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Level 3 Agricultural and Horticultural Science 2021

91532 Analyse a New Zealand primary production environmental issue

Credits: Five

Achievement	Achievement with Merit	Achievement with Excellence
Analyse a New Zealand primary production environmental issue.	Critically analyse a New Zealand primary production environmental issue.	Comprehensively analyse a New Zealand primary production environmental issue.

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 parts of the task 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.

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

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

INSTRUCTIONS

Topic: Freshwater and sustainable production

You must choose a specific primary product to be used in all parts of this assessment.

Planning space is provided on page 3. Begin your answers on page 4.

Choose a specific primary product.

Primary product: _____

Pressures on freshwater

Freshwater environments are under pressure, as a result of more than 150 years of our population growing, and changes in the way we use our land.

_____ Instead agricultural intensification continued, ruminant stock numbers increased, and significant deforestation occurred.

Source (adapted): <https://www.mfe.govt.nz/sites/default/files/media/Fresh%20water/essential-freshwater.pdf>

PLANNING

(b) Social impact

As well as impacts on freshwater, there are negative social impacts from carrying out management practices. The social impacts may affect the producer, local communities, or the wider society of New Zealand and our export markets.

Explain how the production of your chosen primary product impacts society in a negative way. You should include a range of groups who are negatively affected.

Use examples and relevant data to support your answer.

(c) Course of action to help achieve sustainable production

Primary producers have been making changes to their management practices to reduce their impacts on freshwater. They need to ensure they continue to evolve their management practices to be able to contribute to improving freshwater quality and management in New Zealand.

For example: Fencing waterways is a course of action that dairy farmers have carried out to reduce negative impacts on freshwater.

Recommend a course of action that producers can carry out to further reduce their negative impact on freshwater. Justify how it will allow for sustainable production in New Zealand.

You should include the positive environmental, social, and economic impacts of the chosen course of action. Use examples and relevant data to support your answer.

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