

This assessment is based on a now-expired version of the achievement standard and may not accurately reflect the content and practice of external assessments developed for 2025 onwards.

91931



Mana Tohu Mātauranga o Aotearoa  
New Zealand Qualifications Authority

## Level 1 Agricultural and Horticultural Science 2024

### 91931 Demonstrate understanding of environmental sustainability in primary production management practices

Credits: Four

## ASSESSMENT TASK

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of environmental sustainability in primary production management practices.	Explain environmental sustainability in primary production management practices.	Evaluate environmental sustainability in primary production management practices.

Refer to this document to respond to the task for Agricultural and Horticultural Science 91931.

Check that this document includes page 2.

Do not use chatbots, generative AI, or other tools that can automatically generate content.

**DO NOT TAKE THESE ASSESSMENT MATERIALS OUT OF THE ASSESSMENT ROOM.**

## REPORT TOPIC: New Zealand's biodiversity

### Background

New Zealand's land-based primary production is reliant on the protection and management of biological systems.



### Report requirements

Produce a report outlining how two management practices that are commonly carried out in a primary production system of your choice will improve biodiversity and environmental sustainability.

In your report, include how a Māori value relevant to environmental sustainability is being demonstrated.

Any images or diagrams included need to be relevant to the text.

In your report, you should discuss:

- how your primary production system currently impacts biodiversity
- how both management practices improve biodiversity
- how both management practices contribute to environmental sustainability, ensuring the primary production system can be carried out in the future
- with justification, which of the two management practices will have the greatest impact in improving biodiversity, and the environmental sustainability of the selected production systems.

#### Acknowledgements

Text and images from the following sources have been adapted for use in this assessment.

#### Text

Background: <https://www.environmentguide.org.nz/activities/horticulture/description-of-the-impacts-to-be-managed/biodiversity/>

#### Images

Top left: [https://www.livingwater.net.nz/assets/sm/upload/uv/9i/q4/c3/671\\_3639.jpg](https://www.livingwater.net.nz/assets/sm/upload/uv/9i/q4/c3/671_3639.jpg)

Top middle: [https://en.wikipedia.org/wiki/Xanthocryptus\\_novozealandicus#/media/File:Xanthocryptus\\_novozealandicus.jpg](https://en.wikipedia.org/wiki/Xanthocryptus_novozealandicus#/media/File:Xanthocryptus_novozealandicus.jpg)

Top right: [https://images.squarespace-cdn.com/content/v1/5e4f20577121d712d193069f/1592267299091-JE5TZYVE9ZA0OORMAQ20/6557924841\\_4b3aa0a8be\\_o.jpg](https://images.squarespace-cdn.com/content/v1/5e4f20577121d712d193069f/1592267299091-JE5TZYVE9ZA0OORMAQ20/6557924841_4b3aa0a8be_o.jpg)

Bottom: <https://www.waikatoregion.govt.nz/assets/WRC/WRC-2019/possumbanner.jpg>