

European Group of Researchers in Organic Fruit founded!

At the occasion of the Second Meeting of Researchers in Organic Fruit held on Nov. 29 and 30 2000 at Frick Switzerland, the 24 participants from 14 institutions from 9 European Countries officially founded The European Group of Researchers in Organic Fruit EGROF. [See list of members and institutions](#)

The secretary of the group and contact address is Dr. Franco Weibel at the Research Institute of Organic Farming, FiBL, Ackerstrasse, CH-5070 Frick.

The group's goal is to guarantee the information exchange between the increasing number of institutions and scientists active in organic fruit research.

Because the number of participants in the EG-ROF is restricted to people who are predominantly active in organic fruit research, there is always enough time for serious and interactive discussions of the research activities, the results and the methods used. Possibilities for synergy and co-operation can be detected and achieved between the different institutions and researchers.

Subjects and results of the conference:

- Each institution gave an overview presentation of its recent and planned activities (see links below).
- A half day session was dedicated to the latest research results focusing on lime sulphur applications in organic fruit growing and the registration situation in the different countries. In a discussion forum we intensively discussed the pros and cons of the use of lime sulphur in organic fruit growing. As a result we created a lime sulphur working group which is chaired by Marc Trapman (NL) (m.trapman@wxs-nl). The first task of the working group is to formulate a common position (in the name of the EG-ROF) about the use of lime sulphur in organic fruit growing and to find the answers on some points, which are still unclear, concerning registration, efficacy and side effects.
- During the last half day 9 speakers have presented the results of their most recent experiments:
- Cropload regulation experiments with apple (François Warlop; grab@wanadoo.fr)
- Growth and yield control with organic apples and pears (Pieterjans Jansonius; jansoniuspj@demon.nl)
- Results on scab and fruit setting of the 2000 season (Barbara Pfeiffer; barbara.pfeiffer@lvwo.bwl.de)
- Experiment results on i) spraying with different water volumes, ii) new Neem extracts, iii) Woolly apple aphid control; iv) Saw Fly control, v) harvest date and storage conditions of apple cvs. Pilot, Topaz, Gold Rush and Delorina (Markus Kelderer, markus.kelderer@provinz.bz.it)
- Fruit thinning experiments in org. apple growing in Switzerland ([Lukas Bertschinger](#) and [Franco Weibel](#))
- Effect of new organic agents to control monilia in cherry (Andi Häseli)
- Microbial colonisation of organically versus integratedly grown apples (Laurent Zahnd and [Lucius Tamm](#))
- Results for the 2000 season on scab and Sooty Blotch control ([Jacques Fuchs](#))

Overview list on research activities

Institution

Abbreviation Country

Biocontrol AG

Switzerland

Bio Fruit Advies

The
Netherlands

Danish Institute of Aricultural Science		Denmark
Federal Research Institute of Fruit-, Vine- and Vegetabel Growing	FAW	Switzerland
Groupe de Recherche en Agriculture Biologique	GRAB	France
Henry Doubleday Research Association	HDRA	United Kingdom
Horticulture Research International	HRI	United Kingdom
Institute of fruit growing and horticulture, University of agricultural Sciences	BOKU	Austria
Landes Versuchsanstalt für Wein und Obstbau, Weinsberg	LVWO	Germany
Louis Bolk Institute	LBI	The Netherlands
NAGREF Plant protection Institute	NAGREF	Greece
Research Centre Laimburg	VZL	Italy
Research Institute of Organic Farming	FiBL	Switzerland
Universität Hohenheim		Germany

Franco Weibel, Head Dept. Crop Production and Food Quality, Governor of the Meeting.

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**Research in organic fruit growing by FiBL
Research Institute of Organic Farming, Frick, Switzerland overview
Nov.2000**

subject	Participating organisations	period	publications
Apple: testing of scab resistant varieties. Precision trial at Frick, on-farm-trial at 10 pract. orchards) 60 varieties in test	FiBL, FAW, INTERREG	since 1994-	<ul style="list-style-type: none"> • in each Proceeding of the annual Fruitgrowing Symposium of FiBL • latest variety recommendation: bioaktuell 6/2000 (G)
Apple: rootstock-testing (10 new and old rootstocks on 3 varieties at 4 locations)	FiBL, FAW, RAC, AKBDOB	1998-2004	<ul style="list-style-type: none"> • first intermediate internal report

