

LUCAS 2012 (Land Use / Cover Area Frame Survey)

Technical reference document C-3 Land use and Land cover Classification (revised)

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DOCUMENT CHANGE RECORD			
ISSUE	DATE	CHANGE AUTHORITY / AUTHOR	REASON FOR CHANGE AND AFFECTED SECTIONS
3.5	08/02/2012	Eurostat / E4.LUCAS	Update after Training Workshops and Coordination meeting with Eurostat 03.02.2012
1.1	03/01/2013	Eurostat / E4.LUCAS	Update review at the LUCAS2012 Campaign final.
1.2	04/10/2013	Eurostat / E4.LUCAS	Clarifications and corrections related to the basic unit of observation and extended window of observation across the document. Removal of references for U364 - Nature reserves.
4.1	31/01/2025	GOPA Luxembourg S.à.r.l. Eurostat / E4.LUCAS	Updated photos, explanations and copyright information. <u>Addition:</u> B75 Other fruit tree and berries (Part II)



Scope and Introduction

This document is part of a series of reference documents defining the framework of the Land Use / Cover Area frame statistical Survey (LUCAS). The LUCAS reference documents are continuously improved and adapted taking into account the experience from the implemented surveys and the requirements of the LUCAS data & information users.

This document gives detailed information about the land cover and land use classification system of the LUCAS survey. Information about the implementation of the survey in general and of all other parameters and the way how they should be surveyed can be found in reference document C-1 Instructions for Surveyors.

The LUCAS Survey classification has separate classification systems for land cover (LUCAS SU LC) and land use (LUCAS SU LU). Land cover is the physical cover of the Earth's surface and land use is the socio-economic function of the land.

The same classification is applied in all EU countries in the LUCAS survey. It also allows comparisons in time. It is as much as possible compatible with the existing land cover/use systems (e.g. FAO, NACE and Farm Structure Survey).

Land cover

Land cover has eight main categories, which are indicated by letter:

- A. Artificial land
- B. Cropland
- C. Woodland
- D. Shrubland
- E. Grassland
- F. Bare land
- G. Water
- H. Wetlands

Every main category has subclasses, which are indicated by the combination of the letter of the category and digits. The most detailed class is to be used during the survey. Altogether, there are 84 classes. Each class is described by the following characteristics:

Land Cover

- code and title of the class
- short definition of the class
- inclusions ("This class includes"),
- exclusions ("This class excludes"),
- the principle observation rule
- and the "Links with land use".

Land use

Land use is the description of the same areas in terms of their socio-economic function. For rare and exceptional combinations, please consult Annex 4 & 5 (Matrix of combinations) of C-1 Instructions for Surveyors. Land use has 14 main categories. It has altogether 33 classes, which are indicated by the combination of the letter "U" and three digits. Each class is described by the following characteristics:

- code and title
- short definition of the class
- inclusions ("This class includes") according to the NACE classification¹ if it is possible,
- and exclusions ("This class excludes") with the correct land use code.

¹ Statistical Classification of Economic Activities in the European Community, Rev. 1.1 (2002) (NACE Rev. 1.1)

LUCAS survey classification comparison LUCAS 2009 -LUCAS 2012

The LUCAS 2012 Survey classification is not fundamentally different from the 2009 survey classification. Main changes are the following:

- Energy crops (e.g. Miscanthus) are assigned to B84 Permanent Industrial Crops
- In the class B43 Fresh vegetables all roots-bulbs-tubers (carrots [Daucus carota], garlic [Allium sativum],onions [Allium cepa], radishes [Raphanus sativus], red beet [Beta vulgaris var. conditiva], shallots [Allium ascalonicum], turnips [Brassica rapa var. rapifera]) were moved to B23 Other root crops
- The forest types according to the EUNIS classification on forests http://eunis.eea.europa.eu/about.jsp) remains to be assigned under the condition that the woodland exceeds 0.5ha in size and 20m in width.
- Introduction of new LC classes:
 - Spruce (C21) and pine (C22) dominated coniferous and other coniferous (C23) woodland;
 - This implies introduction of spruce (C31) and pine (C32) dominated as well as other woodland (C33).
- Introduction of new LC classes under F00 Bare land and lichens/moss:
 - F10 Rocks, F20 Sands, F30 Lichens and moss & F40 Other bare soil.
- Suppression of classes:
 - U150 Hunting has been suppressed (moved to special status in field form)
 - o U364 Nature reserve has been suppressed (moved to special status in field form).

Land cover and land use: General explications

In general, the establishment of nomenclatures follows some principles:

- Spatial consistency: the data shall be comparable over different regions and applicable to different regions. It means that the nomenclature is applicable to any region, knowing that there will be classes without any entry because not all classes exist in all regions.
- Temporal consistency: Observation of stocks allows change detection over time, e.g. construction site of a road is a construction site and not yet a road.
- Compatibility with existing systems (e.g. FSS, NACE, FAO). This means that when defining classes, existing nomenclatures shall be taken into account. It does not mean that any class definition from another nomenclature can be taken one-to-one. There is a trade-off to be done.
- Independency from observation method. The observation method shall not interfere in the definition of the nomenclature. On the contrary, the observation method shall be chosen to enable best the data collection according to the chosen nomenclature. Of course, there is always a trade-off to be made due to time/budget constraints. This can imply the collection of data at different detail resolution level of the nomenclature, if the data collection method does not allow retrieving the level of detail expected. For example remote sensing is hard to be used for the LUCAS classification at the 3rd level of detail.

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C3 Land use and Land Cover Classification - LUCAS Reference Documentation

- No gaps and no overlaps:
 - Exhaustive list of categories: no category "unclassified";
 - Each object belongs to only one category.

It means that for any type of land cover or land use, the nomenclature needs to provide a class. This implies that there shall be a possibility to include new classes, for example at a more detailed level. Hierarchical nomenclatures provide for that.

- Hierarchy of the nomenclature:

Another principle applied at the LUCAS nomenclature is that of a hierarchy in the classification system. This allows collecting information at different levels of detail. If there is no information available for a certain category at a 3rd or 4th level of the classification, there is still the possibility to extrapolate data on the upper level.

Specific to the LUCAS classification

In LUCAS, the concept of land is extended to inland water areas (lakes, rivers, coastal areas: estuaries, lagoons). The land concept does not embrace uses below the earth's surface (mine deposits, subways, mushroom beds, ground levels of buildings).

In the LUCAS classification, there is a clear distinction between land COVER and land USE.

LAND COVER = physical cover ("material") observed at the earth's surface

LAND USE = socio-economic function of the observed earth's surface

This separation enables a greater flexibility of the classification, i.e. it allows combining different LC and LU classes to retrieve specific information. For example: sealed track within arable land that is mainly used by the farmer to access the fields can be retrieved by combining the LC A22 with the LU U111.

Detailed definitions of the categories for both land use and land cover are to be found in the following chapters.

The basic unit and the extended window of observation

Of course, applying a classification in a defined framework of a data collection survey requires specifying a number of rules.

As the LUCAS Survey is a point survey, the size of the point in the real world needs to be defined.

The "point" (or basic unit of observation) is in fact a circle with a radius of 1,5m, corresponding to an identifiable point on an orthophoto.

As we have not only homogeneous classes that we would like to observe, for example forests (forest definition requires observing a certain area to define the crown coverage or canopy of the trees, orchards may consist in more than one tree species etc.) the LUCAS observation framework also specifies an observation area, the "extended window of observation" which is the area defined by a 20m radius around the point, for specified classes, indicated in this document.

There are many more rules defined for the data collection survey, which are detailed in the separate LUCAS Reference Document C-1 Instructions for Surveyors.

To aid in the identification of plant species, a Plant Identification Guide (LUCAS Reference Document C-5) was produced.

Land cover Classification (LUCAS SU LC) A00 Artificial land

Areas characterized by an artificial and often impervious cover of constructions and pavement.

A10 Built-up areas

Roofed constructions built for permanent purposes which can be entered by persons.

A11 Buildings with one to three floors

Roofed constructions with one to three floors or less than 10 meters of height in total.

This class includes:

- Single-family houses
- Mobile homes
- Summer cottages
- Industrial or cultural buildings or stores of less than 10m of height
- Agricultural buildings of less than 10m of height
- Market halls
- Temporary constructions
- Visitor stations or centres of less than 10 m of height

Principles of observation:

- Basic observation unit

Links with Land Use:

A11 > U111	Small agricultural buildings, farms, stables, poultry yards
A11 > U120	Small buildings used for forestry purpose
A11 > U130	Small buildings used for fishery production
A11 > U140	Small buildings used for mining and quarrying purposes
A11 > U210	Small buildings used for energy production purposes
A11 > U22x	Small industrial plants and buildings
A11 > U31x	Small buildings used for transport purposes
A11 > U32x	Small buildings used for waste and water treatment
A11 > U330	Small buildings in construction
A11 > U340	Small buildings used for commercial purposes
A11 > U350	Small buildings used for community services
A11 > U36x	Small buildings used for recreation or nature protection
A11 > U370	Individual residential houses
A11 > U410	Abandoned buildings

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A12 Buildings with more than three floors

Roofed constructions with more than three floors or more than 10 meters of height in total.

This class includes:

- Industrial buildings, stores, technical infrastructures of more than 10m of height
- Residential or cultural buildings of more than 10m of height
- Agricultural buildings of more than 10m of height
- Visitor centres of more than 10 m of height

Principles of observation:

- Basic observation unit

Links with Land Use:

A12 > U111	Tall agricultural buildings, farms, stables, poultry yards
A12 > U120	Tall buildings used for forestry purpose
A12 > U130	Tall buildings used for fishery production
A12 > U140	Tall buildings used for mining and quarrying purposes
A12 > U210	Tall buildings used for energy production purposes
A12 > U22x	Tall industrial plants and buildings, coking plants, blast furnaces
A12 > U31x	Tall buildings used for transport purposes: Railway stations, hangars, airport buildings
A12 > U32x	Tall buildings used for waste and water treatment
A12 > U330	Tall buildings in construction
A12 > U340	Tall buildings used for commercial purposes: garages, supermarkets, banks, stores, hotels, restaurants, offices
A12 > U350	Tall buildings used for community services: Administrative buildings, parliaments, ministries, town halls, law courts, fire brigade and police barracks, military buildings, hospitals, clinics, sanatoria, orphans, schools, universities, churches, monasteries
A12 > U36x	Tall buildings used for recreational or nature protection purposes: e.g. Libraries, Museums, Cinemas, Theatres, Stadiums, Sport halls, Visitor Centers
A12 > U370	Collective residential houses
A12 > U410	Abandoned buildings

A13 Greenhouses

Installations of glass, plastic or any other material which is translucent but impervious to water. If crops are identified they should be registered using the corresponding land cover category (double codification greenhouse + crop).

This class includes:

- All greenhouses, used or not

This class excludes

Crops covered by protection fabric without raised structures

Principles of observation:

– Basic observation unit.

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Links with Land Use:

A13 > U111	Greenhouses used for agricultural production
A13 > U113	Kitchen garden
A13 > U120	Forestry
A13 > U317	Greenhouses used for storage (caravans)
A13 > U330	Construction
A13 > U340	Greenhouses used for commercial purposes
A13 > U350	Community services
A13 > U361-3	Greenhouses of botanical gardens
A13 > U370	Greenhouses attached to residential use
A13 > U410	Abandoned greenhouses

A20 Artificial non-built up areas

Non built-up areas characterized by an artificial and/or impervious cover of hard artificial materials, concrete, gravel.

A21 Non built-up area features

Non built-up area features characterized by an artificial and/or impervious cover of hard artificial materials, concrete, gravel.

This class includes:

- Yards, farmyards
- Cemeteries
- Car parking areas, artificialised areas of railway station precincts and aerodromes
- Quays, loading and unloading zones
- Dry docks
- Open dump sites

This class excludes:

- Bare land (F00)

Principles of observation:

- Basic observation unit

Links with Land Use:

A21 > U111	Farmyards and parking areas attached to agricultural buildings
A21 > U120	Yards, parking areas attached to buildings used for forestry purpose
A21 > U130	Yards and parking areas attached to buildings used for fishery purpose
A21 > U140	Yards, parking areas, storage areas used for mining, quarrying
A21 > U210	Yards, parking areas, storage areas on industrial sites for energy production
A21 > U22x	Yards, parking areas, storage areas on industrial sites
A21 > U31x	Yards, parking areas, storage areas attached to railway stations, airports, motorways,

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A21 > U32x treatment	Yards, parking areas, storage areas attached to installations of waste and water
treatment	
A21 > U330	Yards, parking areas, storage areas attached to installations for construction
A21 > U340	Parking areas of supermarkets
A21 > U350	Parking areas of administrations; cemeteries
A21 > U36x	Parking areas of leisure and recreation activities, tennis courts
A21 > U370	Yards and parking areas of residential zones
A21 > U410	Abandoned non built-up area features

A22 Non built-up linear features

Non built-up linear features characterized by an artificial and/or impervious cover of hard artificial material, concrete or gravel (only linear features of more than 3m of diameter of width are to be registered).

This class includes:

Roads, railways, runways, bridges (width >3m)

This class excludes:

- Linear features less than 3m of width (not registered as land cover)

Principles of observation:

- Basic observation unit.

Links with Land Use:

A22 > U111	Roads used for agricultural purposes and accesses to farms
A22 > U120	Roads used for forestry purpose
A21 > U130	Roads used for fishery purpose
A22 > U140	Roads or railways used for specific mining, quarrying purposes
A22 > U210	Roads or railways used for specific energy production purposes
A22 > U22x	Roads or railways used for specific industrial purposes
A22 > U31x	Roads, railways, airport runways
A22 > U32x	Roads used for specific purposes of waste and water treatment
A21 > U330	Roads used for specific construction purpose
A22 > U340	Roads used for commercial, financial and business activities
A22 > U350	Roads used for specific purposes of community services; dykes
A22 > U36x	Roads used for specific purposes of recreation and leisure, riding tracks, car racing
circuits	
A22 > U370	Roads used for specific access of residential areas
A22 > U410	Abandoned non built-up linear area features

B00 Cropland

Areas where crops are planted and cultivated.

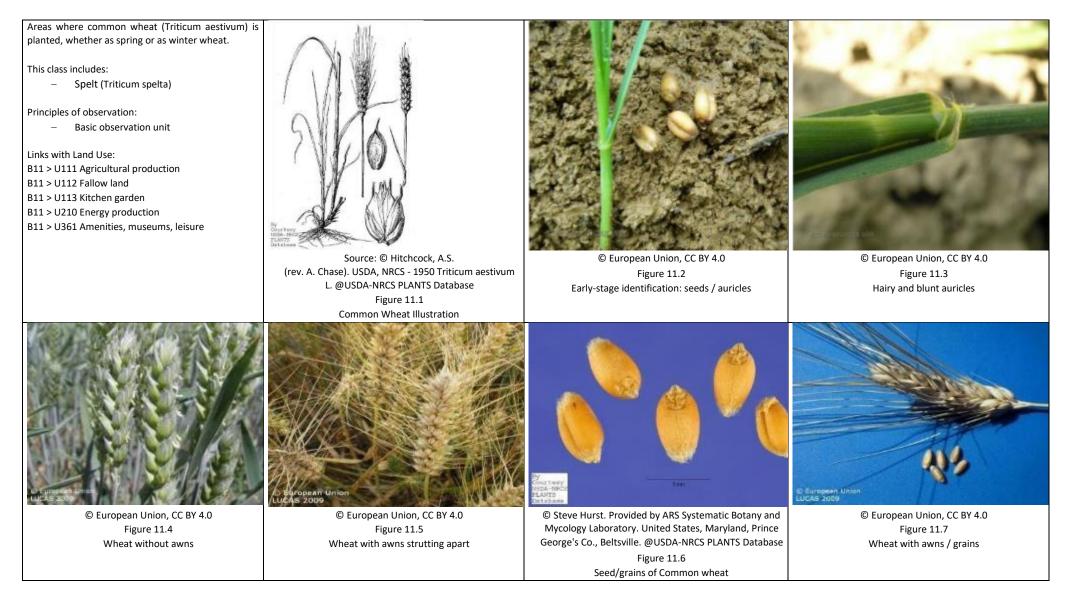


B10 Cereals

For detailed instructions on the identification of cereals: see C-5 "Plant Identification Guide"

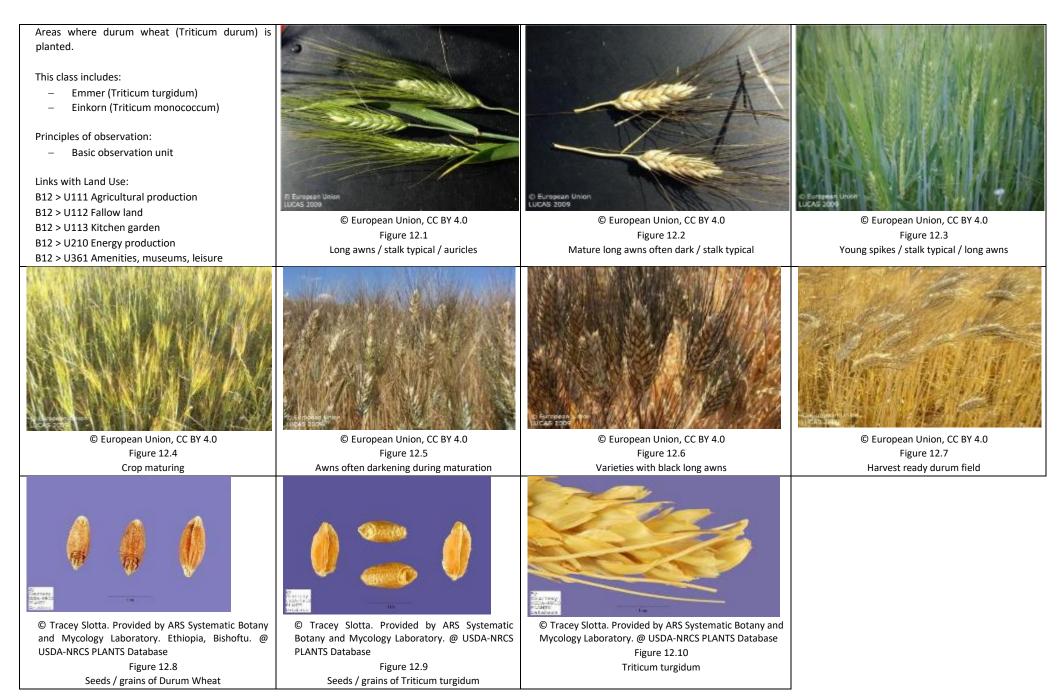
B11 Common wheat

Common wheat (Triticum aestivum) including Spelt (Triticum spelta)





B12 Durum wheat





B13 Barley

Areas where barley (Hordeum vulgare) is planted. Principles of observation: Basic observation unit _ Links with Land Use: B13 > U111 Agricultural production B13 > U112 Fallow land B13 > U113 Kitchen garden © European Union, CC BY 4.0 © European Union, CC BY 4.0 B13 > U210 Energy production © Hitchcock, A.S. (rev. A. Chase). USDA, NRCS - 1950 Figure 13.2 Figure 13.3 Hordeum vulgare L. @ USDA-NRCS PLANTS Database B13 > U361 Amenities, museums, leisure Auricles long & hairless / Ligules long Young plant identification: Auricles / Ligules Figure 13.1 **Barley Illustration** D European Union LUCAS 2009 $\ensuremath{\mathbb{C}}$ Steve Hurst. Provided by ARS Systematic Botany and © European Union, CC BY 4.0 © European Union, CC BY 4.0 © European Union, CC BY 4.0 Mycology Laboratory. @ USDA-NRCS PLANTS Database Figure 13.4 Figure 13.5 Figure 13.6 Figure 13.7 Seeds / grains of barley Two-row barley Four-row barley Barley has very long awns © European Union, CC BY 4.0 © European Union, CC BY 4.0 © 2020, Yves Bernardi (ybernardi), Pixabay License © European Union, CC BY 4.0 Figure 13.8 Figure 13.9 Figure 13.10 Figure 13.11 Identification with grains Barley graining phase Barley field close to harvest Crop residues with two-row barley spikes



