

Module 4

Orchard Production Standard

Incorporates:

- Perennial orchard crops
- Perennial bush crops
- Perennial vine crops
- Tree crops
- Berries (excluding strawberries)

This document replaces the BIO-GRO New Zealand Organic Standards, 30 April 2001: Module 4.1

The reasons for change are:

- regular review required under IFOAM accreditation;
- incorporation of notified changes since the 30 April 2001 Standards were published;
- incorporation of other changes required for ongoing compliance with the IFOAM Basic Standards, the NZFSA OOAP, and overseas market regulations;
- organic production systems are continuously evolving.

This document may be altered at any time. It was current at the date in the header of each page of the document. It is recommended that anyone intending to use this document contact BioGro or check the BioGro website www.biogro.co.nz to confirm that this is the current version.

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1 Scope and purpose

This BioGro Standard contains the production requirements and audit criteria for the certification and licensing by BioGro of producers of organic perennial orchard crops, bush, vine and tree crops, and berries (excluding strawberries) to use the BioGro trademarks and logos.

This BioGro Standard specifies the production requirements and audit criteria that must be met by:

- producers of organic fruit, berries, and nuts certified by BioGro, and
- producers of organic fruit, berries, and nuts licensed by BioGro to use the BioGro trademarks and logos.

All fruit, berries, grapes, and nuts bearing the BioGro trademark are produced in compliance with this Standard.

Information on BioGro, applying for certification, and the use of the BioGro trademark/logo can be obtained from Module 1 Introduction and Module 3 Certification System. Information on the BioGro requirements for processing and distribution of organic produce can be obtained from Module 13 Processing Standard and Module 14 Distribution Standard.

The audit checklists (available on request from BioGro) may be used for self-audits in preparation for audits by BioGro.

2 Definitions

The BioGro definition of terms can be found in the BioGro Standards Module 2 Glossary of Terms.

3 Production specifications

This section specifies the guiding principles, recommendations and requirements of the BioGro Standard for certified organic orchard production.

3.1 Soil and fertility

3.1.1 Guiding principles

Organic orchard production systems must aim to sustain and enhance the fertility and life-supporting ability of the soil, including its biological, physical and chemical components. Emphasis must be placed on the importance of soil organic matter, and soil flora and fauna, and on achieving cycles and flows of nutrients and organic matter which will conserve and enhance soil fertility and humus.

3.1.2 Recommendations

- a. Soil organic matter and soil structure are of paramount importance, and should be maintained and enhanced by using any or all of the following:
 - i. composts and mulches;
 - ii. living mulches (especially leguminous);
 - iii. green manure crops;
 - iv. herbal leys;
 - v. grazing by livestock; and
 - vi. sympathetic sward management techniques.
- b. For intensive fruit production systems the use of compost is highly recommended but must be managed carefully to ensure that storage and use does not lead to pollution of soil or water by leaching.
- c. Grazing and ranging by livestock such as cattle, sheep, pigs, and poultry, should be managed in ways that enhance soil structure and fertility. Refer Module 5 Livestock for the requirements for management of livestock on certified properties.
- d. Mineral, foliar, and liquid fertilisers should be regarded as supplementary to, not a substitute for, nutrients cycled via organic matter return. Note that mineral fertilisers allowed by BioGro generally require assimilation by soil or compost organisms before the nutrients can be taken up by plants.

3.1.3 Requirements of the Standards

a. Soil testing

Regular soil testing, as specified below, is required to:

- i. monitor fertility levels to ensure that the overall fertility of orchard soils is maintained and enhanced; and/or
- ii. determine whether mineral supplementation is necessary and appropriate; and/or
- iii. determine the need for restricted fertilisers.

Herbage/foliar testing may also be used to evaluate the need for nutrients such as trace minerals, but is not an alternative to soil tests.

Soil test(s) from at least one productive area on the orchard are required annually for C0, C1, and C2 properties. Annual tests thereafter are not obligatory, but may be required at the auditor's discretion if there are concerns regarding fertility levels.