Apple: calcium-uptake. Increasing Ca availability in the soil and uptake of the roots	FiBL		<ul style="list-style-type: none"> • Acta Horticulturae Vol. 448 and 512. Results 98 and 99 not yet published
Apple: thinning-methods. Testing products, equipment and methods	FiBL, FAW	1997-1999?	<ul style="list-style-type: none"> • Proceedings of the annual Fruitgrowing Symposium of FiBL '99 (G) • Proceedings IFOAM 2000, Basel (E)
<ul style="list-style-type: none"> • Apple quality of integrated and organic managed orchards. Field study also including health related parameters and different holistic methods • First steps to measure and interpretate aura pictures of apple leaves • Precision trial of FAW/FiBL at Wädenswil • Colonisation of Epi- and Endophytiae on organic and integrated apples 	FiBL FAW, FiBL FiBL, Uni Lub.	1997-1999	<ul style="list-style-type: none"> • Acta Horticulturae Vol. 517 (E). Publication of results 98 and 99 in work (E) • Internal reports (D), (some E) • Internal reports (G) • Diploma thesis of Laurent Zand (E), publication in preparation
Apple: control of scab (plant protection product-testing)	FiBL, Industry	continuous	<ul style="list-style-type: none"> • mainly internal reports (G) • leaflets for practical recommendations (G, F; in work E and spanish) • english summaries in different articles
Apple: control of Sooty Blotch (testing of products and concepts)	FiBL	1995 1996 2000	<ul style="list-style-type: none"> • mainly internal reports (G) • leaflet for practical control recommendations (G)
Apple, plums: Effect of lime sulfur on beneficials on apple, plums and vine,	FiBL, Andermatt Biocontrol	2000	<ul style="list-style-type: none"> • internal report of Claudia Daniel (G)
<ul style="list-style-type: none"> • Sweet cherries, control of Monilia: several alternative treatments, covering during blossom and harvest. • Optimization trial on 6 pilot farms (production and economy) • Industry Cherry production on high stem trees 	FiBL, FAW FiBL, Kt. BL FiBL, WWF	1998-2001 2000-2015	<ul style="list-style-type: none"> • Proceedings SOV-Seminar 2000, Biel (G) • intermediate report (G) • just starting

Sweet cherries: varieties-testing. 15 monilia-tolerant varieties	FiBL, FAW	1998-2004	• still small trees, no publications yet
Strawberries, Botrytis: direct and preventive control	FiBL	1999-2001	• internal reports (G)
Strawberries, leave spot: Alternative treatments for copper	FiBL	1998	• no publications yet
Highbush Blueberries: mulches of bark and sawdust as alternative to peat moss; cropping-systems; variety-testing	FiBL	1998-2004	• Schweizer Bauer, 13.05 2000 (G) • internal reports (G)
Raspberries: control of raspberry beetle with trapping methods	FiBL	1998-2001	• internal reports (G)
Raspberries, blackberries: control of cane diseases	FiBL	1998-2001	• internal reports (G)
Soil management: Sandwich-System. Tree performance, nutrient uptake, root distribution, soil fertility, development of a cheap but efficient tillage equipment	FiBL, Industry	1999-2003	• Obstbau 2000-4 (G)
Economy of fruit and berry production. Yearly monitoring of the basic economy data	FiBL, FAT	continuous	DB-Kataglog biologischer Landbau (G)
New trials/activities in 2001 and later	FiBL, TU-München		
• Fruit quality: focuss on secondary metabolites	FiBL		
• Continuation with the endophytæ	FiBL, Uni Lub.		
• Basic trials on the image analysis of aura pictures	FiBL		
• Apple-tree nutrition: Trial to improve nutrition by soil improvement, soil fertilizer and leaf fertilizer	FiBL		
• Mass release of Ladybirds to control Powdery Aphid			

FiBL = Research Institute for Organic Agriculture
 Jacques Fuchs, Andy Häseli, Andi Schmid, Lucius Tamm, Franco Weibel
 Ackerstrasse, CH-5070 Frick
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Research in organic fruit growing by FAW overview Nov. 2000