B14 Rye





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B15 Oats

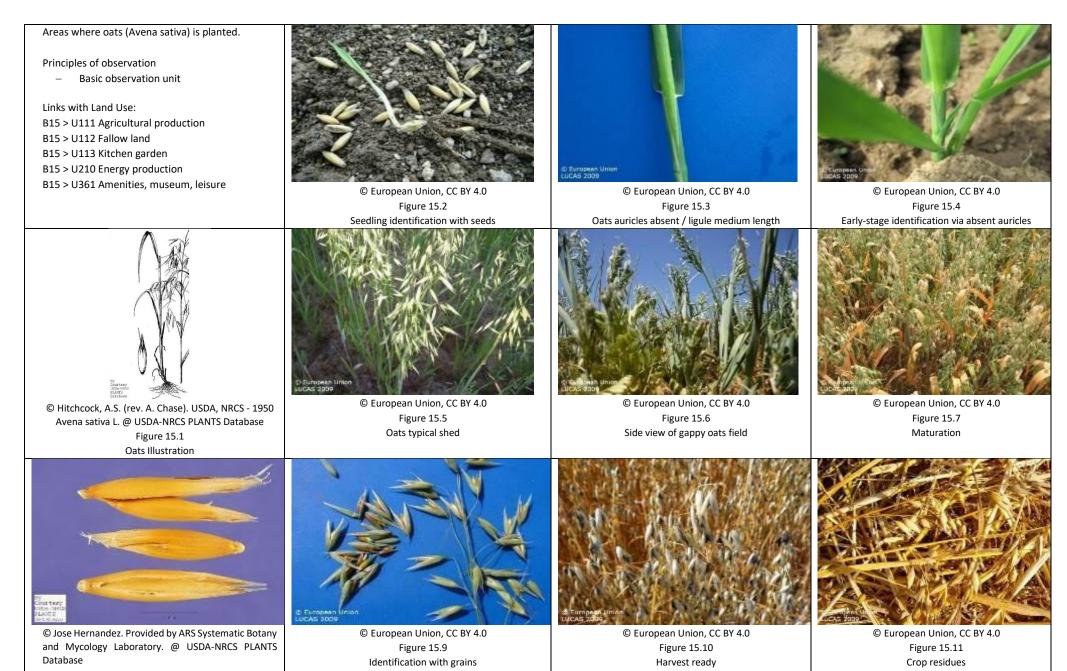


Figure 15.8 Seeds/grains of Oats



B16 Maize

Areas where maize (Zea mays) is planted.

Principles of observation:

Basic observation unit

Links with Land Use: B16 > U111 Agricultural production B16 > U112 Fallow land B16 > U113 Kitchen garden B16 > U210 Energy production B16 > U361 Amenities, museum, leisure



© European Union, CC BY 4.0 Figure 16.2 Red seed dressing of kernel



© European Union, CC BY 4.0 Figure 16.3 First leaves / root development



© European Union, CC BY 4.0 Figure 16.4 Early development / field view



© Hitchcock, A.S. (rev. A. Chase). USDA, NRCS - 1950 Zea mays L. @ USDA-NRCS PLANTS Database Figure 16.1 Maize Illustration



© European Union, CC BY 4.0 Figure 16.5 Leave development



© European Union, CC BY 4.0 Figure 16.6 Wide row spacing of maize field



© European Union, CC BY 4.0 Figure 16.7 Male flowers of Maize



© European Union, CC BY 4.0 Figure 16.8 Maize ear abloom



© European Union, CC BY 4.0 Figure 16.9 Maturation



© European Union, CC BY 4.0 Figure 16.10 Maize ear at the end of maturity



© European Union, CC BY 4.0 Figure 16.11 Typical crop residues



Principles of observation:

Links with Land Use:

B17 > U112 Fallow land

B17 > U113 Kitchen garden B17 > U210 Energy production

Basic observation unit

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B17 Rice

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Areas where rice (Oryza sativa) is planted. B17 > U111 Agricultural production Dourteary NOA-NRC2 LANTS Databare B17 > U361 Amenities, museum, leisure © Steve Hurst. Provided by ARS Systematic Botany and © European Union, CC BY 4.0 Mycology Laboratory. Philippines, Manila. @ USDA-Figure 17.3 NRCS PLANTS Database First leaves / root development Figure 17.2 Seeds By Courtesy USDA-NR PLANTS Database © Hitchcock, A.S. (rev. A. Chase). USDA, NRCS - 1950 Oryza sativa L. @ USDA-NRCS PLANTS Database © European Union, CC BY 4.0 © European Union, CC BY 4.0 Figure 17.1 Figure 17.4 Figure 17.5 **Rice Illustration** Early development / field view Finished tillering phase © European Union LUCAS 2009 © European Union, CC BY 4.0 © European Union, CC BY 4.0 © European Union, CC BY 4.0 Figure 17.6 Figure 17.7 Figure 17.8 Flooded rice field / early development stage Flooded rice field with associated lentils Maturation



B18 Triticale

Areas where triticale (Triticosecale) is planted.

Principles of observation:

- Basic observation unit
- Links with Land Use B18 > U111 Agricultural production B18 > U112 Fallow land B18 > U113 Kitchen garden B18 > U210 Energy production B18 > U361 Amenities, museum, leisure



© European Union, CC BY 4.0 Figure 18.1 Triticale spikes



© European Union, CC BY 4.0 Figure 18.2 Triticale entire plant



© European Union, CC BY 4.0 Figure 18.3 Early development / identification with auricles



© European Union, CC BY 4.0 Figure 18.4 Triticale spike development



© European Union, CC BY 4.0 Figure 18.6 Triticale grains similar to common wheat



© European Union, CC BY 4.0 Figure 18.7 Harvest ready



© European Union, CC BY 4.0 Figure 18.5 Triticale field view



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B19 Other Cereals (Part I)

Areas where other cereals are planted. The surveyor must note the cereal species in the LC plant species field.

This class includes:

- B19a Sorghum (Sorghum bicolor)
- B19b Buckwheat (Fagopyrum esculentum Mill.)
- B19c Common, golden or proso millet (Panicum miliaceum L.)
- B19d Canary grass (Phalaris canariensis L.)
- B19e Corn-cob-mix (Zea mays L. harvested as humid grain)
- B19f Quinoa (Chenopodium quinoa)
- B19g Fonio (Digitaria spp.)
- B19h Other cereals not specified elsewhere, e.g.
 - Barnyard or Japanese millet (Echinocloa frumentacea);
 - Ragi, finger or African millet (Eleusine coracana);
 - Teff (Eragrostis abyssinica);
 - Koda or ditch millet (Paspalum scrobiculatum);
- Pearl or cattail millet (Pennisetum glaucum);
 Foxtail millet (Setaria italica)

This class excludes:

- Common wheat (B11),
- Durum wheat (B12),
- Barley (B13),
- Rye (B14),
- Oats (B15),
- Maize (B16),
- Rice (B17),
- Mixed cereals for fodder (B54).

Principles of observation:

Basic observation unit

Links with Land Use: B19 > U111 Agricultural production B19 > U112 Fallow land B19 > U113 Kitchen garden B19 > U210 Energy production B19 > U361 Amenities, museum, leisure



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Figure 19.1 Buckwheat seeds



© European Union, CC BY 4.0 Figure 19.2 Buckwheat



© European Union, CC BY 4.0 Figure 19.3 Buckwheat / blooming field



© European Union, CC BY 4.0 Figure 19.4 Buckwheat / maturation



© European Union, CC BY 4.0 Figure 19.5 Buckwheat Seeds



© European Union, CC BY 4.0 Figure 19.6 Buckwheat / characteristic leaves



© European Union, CC BY 4.0 Figure 19.7 Canary grass



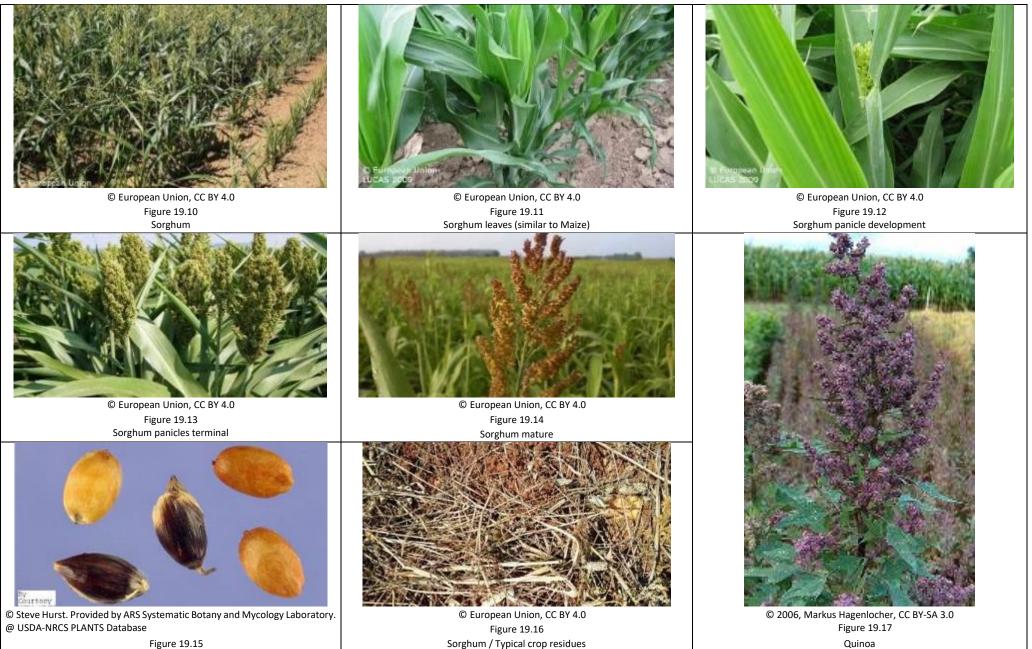
© European Union, CC BY 4.0 Figure 19.8 Sorghum



© European Union, CC BY 4.0 Figure 19.9 Sorghum

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B19 Other Cereals (Part II)



Sorghum bicolor / seeds

Sorghum / Typical crop residues

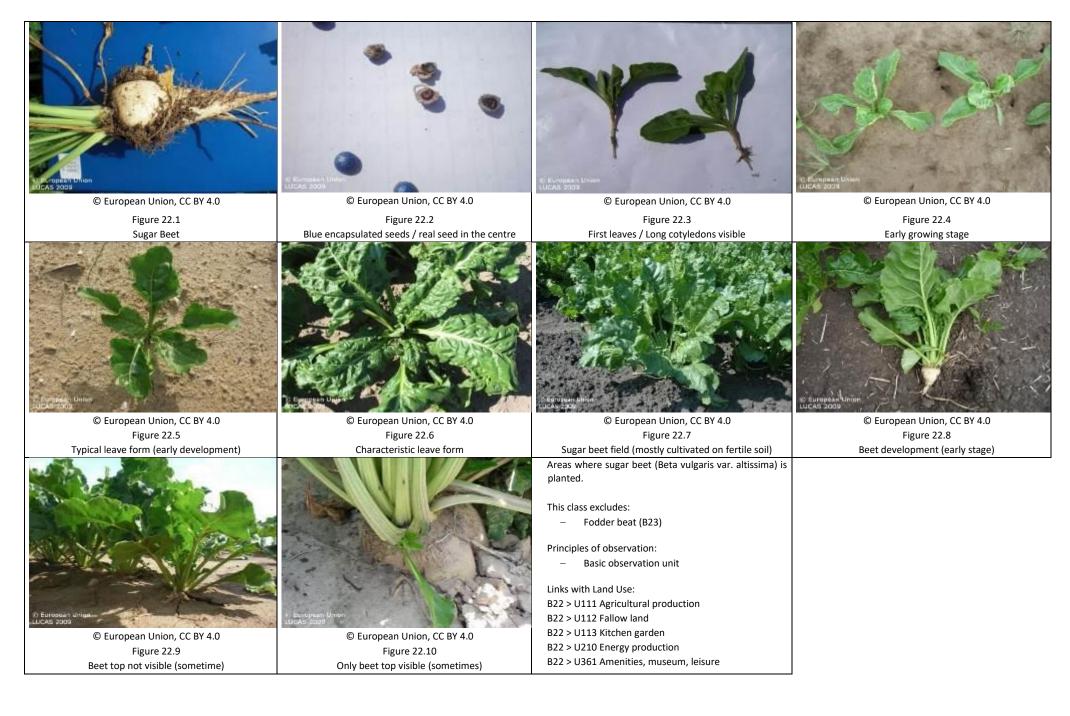


B20 Root Crops B21 Potatoes



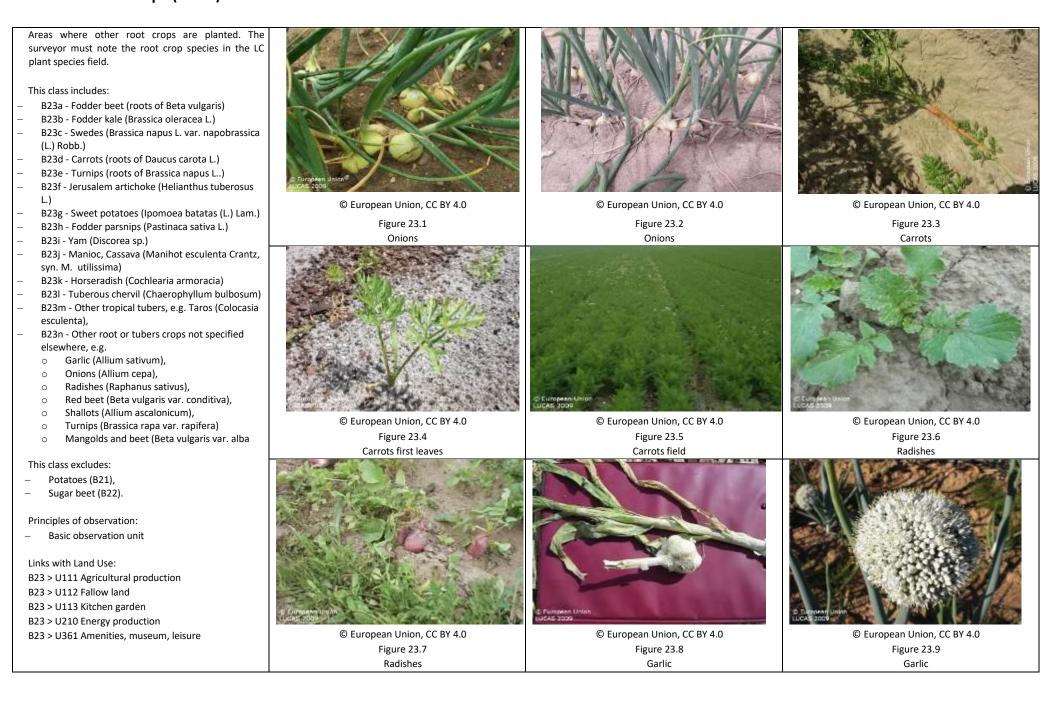


B22 Sugar Beet





B23 Other Root Crops (Part I)



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B23 Other Root Crops (Part II)



© European Union, CC BY 4.0 Figure 23.10 Red beet



© European Union, CC BY 4.0 Figure 23.11 Red beet typical leaves



© European Union, CC BY 4.0 Figure 23.12 Red beet



© 2013, Holger Langmaier (HolgersFotografie), Pixabay License Figure 23.13 Cabbage turnip



© 2010, AxelBoldt, CC BY-SA 3.0 Figure 23.14 Swedes



© 2014, AnRo0002, CC0 1.0 Figure 23.15 Tuberous chervil (Chaerophyllum bulbosum)



© 2014, AnRo0002, CC0 1.0 Figure 23.16 Topinambur (Helianthus tuberosus)



© 2016, Maya A.P (mayapujiati), Pixabay License Figure 23.17 Shallots (Allium ascalonicum)



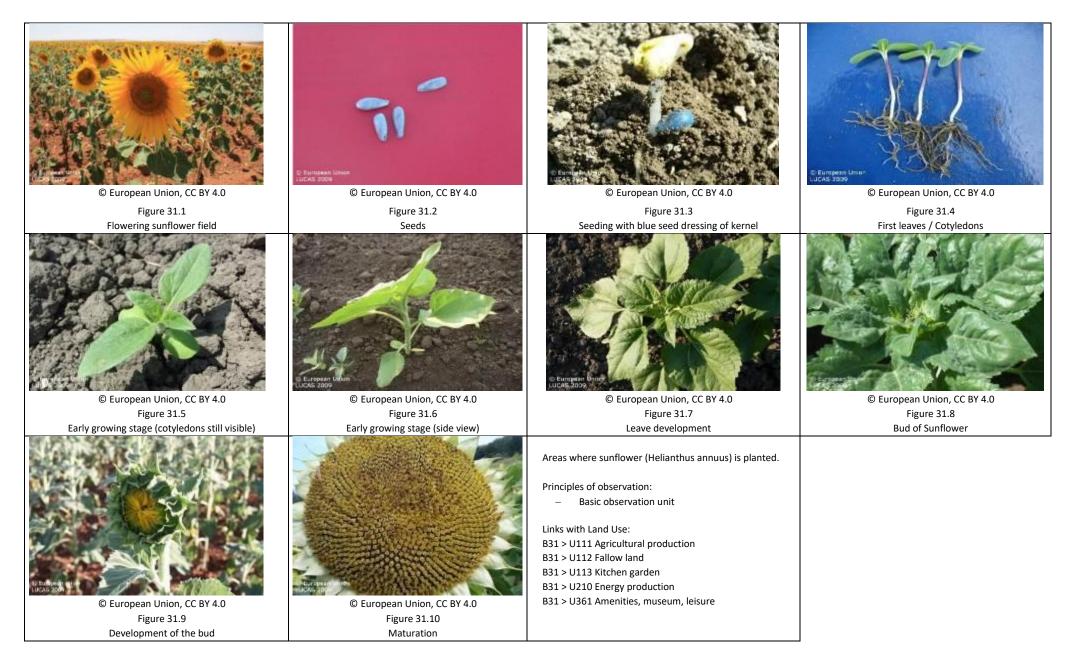
© 2017, gate74, Pixabay License Figure 23.18 Cabbage turnip (red)



© 2007, Goldlocki, CC BY-SA 3.0 Figure 23.19 Parsnips (Pastinaca sativa)

B30 Non-Permanent Industrial Crops

B31 Sunflower





B32 Rape and turnip rape

Areas where rape (Brassica napus var. oleifera) and turnip rape (Brassica rapa) are planted.

