected must be different from part (a).

Region: _____

QUESTION TWO: Urban sprawl

“The Ministry for the Environment’s *Our land 2021* report shows that between 2002 and 2019, 54 percent of highly productive land was lost to housing, while cities and towns have sprawled by about a third,” said the former HortNZ chief executive.

“This situation simply isn’t good enough, considering that the primary production sector is the backbone of the New Zealand economy and only 15 percent of land is suitable for food production.

“The Government must act now to retain remaining highly productive land. Once houses have been built on it, that soil is lost forever.”



- (a) The environmental and social factors that make land suitable for intensive production systems such as market gardens, also make it suitable for urban land use. Explain why this is so.

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The assessment continues on the following page.**

QUESTION THREE: Changing land uses

Over the past 20 years some land uses have seen considerable change in land area while others have seen very little change.



- (a) Referring to the graph above, how have economic and technological factors led to land use change?

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Acknowledgements

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

Page 5

(quote) <https://www.hortnz.co.nz/news-events-and-media/media-releases/government-report-shows-need-for-urgent-protection-of-land-for-food-production-hortnz-says/>

(image) <https://www.stuff.co.nz/national/politics/local-democracy-reporting/300687900/government-gets-set-to-announce-new-policy-to-protect-prime-horticultural-land>

Page 8

(graph) <https://www.stats.govt.nz/indicators/agricultural-and-horticultural-land-use>