



# New Certification Scheme for Raspberries

**Alison Dolan**



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# Industry benefits from a Certification Scheme

- Provide fruit producers and propagators with planting material of a known health standard, vigour and purity
- Provide a means of preventing the spread of harmful pests and diseases
- Health of stocks are maintained by:
  - regular introduction of pathogen tested material
  - unbroken history of certification
  - limiting the time that stocks can remain eligible for certification



# *Rubus* Certification in the UK



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- The James Hutton Institute is the sole UK source of *Rubus* high health plant material entering the UK Certification Scheme.



# Plant Pathogen Regulatory Schemes

- JHI Plant Health Declaration
- UK Certification Scheme
- Scotland - Rural and Environmental Science and Analytical Services (RESAS)
- England and Wales – Plant Health Propagation Scheme (PHPS)
- Europe - European and Mediterranean Plant Protection Organisation (EPPO)

## DECLARATION OF PATHOGEN INDEXING PROCEDURE FOR PATHOGEN-TESTED (PT) *Rubus* MATERIAL SUPPLIED FROM THE JAMES HUTTON INSTITUTE

Material is derived from mother plants that originated from symptomless plants, pathogen-tested and found in these tests to be free from :-

1. Viruses transmitted by mechanical inoculation of sap to herbaceous test plants. This includes the following viruses found infecting *Rubus* : Apple mosaic, Arabis mosaic, Bramble yellow mosaic, Cherry leaf roll, Cherry rasp leaf, Cucumber mosaic, Raspberry bushy dwarf, Raspberry ringspot, *Rubus* Chinese seed-borne, Strawberry latent ringspot, Tobacco ringspot, Tobacco streak, Tomato black ring, Tomato ringspot and Wineberry latent.
2. Viruses detectable by graft inoculation to the indicator, *R. occidentalis* (see below).
3. The root-rot fungus, *Phytophthora rubi*, as assessed by nested PCR.

The mother plant material has subsequently been kept in aphid-proof gauze houses in soil-less compost and given regular applications of insecticide. Regular tests have failed to detect :-

- a. Symptoms of Raspberry veinbanding mosaic, Raspberry yellows and *Rubus* stunt diseases and symptoms induced by American leaf curl, Raspberry leaf mottle, Raspberry leaf spot, Raspberry vein chlorosis and Raspberry yellow spot viruses.
- b. Raspberry bushy dwarf virus as assessed by ELISA.
- c. American raspberry leaf curl, Black raspberry necrosis, Raspberry leaf mottle, Raspberry leaf spot, Raspberry yellow spot, *Rubus* yellow net and Thimbleberry ringspot viruses as assessed by graft inoculation to *R. occidentalis*.
- d. *Phytophthora rubi*, as assessed by nested PCR.

The material supplied has been propagated from this mother plant material either by root cuttings and/or by tissue culture.

**Signed :**

**Date :** 3 May 2012

(Alison Dolan, Plant Pathologist)

### Details of *Rubus* material supplied

**Genotype/Cultivar and clone :** Raspberry buds from the following cultivars Glen Ample clone 1 plant 1 and Glen Lyon clone 2 plant 2 only [GFS 12/01]

**Supplied to :** Mrs A Sample  
The James Hutton Institute  
Invergowrie  
Dundee  
DD2 5DA  
Scotland  
UK

# Previous National Scheme

- Voluntary
- Only for *Fragaria*, *Ribes* and *Rubus*
- Based on the EPPO guidelines
- Lack of harmonisation across the EU with each country operating own national regimes





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# New EU Scheme for fruit plant material

- Introduced 1<sup>st</sup> January 2017
- Statutory Scheme covering
  - Registration of suppliers and varieties
  - Labelling
  - Certification and rules in relation to official inspections
- Operates in all EU member states and creates single harmonised market

Scottish Government

Rubus

Category Pre-basic


Registration No. UK/S0159

Date of Issue:

Quantity:

Reference No:

EU Rules and Standards



# List of genera and species covered in the New Scheme

*Castanea sativa* Mill.

*Citrus* L.

*Corylus avellana* L.

*Cydonia oblonga* Mill.

*Ficus carica* L.

*Fortunella* Swingle

*Fragaria* L.

*Juglans regia* L.

*Malus* Mill.

*Olea europaea* L.

*Pistacia vera* L.

*Poncirus* Raf.



*Prunus amygdalus* Batsch

*Prunus armeniaca* L.

*Prunus avium* (L.) L.

*Prunus cerasus* L.

*Prunus domestica* L.

*Prunus persica* (L.) Batsch

*Prunus salicina* Lindley

*Pyrus* L.

*Ribes* L.

*Rubus* L.

*Vaccinium* L.





# EU Certification Scheme for raspberries

- Registration – raspberry growers producing plants must be registered with SG – HMU
- Grades
  - Pre-basic (Nuclear stock)
  - Basic 1 (Super Elite)
  - Basic 2 (Elite)
  - Certified (Standard)
  - Non Certified material – *Conformitas Agraria Communitatis* (Plant Passported)





# EU Certification Scheme for raspberries

- Stock eligibility – 4 year generation between grades Basic 1 to Certified
- Soil Sampling requirements for Basic 1 and Basic 2 for soil-living virus vector nematodes
- Isolation and separation dependant on grade
- Health requirements, mainly visual inspections and dependant on grade
- Official inspections of plants and production records
- Labelling and sealing of packages





# Importance of the Certification Scheme

- Without such schemes the general health of the soft fruit industry would decline
- No pathogen free material to replace fruit plantations
- Pathogens infecting the soil would reduce land available to grow soft fruit





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Thank you for listening.

Thank you to Jason Rumens, Head of HMU.

More information please email [hort.marketing@gov.scot](mailto:hort.marketing@gov.scot)



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