This class includes:

Turnip rape and other rape species

This class excludes:

Garden turnips (B43)

Principles of observation:

Basic observation unit

Links with Land Use: B32 > U111 Agricultural production B32 > U112 Fallow land B32 > U113 Kitchen garden B32 > U210 Energy production B23 > U361 Amenities, museum, leisure



© European Union, CC BY 4.0 Figure 32.2 Seedling with typical broad cotyledons © European Union, CC BY 4.0 Figure 32.3 First leaves / Cotyledons



© European Union, CC BY 4.0 Early growing stage (side view)



© European Union, CC BY 4.0 Figure 32.5 Leave development



© European Union, CC BY 4.0 Figure 32.6 Blossom



© European Union, CC BY 4.0 Figure 32.7 Plant with blossom and leaves



© European Union, CC BY 4.0

Figure 32.1 Blooming rape field



© European Union, CC BY 4.0 Figure 32.8 Maturation



© European Union, CC BY 4.0 Figure 32.9 Harvest ready



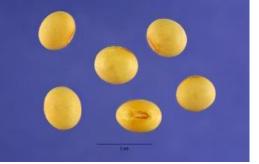
B33 Soya

Areas where soya beans (Glycine soja) are planted.

Principles of observation:

_ Basic observation unit

Links with Land Use: B33 > U111 Agricultural production B33 > U112 Fallow land B33 > U113 Kitchen garden B33 > U210 Energy production B33 > U361 Amenities, museum, leisure



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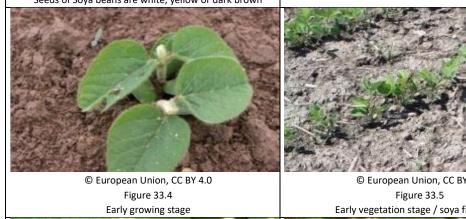
Figure 33.1 Seeds of Soya beans are white, yellow or dark brown



© European Union, CC BY 4.0 Figure 33.2 Seeds of soya beans / early vegetation stage



© European Union, CC BY 4.0 Figure 33.3 First leaves / Cotyledons





© European Union, CC BY 4.0 Early vegetation stage / soya field rows



© European Union, CC BY 4.0 Figure 33.6 Soya field



© European Union, CC BY 4.0 Figure 33.7 Blossom



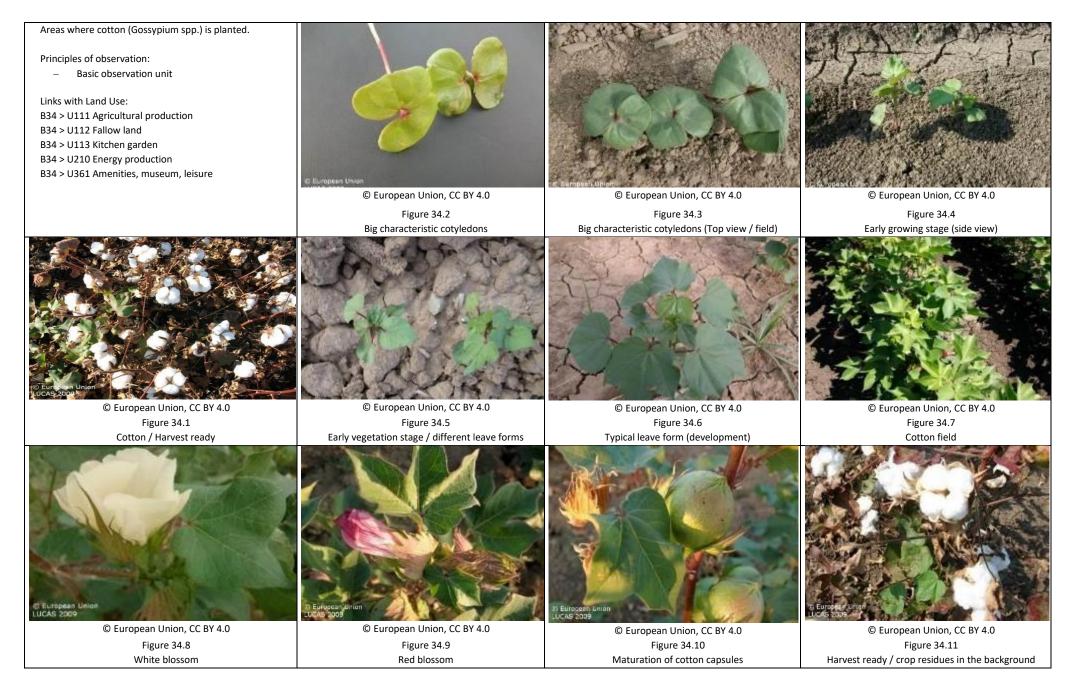
© European Union, CC BY 4.0 Figure 33.8 Maturation



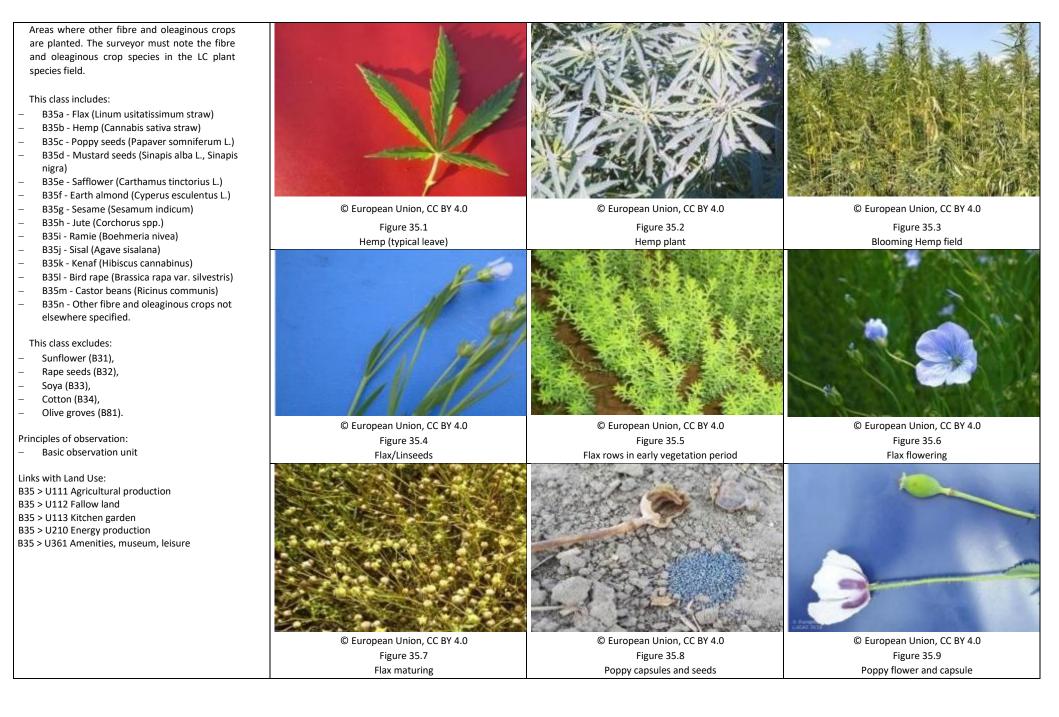
© European Union, CC BY 4.0 Figure 33.9 Typical crop residues in the background



B34 Cotton



B35 Other fibre and oleaginous crops (Part I)



B35 Other fibre and oleaginous crops (Part II)



© European Union, CC BY 4.0 Figure 35.10 Poppy field



© European Union, CC BY 4.0 Figure 35.14 Mustard seeds



© European Union, CC BY 4.0 Figure 35.11 Poppy blooming in different colours



© European Union, CC BY 4.0 Figure 35.12 Flowering Poppy field



© 2016, ivabalk, Pixabay License Figure 35.13 Bud of Poppy seeds before bloom



© European Union, CC BY 4.0 Figure 35.15 Mustard early vegetation stage



© European Union, CC BY 4.0 Figure 35.16 Mustard



© European Union, CC BY 4.0 Figure 35.17 Mustard



© European Union, CC BY 4.0 Figure 35.18 Mustard



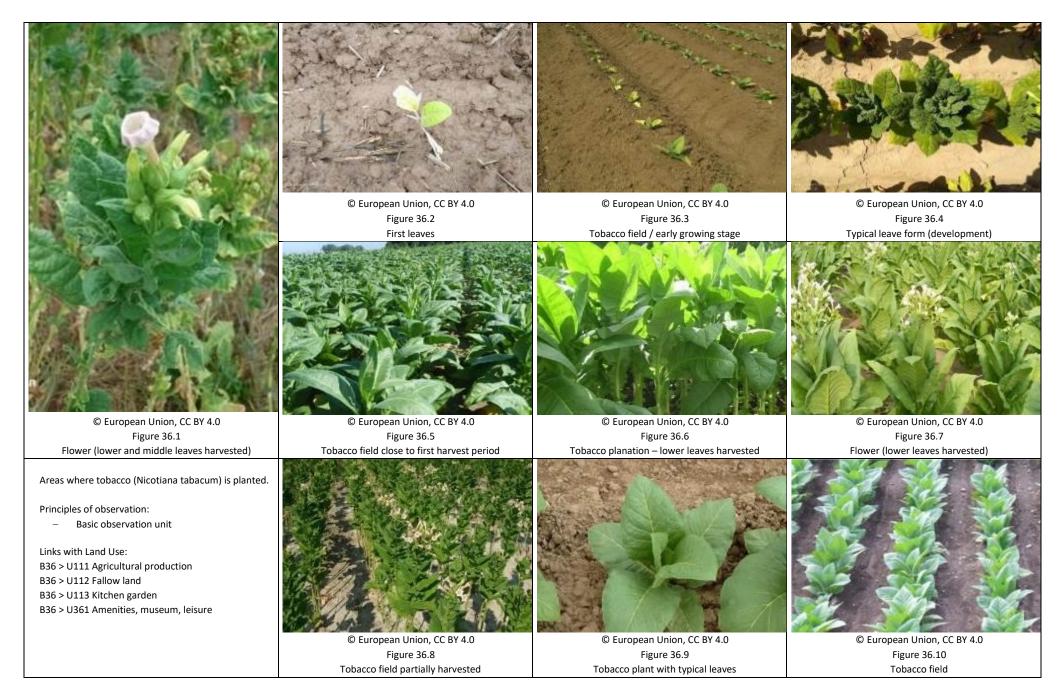
© 2006, Eugene van der Pijll, CC BY-SA 3.0 Figure 35.19 Ramie



© 2005, Patrick-br, CC BY-SA 3.0 Figure 35.20 Sisal



B36 Tobacco



B37 Other Non-permanent industrial crops (Part I)

Areas where other non-permanent industrial crops are planted. The surveyor must note the non-permanent industrial crop species in the LC plant species field.

This class includes:

- B37a Chicory roots (Cichorium intybus var. sativum)
- B37b Hops (Humulus lupulus)
- B37c Medicinal plants
- Common balm (Melissa officimalis),
- Common lungwort (Pulmonaria officinalis),
- o Common mallow (Malva silvestris),
- o Marshmallow (Althaea officinalis),
- Poison hemlock (Conium maculatum),
- Pot marigold (Calendula officinalis),
- Purple foxglove (Digitalis purpurea),
- Soapwort (Saponaria officinalis),
- Sweet chamomile (Chamaemelum nobile),
- Valerian (Valeriana officinalis),
- Vervain (Verbena officinalis)
- B37d Spices and aromatic plants
- Anise (Pimpinella anisum),
- Badain, star anise (Illicium verum),
- Basil (Ocimum basilicum),
- Coriander (Coriandrum sativum),
- Dill (Anethum graveolens),
- Tarragon (Artemisia dracunculus),
- Fennel (Foeniculum vulgare),
- o Garden chervil (Anthriscus cerefolium),
- Cumin (Cuminum cyminum),
- Marjoram (Origanum sp.),
- Parsley (Petroselinum crispum),
- Rosemary (Rosmarinus officinalis),
- Spearmint (Mentha sp),
- Sorrel (Rumex acetosa),
- Sage (Salvia officinalis),
- Thyme (Thymus vulgaris);
- B37e Sugar cane (Saccharum officinarum)
- B37f Other non-permanent industrial crops not specified elsewhere.

This class excludes:

- Tobacco (B36),
- Permanent industrial crops (B84)

Principles of observation:

- Basic observation unit
- Links with Land Use: B37 > U111 Agricultural production B37 > U112 Fallow land B37 > U113 Kitchen garden B37 > U210 Energy production B37 > U361 Amenities, museum, leisure



© European Union, CC BY 4.0 Figure 37.1 Hops



© European Union, CC BY 4.0 Figure 37.2 Hops plantations fast growing



© European Union, CC BY 4.0 Figure 37.3 Hops plantation up to 5m



© European Union, CC BY 4.0 Figure 37.4 Hops strobiles and typical leaves



© European Union, CC BY 4.0 Figure 37.5 Hops strobiles maturing



© 2020, TheOtherKev, Pixabay License Figure 37.6 Thistle



© 2018, Syrio , CC BY-SA 4.0 Figure 37.7 Thistle



© 2018, Syrio , CC BY-SA 4.0 Figure 37.8 Thistle

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© European Union, CC BY 4.0 Figure 37.13 Chicory

B40 Dry Pulses, Vegetables and Flowers B41 Dry pulses (Part I)

Areas where dry pulses are planted.

This class includes:

- Dry peas, garden pea (Pisum sativum),
- Chickpea, garbanzo bean (Cicer arietinum),
- Cowpea (Vigna sinensis; Dolichos sinensis),
- Pigeon pea (Cajanus cajan)
- Field peas (Pisum arvense),
- Field beans (Vicia faba spp.),
- Lentils (Lens culinaris),
- Lentil vetches (Vicia ervilia)
- Vetches, spring or common vetch (Vicia sativa, Vicia villosa)
- Lupins (Lupinus spp.)
- Peanuts (Arachis hypogaea).

This class excludes:

– Soya (B33)

Principles of observation:

- Basic observation unit
- Links with Land Use:
- B41 > U111 Agricultural production B41 > U112 Fallow land B41 > U113 Kitchen garden
- B41 > U361 Amenities, museum, leisure



© European Union, CC BY 4.0 Figure 41.1 Field bean very early stage



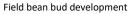
© European Union, CC BY 4.0 Figure 41.2 Field bean (side view)



© European Union, CC BY 4.0 Figure 41.3 Flowering field beans



© European Union, CC BY 4.0 Figure 41.4





© European Union, CC BY 4.0 Figure 41.5 Chickpea / garbanzo bean



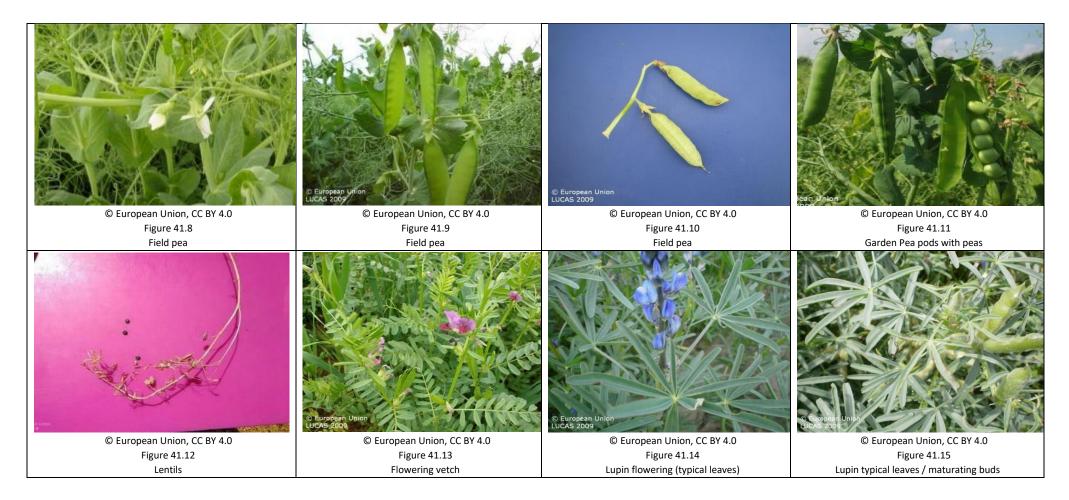
© European Union, CC BY 4.0 Figure 41.6 Chickpea / garbanzo bean leaves



© European Union, CC BY 4.0 Figure 41.7 Field pea



B41 Dry pulses (Part II)





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B42 Tomatoes

Areas where tomatoes (Lycopersicon esculentum) are planted. Principles of observation: _ Basic observation unit Links with Land Use: B42 > U111 Agricultural production B42 > U112 Fallow land B42 > U113 Kitchen garden B42 > U361 Amenities, museum, leisure © European Union, CC BY 4.0 © European Union, CC BY 4.0 © European Union, CC BY 4.0 Figure 42.2 Figure 42.3 Figure 42.4 Early development of typical leaves Young tomato plantation cultivated in foils Drip irrigation under foils © European LUCAS 2009 © European Union, CC BY 4.0 Figure 42.6 Figure 42.1 Figure 42.5 Figure 42.7 Different cultivation forms Tomatoes Binding up Different cultivation forms (shadowed) © European Union, CC BY 4.0 Figure 42.8 Figure 42.11 Figure 42.9 Figure 42.10 Blossom Maturation Several varieties (red round mature fruits) Maturation

Artichoke blossom

B43 Other fresh vegetables (Part I)

Areas where other fresh vegetables are planted. The	This class excludes:	The second second	The state of the s
surveyor must note the fresh vegetable species in the	– Tomatoes (B42),	A CONTRACTOR	
LC plant species field.	– Strawberries (B45),	こうに これない この 「日田田市」」	
	– Horseradish (B23)	and the second sec	
This class includes:		Starting and a starting all at	
– B43a - Brassicas	Principles of observation:	The second second second	
 Cabbages (Brassica oleracea spp.), 	 Basic observation unit 	A A	
 Cauliflowers (Brassica oleracea var. botrytis) 			The sea average to the
 B43b - Leaf and stalked vegetables other than 	Links with Land Use:	ALL	A A A A
brassicas	B43 > U111 Agricultural production		
 Artichokes (Cynara scolymus), 	B43 > U112 Fallow land		S European Union
 Asparagus (Asparagus officinalis), 	B43 > U113 Kitchen garden	and the second of the second second	
 Cardoons (Cynara cardunculus, 	B43 > U361 Amenities, museum, leisure	© European Union, CC BY 4.0	© European Union, CC BY 4.0
 Celery (Apium graveolens), 	b+5 > 0301 Amenines, museum, ielsure	Figure 43.1	Figure 43.2
 Chervil (Anthriscus cerefolium), 		Pepper (early growing stage / foil)	Pepper Plantation
• Chicory (Cichorium intybus var. foliosum),			
 Cress (Lepidium sativum), Endings (Cicharium andivisuar arisms) 			The second second second second
 Endives (Cichorium. endivia var. crispa), Garden orache (Atriplex hortensis), 	N AND CARL		CALLS THE REPORT OF THE REPORT OF THE PARTY OF
 Garden orache (Atriplex hortensis), Leeks (Allium porrum), 			The PARTY AND THE PARTY AND THE PARTY
 Lettuce (Lactuca sativa), 	CARDEN VISU		
 Rhubarb (Rheum spp.), 	No. Contraction of the second	The state of the second	THE STREET OF LEAST LEVE
 Purslane (Portulaca oleracea), 			
 Spinach (Spinacia oleracea), 			
 Rocket (Eruca sativa), 			A GARANTA FILMANDA F
 Watercress (Nasturtium officinale) 			AND THE AVENUE
 B43c - Leguminous vegetables, including 			Cherry Cherry
production for tins	MARCE S. A. AMERICAN	S Europe Mercer	
 Green beans (Phaseolus and vigna spp.) 	© European Union, CC BY 4.0	© European Union, CC BY 4.0	© European Union, CC BY 4.0
 Green peas 	Figure 43.3	Figure 43.4	Figure 43.5
 B43e - Vegetables cultivated for fruit other than 	Pepper	Leeks	Leeks
tomatoes	Copper		
 Melons (Cucumis melo), 	A ALEXAND	Some and the second second	
 Cucumbers (Cucumis sativus), 			Martin Tell You water and a set
 Egg-plants (Solanum melongena), 		A WASH CONTRACTOR	
 Okras (Abelmoschus esculentus, Hibiscus esculentus), 			
 Peppers (Capsicum annuum, C. fructescens, 			
Pimenta officinalis),			
 Pumpkins (Cucurbita spp), 			
 Watermelons (Citrullus vulgaris) 			
 B43f - Cultivated mushrooms 		The second state the second	
 Boletus edulis, 			
 Agaricus campestris, 		A HAN ALL YO TO DE	
 Morchella spp. 			
 Tuber magnatum 	© European Union twCAS 2009	D European Union	Statemanulaen 18 1 20 1 10 10 10
 B43g - Wild products (e.g.truffle, water chestnut) 		Incleased	Cardenand and the first second s
 B43h - Other fresh vegetables not specified 	© European Union, CC BY 4.0	© European Union, CC BY 4.0	© European Union, CC BY 4.0
elsewhere.	Figure 43.6	Figure 43.7	Figure 43.8

Artichoke second maturation

Artichoke

B43 Other fresh vegetables (Part II)



B43 Other fresh vegetables (Part III)





B43 Other fresh vegetables (Part IV)

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Figure 43.33	Figure 43.34	Figure 43.35	Figure 43.36
Lettuce	Spinach	Spinach field	Celery
0 2012 Leon Col (comp) Piraba Lionne	P 2018 Caulour Divebar Lisance	ê 2020, ibançing Birabay Licano	
© 2017, Jason Goh (cegoh), Pixabay License	© 2018, Couleur, Pixabay License	© 2020, jhenning, Pixabay License	
Figure 43.37	Figure 43.38	Figure 43.39	
Chilli	Eggplant	Eggplant	

B44 Floriculture and ornamental plants

Areas where flowers and ornamental plants are planted.

