New Certification Scheme for Raspberries

Alison Dolan
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

- 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:


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: [Alison Dolan, Plant Pathologist]

Date: 3 May 2012

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
New EU Scheme for fruit plant material

- Introduced 1\textsuperscript{st} 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
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
Thank you for listening.

Thank you to Jason Rumens, Head of HMU.

More information please email hort.marketing@gov.scot