Soil and herbage/foliar testing must be carried out under an ISO 17025 accredited laboratory test, where available. If an ISO 17025 accredited laboratory test is not available for that type of test, then BioGro written approval for the test to be carried out is required for acceptance under these standards.

b. Organic matter

Soil tests must always include tests for organic matter levels.

c. Soil health

After the commencement of organic management, measures of biological fertility and soil structure must show either good or generally improving levels of these soil parameters.

d. Composts and Vermicasts

Composts and vermicasts may be made on the orchard or purchased from BioGro certified/ approved sources. Composts and vermicasts made on the orchard must be made from ingredients sourced from certified properties and/or ingredients selected in compliance with the BioGro Compost Guide. Compost made on the orchard must have heated, been aerated and mixed, matured sufficiently, and have been produced in compliance with the requirements of the BioGro Compost Guide. Vermicasts made from low risk ingredients approved by BioGro do not have to go through a heat process.

Management of composts must comply at all times with the requirements of the local authority.

e. Leaching

Leaching losses from stored and applied composts must be actively minimised.

f. Nitrogen rates

Application rates of compost along with other fertiliser additions must not lead to excessive levels of available nitrogen. Nitrogen applied through the use of approved composts and foliar fertilisers should be no more than that required for the current crop, and as a guide should not exceed 170 kg nitrogen per hectare per year.

g. Raw manures

With the exception of a certified property's own dairy or pig effluent from the certified area and certified livestock, raw animal manures must not be applied directly to soils. Raw animal manures (including those from the certified property if collected) must be hot composted before use, refer BioGro Compost Guide.

h. Sewage by-products

Sewage sludge or bio-solids are prohibited and must not be applied directly, or used as an ingredient in composts.

i. Industrial by-products

Food and textile industry by-products of biodegradable material, i.e. of microbial, plant, or animal origin, free of synthetic additives, may be used provided they are hot composted, refer *BioGro Compost Guide*.

j. Mulches

Where available, mulch materials must be sourced from certified farms. If certified mulches are not available, mulches from conventional sources may be used subject to the following:

- i. they must not have had any prohibited substances applied directly to them; and
- ii. documentation must be obtained from the producer to confirm this; and
- iii. they must have BioGro approval prior to purchase; and
- iv. residue tests may be required.

k. Management of green manure crops and sward

- Green manure crops and the sward must be managed to maintain and enhance the overall
 fertility of the orchard soils as evidenced by soil nutrient tests, soil organic matter tests,
 and evaluation of biological fertility.
- ii. In intensive orchard systems, green manures and sward mowings must not be removed from the orchard unless they are used to make compost that is returned to the orchard.
- iii. Damage to soil structure and soil compaction during orchard work must be avoided by using appropriate equipment, machinery and timing.

l. Biological activators

The following biological activators are allowed providing the product formulations are certified/approved by BioGro:

- i. bio-dynamic preparations; available from the Bio-Dynamic Farming and Gardening Association and other BioGro certified/approved suppliers;
- ii. microbial activators; and
- iii. plant-based preparations.

m. Permitted fertilisers

Refer Appendix B.

n. Restricted fertilisers

Refer Appendix B.

o. Fertiliser supply

Permitted and restricted fertilisers should be obtained from a BioGro certified/approved supplier where available locally. If not, then every effort must be made and documented to ensure that any brought-in materials comply with all requirements of the BioGro Standards. If fertilisers are not obtained from a BioGro certified/approved supplier then particular attention must be paid to potential contamination at source or during storage and transport by prohibited fertilisers, heavy metals, pesticides, animal health remedies, and other prohibited materials.

p. Liquid fertilizers including vermicast liquids and compost teas

Liquid fertilisers may be made on the farm or BioGro certified/approved products may be used. If liquid fertilisers are made on the farm then evidence must be provided that all ingredients comply with the requirements of this Standard and are not contaminated with prohibited materials.

q. Sewage

Manures containing human excrement, i.e. faeces and urine, are prohibited, and may not be brought onto the property or used as a compost ingredient.

r. Miscellaneous fertilisers

All other materials for fertilisation and soil conditioning must be certified/approved by BioGro prior to use, refer Module 22 Procedure for Evaluation of Inputs.

s. Thermal sterilisation

Thermal sterilisation of soils must have BioGro's written approval prior to use.

t. Burning Vegetation

Land preparation by burning vegetation must be restricted to the minimum.

u. Salinization

Relevant measures must be taken to prevent or remedy soil and water salinization.

3.2 Water supply and irrigation

3.2.1 Guiding principles

Water is regarded as a scarce resource. Careful management of irrigation is required to enhance the quality of both the soil and crops, whilst minimising any potential adverse effects on the environment.

