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| Title | Monitor levels of pest and beneficial organisms in fruit crops and act at preset threshold levels | | |
| Level | 4 | Credits | 3 |

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| Purpose | This unit standard is for people working in any kind of fruit production. People credited with this unit standard are able to: recognise named pests, diseases, and beneficial predatory or parasitic organisms for a specific fruit crop; monitor organism numbers; and select agrichemicals to rectify an imbalance in the pest-to-predator or -parasite ratio. |
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| Classification | Horticulture > Fruit Production |
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| Available grade | Achieved |
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Guidance Information

- 1 *Orchard practice* means work practice guidelines which meet the requirements of the Health and Safety in Employment Act 1992, other regulatory requirements, and their subsequent amendments.
- 2 *A specific fruit crop* is one kind of commercial fruit crop. For example, apples, pears, kiwifruit, oranges, avocados.

Outcomes and performance criteria

Outcome 1

Recognise named pests, diseases, and beneficial predatory or parasitic organisms for a specific fruit crop.

Performance criteria

- 1.1 Six pests that could affect a specific fruit crop, and three beneficial organisms that could predate or parasitise the pests, are recognised at different stages of their life cycle.
- 1.2 Signs or symptoms of six diseases of a specific fruit crop are recognised and the disease named at different stages of its life cycle.

Outcome 2

Monitor organism numbers.

Performance criteria

- 2.1 Disease signs or symptoms are counted on random plants, and are reported when numbers reach a stated threshold level.
- 2.2 Pheromone traps are monitored and cleaned according to orchard practice, and when a threshold number of specific insects are caught, that is reported and recorded according to orchard practice.
- 2.3 Random samples or leaves are examined, specific species of pest and predator or parasite are counted, and, as required by orchard practice, when specific pest numbers are reached or the pest-to-predator, or -parasite ratio slips beyond a stated point, that fact is reported.

Outcome 3

Select agrichemicals to rectify an imbalance in the pest-to-predator or -parasite ratio.

Performance criteria

- 3.1 Agrichemicals injurious to named beneficial insects are recognised, and alternatives, non injurious to those insects, are suggested.
- 3.2 Agrichemicals, application rates, timing, and withholding periods are suggested to redress the balance between pests and parasites or predators, or to reduce any potential disease problem.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|--------------|---------|-------------------|--------------------------|
| Registration | 1 | 1 February 1994 | 31 December 2013 |
| Review | 2 | 28 November 1997 | 31 December 2013 |
| Revision | 3 | 19 July 2001 | 31 December 2013 |
| Revision | 4 | 24 February 2006 | 31 December 2015 |
| Review | 5 | 18 August 2011 | 31 December 2015 |
| Rollover | 6 | 17 October 2013 | 31 December 2015 |
| Rollover | 7 | 17 September 2015 | 31 December 2019 |
| Rollover | 8 | 26 September 2019 | 31 December 2020 |

Consent and Moderation Requirements (CMR) reference

0032

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.