This class includes:

- Bulbs and tubers, cut-flowers: _ alstroemeria, amaranthus, anemone, anthurium, campanula, celosia, centaurea, cymbidium, dendranthema, dianthus, echinops, eryngium, euphorbia, forsythia, gerbera, gladiolus, helianthus, hydrangea, hyacinthus, iris, liatris, lilium, lysimachia, muscari, narcissus, papaver, paphiopedilum, protea, ranunculus, rosa, strelitzia, tulipa, veronica, zantedeschia, zinnia. _
 - Cut-leafage: acacia, achillea, alchemilla, arbutus, asparagus, aspidistra, aster, camellia, cedrus, cornus, cyperus, erica, gypsophilia, hibiscus, hosta, ilex, limonium, melaleucea, molluccela, panicum, pennisetum, philodendrum, physalis, rhododendron, ruscus, salix, sedum, solidago, solidaster, syringe, thuya, trachelium, viburnum, weigela.
- Ornamental plants: _
 - abelia, agapanthus, araucaria, azalea, begonia, berberis, betula, bougainvillea, callistemon, chamaecyparis, chamaerops, croton, cupressus, cycas, cyclamen, cymbidium, deutzia, dimorphoteca, dracaena, eounymous, euphorbia, euryops, ficus, forsythia, grevillea, hydrangea, lavandula, leptospermum, lonicera, morus, myrtus, olea, paphiopedilum, pelargonium, petunia, phoenix, photinia, piracanta, rosmarinus, saintpaulia, scindapsus, spiraea, syngonium, viburnum, washintonia, wisteria, yucca.

This class excludes: Nurseries (B83)

Principles of observation:

Basic observation unit _

Links with Land Use: B44 > U111 Agricultural production B44 > U112 Fallow land B44 > U113 Kitchen garden B44 > U340 Commerce, Finance, Business B44 > U350 Community services B44 > U361 Leisure (allotments)



© European Union, CC BY 4.0 Figure 44.1 Oleander



© European Union, CC BY 4.0 Figure 44.2 Lilium



© 2020, Tobías Ayala (AztecaBoy), Pixabay License Figure 44.3 Red tulip, typical leaves



© 2020, Tobías Ayala (AztecaBoy), Pixabay License Figure 44.4

Yellow tulip

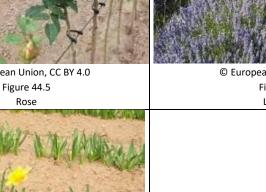


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Figure 44.8

Narcissus



© European Union, CC BY 4.0 Figure 44.6 Lavender

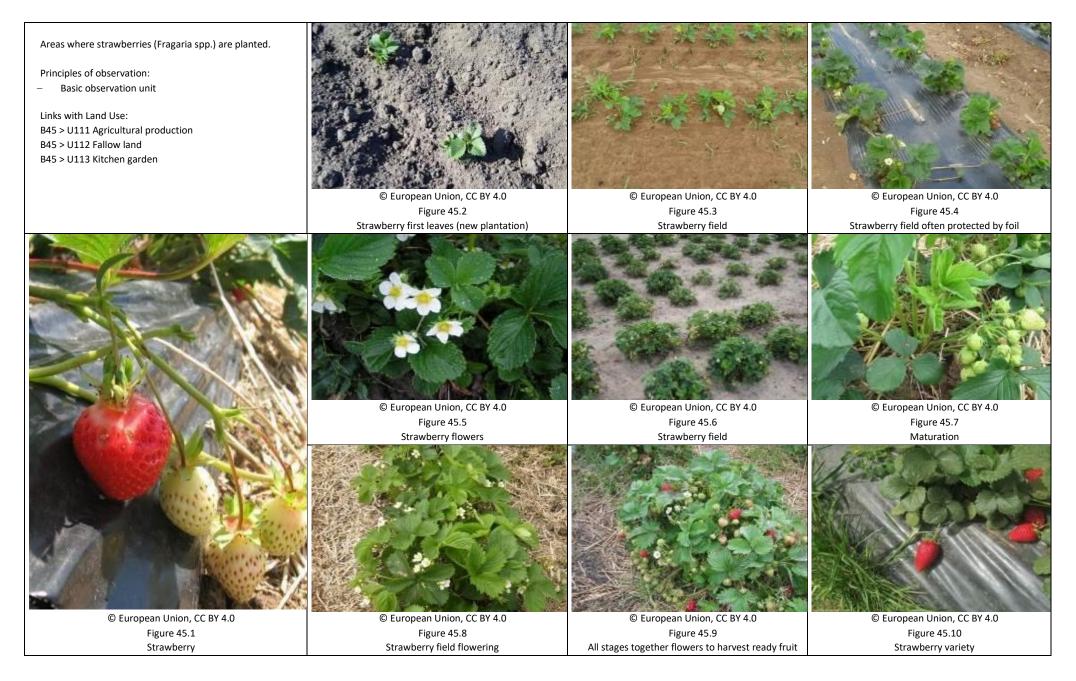


© European Union, CC BY 4.0 Figure 44.7 Narcissus





B45 Strawberries



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B50 Fodder crops B51 Clover

The various species of clover, annual or perennial cultivated alone.

This class includes:

- Crimson clover (Trifolium incarnatum L.),
- Red clover (T. pratense L.),
- White clover (T. repens L.),
- Egyptian clover (T. alexandrinum),
- Persia clover (T. resupinatum).

Principles of observation:

Basic observation unit

Links with Land Use: B51 > U111 Agricultural production

- B51 > U112 Fallow Land
- B51 > U113 Kitchen garden
- B51 > U210 Energy production
- B51 > U361 Amenities, museum, leisure



© Steve Hurst. Provided by ARS Systematic Botany and Mycology Laboratory. United States, Maryland, Prince George's Co., Beltsville. @USDA-NRCS PLANTS Database Figure 51.1 Seeds



© European Union, CC BY 4.0 Figure 51.2 White clover



© European Union, CC BY 4.0 Figure 51.3 Early growth development of typical leaves



© European Union, CC BY 4.0 Figure 51.4 Leaves developing

© European Union, CC BY 4.0

Figure 51.7

Flowering Cloverfield



© European Union, CC BY 4.0 Figure 51-5 Leaves

© European Union, CC BY 4.0

Figure 51.8

Red flowering Cloverfield



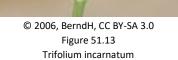
© European Union, CC BY 4.0 Figure 51.6 Cloverfield before blooming



© European Union, CC BY 4.0 Figure 51.9 Red clover main characteristics

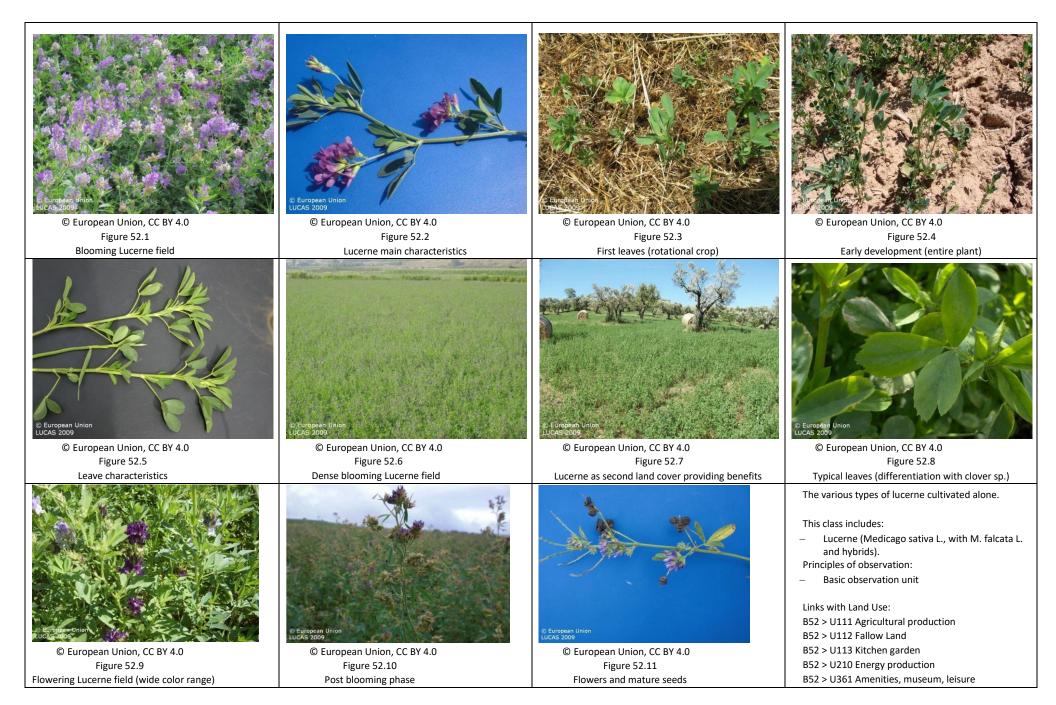








B52 Lucerne



B53 Other Leguminous and mixtures for fodder

Other leguminous or mixtures of predominantly leguminous (normally > 80 %) forage crops and grass plants, harvested green or as dried hay. It is accepted that legumes can be associated with graminaceous plants, i.e.

- at the time of the setting up when the germination of the legume is protected by an annual graminaceous plant
- at the time of the setting up with a view to an association between the two families of plants

Included here are:

- Annual crops belonging to other families such as the cruciferous and that are not mentioned elsewhere (rape, etc.), the California bluebell (Phacelia tanacetifolia Benth), if they are harvested green.
- The surveyor must note the leguminous or fodder species in the LC plant species field.

This class includes:

- B53a Sainfoin (Onobrychis viciifolia Scop.)
- B53b Sweet clover (Lotus corniculatus L.)
- B53c Chickling vetch (Lathyrus sativus)
- B53d Trefoil (Medicago lupulina L.)
- B53e Melilot (Melilotus alba Lam.)
- B53f Serradella (Ornithopus sativus)
- B53g Fenugreek (Trigonella foenum-graecum)
- B53h Sulla (Hedysarium coronarium)
- B53i Sweet lupins (Lupinus albus, Lupinus angustifolius, Lupinus luteus)
- B53j California bluebell (Phacelia tanacetifolia)
- B53k Other leguminous and mixture for fodder not specified elsewhere)

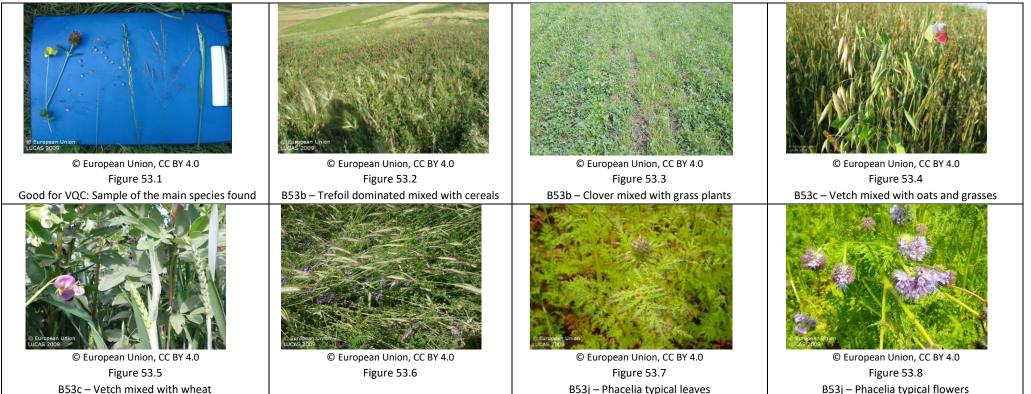
This class excludes:

- Mix of cereals for fodder (B54)
- Temporary grassland (B55)

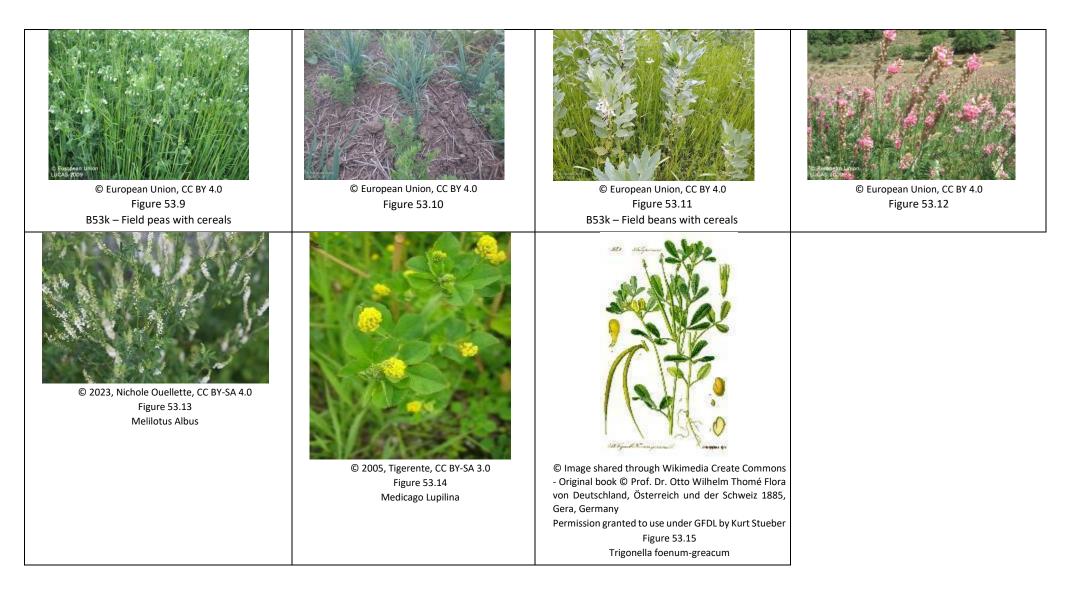
Principles of observation:

Basic observation unit

Links with Land Use: B53 > U111 Agricultural production B53 > U112 Fallow Land B53 > U113 Kitchen garden B53 > U210 Energy production B53 > U361 Amenities, museum, leisure









B54 Mix of cereals

Mix of more than two cereals used in most cases for fodder, often as winter crop and harvested green.

This class includes:

If mixed and harvested for fodder:

- Common wheat (B11),
- Durum wheat (B12),
- Barley (B13),
- Rye (B14),
- Oats (B15),
- Maize (B16),
- Triticale (B18),
- Other cereals (B19)

This class excludes:

If only one or two species own and harvested for human consumption:

- Common wheat (B11)
- Durum wheat (B12)
- Barley (B13)
- Rye (B14)
- Oats (B15)
- Maize (B16)
- Rice (B17)
- Triticale (B18)
- Other cereals (B19)

Principles of observation:

Basic observation unit

Links with Land Use:

- B54 > U111 Agricultural production B54 > U112 Fallow Land
- B54 > U113 Kitchen garden
- B54 > U210 Energy production

B54 > U361 Amenities, museum, leisure



© European Union, CC BY 4.0 Figure 54.1 This makes identification easier for early stages © European Union, CC BY 4.0 Figure 54.2



© European Union, CC BY 4.0 Figure 54.3 Mixture of cereals and grasses © European Union, CC BY 4.0 Figure 54.4

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B55 Temporary grassland

Land occupied by temporary and artificial pastures, occupying the ground for at least one crop year and less than five years, the seeds being either pure or mixed grass, on cropland areas. If the soil is ploughed and/if the grass is sown the same year, the grassland is very likely a temporary one and not a permanent one.

This class includes:

- Italian ryegrass
- Other ryegrasses
- Cock's foot
- Fescues
- Timothy
- Other temporary pastures on agricultural areas/cropland

This class excludes:

- Permanent grassland (EXX)
- Mix of legumes with gramineous plants for fodder (B53)
- Mix of cereals for fodder (B54)

Principles of observation:

Basic observation unit

Links with Land Use:

- B55 > U111 Agricultural production
- B55 > U113 Kitchen garden
- B55 > U210 Energy production
- B55 > U361 Amenities, museum, leisure



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B7 Permanente crops: Fruit trees **B71 Apple tree**

Surfaces occupied by apple trees.

This class includes:

- Malus pumila _
- Pyrus malus _
- Abandoned apple orchards _

Principles of observation:

Extended window of observation _

Links with Land Use: B71 > U111 Agricultural production B71 > U112 Fallow land B71 > U113 Kitchen garden B71 > U361 Amenities, museum, leisure





© European Union, CC BY 4.0 Figure 71.2 Young plant



© European Union, CC BY 4.0 Figure 71.3 Different growth forms (half stem plantation)



© European Union, CC BY 4.0 Figure 71.6 Variety of blossom colours



© European Union, CC BY 4.0 Figure 71.9 Several varieties (green mature fruits)



© European Union, CC BY 4.0 Figure 71.4 Leave forms (ssp. with differences)



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© European Union, CC BY 4.0 Figure 71.8 Fruit maturation



B72 Pear fruit



© European Union, CC BY 4.0 Figure 72.1 Pear fruit typical form and leaves



© European Union, CC BY 4.0 Figure 72.2 Young plant (with drip irrigation)



© European Union, CC BY 4.0 Figure 72.3 Different growth forms (half stem plantation)



© European Union, CC BY 4.0 Figure 72.4 Different growth forms

Surfaces occupied by pear trees.