3.2.2 Recommendations

- a. Water sources should be chosen to ensure adequate supplies of uncontaminated water, and where necessary water purity tests should be carried out.
- b. Irrigation systems should be chosen which
 - i. provide sufficient water to satisfy soil and crop needs only;
 - ii. avoid over-watering, leaching, or water-logging; and
 - iii. ensure the taking of this water does not cause adverse effects on any associated surface or groundwater ecosystem.

3.2.3 Requirements of the Standards

a. Water source purity

Where there is potential contamination, e.g. the catchment area includes conventional horticulture, then proof must be provided annually that irrigation water is not contaminated with any restricted or prohibited materials. Refer to Appendix A: Residue Levels in Certified Products, Water, Soil and Composts.

b. Catchment

Information must be supplied to BioGro describing the catchment area and detailing any likely contamination of water sources with prohibited materials.

c. Optimal watering

Irrigation systems must be efficient and effective in supplying orchard needs. Soil and orchards must not exhibit signs of excessive irrigation, namely over-watering, leaching or waterlogging.

d. Monitoring water

Optimum water use strategies must be demonstrated and supported by an appropriate method of monitoring.

e. Regional plan and resource consents

Water supplies and usage must meet the requirements of the Regional Plan, and where required have a current resource consent.

f. Temporary irrigation systems

Temporary irrigation systems, such as plastic driplines, must be removed after use.

3.3 Tree/vine/bush establishment and management

3.3.1 Guiding principles

Good yields of high quality fruit will be produced with minimal external intervention where fruit types, varieties and strains are grown that are best suited to the region, the property, and organic production, and also where positive organic management systems are in place.

3.3.2 Recommendations

- a. Select fruit types that best suit the region and the property.
- Select varieties and strains that best suit organic production and therefore minimise the likelihood of weed, pest and disease problems.
- c. Where available use organically grown seed and plants.
- d. Select strains that are suited to organic production and where selection for resistance and tolerance to disease has been carried out.
- e. Reduce the likelihood of pest and disease problems by using pruning and training systems that enhance plant health.

3.3.3 Requirements of the Standards

a. Plan to trial alternatives

If weed, pest or disease problems are prevalent on the orchard then there must be a documented plan to trial alternative fruit types, varieties, and strains that have resistance and tolerance to those problems.

b. Seeds, seedlings and vegetative propagative materials

Certified organic seeds, seedlings or vegetative propagative materials must be used where available.

- i. If certified organic seed or vegetative propagating material is unavailable, then seed and vegetative reproductive material may be taken from a mother plant (in the case of seeds) and a parent plant (in the case of vegetative propagating material) which have been produced under certified conversion to organic production for at least one generation, or in the case of perennial crops, for two growing seasons.
- ii. If neither full or conversion seeds, seedlings or vegetative propagative materials are available then conventional sources may be used provided they are not treated with any prohibited materials and the supplier has provided a written guarantee to confirm this.
- iii. Seed treated with prohibited materials may not be used unless prior written approval has been received from BioGro. If a certified grower is unable to source untreated seed for the required varieties and wishes to use treated seed then they must apply in writing to BioGro for prior written approval. Written documentation must be supplied for:
 - evidence of the unsuitability of other varieties;
 - · evidence of the unavailability of untreated seed; and
 - the cleaning procedure which will be used for the treated seed.

Note that seeds treated with prohibited materials can not be used under any circumstances for some export crops.

iv. Genetically engineered varieties and seeds are expressly prohibited.

c. Grafting wood, grafting waxes, and nursery trees

The following may be used with no loss of certification on the tree, land, or crop:

- Grafting wood which is sourced from BioGro certified trees;
- Grafting waxes (based on beeswax etc) which are BioGro certified;
- BioGro certified nursery trees.

Use of non-certified grafting wood, non-certified grafting waxes (such as those based on petroleum jelly), and non-certified nursery trees can be considered by BioGro on a case by case basis, under the following conditions:

- i. Application for approval must be made to BioGro in writing listing:
 - The identification of the block(s) to be grafted or planted, the current variety(s), and the number of trees or area to be grafted or planted;

- The variety(s) to be grafted or planted and the source of the grafting wood or nursery trees;
- Proof that grafting wood from BioGro certified properties or BioGro certified nursery trees are not available in satisfactory quality and quantity.

Note that BioGro may be required to obtain approval from NZFSA or another export authority to allow non-certified grafting wood or nursery trees;

- If grafting, then any grafting waxes and other treatments which are to be used.
- ii. The grafted or planted trees, the land they are on, and any crop from those trees, all lose certification for at least one year.

