**Year 13 Plant and Horticultural Science**

**AS 91532**

**Analyse a New Zealand primary production issue**

**Version 1**

**External Assessment**

**5 Credits**

**WORKBOOK**



Achievement Standard

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| **Subject Reference** | Agricultural and Horticultural Science 3.5 AS 91532 |
| **Title** | Analyse a New Zealand primary production environmental issue |
| **Level** | 3 | **Credits** | 5 | **Assessment** | External |
| **Subfield** | Science |
| **Domain** | Agricultural and Horticultural Science |
| **Status** | Registered | **Status date** | 4 December 2012 |
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This achievement standard involves analysing a New Zealand primary production environmental issue.

**Achievement Criteria**

| **Achievement** | **Achievement with Merit** | **Achievement with Excellence** |
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| * 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.
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##### Explanatory Notes

1. 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>.
2. *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.
1. An *environmental issue* results from agricultural or horticultural primary production in New Zealand.
2. Impacts of production management practice(s) may be environmental, economic, political, and/or social.
3. *Courses of action* refer to responses carried out by the producer that may, potentially, mitigate the negative impacts of the production management practice(s).
4. 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.
5. Production management practicesmay include: fertiliser application, irrigation, cultivation, effluent management, pest and/or weed control, harvesting, grazing management.
6. Assessment Specifications for this achievement standard can be accessed through the Agriculture and HorticultureResources page found at [www.nzqa.govt.nz/ncea/resources](http://www.nzqa.govt.nz/ncea/resources).

**Special notes**

The environmental issues for 2018 is:

the use of water in agricultural / horticultural systems

Note that this may include:

o supply / availability of water to producers

o water quality issues.

Also note the Agricultural and Horticultural Science NZ Scholarship Assessment Specifications

**WATER SUPPLY AND AVAILABILITY OF WATER TO PRODUCERS**

Intensification of Primary Industry – agriculture and Horticulture and consequent HIGH DEMAND for LIMITED SUPPLY of CLEAN, high quality WATER

A Explain in detail the environmental issues arising from Primary management practice of the use of clean water

in Intensive Ag and Hort

Introduction WHAT IS THE ISSUE?

1. **Detailed explanation of** the **ISSUE** . This should include:
* Describe TWO examples : ONE Ag and ONE Hort that have a high demand for water resources

 e.g.irrigation used for pasture for milk production and orcharding – grapes, kiwifruit, pip and stone fruit, market gardening

Agriculture\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Horticuture\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Explain **in detail** why these TWO examples have a HIGH demand for water resources e.g. climatic-drought, 12 month supply of grass.

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Horticulture\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* What are the water FOOTPRINTS for these examples? See Powerpoint

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* Two case studies focusing on **Management practices** involved with water supply

 ONE : Agricultural (pasture for milk production) and ONE Horticultural (Kiwifruit)

***Include relevant and up to date data***

***Explain in detail techniques in water application for these two examples and state volumes required for litre/kilo/tray of production***

Agriculture\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. **Describe, in detail, sources of clean water in NZ**

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Describe how water resources are allocated in NZ ( See Irrigation Acceleration Fund), irrigation schemes

 e.g. Kerikeri and proposed Ruataniwha in Hawkes Bay e.g. water rights See table for irrigation stats for different crops

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* Efficient use of water resources (use Irrigation Acceleration Fund resource)

 1. Quantifying how much water is required;

 2. Identifying a reliable source of water;

 3. Assessing the hydraulic properties of the soil; and

 4. Determining how any irrigation should be applied.

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The supply and use of Water resources has a number of implications (both positive and negative). These can be grouped as:

 **Environmental** – those that affect our environment

 **Economic** – the ‘financial’ implications associated with supply and use of water resources for

 farmers, the local community and the country.

 **Social** - implications that affect people and communities during their daily lives.

 **Political** – The debate between BUSINESS / GDP and Conservation issues

Use the example of the Proposed Ruataniwha Irrigation Scheme in Hawkes bay **and** other water schemes in NZ **and** information from other resources supplied

In the spaces below, give examples of these implications.

**Examples of NEGATIVE environmental implications**

*At least THREE.*

**Examples of economic implications** (Positive and negative)

*At least THREE.*

**Examples of social implications in the wider community** (Positive and negative)

*At least THREE.*

**Examples of Political implications** (Positive and negative)

*At least THREE.*

**Examples of NEGATIVE environmental implications**

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 Justify a recommended course of action that New Zealand producers could implement to prevent or minimise the negative environmental impacts of your chosen issue. In your answer, you should:

explain how the recommended course of action prevents or minimises the negative environmental impacts of your chosen issue

explain relevant social and economic implications should New Zealand producers implement this course of action

compare the selected course of action with an alternative course of action that is available to New Zealand producers.

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**Resources**

Ruataniwha dam in Hawkes bay

www. STUFF.COM

Orchardist article June 2013

<http://www.stuff.co.nz/dominion-post/comment/8284436/Oram-Damming-conclusions-on-irrigation>

www.irrigationschemes.co.nz

Water footprint

Irrigation Acceleration fund

Irrig gets boost

Apple water footprint powerpoint

\ZESPRI quantifies kiwifruit water footprint