
APICULTURE
**Plan, manage beehives for, and
evaluate, pollination programmes**

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| level: | 4 |
| credit: | 9 |
| final date for comment: | October 2007 |
| expiry date: | December 2008 |
| sub-field: | Agriculture |
| purpose: | People credited with this unit standard are able to: plan pollination programmes; manage beehives for pollination programmes; and evaluate pollination programmes. |
| entry information: | Open. |
| accreditation option: | Evaluation of documentation and visit by NZQA, industry and teaching professional in the same field from another provider. |
| moderation option: | A centrally established and directed moderation system has been set up by the Agriculture Industry Training Organisation. |
| special notes: | <ol style="list-style-type: none">1 Legislation to be complied with includes but is not limited to the – Health and Safety in Employment Act 1992, and subsequent amendments.2 Definitions <i>In-house procedures</i> - the verbal and written instructions to staff on procedures for planning, managing hives for pollination, and evaluating pollination programmes, and must comply with legislative requirements. <i>Apiary</i> – a collection of beehives. |

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- 3 In the context of this unit standard, *pollination programmes* are those implemented for situations such as field crops and orchards.

Elements and Performance Criteria

element 1

Plan pollination programmes.

performance criteria

- 1.1 The factors determining suitability of beehives for pollination are identified in accordance with in-house procedures and the crop or orchard to be pollinated.
- 1.2 The numbers of beehives for a pollination programme is calculated in terms of land area, crop or orchard, and climatic conditions, and compared with grower recommendations.
- 1.3 Apiary sites are identified for suitability.
- Range: terrain, land marks, clean water, the potential for maximising pollination, potential spray drift, presence of irrigation, proximity of crop.
- 1.4 On-farm operations at apiary sites are described in terms of their compatibility with the pollination program.
- Range: includes but is not limited to - spraying programmes, reduction of competing plants, integrated pest management (IPM), irrigation, livestock, vehicle access, fences, natural vegetation.

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element 2

Manage beehives for pollination programmes.

performance criteria

- 2.1 Beehives are manipulated in preparation for shifting into crop or orchard for pollination in accordance with in-house procedures.
- Range: includes but is not limited to – queen check, disease check, feeding, adding or removing supers.
- 2.2 Beehives are introduced and removed to maximise the potential for pollination in the crop or orchard.
- 2.3 Beehives are sited to maximise the potential for pollination in the crop or orchard.
- 2.4 Beehives are monitored and manipulated during the pollination programme to maximise the potential for pollination in the crop or orchard.
- Range: pollen traps, adding or removing supers, disease check, feeding supplements.

element 3

Evaluate pollination programmes.

performance criteria

- 3.1 The crop or orchard is monitored during the pollination period in relation to weather and other competing flora in accordance with in-house procedures.
- Range: monitoring includes - bee visitations, flower attractiveness.

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- 3.2 The crop or orchard is evaluated in terms of the percentages of flowers pollinated and fertilised.
- 3.3 The results of the monitoring and evaluation are recorded for future use in accordance with in-house procedures.

Comments on this unit standard

Please contact the Agriculture Industry Training Organisation standards@agricultureito.ac.nz if you wish to suggest changes to the content of this unit standard.

Please Note

Providers must be accredited by the Qualifications Authority or a delegated inter-institutional body before they can register credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for providers wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is covered by AMAP 0052 which can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.