

# 1. Major Crops

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## Blackberries

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### Diseases & Disorders (Crp Pro)

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SF 39      Blackberry: evaluation of fungicides and manipulation of young plant growing conditions for control of downy mildew

\* **Final report 1997**

### Pests (Crop Protection)

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CP 38      An investigation of the sex pheromone ecology of some important midge pests of UK fruit crops (HDC Studentship)

\* **Annual report 2007, Annual report 2008**

SF 102      Biology and integrated control of blackberry leaf midge on blackberry and raspberry

### Varieties/Products

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SF 8b      Raspberry and Blackberry: The breeding and selection of improved cultivars

\* **Report 1991/92**

## Blackcurrants

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### Varieties/Products

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SF 58      Development of physiological, agronomical and genetic tools for increasing the L-ascorbic acid content of blackcurrant (HortLINK)

\* **Final report 2007**

### Nutrition & other inputs

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CP 43      Biosensor array for improved soft fruit quality control (HDC Studentship)

\* **Annual report 2007, 2008**

### General

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SF 12      Blackcurrant projects: funded in collaboration with GlaxoSmithKline

\* **SF 12 (210) Final report 2007**

## Raspberries

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### Diseases & Disorders (Crp Pro)

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SF 10      Raspberries: etiology and control of Phytophthora root rot

\* **Report 1993**

SF 10c      Raspberries: chemical control of root rot

\* **Final Report 1993**

SF 63 Diagnostic markers for root rot resistant raspberries suitable for low input growing systems [LINK]

\* **Final report 2007**

SF 66 Review of bio-control strategies and novel products for control of key pests and diseases in strawberry and raspberry

\* **Final Report 2005**

SF 69 Raspberry: Epidemiology and fungicide control of cane blight (*Leptosphaeria coniothyrium*)

\* **Final Report 2005**

SF 69a Raspberry: epidemiology and fungicide control of cane blight (*Leptosphaeria coniothyrium*)

\* **Final report 2006**

SF 74 Integrated pest and disease management for high quality protected raspberry production (HortLINK)

\* **Annual report 2007, Annual report 2008**

SF 98 Sustainable management of *Mucor* and *Rhizopus* in strawberry and raspberry

SF 101 Alternatives to chlorpyrifos for raspberry cane midge control

Pests (Crop Protection)

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SF 50 Protected raspberries : the establishment and management of the predatory midge *Feltiella acarisuga* (formerly *Therodiplosis persicae*) for the control of two-spotted spider mite

SF 59 Raspberry: alternative insecticides for raspberry cane midge and raspberry beetle control

\* **Annual report 2005**

SF 66 Review of bio-control strategies and novel products for control of key pests and diseases in strawberry and raspberry

\* **Final Report 2005**

SF 74 Integrated pest and disease management for high quality protected raspberry production (HortLINK)

\* **Annual report 2007, Annual report 2008**

SF 81 Developing techniques to manage raspberry leaf & bud mite in tunnel produced raspberry

\* **Annual report 2008, 2009**

SF 102 Biology and integrated control of blackberry leaf midge on blackberry and raspberry

Weeds (Crop Protection)

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SF 10a Raspberries: Evaluation of potential dinoseb replacement

SF 10b Raspberries: assessment of potential dinoseb replacements in cane vigour control and biennial cropping systems

\* **Final Report 1993**

SF 73 Finding alternative desiccants to sodium monochloroacetate for spawn control in raspberry  
\* **Final report 2008**

Varieties/Products

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SF 8 Raspberries: breeding for late summer and autumn fruiting  
\* **Reports 1998, 1989, 1991, 1992 & 1993**

SF 8a Breeding late summer and primocane fruiting raspberries

SF 8b Raspberry and Blackberry: The breeding and selection of improved cultivars  
\* **Report 1991/92**

SF 8c Raspberry: evaluation of advanced selections from the HRI breeding programme  
\* **Final Report 2003; Factsheet 06/03**

SF 8d Support for English raspberry breeding programme.  
\* **Factsheet (year 5 report)**

SF 18 Variety trialling: soft fruit - raspberries (stage I onwards) and strawberries (stage 0 onwards)  
\* **Final Report 1992**