This class includes:

- Pyrus communis
- Abandoned pear orchards

Principles of observation

Extended window of observation

Links with Land Use: B72 > U111 Agricultural production

- B72 > U112 Fallow land
- B72 > U113 Kitchen garden
- B72 > U361 Amenities, museum, leisure



© European Union, CC BY 4.0 Figure 72.5 Pear orchard



© European Union, CC BY 4.0 Figure 72.6 Characteristic fruit stand



© European Union, CC BY 4.0 Figure 72.7 Characteristic fruit stand (early stage)



© European Union, CC BY 4.0 Figure 72.8 Different growth forms



© European Union, CC BY 4.0 Figure 72.9 Fruit maturation



© European Union, CC BY 4.0 Figure 72.10 Several varieties



B73 Cherry fruit

Surfaces occupied by cherry trees (Prunus cerasus; Cerasus acida).

This class includes:

- Prunus cerasus
- Cerasus acida
- Abandoned cherry orchards

Principles of observation:

Extended window of observation

Links with Land Use: B73 > U111 Agricultural production B73 > U112 Fallow land B73 > U113 Kitchen garden B73 > U361 Amenities, museum, leisure



© European Union, CC BY 4.0 Figure 73.1 Cherry fruit (characteristic leaves / fruit stands)



© European Union, CC BY 4.0 Figure 73.2 Young plant (with drip irrigation)



© European Union, CC BY 4.0 Figure 73.3 Different growth forms (half stem plantation)



© European Union, CC BY 4.0 Figure 73.4 Different growth forms



© European Union, CC BY 4.0 Figure 73.5 Different growth forms



© European Union, CC BY 4.0 Figure 73.6 Typical leave form (ssp. differences in width, etc)



© European Union, CC BY 4.0 Figure 73.7 Typical blossom



© European Union, CC BY 4.0 Figure 73.8 Several varieties (red mature fruits)



B74 Nuts-trees



© European Union, CC BY 4.0 Figure 74.1 Walnut



© European Union, CC BY 4.0 Figure 74.5 Almonds (getting ready)



© European Union, CC BY 4.0 Figure 74.9 Hazelnut characteristics



© European Union, CC BY 4.0 Figure 74.2 Walnut typical leave form



© European Union, CC BY 4.0 Figure 74.3 Almonds harvest ready



© European Union, CC BY 4.0 Figure 74.4 Almonds maturing / typical leave form



© 2016, Erhan T. (reklam43), Pixabay License Figure 74.7 Pistachio tree with stone fruits

© European Union, CC BY 4.0

Figure 74.11

Chestnut characteristics



© European Union, CC BY 4.0 Figure 74.8 Hazelnut maturing

Surfaces occupied by nuts trees.

This class includes:

 almonds (Prunus amygdalus); chestnuts (Castanea spp.); hazelnuts (Corylus avellana); pistachios (Pistacia vera) walnuts (Juglans spp.); Abandoned nuts trees orchards.

Principles of observation

_

Extended window of observation

Links with Land Use B74 > U111 Agricultural production B74 > U112 Fallow land B74 > U113 Kitchen garden B74 > U361 Amenities, museum, leisure



Figure 74.6

© European Union, CC BY 4.0 Figure 74.10 Chestnut blossom



B75 Other fruit tree and berries (Part I)

Surfaces occupied by other fruit trees and berries. The surveyor must note the fruit tree/berry species in the LC plant species field.

This class includes:

- B75a Apricot (Prunus armeniaca)
- B75b Cornel (Cornus mas)
- B75c Figs (Ficus carica)
- B75d Juneberry (Amelanchier vulgaris)
- B75e Kiwi (Actinidia chinensis)
- B75f Loquat (Eriobotrya japonica)
- B75g Medlar (Mespilus germanica)
- B75h Mirabellas (Prunus insititia var. syriaca)
- B75i Peach and nectarines (Prunus persica; Amygdalus persica; Persica laevis)
- B75j Persimons (Diospyros kaki)
- B75k Plums (Prunus domestica)
- B75I Pomegranates (Punica granatum)
- B75m Oleaster (Eleagnus sp.)
- B75n Quinces (Cydonia oblonga)
- B75o Sloes (Prunus spinosa)
- B75p Small fruit and berries
 - Blackberries (Morus nigra)
 - Black currants (Ribes nigrum)
 - Blueberries (Vaccinium myrtillus)
 - Cowberries (Vaccinium vitis-idaea)
 - Cranberries (Vaccinium macrocarpon)
 - Dangleberries (Gaylussacia spp.)
 - Dewberries (Rubus arcticus)
 - o Gooseberries (Ribes uva-crispa)
 - Mulberries (Morus alba; Morus rubra)
 - Myrtle berries (Myrtus communis)
 - Raspberries (Rubus idaeus)
- B75q Tropical fruits
 - Bananas (Musa sp.),
 - Avocado (Persea americana)
- B75r Other fruit trees and berries not specified elsewhere
- Abandoned fruit tree orchards.

This class excludes:

- Apples (B71),
- Pears (B72),
- Cherries (B73),
- Nuts (B74),
- Strawberries (B45),
- Citrus fruits (B76, B77).

Principles of observation:

Extended window of observation

Links with Land Use:

- B75 > U111 Agricultural production
- B75 > U112 Fallow land
- B75 > U113 Kitchen garden
- B75 > U361 Amenities, museum, leisure



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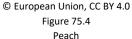
Apricot



© 2016, naturepic, Pixabay License Figure 75.2 Apricot blossom



© European Union, CC BY 4.0 Figure 75.3





© 2019, FK-JACKSON, Pixabay License Figure 75.5 Peach blossom



© 2018, utroja0, Pixabay License Figure 75.6 Mirabellas

B75 Other fruit tree and berries (Part II)





B76 Oranges

Surfaces occupied by orange trees.

This class includes:

- Citrus sinensis,
- Citrus aurantium
- Abandoned oranges orchards

Principles of observation:

Extended window of observation

Links with Land Use: B76 > U111 Agricultural production B76 > U112 Fallow land

- B76 > U113 Kitchen garden
- B76 > U361 Amenities, museum, leisure



© European Union, CC BY 4.0 Figure 76.1



© European Union, CC BY 4.0 Figure 76.2 Young plant



© European Union, CC BY 4.0 Figure 76.3 Young tree with drip irrigation (already fruits)



© European Union, CC BY 4.0 Figure 76.4 Different growth forms



© European Union, CC BY 4.0 Figure 76.5 Typical leave form



© European Union, CC BY 4.0 Figure 76.6 Typical blossom



© European Union, CC BY 4.0 Figure 76.7 Simultaneously flowers and mature fruits



© European Union, CC BY 4.0 Figure 76.8 Fruit early development



© European Union, CC BY 4.0 Figure 76.9 Fruit maturation



© European Union, CC BY 4.0 Figure 76.10 Fruit maturation



© European Union, CC BY 4.0 Figure 76.11 Harvest ready fruits



B77 Other citrus fruits

Surfaces occupied by other citrus fruit trees. The surveyor must note the citrus species in the LC plant species field.

This class includes:

- B77a Bergamot (Citrus bergamia)
- B77b Citron (Citrus medica var. cedrata)
- B77c Grapefruit and pomelo (Citrus maxima, Citrus grandis, Citrus paradisea)
- B77d Lemons (Citrus limon);
- B77e Limes (Citrus aurantifolia; Citrus limetta)
- B77f Satsumas (Citrus unshiu)
- B77g Mandarines (Citrus deliciosa, Citrus nobilis)
- B77h Clementines (Citrus clementina)
- B77i Kumquats (Fortunella sp.)
- B77j Citrus orchards
- B77k Other citrus fruit not specified elsewhere
- Abandoned citrus orchards.

This class excludes:

Oranges (B66)

Principles of observation:

- Extended window of observation

Links with Land Use:

- B77 > U111 Agricultural production
- B77 > U112 Fallow land
- B77 > U113 Kitchen garden
- B77 > U361 Amenities, museum, leisure



© European Union, CC BY 4.0 Figure 77.1 Mandarines





© European Union, CC BY 4.0 Figure 77.3 Lemons



Lime



Figure 77.5

Grapefruit and pomelo



Mandarines

B8 Other Permanent Crops B81 Olive groves

Surfaces occupied by olive groves.

This class includes:

- Olea europea _
- Abandoned olive groves _

Principles of observation:

_ Extended window of observation

Links with Land Use: B81 > U111 Agricultural production B81 > U112 Fallow land B81 > U113 Kitchen garden B81 > U361 Amenities, museum, leisure



© European Union, CC BY 4.0 Figure 81.1 Young plant



© European Union, CC BY 4.0 Figure 81.2 Young plant with drip irrigation



© European Union, CC BY 4.0 Figure 81.3 Young olive tree plantation with drip irrigation



© European Union, CC BY 4.0 Figure 81.4 Olive grove with soil kept free from weeds



© European Union, CC BY 4.0 Figure 81.8 Fruit maturation (early stage)



© European Union, CC BY 4.0 Figure 81.5 Olive grove with additional land cover



© European Union, CC BY 4.0 Figure 81.6 Typical leaves

© European Union, CC BY 4.0

Figure 81.10

Several varieties (green mature fruits)



© European Union, CC BY 4.0 Figure 81.7 Flowering



© European Union, CC BY 4.0 Figure 81.11 Several varieties (black ones missing)

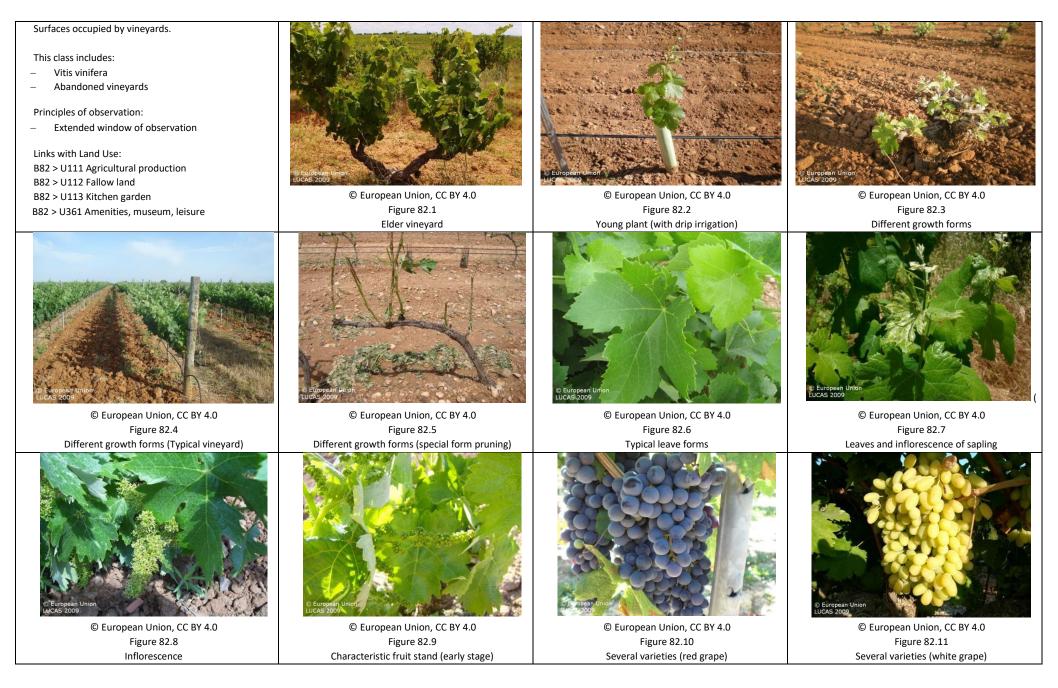


Fruit maturation





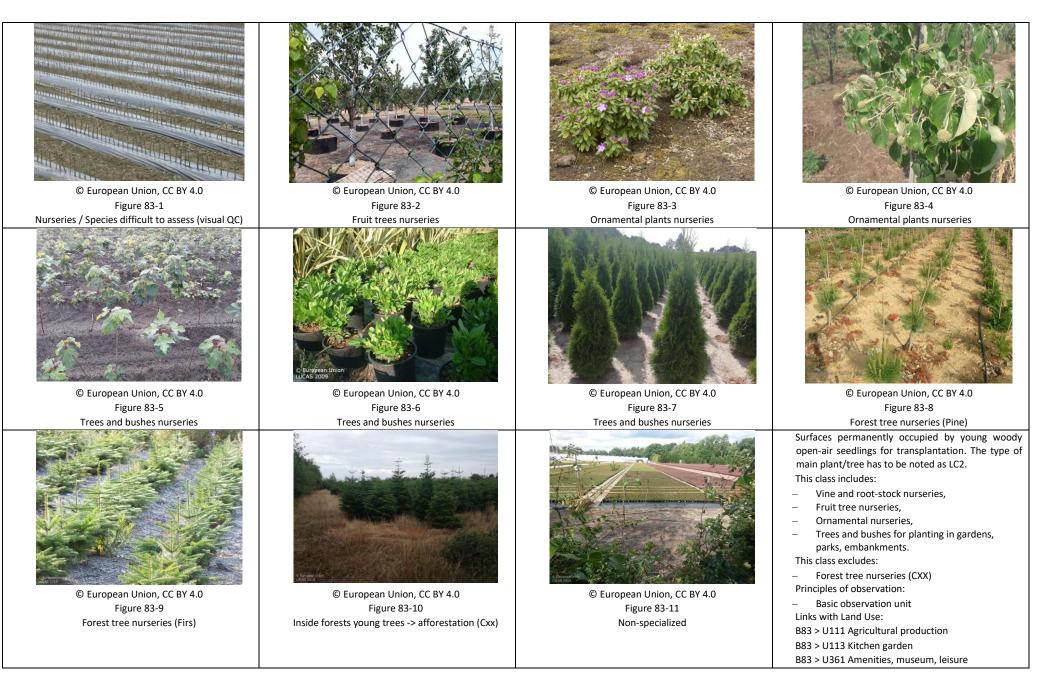
B82 Vineyards





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B83 Nurseries





B84 Permanent industrial crops

Surfaces occupied by permanent industrial crops. The surveyor must note the permanent industrial crop species in the LC plant species field.

This class includes:

- B84a Reeds, canary grass (Phalaris arundinacea) when cultivated and not natural
- B84b Other plants for plaiting
- o Osier
- o Rushes
- o Rattans
- B84c Coffee
- B84d Tea

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- B84e Other industrial plants for beverages
- o Cocoa
- o Mate
- B84f Industrial plants for oil
- o Coconut
- o Palm
- B84g Permanent aromatic plants
 - Black or red pepper
 - o Cinnamon
 - Cloves
 - Ginger
 - o Vanilla
 - Cardamom
- B84h Permanent textile plants
- o Abaca
- Agave
- Kapok
- B84i Plants for rubber and tannin
- o Hevea,
- Red quebracho
- B84j Rose trees cultivated for rose-oil production (not as ornamental plants)
- B84k Other permanent industrial crops
- Lavender (Lavandula spp)
- o Citronella
- o Sage
- Quinine
- Areca nuts
- $\circ \qquad \text{Mulberries for sow production}$
- Carobs
- B84I Miscanthus (Miscanthus giganteus)
- B84m Willow

Principles of observation:

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Extended window of observation

Links with Land Use: B84 > U111 Agricultural production B84 > U112 Fallow land B84 > U113 Kitchen garden B84 > U210 Energy production B84 > U361 Amenities, museum, leisure



© European Union, CC BY 4.0 Figure 84.1 Miscanthus



© European Union, CC BY 4.0 Figure 84.2 Lavender



© European Union, CC BY 4.0 Figure 84.3 Lavender



© European Union, CC BY 4.0 Figure 84.4 Osier



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Figure 84.5 Osier

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Figure 84.6 Tea

Figure 84.7 Coffee

C00 Woodland

Areas covered by trees with a canopy of at least 10% (of the extended window). In addition, woody hedges belong to this class. NB: Height of trees at maturity and width of woody features have to be assessed.

C10 Broadleaved woodland

Areas with a canopy of more than 10% (of the extended window) and composed of more than 75% of broadleaved species.

This class includes: Stands with the following species:

- Acacia (Acacia ssp.)
- Alder (Alnus ssp)
- Ash (Fraxinus excelsior) _
- Aspens (Populus tremula) _
- Beech trees (Fagus sylvatica) _
- Birch (Betula sp.) _
- Carob (Ceratonia siliqua) _
- Elm (Ulmus sp.) _
- Eucalyptus (Eucalyptus globulus) _
- Hedge (Acer campestre) _
- Hornbeam (Carpinus betulus) _
- Linden (Tilia ssp.) _
- Maple (Acer sp.) _
- Palm trees of the Mediterranean and Macaronesian zones (Phoenix theophrasti, Phoenix canariensis)
- Poplars (Populus nigra) _
- Oaks (Quercus sp) _
- Rowan (Sorbus aucuparia)
- Wild olive (Olea europaea ssp. sylvestris)
- Willows (Salix sp.) _

- Young natural stands and managed plantations having yet to reach a canopy of 10%
 - Forest nurseries

Principles of observation:

Extended window of observation _

Links with Land Use:

- C10 > U111 Agricultural use: grazing or crops in dehesas C10 > U120 Forestry (wood production) C10 > U210 Energy production C10 > U340 Wooded areas connected to
- commercial areas
- C10 > U350 Wooded areas connected to community services
- C10 > U36x Wooded areas specifically managed for recreational purposes and in nature reserves
- C10 > U370 Wooded areas in residential areas (urban parks)
- C10 > U420 Not used wooded areas



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C20 Coniferous woodland

Areas with a canopy of more than 10% (of the extended window) and composed of more than 75% of coniferous species.

C21 Spruce dominated coniferous woodland

Stands where >75% of the part of coniferous trees are spruce.

This class includes: Stands with the following species:

- Spruce (Picea sp),
- Christmas trees
- Young stands and plantations having yet to reach a canopy of 10%
- Forest nurseries

Principles of observation:

- Extended window of observation

Links with Land Use:

- C21 > U111 Agricultural use: grazing
- C21 > U120 Forestry (wood production)
- C21 > U210 Energy production
- C21 > U340 Wooded areas connected to commercial areas
- C21 > U350 Wooded areas connected to community services
- C21 > U36x Wooded areas specifically managed for recreational purposes and in nature reserves
- C21 > U370 Wooded areas in residential areas (urban parks)
- C21 > U420 Not used wooded areas



C22 Pine dominated coniferous woodland	C23 Other coniferous woodland
Stands where >75% of the part of coniferous trees are pine species.	Stands where no coniferous species is represented >75%.
This class includes:	This class includes:
Stands with the following species:	 Stands with the following species:
– Pines (Pinus sp.)	 Cedars (Cedrus sp.),
• Scots pines	 Cypresses (Cupressus sempervirens),
 Black pines 	 Firs (Abies sp.),
 Siberian pines 	 Douglas firs (Pseudotsuga menziesii),
 Weymouth pines 	 Larches (Larix ssp),
• Maritime pine	 Pines (Pinus sp.)
 Mediterranean stone pine, etc. 	 Spruce (Picea sp.),
 Young stands and plantations having yet to reach a canopy of 10% 	 Xerophyte conifers
 Forest nurseries 	 Brutia pine,
	 Umbrella pine,
Principles of observation:	 Aleppo pine,
 Extended window of observation 	o Corsican pine
	 Christmas trees
Links with Land Use:	 Young stands, plantations having yet to reach a canopy of 10%
C22 > U111 Agricultural use: grazing	 Forest nurseries
C22 > U120 Forestry (wood production)	
C22 > U210 Energy production	Principles of observation:
C22 > U340 Wooded areas connected to commercial areas	 Extended window of observation
C22 > U350 Wooded areas connected to community services	
C22 > U36x Wooded areas specifically managed for recreational purposes and in nature	Links with Land Use:
reserves	C23 > U111 Agricultural use: grazing
C22 > U370 Wooded areas in residential areas (urban parks)	C23 > U120 Forestry (wood production)
C22 > U420 Not used wooded areas	C23 > U210 Energy production
	C23 > U340 Wooded areas connected to commercial areas
	C23 > U350 Wooded areas connected to community services
	C23 > U36x Wooded areas specifically managed for recreational purposes and in nature
	reserves
	C23 > U370 Wooded areas in residential areas (urban parks)
	C23 > U420 Not used wooded areas

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C30 Mixed woodland

Areas with a canopy of more than 10% and composed of broadleaved and coniferous comprising both >25% of the tree canopy.

