

91297



912970



NEW ZEALAND QUALIFICATIONS AUTHORITY  
MANA TOHU MĀTAURANGA O AOTEAROA

QUALIFY FOR THE FUTURE WORLD  
KIA NOHO TAKATŪ KI TŌ ĀMUA AO!

2

SUPERVISOR'S USE ONLY

## Level 2 Agricultural and Horticultural Science, 2018

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

9.30 a.m. Wednesday 28 November 2018

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 2–8 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**

ASSESSOR'S USE ONLY

Environmental and financial pressures have forced Landcorp and Wairakei Estate

Text (adapted) and image source: <http://www.stuff.co.nz/business/farming/dairy/77608461/Landcorp-bows-to-pressure-to-halt-dairy-conversions>.

[illegible]

(a) Explain why land in the Taupo/Central Plateau region has traditionally been used for forestry.

- In your answer, consider:

**QUESTION TWO: AVOCADOS**ASSESSOR'S  
USE ONLY

Dairy farms are being converted to avocado orchards in the Auckland and Northland

[REDACTED]

[REDACTED]

Whitehead said.

Source (adapted): <https://www.stuff.co.nz/business/farming/94626504/Dairy-farms-make-way-for-avocados-in-north>.

- (a) Identify a traditional land use in Northland, and explain reasons for this land use.

---

---

---

---

---

---

- (b) Explain why Northland's environmental and economic conditions are suitable for subtropical fruit such as avocados.

Environmental factors

---

---

---

---

---

---

Economic factors

---

---

---

---

---

---

In your answer, consider:

- the economy
- workforce supply
- the environment.

**QUESTION THREE: IRRIGATION**ASSESSOR'S  
USE ONLY

The Manuherikia catchment in Central Otago is made up of two principal valleys and a [REDACTED] hectares are fully irrigated and 10,000 hectares are partially irrigated.

Source (adapted): <http://www.centralotagonz.com/economic-development/key-sectors/irrigation>.

**Farmland around Lake Dunstan, near Cromwell, Central Otago**

Source: <https://www.google.co.nz/maps/@-44.977413,169.2110126,6025m/data=!3m1!1e3>.

- (a) Identify the main agricultural and horticultural uses of land in the Central Otago region, and explain the reasons behind these uses.

---

---

---

---

---

---

---

- (b) Explain how irrigation technology has allowed land use to change.

---

---

---

---

---

---

---

- (c) The establishment of new irrigation schemes is controversial. Discuss the expansion of irrigation with respect to the environment, the economy, and politics.

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

ASSESSOR'S  
USE ONLY

QUESTION  
NUMBER

91297