SF 18a Co-ordination of variety trials

SF 18b Variety trialling: raspberries (stage 1 onwards), strawberries (stage 0 onwards), Plums and cherries (stage 1)  
\* **Final Report 1994**

SF 18d Raspberry: assessment of variety trials 8 (standard) and 4 (primocane)

SF 35 HDC contribution to the Scottish Raspberry Development Programme R&D initiatives  
\* **Report 1993/96**

SF 35a Scottish raspberry breeding programme  
\* **Reports 2003,2004,2005,2006,2007, 2008**

SF 41 Raspberries: commercial evaluation of new primocane varieties and seedlings  
\* **Final Report 1999**

SF 41a Raspberries: commercial evaluation of new summer fruiting varieties and seedlings  
\* **Final Report 2000**

SF 41b Raspberry: commercial evaluation of new summer fruiting varieties and selections  
\* **Final report 2007**

SF 41c Summer fruiting raspberry variety trial

SF 48 Raspberries : practical ways of extending the season of Autumn Bliss

\* **Final Report 1998**

SF 52 Raspberries: short-cane floricanne production system

\* **Final Report 1999**

SF 76 Developing a marker-assisted breeding toolkit for premium sensory characters in raspberry (HortLINK)

\* **Annual report 2007, 2008**

SF 93 Evaluation of eight black raspberry varieties

SF 106 Developing breeding and selection tools to reduce spoilage of soft fruit and wastage in the supply chain (HortLINK)

Product scheduling/supplychain

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CP 32 Value Chain Analysis for Raspberry

\* **Final report 2008**

SF 106 Developing breeding and selection tools to reduce spoilage of soft fruit and wastage in the supply chain (HortLINK)

## Strawberries

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Diseases & Disorders (Crp Pro)

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CP 35 The development of methods to alleviate thermodormancy in everbearing strawberry and secure season extension in the UK (HDC Studentship)

\* **Annual report 2007**

SF 3 Strawberries: selection of yellows-free clones

SF 4 Strawberries: soil sterilants in relation to cost-effective pre-planting treatments

SF 6 Strawberries: assured maintenance of healthy breeding and multiplication stocks

SF 6a Strawberries: assured maintenance of healthy breeding and multiplication stocks - Running costs

SF 17 Verticillium wilt of strawberry - predicting disease risk

\* **Final Report 1993**

SF 19 Strawberry black spot

\* **Final Report 1991**

SF 19a Blackspot of strawberry: investigation on preplanting runner treatments to eliminate *Colletotrichum acutatum* from planting stock

\* **Final Report 1993**

- SF 19b Developing a screening technique for *Colletotrichum acutatum* on strawberries  
**\* Final Report 1992**
- SF 23 Crown rot of strawberry: transmission of the pathogen (*Phytophthora cactorum*) in micropropagation  
**\* Final Report 1993**
- SF 24 Strawberry: biological control of grey mould  
**\* Final Report 1994**
- SF 47 Strawberry: development of management strategy for the control of botrytis  
**\* Final Report 2000; Factsheet 18/04**
- SF 49 Strawberry : strategies for the reduction of fungicide applications for mildew control  
**\* Final Report 1998**
- SF 56 Strawberry: a review of the published literature and available information on control of blackspot (*Colletotrichum acutatum*) and factors affecting disease incidence in commercial crops  
**\* Factsheet 14/02**
- SF 62 The epidemiology and control of strawberry powdery mildew under protection  
**\* Final report 2006**
- SF 66 Review of bio-control strategies and novel products for control of key pests and diseases in strawberry and raspberry  
**\* Final Report 2005**
- SF 67 Detection and control of *Xanthomonas fragariae* and *Xanthomonas arboricola* pv *fragariae* in UK strawberry nuclear stock, imports and production
- SF 68 Strawberry: Evaluation of plant nutrients and other chemicals for control of blackspot (*Colletotrichum acutatum*)  
**\* Annual report 2005**
- SF 78 Meristem culture for the elimination of the strawberry crown rot pathogen *Phytophthora cactorum*  
**\* Final report 2007**
- SF 82 Development and evaluation of a real-time (TaqMan (TM)) PCR assay of for detection of *Phytophthora cactorum* (crown rot) in strawberry tissue  
**\* New project awaiting first report**
- SF 94 Minimising pesticide residues in strawberry through integrated pest, disease and environmental crop management (HortLINK)
- SF 97 Detection and quantification of *Verticillium dahliae* and *V. albo-atrum* in soils to determine risk of verticillium wilt in strawberry
- SF 98 Sustainable management of *Mucor* and *Rhizopus* in strawberry and raspberry
- SF 99 Sustainable control of crown rot (*Phytophthora cactorum*) in strawberry

SF 103 Evaluation of *Metarhizium anisopliae* for control of black vine weevil larvae in field grown strawberries

SF 111 Latent *Botrytis* incidence on cold-stored strawberry runners

\* **Final report 2009**

Pests (Crop Protection)

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SF 15a Strawberries: control of vine weevil with suSCon Green, insect parasitic nematodes and insect-pathogenic fungi

\* **Final Report 1994**

SF 15b Predation of vine weevil in soft fruit plantations

\* **Final Report 1997**

SF 15c Biology and biocontrol of vine weevil

\* **Final Report 2000**

SF 20 Strawberry: host plant resistance to two-spotted spider mite

\* **Final Report 1994**

SF 34 Strawberry: literature review and report on the biology and pest status of capsid bugs

\* **Literature review 1993; Factsheet 19/04**

SF 34a Strawberry: monitoring and control of capsid bugs

\* **Final Report 1993**

SF 46 Strawberry: strategies for the chemical control of tarsonemid mite in propagation material

\* **Final Report 1999**

SF 55 Alternatives to organophosphorus and carbamate insecticides for control of pests on strawberries

\* **Final Report 2001**

SF 60 IPM-compatible insecticides and potential biocontrol agents for use against thrips in strawberry

\* **Final Report 2005**

SF 61 Predators and parasitoids to control aphids in protected strawberry cultivation

\* **Final Report 2005; Factsheet 26/05**

SF 66 Review of bio-control strategies and novel products for control of key pests and diseases in strawberry and raspberry

\* **Final Report 2005**

SF 79 Evaluation of foliar sprays of acaricides for control of tarsonemid mite in strawberry

\* **Final report 2007**

SF 80 Biology and integrated control of western flower thrips in everbearer strawberries

\* **Annual report 2007, 2008 and final 2009**

SF 90 Chemical control of Western Flower Thrips in strawberry flowers

\* **Annual report 2009**

SF 94 Minimising pesticide residues in strawberry through integrated pest, disease and environmental crop

management (HortLINK)

SF 95 Chemical control and timing of application of insecticides for control of the capsid, *Lygus rugulipennis* on strawberry

\* **annual report 2009**

Weeds (Crop Protection)

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SF 72 Strawberry: Screening herbicides for a replacement for Simazine in strawberry production

\* **Final Report 2005**

SF 72a Strawberry: Field screening herbicides for a replacement for Simazine in strawberry production

\* **Final Report 2006**

Water, energy & climate change

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SF 57 Effects of misting on fruit shape and yield in the strawberry 'Elsanta'

\* **Final Report 2003**

Labour utilisation/ergonomics

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SF 71 Reducing strawberry labour costs by increasing picking speeds and improving harvest efficiency

Varieties/Products

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SF 1 Strawberries: breeding programmes

\* **Report 1988; Report 1989**

SF 7 Strawberries: Stage III variety trialling

\* **Reports 1987/88, 1988/89 & 1989**

SF 18 Variety trialling: soft fruit - raspberries (stage I onwards) and strawberries (stage 0 onwards)

\* **Final Report 1992**

SF 18a Co-ordination of variety trials

SF 18b Variety trialling: raspberries (stage 1 onwards), strawberries (stage 0 onwards), Plums and cherries (stage 1)

