

Achievement Criteria

A single achievement criterion that focuses on research and presentation of a report has been used for each achievement grade. Differentiation between the achievement and achievement with merit grades is based on integration of information, and differentiation between achievement with merit and achievement with excellence grades is based on integration of information, depth and breadth of relevant information and the coherency of the report.

Explanatory Notes

- These have been changed to reflect the achievement criterion for each grade of achievement and to define new terms used.
- *Factors* has been replaced by *market forces* and defined as in the other Level 3 Agricultural and Horticultural Science achievement standards because the factors that were listed in Version 1 of the achievement standard act directly or indirectly as market forces. *Promotion* has been added to the list of market forces, and *quality* has been defined in relation to the market context.

AS90650, Agricultural and Horticultural Science 3.2

Explanatory Notes

- Explanatory Note 1 has been reordered so *nationally significant primary product* is emphasised early on in the explanatory notes.
- Information gathering techniques in Explanatory Note 3 have been bulleted to highlight the differences between each and to clearly show the requirement is for at least three of the listed information gathering techniques to be used rather than simply a range of sources for one information gathering technique. *Field trip* has been removed from the list, as it is not an information gathering technique.
- *Consumer preferences* has been added to Explanatory Note 7 as an *aspect of marketing* because it links with surveys. *Political intervention* has been removed because it does not fit with the investigation and *quality* has been defined in relation to the market context.

AS90651, Agricultural and Horticultural Science 3.3

Note: Changes to this achievement standard and to AS90652, Agricultural and Horticultural Science 3.4, were made to clearly distinguish the skills and knowledge required for each standard.

Title

The title has been changed to reflect the requirements of the achievement criterion for the achievement grade, and to emphasise the market oriented approach to agriculture and horticulture in New Zealand.

Credits

The credit value has been decreased from six credits to four to reflect the removal of content that has been incorporated into AS90652, Agricultural and Horticultural Science 3.4.

Achievement Criteria

- The criterion *Analyse market opportunities and explain the specific product attributes required for each opportunity* has been removed from the achievement standard and added to AS90652, Agricultural and Horticultural Science 3.4. It was felt that the achievement standard covered too much skill and knowledge and there was no link with the other achievement criteria. It was also felt that students were unable to meet the requirements of the achievement standard in the time allocated for the examination.
- An achievement criterion has been added for the achievement with excellence grade.

Explanatory Notes

- *Promotion* has been added to the list of *market forces* in Explanatory Note 2.
- Explanatory notes have been removed where they relate to content that has been moved to AS90652, Agricultural and Horticultural Science 3.4.
- A definition for *justify the key market force* has been added.

AS90652, Agricultural and Horticultural Science 3.4

Title

The title has been changed to reflect the requirements of the added achievement criterion in relation to market requirements.

Credits

With the inclusion of the skill and knowledge requirement that was in AS90651, Agricultural and Horticultural Science 3.3, the credit value has been increased from five credits to six to reflect the learning time required.

Achievement Criteria

An achievement criterion that was in AS90651, Agricultural and Horticultural Science 3.3 has been added to each grade of achievement.

Explanatory Notes

- New explanatory notes have been added to define *market requirements* and to define *explain market requirements of market opportunities*.
- The definition of *justify* has been modified because the previous definition tended to limit student responses.

AS90653, Agricultural and Horticultural Science 3.5

Explanatory Notes

- New Explanatory Note 1 highlights that the issue will be selected from three prescribed issues.
- The second bullet of Explanatory Note 2 has *that may be* added because there are some situations where producers do have control.

Impact on Accreditation and Moderation Action Plan (AMAP)

None.

Impact of changes on [NCEA Exclusions List](#)

None.

Summary of main changes to achievement standards' Ids, classification, titles, levels, and credits

The following summary shows the changes made to the achievement standards as a result of the review. All changes are in **bold**.

Key to review category

- A** Dates changed, but no other changes are made - the new version of the standard carries the same Id and a new version number
- B** Changes made, but the overall outcome remains the same - the new version of the standard carries the same Id and a new version number
- C** Major changes that necessitate the registration of a replacement achievement standard with a new Id
- D** Achievement standard will expire and not be replaced

Subfield Science
Domain Agricultural and Horticultural Science

Id	Title	Level	Credit	Review Category
90649	Research the production and marketing of a locally produced primary product Research the production of a marketable locally produced primary product	3	5 6	B
90650	Investigate production and marketing of a nationally significant primary product	3	4	B
90651	Explain market forces and the relationship(s) between market opportunities and primary products Explain how market forces affect supply and demand of primary products	3	6 4	B
90652	Explain the production process for a nationally significant primary product Explain market requirements and the production process for a nationally significant primary product	3	5 6	B
90653	Analyse a primary production environmental issue	3	4	B