

## Achievement Standard

<b>Subject Reference</b>	Agricultural and Horticultural Science 3.5		
<b>Title</b>	Analyse a New Zealand primary production environmental issue		
<b>Level</b>	3	<b>Credits</b>	5
		<b>Assessment</b>	External
<b>Subfield</b>	Science		
<b>Domain</b>	Agricultural and Horticultural Science		
<b>Status</b>	Registered	<b>Status date</b>	4 December 2012
<b>Planned review date</b>	31 December 2020	<b>Date version published</b>	17 November 2016

This achievement standard involves analysing a New Zealand primary production environmental issue.

### Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> <li>Analyse a New Zealand primary production environmental issue.</li> </ul>	<ul style="list-style-type: none"> <li>Critically analyse a New Zealand primary production environmental issue.</li> </ul>	<ul style="list-style-type: none"> <li>Comprehensively analyse a New Zealand primary production environmental issue.</li> </ul>

### Explanatory Notes

- This achievement standard is derived from *The New Zealand Curriculum*, Learning Media, Ministry of Education, 2007, and is related to the material in the *Teaching and Learning Guide for Agricultural and Horticultural Science*, Ministry of Education, 2011 at <http://seniorsecondary.tki.org.nz>.
- Analyse an environmental issue* involves:
  - explaining the environmental issue arising from primary production management practices
  - explaining potential courses of action to mitigate the negative impacts of the management practices
  - recommending course(s) of action to support sustainable management practices.

*Critically analyse an environmental issue* involves:

  - explaining, in detail, the environmental issue arising from primary production management practices

- evaluating potential courses of action to mitigate the negative impacts of the management practices. This may include comparing and contrasting alternative courses of action
- recommending course(s) of action to support sustainable management practice(s) that best address the issue.

*Comprehensively analyse an environmental issue* involves:

- justifying course(s) of action to support sustainable production management practice(s) that best address the issue; this includes environmental, economic, political, and/or social considerations.

- 3 An *environmental issue* results from agricultural or horticultural primary production in New Zealand.
- 4 Impacts of production management practice(s) may be environmental, economic, political, and/or social.
- 5 *Courses of action* refer to responses carried out by the producer that may, potentially, mitigate the negative impacts of the production management practice(s).
- 6 Sustainable production management practices refers to the management of parts of the environment eg water, soil, and/or air to ensure continued use of these natural resources in primary production practices and to minimise negative impacts on the wider environment.
- 7 Production management practices may include: fertiliser application, irrigation, cultivation, effluent management, pest and/or weed control, harvesting, grazing management.
- 8 Assessment Specifications for this achievement standard can be accessed through the Agriculture and Horticulture Resources page found at [www.nzqa.govt.nz/ncea/resources](http://www.nzqa.govt.nz/ncea/resources).

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### Replacement Information

This achievement standard replaced AS90653.

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### Quality Assurance

- 1 Providers and Industry Training Organisations must have been granted consent to assess by NZQA before they can register credits from assessment against achievement standards.
- 2 Organisations with consent to assess and Industry Training Organisations assessing against achievement standards must engage with the moderation system that applies to those achievement standards.

Consent and Moderation Requirements (CMR) reference

0233