C31 Spruce dominated mixed woodland

Stands where >75% of the coniferous trees are spruce. This class includes: Young stands, plantations having yet to reach a canopy of 10% Principles of observation: Extended window of observation Links with Land Use: C31 > U111 Agricultural use: grazing C31 > U120 Forestry (wood production) C31 > U210 Energy production C31 > U340 Wooded areas connected to commercial areas C31 > U350 Wooded areas connected to community services C31 > U36x Wooded areas specifically managed for recreational purposes and in nature reserves C31 > U370 Wooded areas in residential areas (urban parks) C31 > U420 Not used wooded areas



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C32 Pine dominated mixed woodland	C33 Other mixed woodland	
Stands where >75% of the coniferous trees are pine.	Stands with all other coniferous species and less than 75% of spruce and/or pine trees.	
This class includes:	This class includes:	
 Young stands and plantations having yet to reach a canopy of 10% 	 Young stands, plantations having yet to reach a canopy of 10% 	
Principles of observation:	Principles of observation:	
 Extended window of observation 	 Extended window of observation 	
Links with Land Use: C32 > U111 Agricultural use: grazing C32 > U120 Forestry (wood production) C32 > U210 Energy production C32 > U340 Wooded areas connected to commercial areas C32 > U350 Wooded areas connected to community services C32 > U36x Wooded areas specifically managed for recreational purposes and in nature reserves	Links with Land Use: C33 > U111 Agricultural use: grazing C33 > U120 Forestry (wood production) C33 > U210 Energy production C33 > U340 Wooded areas connected to commercial areas C33 > U350 Wooded areas connected to community services C33 > U36x Wooded areas specifically managed for recreational purposes and in nature reserves	
C32 > U370 Wooded areas in residential areas (urban parks) C32 > U420 Not used wooded areas	C33 > U370 Wooded areas in residential areas (urban parks) C33 > U420 Not used wooded areas	

Forest types (LUCAS SU FT)

If the forest is larger than 0.5 ha, the height of trees is above 5 m at maturity and the width of the wooded feature is more than 20 m, the surveyor has to indicate the forest cover code in the respective "LC plant species" field, according to the forest type classification of the European Environment Agency².

A key for recognizing the forest types and a biogeographical map of Europe can be found in the ANNEXES to document C1.

CXX1 Boreal forest

Coniferous and mixed broadleaved-coniferous forest of the Boreal (climate) zone of Europe, known also as taiga. Two conifer species, Scots pine (Pinus sylvestris) and Norway spruce (Picea abies) dominate the boreal forest zone; both of them have quite broad habitat amplitudes and may grow from very dry to wet habitats. Pine generally prevails on drier soils, in areas with a more continental climate and with a high fire frequency. Spruce, on the other hand, prevails on more nutrientrich, mesic-moist soils, in areas with a more oceanic climate and on sites with a low fire frequency. Birch species (e.g. Betula pubescens, Betula pendula) as well as other deciduous trees, such as aspen, rowan and grey alder can be frequently found growing amongst the conifers. Admixtures of spruce or pine with birch species are also typical of the pioneer stages of the forest succession.

This class includes:

Young stands and plantations having yet to reach a canopy of 10%
 This class excludes:

Alpine forests in Scandinavia (CX3)

Principles of observation:

Extended window of observation

Links with Land Use:

CXX1 > U111 Agricultural use: grazing

CXX1 > U120 Forestry (wood production)

CXX1 > U350 Wooded areas connected to community services

CXX1 > U36x Wooded areas specifically managed for recreational purposes

CXX1 > U370 Wooded areas in residential areas (urban parks)

CXX1 > U420 Not used wooded areas



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² See the document: European forest types. Categories and types for sustainable forest management reporting and policy. EEA Technical Report No 9/2006) downloadable at http://reports.eea.europa.eu/technical report 2006 9/en

CXX2 Hemiboreal forest and nemoral coniferous forest and mixed broadleavedconiferous forest

The hemi-boreal zone is a transitional zone between the boreal and temperate forest of nemoral Europe. It is characterized by the coexistence of boreal coniferous — on poor soils — and temperate broadleaved tree species (Fraxinus excelsior, Ulmus glabra, Tilia cordata, Quercus robur) on the most fertile soils. The structure and composition of hemiboreal forest is maintained by a complex admixture of natural and cultural disturbances.

The type is characterized by mixtures of Scots pine (Pinus sylvestris) and Norway spruce (Picea abies) with broadleaves deciduous trees such as Birch (Betula spp), aspens (Populus tremula), alder (Alnus sp) and rowan (Sorbus aucuparia). The broadleaved trees generally characterize early to mid-successional stages; with age the dominance of coniferous species increases.

This class includes:

Young stands and plantations having yet to reach a canopy of 10%

Principles of observation:

- Extended window of observation

Links with Land Use:

CXX2 > U111 Agricultural use: grazing

CXX2 > U120 Forestry (wood production)

CXX2 > U350 Wooded areas connected to community services

CXX2 > U36x Wooded areas specifically managed for recreational purposes

CXX2 > U370 Wooded areas in residential areas (urban parks)

CXX2 > U420 Not used wooded areas



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CXX3 Alpine coniferous forest

Forests occurring in the alpine biogeographical region dominated by coniferous trees, mainly Norway spruce (Picea abies), Silver fir (Abies alba), Scots pine (Pinus sylvestris), Swiss stone pine (Pinus cembra), mountain pine (Pinus mugo, Pinus uncinata), Macedonian pine (Pinus peuce) and Bosnian pine (Pinus heldreichii). Included in this category is the forest vegetation of high altitudinal vegetation belts of the central European mountain ranges dominated by spruce (Picea abies), silver fir (Abies alba) and, under local microclimatic and edaphic conditions, termophilous pure Austrian pine (Pinus nigra) forests of the southern Alps.

This class includes:

- Young stands and plantations having yet to reach a crown density of 10% or 5m tree height
- Alpine forests in Scandinavia

This class excludes:

Boreal forest (CXX1)

Principles of observation:

Extended window of observation

Links with Land Use:

CXX3 > U111 Agricultural use: grazing CXX3 > U120 Forestry (wood production) CXX3 > U350 Wooded areas connected to community services CXX3 > U36x Wooded areas specifically managed for recreational purposes CXX3 > U370 Wooded areas in residential areas (urban parks) CXX3 > U420 Not used wooded areas



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CXX4 Acidophilous oak and oak-birch forest

Acidophilous oakwoods and mixed oak-birch forest characteristic of oligotrophic soils of the nemoral forest zone. The main areas of distribution of the class are the Atlantic and Continental biogeographical regions. Lowland to submountainous forests are dominated by acidophilous oaks (Quercus petraea and Quercus robur). In the wide natural range of distribution of beech trees (Fagus sylvatica) oakwoods are pushed back to areas with poor acid soils, with variable soil moisture or thin soil layers. Pioneers such as birch (Betula pendula, Betula pubescens) are important during the regeneration phase in the western parts of the area of occurrence. In the eastern parts pine (Pinus sp.) and locally spruce (Picea sp) can form together with oak the tree layer. In the south-western areas of occurrence some Mediterranean species can participate in the tree layer. Aspen (Populus tremula), rowan (Sorbus aucuparia), Norway maple (Acer platanoides), ash (Fraxinus excelsior), linden (Tilia cordata) and Wych elm (Ulmus glabra) can be found in the southern boreal region.

This class includes:

Young stands and plantations having yet to reach a canopy of 10%

Principles of observation:

Extended window of observation

Links with Land Use:

CXX4 > U111 Agricultural use: grazing CXX4 > U120 Forestry (wood production) CXX4 > U350 Wooded areas connected to community services CXX4 > U36x Wooded areas specifically managed for recreational purposes CXX4 > U370 Wooded areas in residential areas (urban parks) CXX4 > U420 Not used wooded areas



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CXX5 Mesophytic deciduous forest

Forests, typically with mixed canopy composition, on rich and moderately rich soils. The category includes forests dominated by mixtures of Hornbeam (*Carpinus betulus*), Sessile oak (*Quercus petraea*), Pedunculate oak (*Quercus robur*), ash (*Fraxinus excelsior, Fraxinus angustifolia*), hedge (*Acer campestre*) maple (*Acer pseudoplatanus*) and linden (*Tilia cordata*).

This class includes:

Young stands and plantations having yet to reach a canopy of 10%

Principles of observation:

Extended window of observation

Links with Land Use:

CXX5 > U111 Agricultural use: grazing CXX5 > U120 Forestry (wood production) CXX5 > U350 Wooded areas connected to community services CXX5 > U36x Wooded areas specifically managed for recreational purposes CXX5 > U370 Wooded areas in residential areas (urban parks) CXX5 > U420 Not used wooded areas



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CXX6 Beech forest

Beech forests are characterised by the dominance of beech (Fagus sylvatica) L. or its transitional hybrids with oriental beech (Fagus orientalis Lipsky) in the eastern and southern parts of the Balkan Peninsula, and along the eastern periphery of the Carpathians. These latter were described as Balkan beech (Fagus moesiaca Csecz.), Podolian or Moldovian beech (Fagus podolica Yap.) and Crimean beech (Fagus taurica Popl). Specific elevation range (from lowlands to submountainous, 0 to 600(–800) meters above sea level) and the lack of conifers define this type often referred to as lowland and submountainous beech forest. Important additional tree species include Norvay maple (Acer platanoides), Sycamore Maple (Acer pseudoplatanus), birch (Betula pendula), hornbeam (Carpinus betulus), Sweet chestnut (Castanea sativa), ash (Fraxinus excelsior), aspen (Populus tremula), wild cherry (Prunus avium), oak (Quercus petraea, Quercus robur), rowan (Sorbus aucuparia), linden (Tilia cordata, Tilia platyphyllos), Wych elm (Ulmus glabra).

This class includes:

Young stands and plantations having yet to reach a canopy of 10%

Principles of observation:

Extended window of observation

Links with Land Use: CXX6 > U111 Agricultural use: grazing CXX6 > U120 Forestry (wood production) CXX6 > U350 Wooded areas connected to community services CXX6 > U36x Wooded areas specifically managed for recreational purposes CXX6 > U370 Wooded areas in residential areas (urban parks) CXX6 > U420 Not used wooded areas



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CXX7 Mountainous beech forest

Mountainous beech forests are defined by the altitudinal range of distribution, by the dominance of Fagus and, in most cases, by the presence of coniferous species (Abies alba and/or Picea abies) as important components. Locally important additional tree species include Norvay maple (Acer platanoides), Sycamore Maple (Acer pseudoplatanus), birch (Betula pendula), hornbeam (Carpinus betulus), Sweet chestnut (Castanea sativa), ash (Fraxinus excelsior), aspen (Populus tremula), wild cherry (Prunus avium), oak (Quercus petraea, Quercus robur), rowan (Sorbus aucuparia), linden (Tilia cordata, Tilia platyphyllos), Wych elm (Ulmus glabra), oriental beech (Fagus orientalis Lipsky) and Goat willow. (Salix caprea) depending on trophic status and/or successional phase.

This class includes:

- $\,$ Young stands and plantations having yet to reach a canopy of 10% $\,$

Principles of observation:

Extended window of observation

Links with Land Use:

CXX7 > U111 Agricultural use: grazing CXX7 > U120 Forestry (wood production) CXX7 > U350 Wooded areas connected to community services CXX7 > U36x Wooded areas specifically managed for recreational purposes CXX7 > U370 Wooded areas in residential areas (urban parks) CXX7 > U420 Not used wooded areas



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CXX8 Thermophilous deciduous forest

Forest dominated by deciduous or semideciduous thermophilous species, mainly Downy Oak (Quercus pubescens); other oaks associate with or replace (Q. pubescens in submediterranean woods: Quercus faginea, Q. pyrenaica and Q. canariensis (Spain), Q. cerris (Italy), Q. frainetto, Q. trojana (Greece)). The species typically associated in these oak woods are maples (Acer monspessulanus, Acer opalus, Acer obtusatum) and, in eastern areas, Hop-hornbeam (Ostrya carpinifolia), Manna ash (Fraxinus ornus), Oriental hornbeam (Carpinus orientalis). Forest dominated by thermophilous deciduous oaks, under local microclimatic or edaphic conditions, are found also far north in the Atlantic region, Pannonic and Continental regions.

This class includes:

- Other deciduous non-alluvial formations of meso- and supra-Mediterranean zone, dominated by Fraxinus spp., Ostrya carpinifolia, Carpinus orientalis, Acer spp., Tilia spp., Carpinus betulus, Aesculus hippocastanus and Juglans regia;
- Castanea sativa dominated forests, represented, for the most part, by old established and naturalised plantations.
- Young stands and plantations having yet to reach a canopy of 10%

Principles of observation:

Extended window of observation

Links with Land Use:

CXX8 > U111 Agricultural use: grazing CXX8 > U120 Forestry (wood production) CXX8 > U350 Wooded areas connected to community services CXX8 > U36x Wooded areas specifically managed for recreational purposes CXX8 > U370 Wooded areas in residential areas (urban parks) CXX8 > U420 Not used wooded areas



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CXX9 Broadleaved evergreen forest

Forests characteristic of the Mediterranean and warmtemperate humid zones of Macaronesia biogeographical regions, dominated by broadleaved sclerophyllous or lauriphyllous evergreen trees. Broadleaved evergreen forests can be dominated by the evergreen sclerophyllous oaks (Quercus suber, Q. ilex, Q. rotundifolia, Q. coccifera, Q. alnifolia).

Cork oak and holm oak form the most widespread evergreen woodland in the Mediterranean Region.

Forest dominated by holm oak (Quercus ilex), are typical of the meso-Mediterranean level, but ingression to the supra-mediterranean level is also common. Holm oak woodland is often, but not necessary, calcicolous.

Cork oak (Quercus suber) dominated woodland has a west-Mediterranean distribution and is associated to siliceous substrates. It is usually more thermophilous and hygrophilous than holm oak woodland. In some areas, holm-oak and cork-oak woodland are closely related and the two oaks occur in mixed stands.

Arborescent formations dominated by Kermes oak (Quercus coccifera, Quercus 'calliprinos', Quercus 'pseudococcifera') or Golden oak (Quercus alnifolia); occurring in the Iberian Peninsula, Greece and eastern Mediterranean (Cyprus, Anatolia).

Thermo-Mediterranean woodland dominated by arborescent tree layer, often open, of wild olive (Olea europaea ssp. sylvestris), carob (Ceratonia siliqua) or a mixture of the two; found in southern

Spain (Andalucia, Menorca, Maiorca), southern Italy (Puglia, Calabria, Sardinia, Sicilia), Crete, Cyprus and Turkey.

Woods, often riparian, formed by palm trees of the Mediterranean and Macaronesian zones, Phoenix theophrasti of Crete and western Anatolia, and Phoenix canariensis of the Canary Islands.

This class includes:

Young stands and plantations having yet to reach a canopy of 10%

Principles of observation:

Extended window of observation

Links with Land Use:

CXX9 > U111 Agricultural use: grazing

CXX9 > U120 Forestry (wood production)

CXX9 > U350 Wooded areas connected to community services

CXX9 > U36x Wooded areas specifically managed for recreational purposes

CXX9 > U370 Wooded areas in residential areas (urban parks)

CXX9 > U420 Not used wooded areas



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CXXA Coniferous forest of the Mediterranean region

The category covers a wide range of xerophytic forests dominated by coniferous species (pines, firs, junipers, cypress, cedar) found in the Mediterranean, Anatolian and Macaronesian biogeographical Regions.

Woodland dominated by thermophilous Pine species (Pinus pinaster ssp. pinaster, Pinus pinea, Pinus halepensis, Pinus brutia). These pinewoods constitute thermo-Mediterranean pioneer formations, largely widespread in the coasts and lowlands of the circumediterranean regions. Woods dominated by Black pine (Pinus nigra spp), characteristic of the mountainous level of the Mediterranean and Anatolia regions. Scots pine forest (Pinus sylvestris) in the Mediterranean region have a mountainous and oro-Mediterranean distribution. Local treeline formations of Bosnian pine (Pinus heldreichii and Pinus leucodermis) are restricted to the southern Balkans, northern Greece and southern Italy. Fir woods (Abies) are distributed along the rim of the southern Mediterranean basin and western Anatolia. Woods dominated by Junipers (Juniperus spp.) of the Mediterranean and Anatolian mountains. Pure or mixed forests of Lebanon cedar (Cedrus libani) of the southern Anatolia and locally north-eastern Anatolia (subpontic forests) and endemic endangered Cedrus brevifolia forest of Cyprus.

This class includes:

Young stands and plantations having yet to reach a canopy of 10%

Principles of observation:

Extended window of observation

Links with Land Use: CXXA > U111 Agricultural use: grazing CXXA > U120 Forestry (wood production) CXXA > U350 Wooded areas connected to community services CXXA > U36x Wooded areas specifically managed for recreational purposes CXXA > U370 Wooded areas in residential areas (urban parks) CXXA > U420 Not used wooded areas



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CXXB Mire and swamp forest

Coniferous or broadleaved forested wetlands, located mainly in Fennoscandia with scattered occurrences on peaty soils throughout Europe. Forested wetlands consist of a heterogeneous complex of wet and moist forest types, and they are characterized by a high water table of variable duration. The terminology used to characterize them differs between countries. In Sweden, for example, swamp forests are classified as forests and not as mires if the annual forest productivity exceeds 1 m3 per ha or if the tree layer has a crown projection exceeding 30 %. In Finland, however, the classification is based on botanical and hydrological criteria. As a consequence, wet and moist forests are assigned to the mire series regardless of forest productivity and tree cover. Therefore, many herb-rich vegetation types are included in this category.

The dominating trees are spruces (Picea sp.) and birches (Betula sp.) in swamps or pines (Pinus sp. in bogs. Swamp forests can be dominated by alder (Alnus sp.), birch (Betula sp.), pedunculate oaks (Quercus robur) or aspen (Populus tremula).

This class includes:

Young stands and plantations having yet to reach a canopy of 10%

This class excludes:

Peat bogs (H12)

Principles of observation:

Extended window of observation

Links with Land Use:

CXXB > U111 Agricultural use: grazing CXXB > U120 Forestry (wood production) CXXB > U350 Wooded areas connected to community services CXXB > U36x Wooded areas specifically managed for recreational purposes CXXB > U370 Wooded areas in residential areas (urban parks) CXXB > U420 Not used wooded areas



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CXXC Floodplain forests

Alluvial and riparian woodlands and galleries close to main European river channels. These are species-rich often multi-layered communities characterised by different assemblages of forest dominant trees. Forest composition and structure largely depends on the frequency of flooding.

