

Questionnaire on organic fruit and berry production in Europe.

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Background.

On the EUFRIN meeting in Girona, Spain, November 1998 it was decided that one of the specific tasks for the meeting in Laimburg should be preparing a questionnaire for organic fruit production in Europe. In August 1999 we send out a questionnaire for all the EUFRIN participants. All 14 members have answered the questions.

Organic fruit production:

The organic fruit production is biggest in Southern Europe and France (Table 1). In Greece the organic production has not become a trend yet. The organic grown area is probably biggest in Italy, but the information is not very accurate as the information is mixed with vegetable production. The biggest organic crops produced are olives, grapes and dry fruits (Table 1).

In central and Northern Europe the area grown with organic fruit and berries are less then 500 ha. per country. With Germany as an exception with nearly 1000 ha. Apples and strawberries are probably the most important crops here.

It is very difficult to know how big the production is because most of the production is for home sale or for direct sale on the market. However, the figures from Portugal and United Kingdom are very accurate.

Most country gives subside to the organic production, with Sweden as an exception. The normal amount of subsidy is between 400 to 850 Euro per ha. Per year. The Netherlands has the biggest subsidy with 11.344 Euro per ha per year the first 5 years (Table 2).

Guidelines and progress in production and research.

Most countries have a national guideline or they use the guidelines published by the European Union (Table 2). When it comes to which products that are allow using against pest and diseases there are many different rules depending on the national regulations. Many countries are allowed to use most of the substances written on the EU-list. But especially in the Scandinavian countries only a few compounds are free to use. The most important difference is that in Norway and Denmark are not allowed to use any copper compounds to control diseases (Table 2). In Denmark copper has been banded for 5 years. This in combination with 3-4 year in a row with heavy apple scab infection has caused big problems for the growers. This is some of the reason for a decline in the production (Table 2).

In nearly all European countries there are an increasing interest for organic production. The consumers have a big demand for organic produced food. This trend is supported by the governments, which support the research.

Ongoing research:

There are many trails started inside the subject: organic production of apples, whereas research inside other species are lacking (Table 3).

Especially Austria, Denmark, Sweden, Switzerland and The Netherlands seem to have big research programs (Table 3).

Conclusion:

- 1. All countries have answered the questions. This is a very satisfactory.
- 2. In many countries the information's about the organic productions is limited or not very exact.
- 3. The biggest organic crops produced are olives, grapes and dry fruits. In central and northern Europe apples are the most important crop.

4. Most country gives subside to the organic production. The normal amount of subsidy is 400 to 850 Euro per ha per year.

5. Norway and Denmark are not allowed to use any copper compounds to control diseases.

6. In most countries there are an increasing trend towards organic production

7. There are many ongoing trails inside the subject apples, whereas researches inside other species are lacking.

Table 1. The total area grown with organic fruits and berries, the sort of fruits, the size of production and the level of subsidies in 13 European countries.

Country	Total area	Sort of fruits	Size of	Subsidies
0000000	with fruits		production	Euro/ha/year
	and		ton/year.	
	berries/ha		ton year.	
Austria	430	Apples, currants,	No information	727
1 usti la	150	strawberries, Pears,	available	121
		Apricot, cherries, peaches,		
		plums.		
Belgium	209	Apples, pears, strawberries	No information	744, first two
			available	years then 842.
Denmark	306	Black currants,	80-200 most black	406, first two
		Strawberries, Apples, sweet	currants.	years. Then
		cherries.	Information not very	gradual reduced
			exact.	until 6 th year.
France	3.715	Chestnut, Apples, plums,	No information	762, first 3 years.
		walnut, apricots, cherries,	available	
		Pears.		
Germany	980	Apples, pears, plums,	No information	511 in Baden-
		peach, sour and sweet	available	Württenberg
		cherries, strawberries,		
		raspberries,		
		redcurrants, black currants,		
		gooseberry and black		
Greece	No	berries.	No information	Cnomoci 609
Greece	information	Olives, grapes.	available	Grapes:608
	available		available	
Italy	152.000	Olive, grapes, citrus, fruit	206.000.000	460
Itury	fruit and	Shive, grupes, endus, nan	(1-2% of total)	100
	vegetables		(/ · · · · · · · · · /)	
Norway	57	Apples, pears, plums,	No information	727 first two
U		cherries, black currants,	available	years then
		strawberries, raspberries,		subsequent 182.
		blue berries.		
Portugal	16.733	Manly olives, grapes and	736.104	From 180 to 603.
		dry fruits. But also citrus,	(0,8 % of total	Depending on
		peach, plums, carob,	production).	the species and
		quince, apples, and		irrigated or not.
		strawberries.		
Spain	2.215	Apples, pears, peaches,	No information	460
<u>a</u>	100	Citrus and olives	available	
Sweden	189	Strawberries	No information	None
		Apples	available	
<u>C</u>	276	Other berries	A	(22)
Switzerland	276	Apples, pears, cherry,	Apples app:	622
		plums, apricot, kiwi,	2-4.000	
		strawberries, raspberries,		
The	200	blueberries, black berries	4-6.000	11 244
The	280	Apples,	4-0.000	11.344,

Netherlands		Pears, plums, cherries.		first 5 years.
United	456	Apples, pears,	2.739	706,
Kingdom		Plums, cherries,		spread over 5
		strawberries, raspberries.		years.

Table 2: Country, national guidelines, use of copper and progress in researchand production.

Country	National	Use of	Progress	Progress	
	guide lines	copper products	in production	in research	
Austria	Organisations	Yes	Slow	Increasing	
			increase	very slow	
Belgium	EU	Yes	Slow	Increasing	
			increase		
Denmark	Yes	No	Declining	Increasing	
France	Yes	Yes	Increasing.	Increasing	
Germany	Yes	Yes	?	?	
Greece	EU	Yes	No trend	No trend	
Italy	EU	Yes	Increasing	Increase	
				expected	
Norway	Yes	No	Increasing	Increasing	
Portugal	EU	Yes	Increasing	Statuesque	
Spain	EU	Yes	?	?	
Sweden	Yes	Yes	Increasing	Increasing	
Switzerland	Yes	Yes	Increasing	?	
The Netherlands	EU	Yes	Increasing	Increasing	
United Kingdom	Yes	Yes	Increasing	Increasing	

Country	Apples and pears	Olives Sweet Black Stra				
·		and	cherries	currants	berries	
		citrus				
Austria	 Testing of scab resistant varieties. Testing of pear varieties. Compare different farming systems in apples. Possibilities to minimise overwintering of conidia of apple scab, apricot leaf scorch and cherry leaf spot. 					
Belgium	1. A lot of research projects carried out at the universities and at experimental garden for organic production.					
Denmark	 Variety testing of scab resistant varieties and others. Cover crops. Leaf shredding to prevent scab. Soil management in the tree row. Soil management and fertilising using sea weed. Combination of chicken and apples, pears and hazelnuts. Production with and without using sulphur. Scab resistant varieties for cider production. 		1. Varieties.	 Varieties. Variety Variety tolerance to sulphur. 3. Production on legs. 4. Cover crops. 	1. Varieties 2. Techniqu es to reduces botrytis.	
France	1. Some, more required.					
		?	?	?	?	
Germany Greece	1. Probably none.	•	•	•	•	
Italy	 1. Compare production systems. 2. Soil fertility 					
Norway	1. An orchard management system for organic fruit production and smaller projects.					
Portugal		 Study the main olive tree enemies. Study of organic citricultur e 				
Spain	1. Some organic related projects.					
Sweden	1. Variety trails.			1		

Table 3: Organic research in 13 European countries.

			I
	2. Fertiliser trial.		
	3. Soil management and		
	mulching.		
	4. Varieties for mulching.		
	5. The effect of Mychorritzae.		
	6. Plant protection.		
	7. Alternatives to pesticides for		
	storage diseases.		
Switzerland	1. Varieties.	1.	1. Control
	2. Comparison integrated and	Varieties.	of grey
	organic productions systems		mould.
	on different sites.		
	3. Thinning.		
	4. Soil management.		
	5. Preventing bitter pit.		
The	1. Rootstocks and interstems.		
Netherlands	2. Growth control using non-		
	chemical means.		
	3. Varieties.		
	4. Nitrogen nutrition.		
	5. Development of innovative		
	organic fruit production systems.		
	6. Fruit thinning.		
	7. Scab management in apples		
	and pears.		
	8. Nectria management.		
	9. Economical position of organic		
	fruit farms.		
	10. Soil management.		
	11. Regulation of growth, crop		
	and mineral uptake.		
	12. Reducing or replacing copper		
	for scab control.		
	13. Prevention of Scan		
	Scab forecasting models.		
	14. Organic pear production.		
United	Review projects: 1. Technical		
Kingdom	and economic problems, 2.		
	Control of weed.		
	3. Varieties.		
	4. Fruit on their own root.		

Information's are greatly appreciated:

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