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*Country specific crop area data transformations, clarifications and assumptions*

For all countries and datasets only bearing or harvested area was included where this was distinct from total sown area. Unless otherwise stated, reported area of beans and nuts were assumed to be non-insect pollinated species only.

In several southern European countries, tree and small fruit crops are reported in trees or bushes rather than area. To convert these into hectares, average densities of trees/ha were estimated from the average number of trees per hectare reported by the Hellenic Statistic Agency [77] and Republic of Macedonia State Statistical Office [78]. For soft fruit bushes where no official density estimates were available, a conservative estimate of 1000 per hectare was used. This conversion was only used for Southern European nations and usually produced more conservative estimates than those used by the FAO.

**FAOStat (2012) data** Beans (Dry) were assumed to be synonymous with field beans (*Vicia faba*) due to widely observed relations between this figure and field beans in countries where both figures were available. Berries nes were taken as “other soft fruit” Fresh fruit nes and Stone fruit nes were taken as “other top fruit”.

**Albania** FAOstat (2012) was used for all crops due to very limited official data availability.

**Armenia** FAOstat (2012) was used for all crops due to very limited official data availability.

**Austria** All fruit crops include both summer and winter planted area and both intensive and extensive area where applicable (e.g Strawberries). For Cucumbers and Peppers, only outdoor planted area was included.

**Belarus** FAOstat (2012) was used for all crops except Rapeseed and Buckwheat due to limited official data availability

**Belgium** Field and dry beans were assumed to be *Vica faba* only. Only courgettes and strawberries grown outdoors were included within the honeybee pollinated crop area.

**Bosnia and Herzegovina** FAOstat (2012) was used for Strawberries, Raspberries in 2005 as these crops were not officially reported in 2005. Area of tree fruit crops were estimated from the number of trees.

**Bulgaria** Dried beans was assumed to pertain to field beans *Vicia faba*. Morello cherries are synonymous with sour cherries.

**Croatia** Dry beans were assumed to be synonymous with field beans *Vicia faba*.

**Czech Republic** FAOstat (2012) data was used for Broad/Field Beans which are not officially reported and tree fruit crops and currants which are officially reported in the number of trees/bushes.

**Denmark** Area of currants was counted as blackcurrants and area of Cherries and Plums was counted as Sweet Cherries, as these have lower recommended stocking rate assumptions than other similar crops. Area of other pulses was estimated as the total area of pulses minus the area of all named pulses.

**Estonia** Area of Other fruits and Berries was counted as other top fruits as these have lower recommended densities than “other soft fruit”. Area of Apples and Pears was taken as Apples following FAOStat (2012).

**France** Area of Blackcurrants and Blueberries was counted as blackcurrants as these have the lowest recommended density assumptions of the two crops. For strawberries in 2005, field production was estimated as the total area multiplied by the proportion of 2010 crop grown in the open.

**Georgia** FAOstat (2012) was used for all crops due to limited availability of official data. Data from the National Statistics Office of Georgia (2008) indicates that dry beans refers to haricot beans (*Passeolus vulgaris*) which are not pollinated by honeybees.

**Germany** FAOstat (2012) was used for tree fruit data and poppy seed in 2005 and for Apricots, Peaches, Soft Fruits (except strawberries) and poppy seed in 2010.

**Italy** Area of Green Beans and Kidney Beans was counted as honeybee pollinated as kidney beans are unlikely to occupy a large area based on FAOstat (2012). Only area of outdoor grown watermelon, strawberry and courgette were included. Quinces, Sesame seed and Pomegranate are not reported separately in 2010

**Ireland** FAOstat (2012) data was used for Broad/Field Beans which are not officially reported.

**Hungary** For soft fruits, the proportion of total production accounted for each reported species was used to estimate the proportion of their crop area. 2010 Currants were assumed to be blackcurrants. Peppers were included due to the high scale of production which is mostly field growth. FAOstat (2012) data was used for 2010 Almond, Chestnut, Quince, Gooseberry and Other Top fruit area which were not nationally reported for 2005.