Some markets may specify loss of certification for a longer period of time.

d. Thermal sterilisation

Thermal sterilisation of potting mixes requires prior written approval from BioGro.

e. Pollination

Beehives sited on the certified property, or brought onto the certified property for pollination of crops or other purposes, must not normally contain prohibited treatments for pests and diseases, refer Module 7 Honey and Bee Products Production Standard and Appendix B: Permitted and Restricted Materials and Practices for allowed treatments. If the allowed treatments will not give adequate control of varroa mite then hives brought onto the certified property specifically for pollination of a crop(s) and for a limited period of time to cover the flowering period only, may contain prohibited treatments for varroa mite.

f. Artificial pollination

Artificial pollination is a restricted practice and requires prior written approval from BioGro, refer form *Application for use of Restricted Inputs*. BioGro certified/approved pollen must be used.

g. Treated timber

Use of timber treated with arsenate and/or other prohibited materials is a restricted practice and requires BioGro written approval. All alternatives must be evaluated first.

Note that properties producing certified products to be exported to US (including products which will be ingredients of processed products to be exported to US) must comply with the USDA National Organic Program (NOP) requirements for treated timber.

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3.4 Sward

3.4.1 Guiding principles

Organic orchard production systems should be designed so that the sward protects and enhances the soil, and so that there is minimal need for intervention to control weeds while ensuring that weed competition does not significantly reduce yields or fruit quality.

A mixed sward including flowering plants is a vital part of the orchard diversity.

3.4.2 Recommendations

- a. Establish and maintain a sward which contains a wide variety of species, especially leguminous plants and umbelliferous plants.
- b. Weed control depends on timely management techniques, including some or all of the following:
 - i. mowing;
 - ii. allelopathic green manure crops;
 - iii. the use of mechanical, hand or thermal methods;
 - iv. mulches;
 - v. living mulches; and
 - vi competition from the orchard crop or undersown species.
- c. Minimise the use of machinery for sward management to reduce damage to soil structure and soil compaction.

3.5.2 Requirements of the Standards

a. Sward density

The sward must be diverse and include flowering plants that attract beneficial insects. They must be managed under a minimal mowing regime to encourage sustained flowering.

b. Seeds, seedlings and vegetative propagative materials

Seeds, seedlings and vegetative propagative materials for green manure crops, sward establishment or general orchard enhancement must be sourced in compliance with section 3.3.3 b. of this Module.

c. Weed management plan

If weed problems are prevalent on the orchard, then a documented plan must be in place to remedy these problems.

d. Mechanical and thermal weed control

Mechanical and thermal weed control techniques, such as flame weeding, are permitted. Cultivation of bare soils for weed control must be minimised in order to protect those soils.

e. Biological control

The introduction of biological controls and the use of approved bio-dynamic preparations for weed control is permitted.

f. Plastic and reflective mulches

Plastic and reflective mulches are permitted, but must be retrieved after use, and must not be burnt. Only plastic products based on polyethylene, polypropylene and polycarbonates are allowed.

g. Mulches

Mulches from conventional sources must be approved by BioGro prior to use, refer section 3.1.3 j. of this Module.

h. Herbicides

Chemical/synthetic herbicides are expressly prohibited.

i. Solarisation

Solarisation to control difficult perennial weeds is a restricted practice and requires prior written approval from BioGro.

j. Grazing by livestock

Refer Module 5 Livestock for the requirements for management of livestock on certified properties.

3.5 Pest and disease management

3.5.1 Guiding principles

Internal balance and stability of an organic system will be achieved by fostering the beneficial processes and interactions that occur in natural ecosystems, thereby minimising reliance on external control measures.

Organic orchard production systems should be designed to minimise the need for intervention to control pests and diseases while ensuring that pest and disease damage does not significantly reduce yields or fruit quality.

Inputs used for pest and disease management should work in conjunction with natural cycles rather than trying to dominate those cycles.

Deleterious environmental effects of particular management practices must be minimised, including any that may reduce natural diversity to the detriment of plant and wildlife habitats.

3.5.2 Recommendations

- a. Minimise pest and disease problems by creating a healthy soil, encouraging beneficial fauna, and using good husbandry practices.
- b. To reduce the likelihood of disease problems, select crops, varieties and strains that best suit the region and the orchard.
- c. To reduce the likelihood of disease problems, use pruning and training systems that allow light and air to penetrate.
- d. Protect and encourage the natural enemies of pests through provision of favourable habitats, i.e. sward, hedges and shelterbelts, rough grass areas, nesting sites etc.
- e. Pest control in organic production depends on building an environment based on a natural balance through establishing floral and faunal diversity.
- f. Where intervention is required, introduced biological controls should be used in preference to permitted or restricted sprays, provided pest presence levels meet market and export phytosanitary requirements.