Included are those forest communities typically associated with alluvial or riparian woodlands that may constitute locally important forest types e.g. in Bulgaria, the dense forests of field elm and ashes associated to alluvial and riparian mixed forests.

Riparian forests of the boreal, boreo-nemoral and nemoral zone growing on low-lying areas and organic soils frequently flooded and close to river channels. Characteristically dominated by species of alder (Alnus), birch (Betula sp.), aspens (Populus tremula) and willows (Salix sp.).

In the Mediterranean and Macaronesian regions additions local species (e.g. Fraxinus angustifolia, Platanus orientalis, Alnus orientalis Nerium Oleander, Tamarix, Liquidambar and Flueggea tinctoria) exist.

This class includes:

Young stands and plantations having yet to reach a canopy of 10%

Principles of observation:

Extended window of observation

Links with Land Use:

CXXC > U111 Agricultural use: grazing CXXC > U120 Forestry (wood production) CXXC > U350 Wooded areas connected to community services CXXC > U36x Wooded areas specifically managed for recreational purposes CXXC > U370 Wooded areas in residential areas (urban parks) CXXC > U420 Not used wooded areas



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CXXD Non-riverine alder, birch or aspen forest

Non-riparian, non-marshy forest formations dominated by alder (Alnus glutinosa, Alnus incana, Alnus cordata), birch (Betula pendula, Betula pubescens, Betula celtiberica, Betula aetnensis) or aspen (Populus tremula).

This class includes:

Young stands and plantations having yet to reach a canopy of 10%

Principles of observation:

Extended window of observation

Links with Land Use:

CXXD > U111 Agricultural use: grazing CXXD > U120 Forestry (wood production) CXXD > U350 Wooded areas connected to community services CXXD > U36x Wooded areas specifically managed for recreational purposes CXXD > U370 Wooded areas in residential areas (urban parks) CXXD > U420 Not used wooded areas



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CXXE Plantations and self-sown exotic forest

The class covers forest and self-sown stands of exotic species.

This class includes:

- Eucalyptus (Eucalyptus spp),
- Douglas fir (Pseudotsuga menziesii),
- Sitca sprouce (Picea sitkensis),
- Young stands and plantations having yet to reach a canopy of 10%

This class excludes:

- Plantations of autochthonous species

Principles of observation:

Extended window of observation

Links with Land Use:

CXXE > U111 Agricultural use: grazing

- CXXE > U120 Forestry (wood production)
- CXXE > U340 Wooded areas connected to commercial area

CXXE > U350 Wooded areas connected to community services

CXXE > U36x Wooded areas specifically managed for recreational purposes

CXXE > U370 Wooded areas in residential areas (urban parks)

CXXE > U420 Not used wooded areas



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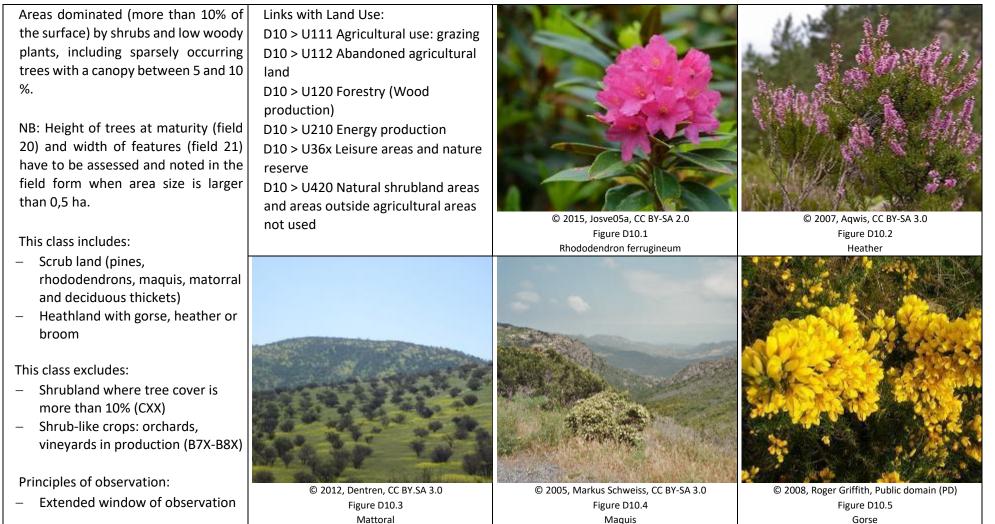
D00 Shrubland

Areas dominated (more than 10% of the surface) by shrubs and low woody plants capable of reaching height up to 5m. It may include sparsely occurring trees within a maximum limit of 10% canopy.

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In central Europe, only heath lands and some rural communities are falling into this category.

D10 Shrubland with sparse tree cover



D20 Shrubland without tree cover

Areas dominated (more than 10% of the surface) by shrubs and low woody plants. Sparsely occurring trees should not cover more than 5% of the area.

This class includes:

- Scrub land (pines, rhododendrons, maquis, matorral and deciduous thickets)
- Dwarf shrub tundra with dwarf birches and willows
- Heather and dwarf juniper vegetation
- Garrigues with strawberry trees, thyme, white rock rose, lavender and rosemary
- Heathland with gorse, heather or broom
- Spiny mediterranean heaths (phrygana)
- Xerophytic areas with succulents

This class excludes:

- Shrubland where tree cover is more than 10% (CXX)
- Shrubland where the tree cover is between 5-10% (D01)
- Shrub-like crops: orchards, vineyards (B7X-B8X)

Principles of observation:

Extended window of observation

Links with Land Use:

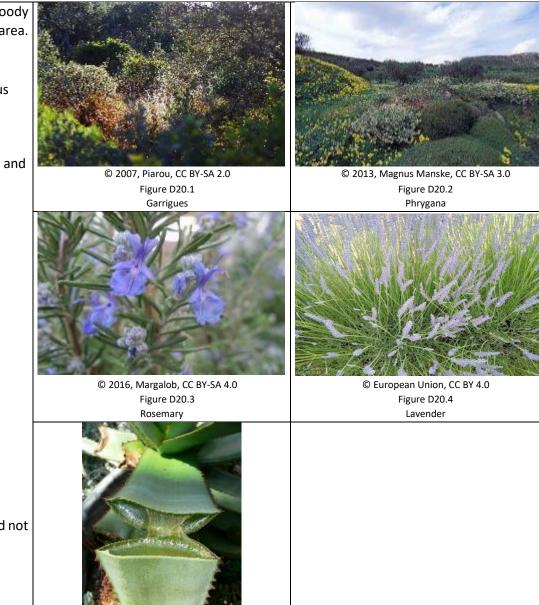
D20 > U111 Agricultural use: grazing

D20 > U112 Abandoned agricultural land

D20 > U120 Forestry (Wood production)

D20 > U36x Leisure areas s and nature reserves

D20 > U420 Natural shrubland areas and areas outside agricultural land not used



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E00 Grassland

Land predominantly covered by communities of grassland, grass-like plants and forbs. It may include sparsely occurring trees within a limit of a canopy of <10% and shrubs within a total limit of cover (including trees) of 20%.

E10 Grassland with sparse tree/shrub cover

Land predominantly covered by communities of grassland, grass-like plants and forbs including sparsely occurring trees (the canopy is between 5 and 10% and the total of the tree+shrub canopy is between 5 and 20% of the area). Fruit trees on grassland are classified with their species in as B7x in second land cover.

NB: Height of trees at maturity (field 20) and width of features (field 21) have to be assessed when area size is larger than 0,5 ha.

This class includes:

- dry grasslands
- dry edaphic meadows
- steppes with gramineae and artemisia
- plain and mountainous grassland
- wet grasslands
- alpine and subalpine grasslands
- saline grassland
- arctic meadows
- temporarily unstocked areas within forests

Principles of observation:

Extended window of observation

Links with Land Use:

Agriculture: Permanent pastures, rough grazings, alpages, meadows
Fallow and abandoned land
Clear cuts within previously existing forests
Energy production
Associated areas of transport areas
Grassland attached to commerce, finance or business areas
Grassland attached to community service areas
Grassland for recreation: public gardens, golf courses, sports fields s and nature
Grassland attached to residential areas
Natural grassland or abandoned grassland outside agricultural areas not used

E20 Grassland without tree/shrub cover

Land predominantly covered by communities of grassland, grass like plants and forbs without trees and shrubland (density of tree+shrub crown is less than 5%).

This class includes:

- dry grasslands
- dry meadows and steppes
- plain and mountainous grassland



- wet grasslands
- alpine and subalpine grasslands
- saline grasslands
- arctic meadows
- temporarily unstocked areas within forests

Principles of observation:

- Extended window of observation

Links with Land Use:

E20 > U111	Agriculture: Permanent pastures, rough grazings, alpages
E20 > U112	Fallow and abandoned land
E20 > U120	Clear cuts within previously existing forests
E20 > U31x	Associated areas of transport areas
E20 > U340	Grassland attached to commerce, finance or business areas
E20 > U350	Grassland attached to community service areas
E20 > U36x	Grassland for recreation: public gardens, golf courses, sports fields s and nature
reserves	
E20 > U370	Grassland attached to residential areas
E20 > U4x0	Natural grassland or abandoned grassland outside agricultural areas not used



E30 Spontaneously re-vegetated surfaces

It consists of mostly agricultural land which has not been cultivated this year or the years before. It has not been prepared for sowing any crop this year. This class can also be found on clear-cut forest areas, industrial "brownfields", storage land and of course on abandoned or unused land etc.

Main case is agricultural land not providing a crop during the entire year or abandoned earlier agricultural surfaces. It is occupied by spontaneous vegetation in case of set-aside arable land, with some tall herbs or weeds. This class applies as well for former grassland or hedge margins which are currently not used anymore but covered by tall herbs fringes. There might be some bare land pockets or crop residues and spontaneous re-grown crops of the before management period. Only surfaces which have not been deliberately sown and do not have any fodder crops like mixed cereals or are temporary grasslands classify for this land cover class.

This class includes:



- Set aside land within agricultural areas
- Unused artificial land

This class excludes:

- Other Legumes and mixtures for Fodder (B53)
- Mixed cereals (B54)
- Temporary grassland (B55)
- Grassland without tree/shrub cover (E20)
- Bare land (F00)

Principles of observation:

Extended window of observation

Links with Land Use:

E30 > U112	Spontaneous vegetation on fallow land
E30 > U120	Clear cuts within previously existing forests
E30 > U140	Mining and quarrying if in use
E30 > U21x	Energy and industrial production surfaces with spontaneous vegetation cover if still in
use	
E30 > U31x	Transport, storage, water and waste treatment etc. surfaces with spontaneous vegetation cover if in us
E30 > U420	Unused, spontaneously vegetated land

F00 Bare land and lichens/moss

Areas with no dominant vegetation cover on at least 90% of the area or areas covered by lichens.

F10 Rocks and Stones

This class includes:

- inland rock cliffs
- areas of rock outcrop and limestone parent
- scree
- block litter and mountain top debris
- land covered with recent volcanic features.

Principles of observation:

Basic observation unit

Links with Land Use:

F10 > U140	Scrapped	or excavate	d areas f	or quarrying,	mining purposes

- F10 > U21x Rocky areas attached to energy production
- F10 > U22x Rocky areas attached to industrial use
- F10 > U31x Rocky areas attached to transport areas
- F10 > U330 Construction sites
- F10 > U340 Rocky areas attached to commercial services
- F10 > U350 Rocky areas attached to community services
- F10 > U36x Rocky areas used for recreational and leisure purposes and nature reserves
- F10 > U370 Rocky areas attached to residential areas
- F10 > U4x0 Rocky areas not used (inland rocks, top mountains)



F20 Sand

This class includes:

- areas of sand, shingle and mud: beaches, dunes, sand hills
- gravel or sand banks above water level.

This class excludes:

– Intertidal areas (H23)

Principles of observation:

Basic observation unit

Links with Land Use:

F20 > U120	Clear cuts within previously existing forests
F20 > U140	Scrapped or excavated areas for quarrying, mining purposes
F20 > U21x	Sandy areas attached to energy production
F20 > U22x	Sandy areas attached to industrial use
F20 > U31x	Sandy areas attached to transport areas
F20 > U330	Construction sites
F20 > U340	Sandy areas attached to commercial services
F20 > U350	Sandy areas attached to community services
F20 > U36x	Sandy areas used for recreational and leisure purposes and nature reserves
F20 > U370	Sandy areas attached to residential areas
F20 > U4x0	Sandy areas not used (inland rocks, top mountains)

F30 Lichens and Moss

This class includes:

- areas covered by lichens
- areas covered by moss.

Principles of observation:

Basic observation unit

Links with Land Use:

F30 > U120	Clear cuts within previously existing forests
F30 > U140	Scrapped or excavated areas for quarrying, mining purposes
F30 > U21x	Areas attached to energy production
F30 > U22x	Areas attached to industrial use
F30 > U31x	Areas attached to transport areas
F30 > U330	Construction sites
F30 > U340	Areas attached to commercial services
F30 > U350	Areas attached to community services
F30 > U36x	Areas used for recreational and leisure purposes and nature reserves
F30 > U370	Areas attached to residential areas
F30 > U4x0	Areas not used (inland rocks, top mountains)

F40 Other bare soil

This class includes:

– Bare arable land



- Temporarily unstocked areas within forests (clear cuts)
- Burnt areas
- Tracks and parking areas/yards with bare land cover.

This class excludes:

- Impervious cover (A2x)
- Dune grassland (E20)
- Heaths, scrub and woods dunes (D)
- Peat bogs (H12)

Principles of observation:

Basic observation unit

Links with Land Use:

F40 > U111	Agricultural bare land, tilled and/or prepared for seeding
F40 > U112	Fallow land with crop residue
F40 > U120	Clear cuts within previously existing forests
F40 > U140	Scrapped or excavated areas for quarrying, mining purposes
F40 > U21x	Bare areas attached to energy production
F40 > U22x	Bare areas attached to industrial use
F40 > U31x	Bare areas attached to transport areas
F40 > U330	Construction sites
F40 > U340	Bare areas attached to commercial services
F40 > U350	Bare areas attached to community services
F40 > U36x	Bare areas used for recreational and leisure purposes and nature reserves
F40 > U370	Bare areas attached to residential areas
F40 > U4x0	Bare areas abandoned or not used

Example of bare land



G00 Water areas

Inland or coastal areas without vegetation and covered by water and flooded surfaces, or likely to be so over a large part of the year.



Temporarily submerged islands and sandbanks are to be assigned in F classes.

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G10 Inland water bodies

Inland areas of still open water.

This class includes:

Lakes, ponds, meres, reservoirs

Principles of observation:

Basic observation unit

Links with Land Use:

G10 > U111	Small ponds attached to agricultural use
G10 > U130	Fish farming
G10 > U140	Gravel and sand extraction under water
G10 > U210	Energy production
G10 > U22x	Industrial bodies of water, dockyards
G10 > U313	Bodies of water used for transport
G10 > U32x	Decanters, reservoirs
G10 > U340	Bodies of water attached to commercial services
G10 > U350	Bodies of water attached to community services
G10 > U361-3	Swimming pools
G10 > U370	Swimming pools
G10 > U4x0	Abandoned or not used bodies of water

G20 Inland running water

Inland channels of running water.

This class includes:

- Rivers
- Streams
- Springs
- Canals
- Temporary streams

Principles of observation:

Basic observation unit

Links with Land Use:

G20 > U111	Agriculture
G20 > U130	Fish farming
G20 > U140	Gravel and sand extraction under water
G20 > U313	Rivers, canals used for transport
G20 > U361-3	Recreation, leisure, sport
G20 > U4x0	Abandoned or not used



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G30 Coastal water bodies

Water surfaces in estuaries and lagoons.

This class includes:

- Estuaries: the wide portion of rivers at their mouths subject to the influence of the sea into which the water course flows: the limit is fixed at the point where width is less than 5 km at high tide and greater than 3 km at low tide
- Lagoons: cut off from the sea by coastal banks or other forms of relief with, however, certain possible openings.

Principles of observation:

Basic observation unit

Links with Land Use:

G30 > U130	Marine aquaculture
G30 > U140	Salt extraction
G30 > U313	Bodies of water used for transport
G30 > U361-3	Specific leisure, recreational equipment's
G30 > U420	Unused

G50 Glaciers, permanent snow

Areas covered by glaciers (generally measured at the time of their greatest expansion in the season) or permanent snow.

Principles of observation:

Basic observation unit

Links with Land Use:

G50 > U361-3 Ski tows on glaciers G50 > U420 Unused

H00 Wetlands

Wetlands are areas that fall between land and water. These are areas that are wet for long enough periods that the plants and animals living in or near them are adapted to, and often dependent on, wet conditions for at least part of their life cycle.

Wetlands are defined as land that is:

- Inundated with water on a temporary or permanent basis.
- Inundated with water that is usually slow moving or stationary.
- Inundated with water that is shallow.
- Inundated with water that may be fresh, brackish or saline.

H10 Inland wetlands

Wetlands located in inland.



H11 Inland marshes

Inland marshes are wetlands usually saturated around the year and seasonally flooded dominated by grasses or grasslike plants.

This class includes:

- Inland marshes
- Reeds (inland)

This class excludes:

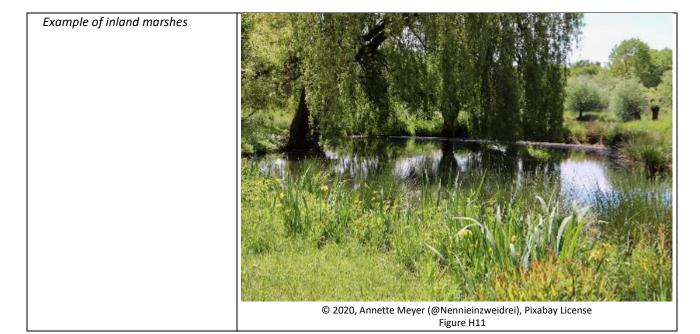
- Peatbogs, fens (H12)
- Salt marshes (H21)
- Rice fields (B17)
- Plantations of plants for plaiting including reeds (B84)

Principles of observation:

Extended window of observation

Links with Land Use:

H11 > U210	Energy production
H11 > U321	Water supply and treatment
H11 > U4x0	Abandoned or Unused



H12 Peatbogs

Bogs accumulate acidic peat, a deposit of dead plant material—usually mosses.

This class includes:

- Turf
- Peat bogs
- Fens

This class excludes:

- Mire and swamp forests (CXX)
- Alluvial forests (tree crown more than 10 %) (CXX)



- Lichens (F30)

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Principles of observation:

Extended window of observation

Links with Land Use:

H12 > U140Mining and quarrying: Peat extractionH12 < U4x0</td>Abandoned or Unused

H20 Coastal wetlands

Wetlands located on marine coasts.

H21 Salt marshes

A salt marsh is a type of marsh that is a transitional intertidal between land and salty or brackish water.

This class includes:

- Salt marshes
- Marine reeds

This class excludes:

- Inland marshes (H11)
- Salines (H22)

Principles of observation:

Extended window of observation

Links with Land Use:

H21 > U210Energy productionH21 > U4x0Abandoned or Unused

H22 Salines

Actively used or abandoned salt evaporation ponds and salt pans with clear parcels and embankment systems.