**Malta** FAOstat (2012) was used for all crops as no national data is available. 2003 Honeybee numbers were used for 2005 as this was the most recently available data.

**Macedonia** Area of tree fruit crops were estimated from the number of trees. Field/Broad Bean area was taken as the total maincrop area of beans plus half the area of intercrop beans. FAOstat (2012) data was used for soft fruits and sesame seed as these are not officially available.

**Moldova** Melons and Gords was taken as cucurbits as these have a lower RSR. Area of “other tree fruits” was taken as the remainder of stone fruit and seed fruits after all named crop area had been accounted for. FAOStat (2012) was used for almond area.

**Montenegro** Area of tree fruit crops were estimated from the number of trees.

**Netherlands** The entry Red currants, Raspberries, Blackberries is counted as part other soft fruit in 2010. FAOStat (2012) estimates were used for Blueberry and Plum area in 2005 which were not recorded. No data was available for 2005 coverage of sour cherries.

**Norway** Oilseeds was taken as area of oilseed rape, approximately validated by FAOStat (2012). As no official 2010 data concerning the number of honeybee colonies could be obtained it was instead assumed that stocks had remained unchanged.

**Poland** Area of seed crops not accounted by grass seeds was assumed to be sainfoin. FAOStat (2012) estimates were used to disambiguate areas of “other” soft fruits and tree fruits which includes some crops which are not insect pollinated (Walnuts, Grapes and Hazelnuts).

**Portugal** FAOStat (2012) was used for strawberries, peaches & nectarines, avocados, broad beans and fruiting vegetables.

**Romania** FAOstat (2012) data was used for tree fruit crops and berries which are officially reported in the number of trees/bushes.

**Serbia** Area of tree fruit crops were estimated from the number of trees. Beans was synonymous with broad/field beans.

**Slovakia** FAOStat (2012) was used for field/broad beans. Gages are synonymous with plums.

**Slovenia** Berry bushes without strawberries was taken as “other soft fruit”. Oil turnip rape is synonymous with oilseed rape.

**Spain** Area of dried beans was taken as a total area of field/broad beans

**Sweden** FAOStat (2012) was used for Raspberries, blackcurrants, other berries, pears, cherries and plums in 2010 as this data is only officially collected every 3 years.

**Turkey** FAOStat (2012) was used for Cucumbers, Pumpkins and Melons. Area of tree fruit crops were estimated from the number of trees. Cornel was included as “other top fruit”.

**Ukraine** Area of “other top fruit” was estimated from the total area of seed and stone fruits minus any named crops. Area of “other soft fruit” was estimated from the total area of berries minus any named crops. FAOstat (2012) data was used for Broad/Field Beans.

**United Kingdom** Sweet cherries are not recorded separately in 2010 and are included in other top fruit. Honeybee numbers from 2000 are used for 2005 and values from 2008 are

**Supplemental Table 1.1** Regional classification of countries

|  |  |  |  |
| --- | --- | --- | --- |
| North | East | South | West |
| Denmark | Belarus | Albania | Austria |
| Estonia | Bulgaria | Armenia | Belgium |
| Finland | Czech Republic | Bosnia & Herzegovina | France |
| Ireland | Hungary | Croatia | Germany |
| Latvia | Moldova | Cyprus | Luxembourg |
| Lithuania | Poland | Georgia | Netherlands |
| Norway | Romania | Greece | Switzerland |
| Sweden | Slovakia | Italy |  |
| United Kingdom | Ukraine | Macedonia |  |
|  |  | Malta |  |
|  |  | Montenegro |  |
|  |  | Portugal |  |
|  |  | Serbia |  |
|  |  | Slovenia |  |
|  |  | Spain |  |
|  |  | Turkey |  |

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