

3

91531



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA



SUPERVISOR'S USE ONLY

Level 3 Agricultural and Horticultural Science, 2014

91531 Demonstrate understanding of how the production process meets market requirements for a New Zealand primary product(s)

9.30 am Monday 10 November 2014

Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of how the production process meets market requirements for a New Zealand primary product(s).	Demonstrate in-depth understanding of how the production process meets market requirements for a New Zealand primary product(s).	Demonstrate comprehensive understanding of how the production process meets market requirements for a New Zealand primary product(s).

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 questions 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 2–12 in the correct order and that none of these pages is blank.

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

TOTAL



ASSESSOR'S USE ONLY

INSTRUCTIONS

This assessment requires you to answer questions relating to ONE **nationally significant** primary product, and how its production process meets the requirements of a **specific market**.

Before you select your primary product and its specific market, **carefully read** the rest of this page, and Questions One to Three, to ensure that your selections will allow you to meet the requirements of ALL questions.

Enter your selections in the box below.

Nationally significant primary product: _____ Specific market for the primary product: _____ _____
--

Growers follow a sequence of management practices in order to produce a product that meets the requirements of specific market opportunities.

Use the calendar below to list the key management practices used in the production of your selected primary product that help to meet the specific market requirements. To complete a calendar of operations for these management practices, use double-headed arrows (↔) to show **when** these practices are carried out.

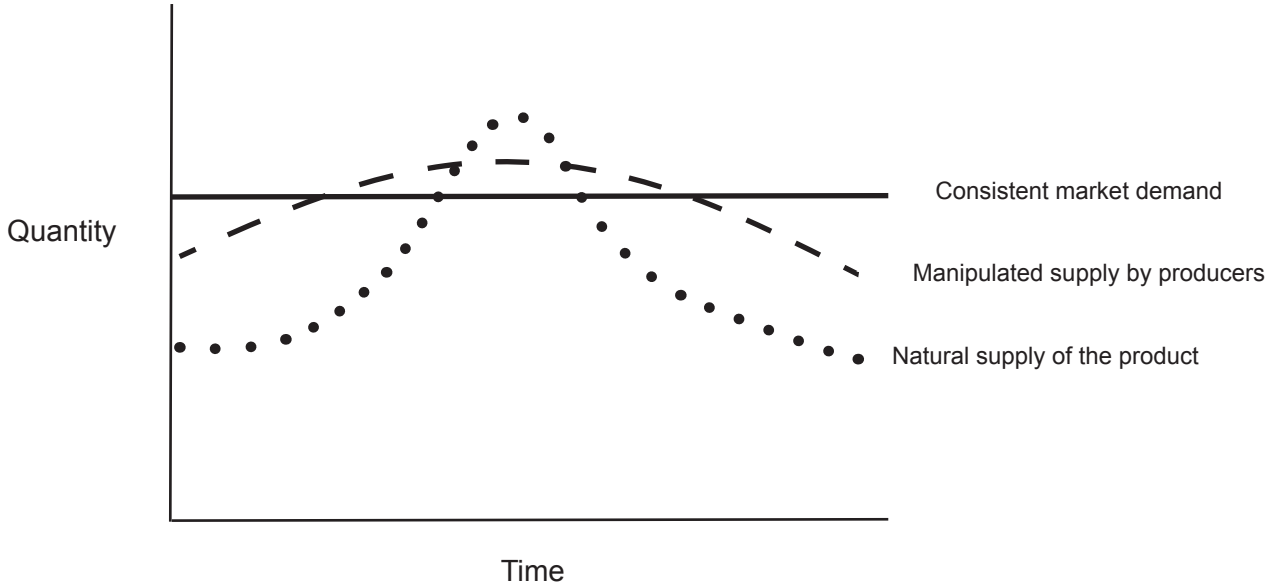
Reference to this calendar will be made in Questions One, Two, and Three.

Management practice	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

QUESTION ONE: Timing requirements

The graph below illustrates how the production of many agricultural and horticultural products have the timing of supply manipulated to meet a more consistent demand.

Comparison between the timing of supply of, and demand for, New Zealand primary products



(a) For the product you have selected, compare the natural timing of harvest with the market demand.

(b) Select ONE management practice from the calendar of operations on page 2.

Management practice: _____

Explain, in detail, how your selected management practice can affect the **timing** of harvest described in (a), during the production process.

- (c) Compare and contrast the manipulation of the management practice described in (b) with the manipulation of another management practice from the calendar on page 2.

Management practice manipulation (1) from part (b): _____

Management practice manipulation (2): _____

In your answer, discuss the relative impacts the two practices have on the timing of the supply of produce to the specified market.



QUESTION TWO: Consistency and uniformity requirements

 ASSESSOR'S
USE ONLY

Generally, uniformity implies there is consistency in the overall appearance, the quality, the size or the weight, the shape, or the colour of a product.

- (a) Describe your selected product's **consistency and uniformity** requirements to meet the market supplied. Use units and values, where appropriate, to help describe the requirements.

- (b) Explain, in detail, why the specified market has these requirements, and how the growers/producers are rewarded/benefited when meeting the requirements.

QUESTION THREE: Quantity requirements

- (a) For your selected primary product, describe the typical **volume** of product that can be expected at harvest, per hectare or per animal (eg tray/ cartons per hectare, kg of carcass weight).

- (b) Select TWO management practices from the calendar of operations on page 2.

Explain, in detail, how EACH of the two selected management practices can affect the **volume** (quantity) of product that can be expected at harvest. Specific volumes, and their units per hectare or per animal, are required where relevant.

Management practice (1): _____

Management practice (2): _____

ASSESSOR'S
USE ONLY

(c) Justify which of the two selected management practices detailed in (b) would have the greater impact on the **volume** harvested, compared with the other.

Lined writing area consisting of approximately 35 horizontal lines.

Small empty rectangular box at the bottom right of the page.