3.5.3 Requirements of the Standards

a. Pest management plan

The documented pest management plan for the orchard must be based on biological control through encouragement of a natural balance and where required the introduction of predators and parasites.

b. Resistant varieties

If disease problems are prevalent on the orchard then there must be a documented plan to trial alternative crops and varieties that have resistance and tolerance to those diseases.

c. Preventative management

The orchard pruning, training and crop management systems must be designed to reduce the likelihood of pests and diseases.

d. Habitats

Suitable habitats, such as wild and flowering areas, for the natural enemies of pests must be present on the orchard.

e. Mechanical controls

Mechanical controls, e.g. traps, barriers, sound scares, lures, etc., are permitted.

f. Permitted materials

Refer Appendix B.

g. Restricted materials

Refer Appendix B.

h. Prohibited materials

All synthetic pesticides not listed as allowed in these Standards are prohibited.

i. Thermal sterilisation

Thermal sterilisation of potting mixes and soils requires prior written approval from BioGro.

3.6 Harvesting, packing, storage and transport

3.6.1 Guiding principles

Crops should be harvested in ways that protect the orchard soils.

All stages of harvesting, packing, storage and transportation must be managed to ensure maintenance of the crop's organic integrity.

The crop should be harvested, packed and stored in ways that will maintain maximum nutritional value.

3.6.2 Recommendations

- a. Harvest in a way that minimises damage to soil structure.
- b. The organisation of harvesting and post harvest management must protect the crop's integrity to maintain and enhance the value of the BioGro trademark. The storage and transport of produce must ensure no contamination by uncertified produce and/or restricted or prohibited materials.
- c. Harvest at a time that maximises the quality and nutritional value of the crop. Relevant industry best practice codes for harvesting and handling should be complied with.

3.6.3 Requirements of the Standards

a. Harvesting

Containers, gloves, harvesting equipment, and machinery used for harvesting certified crops should be dedicated to organic use only. If machinery is also used for harvesting conventional crops then it must be cleaned according to a BioGro-approved procedure prior to entering the certified area. The cleaning must ensure that:

- i. certified produce can not be contaminated; and
- ii. plant material and soil from a conventional property are not brought onto the certified property.

b. Staff awareness

All harvesting staff must be aware of the need to maintain the integrity of certified organic produce and following agreed procedures to ensure this.

c. Cleaning

Any washing, packing, and processing of produce must be in:

- i. equipment dedicated to organic produce; or
- ii. equipment that is able to be cleaned according to BioGro-approved procedures and cleaning materials. If cleaning by hand is insufficient, then air-blasting, water-blasting, steam cleaning, or flushing with potable water, will be required.

d. Washing water

Water used for washing produce must be of potable quality.

e. Storage

Produce in storage must be protected from contact with all prohibited and restricted materials. Where uncertified produce or produce of different certification status is also stored there then:

- i. containers must be clearly marked as organic with the certification status of the produce; and
- ii. segregation from uncertified produce or produce of a different certification status must be guaranteed; and
- iii. staff must be aware of the organic status and the certification status of the produce and following agreed procedures to ensure the above.

f. Permitted pest control materials

The following pest control methods are permitted for packing and storage facilities:

- i. high pressure water;
- ii. controlled atmosphere, e.g. airtight store with carbon dioxide or nitrogen;
- iii. quick-freezing;
- iv. heat treatment; and
- v. forced air circulation.

g. Restricted pest control materials

The use of pyrethrum is restricted and must have prior written approval by BioGro. The use of the permitted pest controls listed above must be fully explored before the use of pyrethrum can be considered. Pyrethrum products used can not contain the synergist piperonyl butoxide.

h. Rodent control

Prior approval must be obtained from BioGro for use of chemical/synthetic materials. This must be by the use of bait stations, and the bait stations must be outside food handling areas.

i. Transportation

During any transport of produce away from the certified area, its integrity must be protected:

i. Where there is a risk of airborne contamination then containers must be sealed or covered or transported in enclosed or curtain-sider vehicles.