Subject	Participating organisations	Period	Publications
Apple thinning trials	FAW, FiBL, RAC, province VS	1996-99	<ul style="list-style-type: none"> • Mechanical thinning; handout Nr. 401 • Full mechanical thinning of entire tree sections (1/2 trees, etc.); handout Nr. 400 • IFOAM 2000 abstracts • Acta Horticultrae 466:65-70, 1998
Breeding of disease resistant apple varieties	FAW, EU FAIR 5 project	Since 1986	<ul style="list-style-type: none"> • Various refereed articles • Growers' journals • CD-ROM • Etc.
Testing of disease resistant apple varieties	FAW, FiBL, RAC, others	Cont'd	<ul style="list-style-type: none"> • Various
Apple rootstock testing trial	FAW, FiBL, RAC	Since 1998	<ul style="list-style-type: none"> • Internal progress report
Sweet cherry variety testing trial	FAW, FiBL, provinces BL/AG/SO, Swiss Fruit Growers' Association	Since 1997	<ul style="list-style-type: none"> • Internal progress reports
Sweet cherry disease management trial (Rain protection)	Idem	1996-99	<ul style="list-style-type: none"> • Internal report • Schweiz. Zeitschrift Obst-Weinbau
Green cover and soil management in modern sweet cherry orchards	Idem	Since 1999	<ul style="list-style-type: none"> • Internal progress report
Comparison of organic and integrated apple production	FAW, FiBL, RAC	Since 1996	<ul style="list-style-type: none"> • Internal progress reports
Life cycle analyses	FAW, FAL, FAT	2000-3	<ul style="list-style-type: none"> • IFOAM 2000 abstracts
Economy & ecology (org. fruit farm economy), ASA-Agrar	FAW, extension services, SRVA	Since 1998	<ul style="list-style-type: none"> • Schweiz. Zeitschrift Obst-Weinbau: overview project set-up (no data yet).
Testing of crop protection agents	FAW, partners case-by-case	As needed	<ul style="list-style-type: none"> • Crop protection agent regulation book (see FAW-homepage)
Plant protection newsletter	FAW, FiBL	Cont'd	<ul style="list-style-type: none"> • Weekly newsletter (hard copy; see FAW-homepage)

Principal contacts (will guide you to respective project leader):

Dr. Lukas Bertschinger, department head crop science & experiment farms; lukas.bertschinger@faw.admin.ch

Dr. Christian Gysi, product manager pre-harvest; christian.gysi@faw.admin.ch

Swiss Federal Research Station für Fruit-Growing, Viticulture and Horticulture, P.O. Box 185, CH-8820 Wädenswil, Switzerland, +41 1 783 61 11

Homepage: www.admin.ch/sar/faw

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Research in organic fruit growing by Henry Doubleday Research Association overview Nov.2000

Varieties and Integrated Pest and Disease Management for
UK Organic Apple Production

Objectives:

- To evaluate and refine an IPDM programme for organic apple production in the UK.
- Cultural / Chemical / Biological controls.
- To identify 4-6 varieties of apple which:
 - Have high fruit quality
 - A range of seasons (storage potentials)
 - Market suitability: Dessert / Culinary / Processing
 - Suitable for UK production
- To determine the activity, persistence and efficacy of 8 organically acceptable fungicides for scab and mildew control.
- These are calcium hydroxide and clay mineral / compost / plant / algal extract derivatives and mixtures: e.g: Biosan,, Mycosan , Ullmasud
- To determine and optimise the efficacy of 6 organically acceptable foliar spray treatments for control of rosy apple aphid.e.g: Potassium Soap Quassia, Garlic Extracts

Registration of Plant Protection Products in the UK

Many of these plant protection products which are not approved by PSD are permitted by UKROFS (United Kingdom Register of Organic Food Standards) and the Soil Association (SA) – two major certifying bodies for organics in the UK.

Plant Protection Product	Target	Use in UK – Approval by PSD (Pesticide Safety Directorate)
Copper Oxychloride Bordeaux Mixture	Canker Scab	Approved for use only as a pre-bud burst and post harvest control. Not approved to control scab. May be used but is not popular – too many problems with russetting and scorching.
Sulphur	Scab / Mildew	Approved, but not very effective, especially early in the season.
Lime-Sulphur	Scab / Mildew	Not approved or available for use in UK.
Granulosis Virus (CpVG)	Codling Moth	Not yet approved for use in UK.
Bt	Codling Moth Caterpillars	(Novosol) – Approved for use in UK but supplies of the commercial formulation have recently ceased.
Quassia amara	Apple Sawfly / Blossom Weevil	No longer approved for use in UK.
Pheromone trapping / disruption	Codling / Winter / Tortrix Moths	Not approved. UKROFS and SA permit monitoring use only.
Pyrethrum	Aphids	Not approved.
Rotenone (Derris)	Aphids, Apple Blossom Weevil	Approved, but available only through derogation (SA + UKROFS).
Neem extracts (Azadirachtin)	Aphids	Not approved in UK. Difficulties registering with PSD.

Stella Knight, Henry Doubleday Research Association, www.hdra.org.uk, tel. 0044-1203-303517

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subject	Participating organisations	period	publications
Soil management: Clover strips (apples)	HRI	2000	
Weed control: Use of blade, mulches (apples); straw (strawberries)	HRI	2000	
Agronomic studies: Use of polytunnels (strawberries)	HRI	2000	
Nutrient analysis: Leaf and soil analysis (apples); soil analysis (strawberries)	HRI	2000	
Fertilisation: Use of manufacturer's product on strawberries	HRI Product manufacturer	2000	• Confidential report to manufacturer
Fruit varieties: - Strawberries;	HRI	2000	· organic webpage
- Identification of low disease susceptibility apple varieties suitable for UK organic production	Link	2000-2005	
Pests: - Foliar sprays against rosy apple aphid	Link	2000-2005	
- Identify sex pheromone of apple blossom weevil and the moth Blastobasis	EM Trust	2000-2003	
Beneficials: - Monitoring with pitfall traps (apples and strawberries)	HRI	2000	• Proceedings Ashford 2000
- Use of predatory mites to control spider mites and tarsonemid mites (strawberries)			
- Use of carabids to control vine weevils (strawberries)			· Proceedings Soft Fruit Conference 1999
- Attract beneficials with flower strips and/or hedges			· Worshipful Company of Fruiterers report 2000
Diseases: - Find alternative fungicides for scab and mildew control (apples)	Link	2000-2005	• Proceedings Ashford 2000
- Monitor for crown rot, verticillium wilt, powdery mildew (strawberries)	HRI	2000	· Agriculture Link October 2000
- Biological control of apple mildew	EM Trust	2000-2003	
General: - Evaluate and refine an innovative Integrated Pest and Disease Management programme for UK organic apple production	HRI, Link	2000-2005	

contact name + address:

HRI = Horticulture Research International, Dr David Parry, Marion Arnaud

East Malling, West Malling, Kent, ME19 6BJ, England

Tel: 00 44 (0)1732 843 833 Fax: 00 44 (0)1732 849 067

Email: david.parry@hri.ac.uk marion.arnaud@hri.ac.uk

Link partners = APRC (Apple and Pear Research Council); North Court Fruit Farm; East Malling Trust; Forayes Farm Ltd (food processor); Fruition Group; OrchardWorld; Sainsbury's (supermarket); E H Wilson & Sons; Waitrose (supermarket); HRI-East Malling and HDRA (Henry Doubleday Research Association).

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Research in organic fruit growing by Danish Institute of Agricultural Sciences, overview Nov.2000

Subject	Participating organisations	Period	Publications
Soil management: Cover crops in alleyways. Nutrition, effect on pest and diseases. Apples.	DIAS	1994-2003	<ul style="list-style-type: none">• Danish article in agricultural magazine.• Annual reports
Soil management and fertilisation: High-density plantings and nutrition. Apples	DIAS	2001-2005	<ul style="list-style-type: none">• New
Cover crops in tree row. Nutrition effect on pest and diseases. Apples.	DIAS and Fejø.	2000-?	<ul style="list-style-type: none">• New
Cover crops in alleyways. Nutrition, yield, diseases. Black currants.	DIAS	1996-2002	<ul style="list-style-type: none">• Annual reports• Danish article in agricultural magazine
Effect of different mechanical cleaning equipment on yield and rootstock. Apples.	DIAS and Fejø	1998-?	<ul style="list-style-type: none">• Annual report
Fertilisation and mulching using seaweed. Apples	DIAS and Fejø	1998-?	<ul style="list-style-type: none">• Annual report• Danish article in agricultural magazine.
Inter-cropping of chickens and apples, pears and hazelnuts. Effect on weed, nutrition and pests	DIAS and Fejø	1998-?	<ul style="list-style-type: none">• Danish article in agricultural magazine.• Annual report
How does black currant production on legs effect mechanical weed cleaning and production.	DIAS	1996-2002	<ul style="list-style-type: none">• Danish article• Annual report
Variety testing: Evaluate scab resistant varieties under Danish conditions.	DIAS	1990-2003	<ul style="list-style-type: none">• Many Danish articles in agricultural magazines.

Evaluation of optimal rootstock and planting density for 7 resistant varieties.	DIAS, Fejø	2000-?	• New
Evaluation of unsprayed black currant varieties.	DIAS	1990-2002	• Danish article • Annual reports
Evaluation of unsprayed strawberry varieties.	DIAS	1997-2002	• International article in print • Many Danish publications
Evaluation of unsprayed plum varieties	DIAS, Fejø	1999-?	• New
Unsprayed Varieties for juice, apples.	DIAS, Fejø	1999-?	• New
Unsprayed Varieties for cider, apples	DIAS, Fejø	1999-?	• New
Apple scab: Test planting to evaluate present races of Venturia inaequalis.	DIAS	1996-2001	• Poster on workshop France 1999.
Biological control of apple scab and cherry leaf spot.	DIAS and agricultural university	1996-2001	• Ph.D. project. Several articles on the way. • One international article and articles in Danish.
Effect of sulphur and leaf shredding on apple scab infections.	DIAS and Fejø	1999-2001	• Annual reports
Organic demonstration project. One person employed to organise growers demonstration projects (Maren Koorsgaard)	Demonstration project	1999-2002	• Danish articles in agricultural magazines

contact name + address:

- DIAS=Danish Institute of Agricultural Sciences, Department of Horticulture, Kirstinebjergvej 10, 5792 Aarslev, Denmark.

Scientist: Hanne Lindhard Pedersen. We have special areas for the organic research.

- Fejø: Research station for fruit growing.

Demonstration project: Maren Koorsgaard: Økologisk Frugt- og Bærproduktion, Industrivej 31 C, 4230 Skælskør, Denmark

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Responsible:

Dr Jannis Rumbos

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Research in organic fruit growing by Plant Protection Institute of Volos,

Greece (PPIV) overview Nov.2000

subject	Participating organisations	period	publications
apple scab:optimization with forecasting models (ATCON)	PPIV Univ. of Thessalia	1998-2003	<ul style="list-style-type: none"> proceedings Greek Conference (1999)
grapes: beneficials, bio-chemicals.	PPIV Benaki Institute	1995-2000	<ul style="list-style-type: none"> proceedings IFOAM Basel (2000) proceedings IOBC, Florence (1999) Acarologia 15, 113-125 Redia 81, 17-35 proceedings IOBC, Hungary (1997) proceedings IFOAM, Copenhagen, 1996 Book 408 p. (in Gr., 1996)

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Research into organic fruit growing by Louis Bolk Institute, overview Nov.2000

subject	Participating organisations	period	publications
soil management: undergrowth of white clover, sandwich, temporarily turnips, clover in the aisle, calcium-uptake.	LBI	1995-2002	<ul style="list-style-type: none"> Handbook (in Dutch) about soil management (1996). current results in several Annual reports fruit LBI. several Dutch LBI-reports with English summary Ca-uptake: in proceedings Weinsberg febr2000 and ÖkoObstbau 2000-2
fertilization, N-balance and N-dynamics, foliar feeding.	LBI	1995-2002	<ul style="list-style-type: none"> proceedings Ashford (okt.2000) in ÖkoObstbau 1998-3.
growth regulation: root pruning, trunk notching, undergrowth.	LBI	1999-2002	<ul style="list-style-type: none"> Annual report fruit LBI 1999
crop regulation: hand thinning strategies, optimal carrying capacity, limesulfur in blossom.	LBI DLV	1999-2002	<ul style="list-style-type: none"> Annual report fruit LBI 1999 Dutch LBI-report 1998 Internal LBI-Dutch report 2000
apple scab: alternative treatments for copper, influence of growth control, optimization with forecasting models.	LBI FPO DLV	many small projects	<ul style="list-style-type: none"> Proceedings Weinsberg febr.2000. Proceedings Ashford okt.2000

M.Trapman

pear scab: lime sulfur, sulfur, growth control	LBI, FPO, DLV	1999-2001	
canker: storage lime in autumn, also through sprinkle irrigation system, wound covering agents.	LBI, FPO	1999-2001	<ul style="list-style-type: none">• in Obstbau 2000-9• proceedings Weinsberg 2000.
organic nursery stock: collecting experiences and describing bottle necks	LBI	1999	<ul style="list-style-type: none">• Annual report fruit LBI 1999• Dutch publication LBI 1999
leave series: methodical work	LBI	1992-1999	<ul style="list-style-type: none">• Dutch and English report LBI 2000
fruit quality: comparing orchards, number of seeds, growth control, bearing level.	LBI	1996-2002	<ul style="list-style-type: none">• Annual report fruit LBI 1999• intern D1998)• Dutch report 1998
parameters for fruit quality: (methodical project)	LBI	2000-2001	<ul style="list-style-type: none">• no publications yet
	Kwalis (D)		Growing series of Elstar with one factor (bearing, light, picking time, shelf life period) and comparing many parameters.
	Heilmann (D)		
	Meluna (NL)		
fruit quality: supporting org. fruit growers to improve outer and inner quality	LBI +partners	2001-2003 in preparation	
general: future vision, knowledge transfer,	LBI, DLV, FPO		<ul style="list-style-type: none">• Dutch handbook for converting organic fruit orchards (DLV 1999)• Dutch handbook for nature management in the orchard (DLV+LBI 1998)• Dutch LBI-report about future options for org. fruit growing (1998)• Dutch Information for organic fruit growers (update LBI+DLV 1999)

LBI = Louis Bolk Instituut (research organic agriculture), Joke Bloksma, Pieterjans Jansonius,

Hoofdstraat 24, NL 3972 LA Driebergen, tel: 0031-343-517814, fax: 0031-343-515611. jbloksma@worldonline.nl
pj@jansoniuspj.demon.nl. Annual reports on organic fruit growing at www.louisbolk.nl.

FPO = Fruitteelt Praktijk Onderzoek (research station for fruitgrowing), Rien van der Maas, Frans van Alebeek,

Bart Heijne, Postbus 200, NL 6670 AE Zetten; tel. 0031-488-473700.

DLV = De LandbouwVoorlichting, (extension service, team organic agriculture), Gerjan Brouwer, Vermeerstraat 82,
NL 3817 DH Amersfoort, tel. 0031-33-4624521.

Marc Trapman (extension service), Dorpstraat 32, NL 4111 KT Zoelmond, tel. 0031-345-502627.

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Subject	Participating organisations	period	publications
Aphid control with insecticidal soap	UH, LVWO, Fa. Neudorff, LfP Stuttgart	1993	<ul style="list-style-type: none"> • Proceedings Weinsberg, 1993
Development of a new botanical insecticide based on Neem and plant-oils: efficacy against aphids, winter moth larvae; side effects on beneficials; analysis of residues on the fruits	UH, Fa. Trifolio-M GmbH, LVWO, fruit growers	1994-1997	<ul style="list-style-type: none"> • Proceedings Weinsberg, 1995-1997 • Proceedings Neem-workshop 1995-1997 • Gesunde Pflanze, 4, 1997 • Biologische Pflanzenschutzverfahren im Erwerbsobstbau, Proceedings meeting 1998, Hohenheim (Ed. UH) • Neem-Info 1996 (Ed. UH) • Neem-Info 1997 (Ed. UH) • And others (we cannot list all)
Quality of scab-"resistant" varieties: fruit tasting with various groups	UH, LVWO,	1995	<ul style="list-style-type: none"> • Proceedings Weinsberg 1995
Quality and agronomic characteristics of scab-"resistant" varieties: Summary of the experiences of fruit growers and research stations	UH, SLVA Ahrweiler, T. Kuntz, diff. fruit-growers	1996-1997	<ul style="list-style-type: none"> • Sorten-Info 1996 (Ed. Kienzle, Kuntz, SLVA) • Updates for 1997 (Ed. dto.)
Multiple effects of different biological products (Natrium hydrogencarbonat, lime sulphur, soap ecc.) and optimal timing for sooty blotch control	UH, LVWO, diff. partners	1997	<ul style="list-style-type: none"> • Proceedings Weinsberg 1997
Combination of Neem and insect pathogens for the control of winter moth and leafroller larvae	UH, diff. partners	1997-2001	<ul style="list-style-type: none"> • Biologische Pflanzenschutzverfahren im Erwerbsobstbau, Proceedings meeting 1998, Hohenheim (Ed. UH) • Deutsche Pflanzenschutztagung 1998 •
Combination of different methods for codling moth control: optimizing codling moth control in organic fruit growing	UH, diff. partners		<ul style="list-style-type: none"> • Proceedings of the IOBC-Meeting "Practical use of pheromones in orchards and vineyards", 1999, in press • Obstbau, 6, 2000 • Obstbau 1/2001, in preparation
Calculations of cost-effectiveness of different combinations of biological methods for insect control	UH, UH (Institute for Economy)	1999-2002	<ul style="list-style-type: none"> • Still unpublished
Optimization of cultural methods in biological nurseries	UH, AGOEB, different biol. nurseries	2000-2003	<ul style="list-style-type: none"> • still unpublished
Quality control of Quassia extracts	UH, Fa. Biofa, Fa. Trifolio M	2000	<ul style="list-style-type: none"> • Internal communication for customers of Fa. Biofa

UH = University of Hohenheim, Institute of Phytomedicine, Dep. of Applied Entomology, D-70593 Stuttgart

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LVWO = LVWO Weinsberg, Traubenplatz 5, D-74189 Weinsberg

LfP = Landesanstalt für Pflanzenschutz, Reinsburgstr. 107, D-70197 Stuttgart

SLVA = SLVA Ahrweiler, Walporzheimer Str. 48, 53474 Ahrweiler, Tel. ++49 2641 978617 (J. Zimmer)

AGOEB = Arbeitsgemeinschaft Ökologischer Baumschulen, D-27404 Zeven-Badenstedt

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Research into organic fruit growing by Laimburg overview Nov.2000

subject	Participating organisations	period	publications
apple scab product screening, application technique, forecasting models	VZL	permanent since 1994	<ul style="list-style-type: none">• Annual report org. agric. VZL 1994-98 (a);• Handbook (c);• Abstracts of the conference "8. und 9. Intern. Erfahrungsaustausch über Forschungs-ergebnisse zum ökol. Obstbau"; FÖKO; Weinsberg; Germany.• Abstracts of the conference "Ricerca e Sperimentazione in Agricoltura Sostenibile nel 1996"; Centro Documentazione Agricoltura Sostenibile; Cesena; Italy.
apple mildew product testing	VZL	1997 - 2000	<ul style="list-style-type: none">• Annual report org. agric. VZL 1994-98 (a);• Handbook (c);
Ryania speciosa efficiency against different pests, formulation of extracts, analysis	VZL-Mipaf b)	1998 -2000	<ul style="list-style-type: none">• Annual report org. agric. VZL 1994-98 (a);• Handbook (c);
woolly aphid testing products and method	VZL	1998 -2000	
rosy aphid testing products and method	VZL	1995 -2000	<ul style="list-style-type: none">• Annual report org. agric. VZL 1994-98 (a);• Handbook (c);
voles and mice testing products and method	VZL	1998	<ul style="list-style-type: none">• Annual report org. agric. VZL 1994-98 (a);• Handbook (c);• Abstracts of the conference "9. Internationaler Erfahrungsaustausch über Forschungsergebnisse zum ökol. Obstbau"; FÖKO; Weinsberg; Germany• Annual report org. agric. VZL 1994-98; Handbook for organic apple orchard and vineyard management,
various insects: Cydia pomonella, Cydia molesta, Hoplocampa testudinea a.o.	VZL	permanent	<ul style="list-style-type: none">• Annual report org. agric. VZL 1994-98 (a);• Handbook (c);
thinning effect of different products,	VZL	permanent since 1994	<ul style="list-style-type: none">• Annual report org. agric. VZL 1994-98 (a)• Handbook (c);

thinning and application techniques, mechanical thinning			<ul style="list-style-type: none"> • Riv. di Frutticoltura 1998, 4 • Abstracts of the conference "7. Internationaler Erfahrungsaustausch über Forschungs-ergebnisse zum ökol. Obstbau"; FÖKO; Weinsberg; Germany. • Erwerbsobstbau 1997, 5. • Obstbau Weinbau 1997, 9 and. 10.
variety testing	VZL	permanent since 1994	<ul style="list-style-type: none"> • Annual report org. agric. VZL 1994-98 (a); • Handbook (c); • Riv. di Frutticoltura 2000, 6.
adaptation to different pedoclimatic conditions, postharvest characteristics			
soil management	VZL	permanent since 1994	<ul style="list-style-type: none"> • Annual report org. agric. VZL 1994-98 (a); • Handbook (c);
weed control, green manuring, compost and other organic fertilizers			

a) the Annual report org. agric. VZL is published in German and Italian.

b) founded by the Ministry of Agriculture and Forestry.

c) Handbook for organic apple orchard and vineyard management.

contact name + adress:

VZL = Research Centre Laimburg, organic agriculture group, Loc. Vadena, I-39040 Posta Ora (BZ) ITALY

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Research in organic fruit growing in Austria overview Nov.2000

subject	Participating organisations	period	publications
apple scab (<i>Venturia inaequalis</i>) and apricot leaf scorch (<i>Gnomonia erythrostoma</i>) Reduction of inoculum by post-leaffall treatments	BFL	1997-1999	<ul style="list-style-type: none"> • 1. Symposium Phytopathologie Gartenbau 19./20.11.1998 (BOKU 1998) • Mitteilungen Klosterneuburg Vol. 49, p 237-240 (HBLVA Kl. 1999)
apple scab: Reduction of copper concentrations in organic control	BFL	1997	<ul style="list-style-type: none"> • In: Pflanzenschutzberichte Band 58, Heft 1, p 7-12 (BFL 1997)
apple varieties: organic and integrated cultivation in comparison	HBLVA	1998-2003	
apple varieties: suitability of scab resistant varieties	BOKU; HBLVA LVA; LVZ	1997-2002	<ul style="list-style-type: none"> • thesis Spornberger (BOKU 2000)
apricot varieties: cultivar suitability to organic production	BOKU	1997-2002	<ul style="list-style-type: none"> • thesis Spornberger (BOKU 2000)

fruit quality: electrochemical research methods	LVZ	1995-2005	<ul style="list-style-type: none"> • Mitteilungen Klosterneuburg Vol. 46, p 93 (HBLVA Kl. 1996)
organic fruit growing: possibilities for improving cultivation systems	BOKU	1997-2000	<ul style="list-style-type: none"> • thesis Spornberger (BOKU 2000) • Proceedings Weinsberg 2000
peach: cultivar- susceptibility to Taphrina deformans, suitability to organic production	BOKU	1996-2000	<ul style="list-style-type: none"> • Proceedings Weinsberg 1997 • 1. Symposium Phytopathologie Gartenbau 19./20.11.1998 (BOKU 1998) • thesis Sinkovits (BOKU 2000) • thesis Spornberger (BOKU 2000) • Besseres Obst 44, 3, p 6-10
pear varieties: organic and integrated cultivation in comparison	BOKU	1997-2003	<ul style="list-style-type: none"> • thesis Spornberger (BOKU 2000)
research problems: Survey of the current problems in organic fruit growing in Austria and requirements for future research	BFL BOKU	1995-1996	<ul style="list-style-type: none"> • In: Pflanzenschutzberichte Band 56, Heft 2, p49-58 (BFL 1997) • thesis Steffek (BOKU 1996)
strawberry: control of Botrytis cinerea in organic farming	BOKU FiBL (CH)	1998-2000	<ul style="list-style-type: none"> • 1. Symposium Phytopathologie Gartenbau 19./20.11.1998 (BOKU 1998) • thesis Kajtna (BOKU 1999) • thesis Spornberger (BOKU 2000) • Besseres Obst 45, 9, p 12-16
strawberry varieties: cultivar suitability to organic production	BFL BOKU	2001-2002	
strawberry: biological control of Otiorrhynchus sp. with entomopathogenic nematodes	BFL	1988-1990	<ul style="list-style-type: none"> • Besseres Obst 34, 9, p 251f.
strawberry: control of Anthonomus rubi	BFL	1994-1995	<ul style="list-style-type: none"> • In: IOBC/WPRS-Bulletin, 21 (10), p 103-105.

BFL: Federal Office and Research Center for Agriculture, Dep. Biological Plant Control – Horticulture, Institute for Phytomedicine, Robert Steffek, Sylvia Blümel, Spargelfeldstrasse 191, A-1226 Vienna tel.: +43-1-73216 (5171 Steffek, 5154 Blümel), robert.steffek@bfl.at, sylvia.blümel@bfl.at

BOKU: Institute of Fruit Growing and Horticulture, University of Agricultural Sciences, Andreas Spornberger, Gregor Mendel Str. 33, 1180 Vienna; Tel.:+43-1-47654-3402, Fax -3449; spornber@edv1.boku.ac.at, e-mail: <http://www.boku.ac.at/iog>

FiBL (CH): Forschungsinstitut für Biologischen Landbau

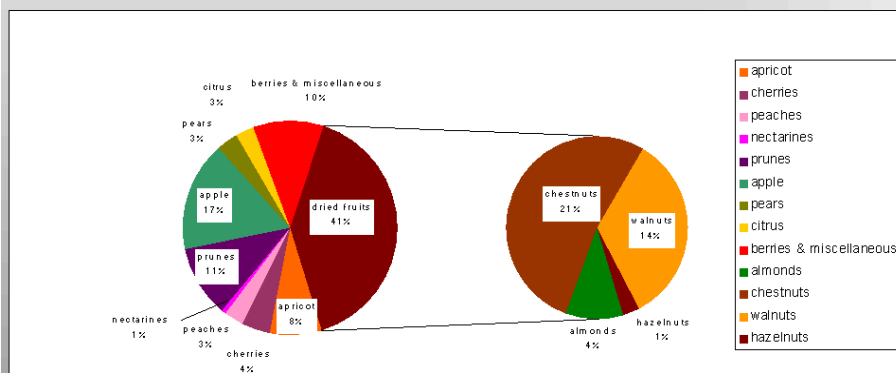
HBLVA: Höhere Bundeslehranstalt und Bundesamt für Wein- und Obstbau, Lothar Wurm, Wienerstraße 74, 3400 Klosterneuburg, Tel.:+43-2243-37910, Fax -26705; direktion@hblawo.bmlf.gv.at

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FRENCH ORGANIC FRUIT SURVEY

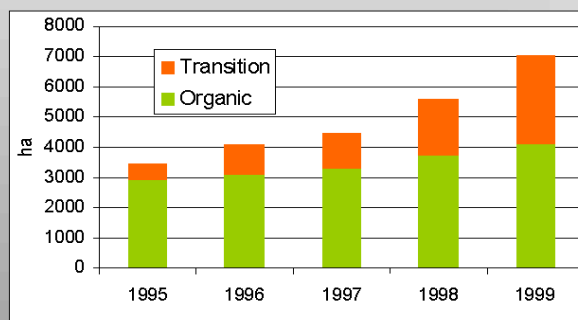
Distribution of organic fruit cultivation in France



(ONAB, 1999)

East Malling - F. Warlop - Oct. 2000

Evolution and distribution of organic fruit cultivation in France



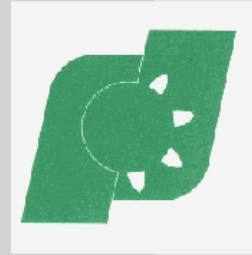
(ONAB, 1999)

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French evolution of research for organic farming

1979 : GRAB was created

- private non lucrative association
- investigations decided by growers administrators



First works focused on *quality of organic production* and impact on health, and *soil nitrogen management*

1981 : Organic Farming is officially recognized by government



2000 : 14 people working in GRAB, 2 teams for perennial and vegetable crops

National network with local developing structures, national institutes : INRA, CTIFL...

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