

NEW ZEALAND PLANT VARIETY RIGHTS OFFICE

TECHNICAL QUESTIONNAIRE

To be completed in connection with an application for plant variety rights -

APPLE (*Malus Mill.*)

1. Owner of variety:

2. Proposed denomination or breeder's reference:

3. Information on origin and reproduction of the variety:

a) Method of breeding or selection (tick appropriate box and give variety name(s) if relevant) -

Seedling of unknown parentage

Produced by controlled pollination

Seed bearing parent _____

Pollen parent _____

Produced by open pollination of _____

Mutation or sport from _____

(b) *In vitro* propagation

The plant material has been obtained by *in vitro* propagation: Yes No.

- Polliniser. Good pollinisers are the following varieties: _____

- Virus status. The variety is:

virus free

virus tested (indicate against which virus)

virus status is unknown

c) Other information -

4. Characteristic of the variety (mark the state of expression which best corresponds) –

- a) Tree: type -
 columnar (Wijcik)
 ramified
- b) Tree: habit - (ramified varieties only)
 upright
 spreading
 drooping
 weeping
- c) Fruit: general shape -
 cylindrical waisted
 conic
 ovoid
 cylindrical (Gravenstein)
 ellipsoid
 globose
 obloid
- d) Fruit: relative area of over colour -
 absent or very small (Granny Smith)
 small (Cox's Orange Pippin)
 medium (Gala)
 large (Joburn)
 very large (Galaxy)
- e) Fruit: hue of over colour (bloom removed) -
 orange red (Cox's OrangePippin)
 pink red (Cripps Rink)
 red (Regal Prince)
 purple red (Spartan)
 brown red (Joburn)
- f) Fruit: pattern of over colour -
 only solid flush (Regal Prince)
 solid flush with weakly defined stripes (Galaxy)
 solid flush with strongly defined stripes (Jonagored)
 weakly defined flush with strongly defined stripes
 only stripes (no flush) (Royal Gala)
 flushed and mottled
 flushed, striped and mottled
- g) Fruit: width of stripes -
 narrow (Eden)
 medium (Royal Gala)
 broad (Baigent, Caudle)
- h) Time of beginning of flowering (10% open flowers) -

very early
 early
 medium (Cox's Orange Pippin)
 late
 very late

- i) Time of eating maturity -
 very early
 early (Sunrise)
 medium (Golden Delicious)
 late (Fuji)
 very late (Granny Smith)

- g) Other characteristics of the variety -

5. Similar varieties and differences from these varieties:

Denomination (s) of variety(ies) similar to yours	Characteristic(s) (eg plant height) in which the similar variety differs from yours	Describe the expression of the characteristic(s) for the similar variety (eg short)	Describe the expression of the characteristic(s) for your variety (eg tall)

6. Additional information which may help distinguish the variety:

a) Resistance to pests and diseases -

b) Special conditions for the examination of the variety -

c) Other information -

7. *The work of PVR evaluation of trees is normally conducted by the Cultivar Centre (CC) at Havelock North by arrangement between the applicant and the Centre. To make arrangements contact:*

*The Manager
Cultivar Centre
C/o HortResearch
Private Bag 1401
HAVELOCK NORTH*

Tick the appropriate box:

- I have arranged for the variety to be tested by the CC.
- I intend to arrange for the variety to be tested by the CC.
- I propose/wish to discuss an alternative way of evaluating trees for PVR.
Give details:

8. If the variety is from overseas complete this section. Tick the appropriate box:

- Plant material has been released in New Zealand from quarantine.
- Plant material is in New Zealand plant quarantine and should be released on _____
- Plant material has not yet been imported into New Zealand.

If so when do you expect importation to occur: _____

9. Authorisation for release

- (a) Does the variety require prior authorisation for release under legislation concerning the protection of the environment, human and animal health?

Yes [] No []

- (b) Has such authorisation been obtained?

Yes [] No []

If the answer to (b) is yes, please attach a copy of such an authorisation.

Note: Colour photographs must be supplied at application. The following are the requirements that apply.

Supply colour prints of minimum size 15 cm x 10 cm, not slides. Photographs should be of good quality and in duplicate. They should be representative of the variety and display as well as possible its chief distinguishing feature (s). The photographs may be of the whole plant of the new variety and/or of plant parts such as the fruit or the flowers, whichever is most appropriate. Do not supply photographs of the original bred or discovered plant of the variety, or in the case of a new mutation or sport the plant part from which the variety originated. Instead you should supply photographs based upon plants or trees propagated from the original plant or plant part.

Signature: Date: