

SURVEY METHODS USED BY THE MEMBER STATES-BASIC SURVEY 2002

	BELGIUM	DENMARK	GERMANY	GREECE
1. Coverage				
1.1 Species surveyed				
1.1.1 Based on Directive	Apples, pears	Apples, pears	Apples, pears	Apples, pears, peaches, apricots, oranges, small-fruited citrus, lemons
1.1.2 Others		None	peaches, apricots, plums, cherries, walnuts	cherries
1.2 Holdings (minimum threshold of orchards)	No threshold: all holdings producing fruit for sale 1 are: all holdings producing species not for sale	All holdings with surfaces planted with apple and pear trees	Holdings with at least 30 ares of the defined species, producing fruit for sale	Holdings with at least 10 ares (0,1 hectare) planted with the defined species
2. Type of survey	Complete enumeration	Complete enumeration	Complete enumeration	Random sampling in one stage
3. Survey date	1 November 2002	June 2002	January-June 2002	May-July 2002 Reference period
4. Survey characteristics				
4.1 Orchard area considered	Net area	Net area	Net area	Net area
4.2 Varieties	Pre-selected list of major varieties, plus "others"	Pre-selected list of major varieties, plus "others"	Exhaustive coverage of varieties	Pre-selected list of major varieties, plus "others"
4.3 Age	Age classes determined from the year of planting	Age classes determined from the year of planting	The actual year of planting (autumn or spring)	The actual year of planting (autumn or spring)
4.4 Density	Surveyed directly on site or calculation based on planted area	Calculation based on planted area and the number of trees	Calculation based on the number of trees per hectare or on tree spacing in and between rows	Calculation based on planted area

	SPAIN	FRANCE	IRELAND	ITALY
1. Coverage				
1.1 Species surveyed				
1.1.1 Based on Directive	Apples, pears, peaches, apricots, oranges, small-fruited citrus, lemons	Apples, pears, peaches, apricots, oranges, small-fruited citrus, lemons	Apples	Apples, pears, peaches, apricots, oranges, small-fruited citrus, lemons
1.1.2 Others	Cherries, plums	Plums, cherries, kiwis, nuts		Kiwis, cherries, plums and figs
1.2 Holdings (min. threshold of orchards)	Holdings with at least 50 ares producing fruit for sale (smaller plots included if producing for sale)	Holdings with at least 30 ares of orchard area	All holdings with commercial orchard area	All holdings producing fruit mainly for sale
2. Type of survey	Area Frame sampling	Random sampling	Complete enumeration	Random sampling with a margin of error of 3% at national level and 5% for the regional level.
3. Survey date	February-December 2002	January- June 2002	July-December 2002	October-December 2002
4. Survey characteristics				
4.1 Orchard area considered	Net area (calculated from gross area surveyed); including (pro-rata) areas of associated plantations. Trees in rows and isolated trees are not covered	Net area	Net area	Net area; including pure area, (pro-rata) areas of mixed plantations. Isolated trees are not covered
4.2 Varieties	Pre-selected list of major varieties, plus "others"	Pre-selected list of major varieties, plus "others"	Exhaustive coverage of varieties	Exhaustive list, plus "others"
4.3 Age	The actual year of planting	The actual year of planting (autumn or spring)	The actual year of planting	The actual year of planting or grafting (
4.4 Density	Calculated on the basis of tree spacings in and between rows	Calculated on the basis of tree spacings in and between rows giving the number of trees per hectare	Calculation based on planted area and the number of trees per hectare	Calculated on the basis of planted area

	LUXEMBOURG	NETHERLANDS	AUSTRIA	PORTUGAL
1. Coverage				
1.1 Species surveyed				
1.1.1 Based on Directive	Apples, pears	Apples, pears	Dessert apples, dessert pears, peaches, nectarines, apricots	Apples, pears, peaches, oranges, apricots, small-fruited citrus, lemons
1.1.2 Others	Plums, cherries, nuts	Plums, cherries, bilberries, raspberries, berries, stone fruits	Berries, elderberries, nuts, cherries, plums	Cherries, plums and kiwis
1.2 Holdings (minimum threshold of orchards)	Holdings with at least 15 ares of fruit trees of the defined species producing fruit for sale Concerning tall stem plantations, all plots with at least 100 trees are covered.	Holdings with 40 ares of pear trees and 50 ares of apple trees in standard holding units	Holdings with at least 15 ares of fruit trees of the defined species producing fruit for sale	Holdings with at least 15 ares of fruit trees of the defined species producing fruit for sale
2. Type of survey	Complete enumeration	Complete enumeration by post	Complete enumeration	Random sampling
3. Survey date	During 2002	April-June 2002	June 2002-September 2002 (date of reference: 1 June 2002)	April-May 2002
4. Survey characteristics				
4.1 Orchard area considered	Net planted area (certain rows of trees are considered :walnut and pear trees)	Net orchard area	All areas densely planted with species based on the Directive and other species (net orchard area)	Net area, including pro-rata areas of mixed plantations
4.2 Varieties	Pre-selected list of major varieties, plus "others"	Pre-selected list of major varieties, plus "others"	Exhaustive coverage of varieties	Pre-selected list of as many varieties as possible, plus "others"
4.3 Age	Actual year of planting (autumn or spring)	Actual year of planting (autumn or spring)	Actual year of planting (autumn or spring)	Actual year of planting (autumn or spring)
4.4 Density	In accordance with the direct survey of density	Number of trees per hectare in the plantation	Number of trees per hectare in the plantation	Calculation based on planted area

	FINLAND	SWEDEN	UNITED KINGDOM
1. Coverage			
1.1 Species surveyed			
1.1.1 Based on Directive	Apples	Apples, pears	Apples, pears
1.1.2 Others			Plums, cherries and other species
1.2 Holdings (minimum threshold of orchards)	Holdings with an area of at least 1 are planted with apples intended for sale	2500m ² of open-air horticultural crops (limited to fruits for sale)	Orchard areas with at least 30 areas of fruit trees producing fruit for sale
2. Type of survey	Complete enumeration by post	Complete enumeration by post	Complete enumeration for large holdings and sampling for smaller holdings
3. Survey date	June and July 2002	31.12.2002	June 2002
4. Survey characteristics			
4.1 Orchard area considered	Net area	Net area	Net area.
4.2 Varieties	Pre-selected list of major varieties, plus "others"	Pre-selected list of major varieties, plus "others"	Pre-selected list of major varieties, plus "others"
4.3 Age	The actual year of planting	The actual year of planting or grafting is recorded	The actual year of planting
4.4 Density	Calculation based on planted area and the number of trees	Number of trees per hectare calculated from the number in the field	Number of trees per hectare