- ii. Containers must be clearly marked as organic, and labelled with the grower's name and BioGro number, and the name and organic status of the produce.
- iii. Segregation from uncertified produce and produce of a different status must be guaranteed.
- iv. Drivers and staff involved in loading and unloading, must be aware of the importance of the organic integrity of the produce.

j. Parallel production

Where parallel harvesting, storage and transport occurs special attention must be directed to:

- i. The identification of certified produce to distinguish it from produce that is uncertified or is of a different certification status, using such things as different colour bin cards.
- ii. The separation distances between certified produce (including between produce of different status), and uncertified produce.
- iii. The keeping of records to enable traceability.
- iv. Staff awareness of the need to maintain the integrity of the certified produce.

k. Packaging

Packaging must:

- i. be materials that will prevent contamination of the product;
- ii. use compliant labelling;
- iii. protect the contents from damage; and
- iv. optimise the ongoing quality of the produce.

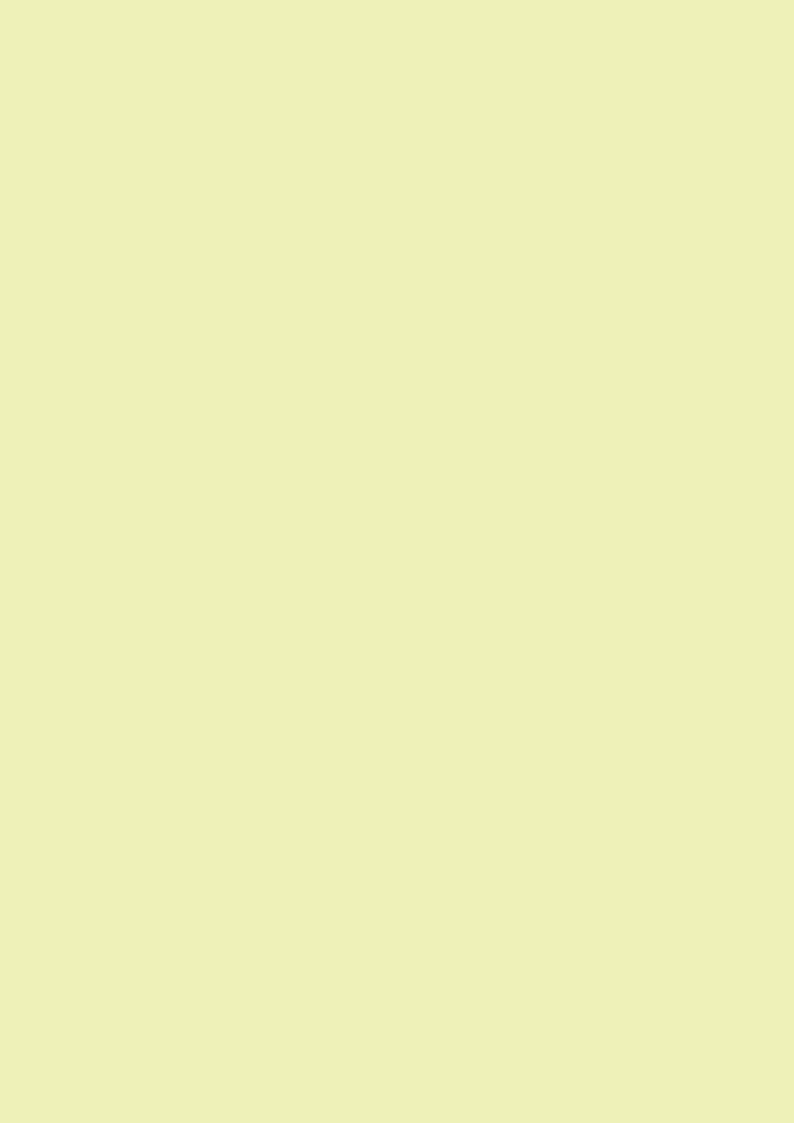
Packaging must comply with the requirements of Module 14 Distribution Standard section 4.5.1.

l. Distribution and retail

Licensees responsible for distribution and/or retailing of their own produce must ensure that the produce is correctly labeled in compliance with Module 3 Certification System Sections 4.3.1, 4.4.1, 4.5, 7.8 and Module 14 Distribution Standard Section 4.8.2.

m. Ripening

Ethylene gas is permitted for ripening of kiwifruit.





BioGro New Zealand Limited

Level 9, 75 Ghuznee Street, PO Box 9693, T: +64 4 801 9741 info@biogro.co.nz

Marion Square, Wellington 6141, New Zealand. F: +64 4 801 9742 www.biogro.co.nz