\* **Final Report 1994**

SF 18c Strawberry: organisation and assessment of grower trials

\* **Report 1993**

SF 21 Strawberries: Preliminary trials for breeding programme

\* **Final Report 1995**

SF 21a Strawberry variety trialling stage 0

\* **Final report 2007**

SF 22 Effect of planting date and density on the growth and cropping of the new everbearing strawberry

variety, SBJ2

\* **Final Report 1993**

SF 26 Finding reliable methods of determining yield potential from cold stored strawberry plants and techniques for improving yield

\* **Final Report 1993**

SF 33 Strawberries: Influence of fertigation on new everbearing strawberry varieties

\* **Final Report 1995**

SF 40 Strawberry: evaluation of new varieties and seedlings

\* **Final Report 2000**

SF 40a Strawberry: organisation and assessment of grower trials

\* **Reports 1994/95, 1995/96 & 1996/97**

SF 40b Strawberry: COST variety evaluation trial

\* **Ann report 2003; Factsheet 07/03; 18/05**

SF 40c Field evaluation of new strawberry selections on two farms in different production areas in the UK

\* **Final Report 2004; Factsheet 17/05**

SF 40d Field evaluation of new main season selections on two farms in different production areas in the UK

\* **Final report 2008**

SF 51 Strawberry: to determine the agronomic requirements for optimising the performance of the cultivar Florence on sterilised and unsterilised land

\* **Final Report 2000**

SF 54 Soft fruit demonstration plot

SF 64 Proposal to carry out a survey of the strawberry industry to assess the need and requirements of any future HDC-funded strawberry variety trials

\* **Final Report 2004**

SF 65 Strawberry: collation of existing medical research on the health benefits of red berry fruits

\* **Final Report 2004**

SF 96 Strawberry: Funding of strawberry breeding programme at East Malling Research through membership of strawberry breeding club

SF 106 Developing breeding and selection tools to reduce spoilage of soft fruit and wastage in the supply chain (HortLINK)

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#### Product scheduling/supplychain

SF 44 Strawberry harvesting: literature search & review

\* **Final Report 1997**

SF 106 Developing breeding and selection tools to reduce spoilage of soft fruit and wastage in the supply chain (HortLINK)

## Nutrition & other inputs

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- CP 43 Biosensor array for improved soft fruit quality control (HDC Studentship)  
\* **Annual report 2007, 2008**
- SF 3 Strawberries: selection of yellows-free clones
- SF 42 Strawberries: a review of the published literature and available information on spray application to commercial crops  
\* **Final Report 1995**
- SF 42a Strawberry: evaluation of spray application methods  
\* **Final Report 2000**
- SF 53 Overcoming the Loss of Methyl Bromide with a Competitive and Sustainable Soil-less Strawberry Production System [LINK]  
\* **Final Report 2004**
- SF 77 Biofumigant crops as replacements for methyl bromide soil sterilisation in sustainable strawberry production (HortLINK)  
\* **Annual report 2007, Annual report 2008**
- SF 107 Managing water, nitrogen and calcium inputs to optimise flavour and shelf-life in soil-less strawberry production

## General

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- SF 100a Attendance at 2nd International Strawberry Symposium, Baltimore, USA  
\* **Final Report 1992**
- SF 100b Funding for attendance at the 4th North American Strawberry Conference and North American Strawberry Growers Association Annual Meeting in Florida  
\* **Final Report 1995**

## 2. Minor Crops

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### Blueberries

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#### Pests (Crop Protection)

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- CP 38 An investigation of the sex pheromone ecology of some important midge pests of UK fruit crops (HDC Studentship)  
\* **Annual report 2007, Annual report 2008**

### Rhubarb

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#### Weeds (Crop Protection)

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- FV 28 Rhubarb: breeding material, propagation and weed control

**\* Report 1988**

Varieties/Products

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FV 28 Rhubarb: breeding material, propagation and weed control

**\* Report 1988**

Product scheduling/supplychain

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FV 191 Rhubarb: evaluation of different methods of advancing rhubarb in forcing sheds

**\* Final Report 1999**

Nutrition & other inputs

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FV 61 Rhubarb - early production from crop covers

**\* Reports 1991, 1992 & 1993**

FV 61a Rhubarb: early field production using crop covers

**\* Reports 1991, 1992 & 1993**

PC 61a Rhubarb - early field production using crop covers