This class includes:

Active or abandoned salines

This class excludes:

Salt marshes (H21)

Principles of observation:

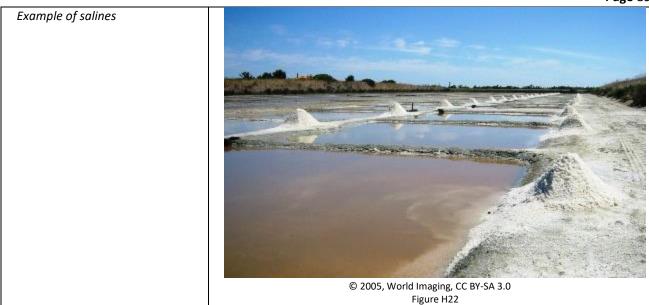
Extended window of observation

Links with Land Use:

H22 > U140 Salt extraction H22 > U410 Abandoned







H23 Intertidal flats

Normally unvegetated mud, sand or rock flats located between high and low tide water marks.

This class includes:

Rock, sand and mud flats affected by tides

This class excludes:

- Salt marshes (H21)
- Active of abandoned salines (H22)
- Beaches normally above the water level (F10)

Principles of observation:

Extended window of observation

Links with Land Use:

H23 > U130 Fishing: Collect of water organisms H23 > U420 Unused



Land use classification (LUCAS SU LU) U110 Agriculture

U111 Agriculture (excluding fallow land and kitchen gardens)

Areas used for agricultural purposes (NACE Section A01).

This class includes the production of crop products and production of animal products. This class includes growing of crops in open fields as well in greenhouses. The preparation of products for the primary markets is included here. These areas are normally harvested with use of agricultural machinery (exc. delicate crops). The class also includes field construction (e.g. agricultural land terracing, drainage, preparing rice paddies etc. - NACE section F), as well as landscape care and maintenance (NACE 81.30).

This class includes:

01.1 Growing of non-perennial crops

- Growing of cereals (except rice), leguminous crops and oil seeds
- Growing of rice
- Growing of vegetables and melons, roots and tubers
- Growing of sugar cane
- Growing of tobacco
- Growing of fiber crops
- Growing of fodder crops (including temporary grassland)
- Growing of other non-perennial crops (including industrial reed beds)

01.2 Growing of perennial crops

- Growing of grapes
- Growing of tropical and subtropical fruits
- Growing of citrus fruits
- Growing of pome fruits and stone fruits
- Growing of other tree and bush fruits and nuts
- Growing of oleaginous fruits
- Growing of beverage crops
- Growing of spices, aromatic, drug and pharmaceutical crops
- Growing of other perennial crops

01.3 Plant propagation

- Growing of plants for planting
- Growing of plants for ornamental purposes, including turf for transplanting
- Growing of live plants for bulbs, tubers and roots; cuttings and slips; mushroom spawn

01.4 Animal production

- (includes raising (farming) and breeding of all animals, except aquatic animals)
- Raising of dairy cattle (including the grazing areas)
- Raising of other cattle and buffaloes (including the grazing areas)
- Raising of horses and other equines (including the grazing areas)
- Raising of sheep and goats (including the grazing areas)
- Raising of swine/pigs
- Raising of poultry
- Raising of other animals (including the grazing areas)

01.5 Growing of crops combined with farming of animals (mixed farming)

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 Crop growing in combination with farming of livestock at mixed activity units with a specialization ratio in either one of less than 66%

01.6 Support activities to agriculture and post-harvest crop activities

- Support activities for crop production
- Support activities for animal production
- Post-harvest crop activities
- Seed processing for propagation

This class excludes:

- Any subsequent processing of the agricultural products beyond that needed to prepare them for the primary markets
- Manufacture of food products and beverages and tobacco products (U221)
- Manufacturing of textile products (U222)
- U112 Fallow or abandoned agricultural land
- U113 Kitchen gardens

U112 Fallow land

Agricultural land (cropland) not used for the entire year for crop production, as part of the field rotation. Also, all agricultural land which is set aside long-term is included.

This class includes:

- Set aside within agricultural areas
- Bare land for agricultural use (in other years)

This class excludes:

- Grazing of lucerne, clover, sainfoin, trefoil, black medick, etc. (U111)
- Abandoned permanent crops (U410)

U113 Kitchen garden

Gardens, where the crops are planted heterogeneously and mainly for own consumption. These areas are mostly fenced (by metal fences or hedges) and mostly situated in residential areas or as allotment gardens.

This class includes:

- Allotment gardens
- Kitchen gardens (around the house)

This class excludes:

– Industrial agriculture U111

U120 Forestry

Areas used for forestry purpose (NACE A02)

This class includes the production of round wood as well as the extraction and gathering of wild growing non-wood forest products. Besides the production of timber, forestry activities result in products that undergo little processing, such as firewood, charcoal and round wood used in an unprocessed form (e.g. pit-props, pulpwood etc.). These activities can be carried out in natural or planted forests.

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This class includes:

- Forestry and logging
 - Growing of standing timber: planting, replanting, transplanting, thinning and conserving of forests and timber tracts
 - Growing of coppice, pulpwood and fire wood
 - Operation of forest tree nurseries
 - Logging: felling of timber and production of wood in the rough such as pit-props, split poles, pickets or fuel wood
 - Gathering of wild growing forest materials: balatta and other rubber-like gums, cork, lac, resins, balsams, vegetable hair, eel grass, acorns, horse-chestnuts, mosses, lichens
 - \circ Support services to forestry
 - o Growing of Christmas trees.

This class excludes:

- Growing of cork trees
- Further processing of wood beginning with sawmilling and planning of wood (U227).

U130 Aquaculture and fishing

Areas used for fishing and aquaculture (NACE A03).

This class includes capture fishery and aquaculture, covering the use of fishery resources from marine, brackish or freshwater environments, with the goal of capturing or gathering fish, crustaceans, mollusks and other water organisms and products (e.g. aquatic plants, pearls, sponges).

This class includes:

- Fishing
- Aquaculture (Fish farming)

U140 Mining and quarrying

Areas used for mining and quarrying purposes (NACE Section B).

Mining and quarrying include the extraction of minerals occurring naturally as solids (coal and ores), liquids (petroleum) or gases (natural gas). Extraction can be achieved by different methods such as underground or surface mining, well operation etc. This section includes supplementary activities aimed at preparing the crude materials for marketing, for example, crushing, grinding, cleaning, drying, sorting, concentrating ores, liquefaction of natural gas and agglomeration of solid fuels.

This class includes:

- Mining of coal and lignite
- Extraction of crude petroleum and natural gas
- Mining of metal ores
- Quarrying of stone, sand and clay
- Mining of chemical and fertiliser minerals
- Extraction of peat
- Extraction of salt
- Other mining and quarrying n.e.c.
- Mining support service activities.

This class excludes:

Areas of waste disposal and treatment (U322)

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- Processing of the extracted materials
 - Coal, oil and metal processing (U223)
 - Production of non-metal mineral goods (U224)
 - Chemical and allied industries and manufacturing (U225)
- Usage of the extracted materials without a further transformation for construction purposes (U330).

U210 Energy production

Areas used for producing and generating energy (NACE D 35).

This section includes the activity of providing electric power, natural gas, steam, hot water and the like through a permanent infrastructure of lines, mains (supply network) and energy production plants, including renewable energy such as hydropower, solar and wind power as well as biogas. This section includes the operation of electric and gas utilities, which generate and control electric power or gas. Manufacture of gas by purification, blending and other processes from gases and production of gas for the purpose of gas supply by carbonation of coal or from by-products of agriculture or from waste.

This class includes:

- Electricity (incl. renewable energy)
- Gas
- Steam
- Air conditioning supply
- and the attached areas.

This class excludes:

- Operation of water and sewage utilities (U321).
- Typically long-distance transport of gas, water etc. through pipelines (U315).

U220 Industry and manufacturing

U221 Manufacturing of food, beverages and tobacco products

Areas used for production of food and beverage products and luxury foodstuff (NACE C10, 11, 12).

This class includes the processing of the products of agriculture, forestry and fishing into food for humans or animals, Some activities are considered manufacturing (for example, those performed in bakeries, pastry shops, and prepared meat shops etc. which sell their own production) even though there is retail sale of the products in the producers' own shop. It includes the manufacture of beverages and mineral water, as well as the processing of tobacco for final consumption.

This class includes:

- Manufacture of food products
- Manufacture of beverages
- Manufacture of tobacco products
- And the attached areas.

This class excludes:

– Preparation of meals for immediate consumption, such as in restaurants (U340).

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U222 Manufacturing of textile products

Areas used for manufacturing of textile products (NACE C13, 14, 15).

This class includes preparation and spinning of textile fibres as well as textile weaving, finishing of textiles and wearing apparel, manufacture of made-up textile articles and apparel (e.g. household linen, blankets, rugs, cordage etc.). It also includes all tailoring (ready-to-wear or made-to-measure), in all materials (e.g. leather, fabric, knitted and crocheted fabrics etc.), of all items of clothing and accessories. Furthermore, dressing and dyeing of fur and the transformation of hides into leather by tanning or curing and fabricating the leather into products for final consumption. And it includes the manufacture of similar products from other materials, such as rubber footwear, textile luggage etc.

This class includes:

- Manufacture of textiles
- Manufacture of wearing apparel
- Manufacture of leather and related products
- And the attached areas.

U223 Coal, oil and metal processing

Areas used for Coal, oil and metal processing (NACE C19, 24, 25).

This class includes the transformation of crude petroleum and coal into usable products (petroleum refining), manufacture of gases as products of petroleum refineries. It also includes the activities of smelting and/or refining ferrous and non-ferrous metals and the manufacture of "pure" metal products (such as parts, containers and structures. The manufacture of weapons and ammunition is also included in this class.

This class includes:

- Manufacture of coke and refined petroleum products
- Manufacture of basic metals
- Manufacture of fabricated metal products, except machinery and equipment
- And the attached areas.

This class excludes:

– The manufacture of petrochemicals from refined petroleum (U225).

U224 Production of Non-metal mineral goods

Areas used for manufacturing of non-metal mineral goods (NACE C23).

This class includes manufacturing activities related to a single substance of mineral origin. It includes the manufacture of glass and glass products (e.g. flat glass, hollow glass, fibres, technical glassware etc.), ceramic products, tiles and baked clay products, and cement and plaster, from raw materials to finished articles. The manufacture of shaped and finished stone and other mineral products is also included in this class.

This class includes:

- Manufacture of glass and glass products
- Manufacture of refractory products
- Manufacture of clay building materials
- Manufacture of other porcelain and ceramic products
- Manufacture of cement, lime and plaster
- Manufacture of articles of concrete, cement and plaster

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- Cutting, shaping and finishing of stone
- Manufacture of abrasive products and non-metallic mineral products n.e.c.
- And the attached area.

U225 Chemical and allied industries and manufacturing

Areas used for industrial and manufacturing of chemical and related products (NACE C20-22, 25).

This class includes the transformation of organic and inorganic raw materials by a chemical process and the formation of products, also the production of basic pharmaceutical products and pharmaceutical preparations, medicinal chemical and botanical products, rubber and plastic products.

This class includes:

- Manufacture of chemicals and chemical products
- Manufacture of basic pharmaceutical products and pharmaceutical preparations
- Manufacture of rubber and plastic products
- and the attached areas.

U226 Machinery and equipment

Areas used for production of machinery and equipment (NACE C18.2, 26-30, 31, 32).

This class includes the manufacture of machinery and equipment: of computers, electronic products, consumer electronics, measuring, testing and navigating equipment, magnetic and optical media as well as the reproduction of recorded media, such as compact discs, videos, software on discs or tapes, records etc. This class includes the manufacture of products that generate, distribute and use electrical power, of general-purpose and special machinery, of motor vehicles and transport equipment (boats, airplanes etc.), manufacture of furniture of any but wooden material, other manufacturing.

This class includes:

- Reproduction of recorded media
- Manufacture of computer, electronic and optical products
- Manufacture of electrical equipment
- Manufacture of machinery and equipment n.e.c.
- Manufacture of motor vehicles, trailers and semi-trailers
- Manufacture of other transport equipment
- Manufacture of furniture (if of any other than wooden material)
- Other manufacturing
- And the attached areas

This class excludes:

- Areas where waste is sorted to prepare recycling of used material (U322)
- Repair and installation of machinery and equipment (U340).

U227 Wood based products

Areas used for production of wood-based products and of articles of cork, straw and plaiting materials (NACE C16-18.1, 31).

This class includes the manufacture of wood products and prefabricated wood buildings. The production processes include sawing, planning, shaping, laminating, and assembling of wood products. Also included is

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the manufacture of furniture, or the installation of wooden fittings and the like. This class also includes the manufacture of pulp, paper and converted paper products as well as printing of such products.

This class includes:

- Manufacture of wood and of products of wood and cork
- Manufacture of paper and paper products
- Printing and service activities related to printing
- Manufacture of furniture (if of wooden material)
- and the attached area.

U310 Transport, communication networks, storage, protective works

U311 Railways

Areas used for railways transport (NACE 49.1, 49.2).

This class includes:

- All types of railways
- TGV traces
- Railway stations
- Funiculars

This class excludes:

Tramways and tram stations (U312)

U312 Roads

Land areas used for roads (NACE 49.4).

This class includes:

- All types of areas used for road transportations (streets, overland roads, highways) and associated areas (e.g. rest areas)
- Car parking
- Bus stations
- Tramways and tram stations.

U313 Water transport

Areas used for transport on water (NACE 50).

This class includes:

- Channels
- Rivers used for ship transportation
- Lakes
- Estuaries
- Areas used for harbours and ports.

This class excludes:

Areas used for storage of goods (U317)

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- Docks (U226).

U314 Air transport

Areas used for air transport (NACE 51).

This class includes:

- Airports for people and freight transportation
- Airports with and without concrete runways

This class excludes:

- Areas used for storage of goods (U317)
- Docks for aircrafts (U226).

U315 Transport via Pipelines

Areas used for transport via pipelines (NACE 49.5).

This class includes:

- Transport of oil, water, gas or other material via pipelines.

U316 Telecommunication

Areas used for telecommunication infrastructures and postal services (NACE 53, partly 61.1).

This class includes:

- Postal and courier activities
- Telecommunications networks

This class excludes:

- Theatres, production studios (TV, Movies), etc. (U361).

U317 Storage

Areas used for storage of goods and warehousing (NACE 52).

This class includes warehousing and support activities for transportation, such as operating of transport infrastructure (e.g. airports, harbours, tunnels, bridges, etc.), the activities of transport agencies and cargo handling.

This class includes:

- Warehousing and storage,
- Support activities for transportation.

This class excludes:

- Attached areas to land used in other categories (e.g. in U22x)

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U318 Protection works

Areas used for protection infrastructures.

This class includes:

- Protection infrastructure against land slides,
- Dikes.

U320 Water and waste treatment

U321 Water supply and treatment

Areas used for water collection, treatment and supply (NACE E 36, 37).

This class includes the collection, treatment and distribution of water for domestic and industrial needs. Collection of water from various sources, as well as distribution by various means is included. It also includes the operation of sewer systems or sewage treatment facilities that collect, treat, and dispose of sewage. Furthermore: recovering and purifying water: stations to raise water levels, for purifying waste water, decanters, spreader areas, storage (reservoir), extraction of water.

This class includes:

- Water collection, treatment and supply
- Sewerage.

This class excludes:

Distribution of water via pipeline (U315).

U322 Waste treatment

Areas used for waste treatment (NACE E 38, 39).

This class includes the collection, treatment, and disposal of waste materials. This also includes local hauling of waste materials and the operation of materials recovery facilities.

This class includes:

- Waste collection, treatment and disposal activities; materials recovery (recycling)
- Remediation activities and other waste management services)

This class excludes:

Incineration stations for energy production (U210).

U330 Construction

Areas used for construction whatever the degree of completion (NACE F).

This section includes general construction and specialized construction activities for buildings and civil engineering works. It includes new work, repair, additions and alterations, the erection of prefabricated buildings or structures on the site and also construction of a temporary nature. Thus, the construction of entire dwellings, office buildings, stores and other public and utility buildings, farm buildings etc., or the construction of civil engineering works such as motorways, streets, bridges, tunnels, railways, airfields,

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harbours and other water projects, irrigation systems, sewerage systems, industrial facilities, pipelines and electric lines, sports facilities etc.

This class includes:

- Construction of buildings
- Civil engineering
- Specialised construction activities (e.g. demolition).

U340 Commerce, finance, business

Areas used for commercial, financial and general business activities, including handicraft (NACE CX3, G, I55.1, 56, K, L, M, N).

This section includes wholesale and retail sale of any type of goods, and rendering services incidental to the sale of merchandise. It includes the specialized repair of goods produced in the manufacturing sector with the aim to restore machinery, equipment and other products to working order, as well as the provision of general or routine maintenance (i.e. servicing) on such products. This section also includes the provision of short-stay accommodation for visitors and other travelers and the provision of complete meals and drinks fit for immediate consumption. It covers financial service activities, including insurance, reinsurance and pension funding activities and activities to support financial services, as well as real estate activities. This section also includes, specialized professional, scientific and technical activities, which require a high degree of training, and make specialized knowledge and skills available to users, are covered. This section includes support general business operations (renting and leasing activities, employment and travel agencies, private security activities, service to buildings and landscape, office services.

This class includes:

- Repair and installation of machinery and equipment
- Wholesale and retail trade
- Hotels and similar accommodation
- Food and beverage service activities
- Financial and insurance activities
- Real estate activities
- Professional, scientific and technical activities
- Administrative and support service activities

This class excludes:

- Holiday and other short-stay accommodation (U363)
- Camping grounds, recreational vehicle parks and trailer parks (U363).

U350 Community services

Areas used for public administration, local authorities, defence, education, health and social work, religion (NACE M75, O, P, Q, U).

This section includes activities of a governmental nature, normally carried out by the public administration, and extraterritorial, international organizations. This section includes education at any level or for any profession, public as well as private education. This section includes the provision of health and social work activities. Religious areas (like churches, graveyards) are falling under this category as well. Military areas belong also to this group.

This class includes:

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- Veterinary services
- Public administration and defence (military)
- Education
- Human health and social work activities
- Religion
- Activities of extraterritorial organisations and bodies.

U36 Recreation, leisure, sport

U361 Amenities, museums, leisure

Areas used for cultural purposes, amenities and leisure, recreation, amusement and show activities (groups 59.1, 60.1, 60.2, 90, R91.0 93.2, of NACE.

This class includes:

- Library, archives, museum and other cultural activities
- Preservation of historical sites, including botanical and zoological gardens
- Creative, arts and entertainment activities
- Amusement and recreation activities, including parks and beaches
- Motion picture, video, radio and television activities.

U362 Sport

Areas used for sport activities (group 93.1 of NACE).

This class includes:

Sporting activities.

U363 Holiday camps

Areas used for holidays camps (short-stay lodging e.g. apartments, camping) (NACE 55.2, 55.3).

This class includes the provision of accommodation, principally for short stays by visitors. This may take the form of apartments or flats in small free-standing multi-storey buildings or clusters of buildings, or single storey bungalows, chalets, cottages and cabins, as well as camping grounds, recreational vehicle and trailer parks.

This class includes:

- Holiday and other short-stay accommodation (holiday apartment lots)
- Camping grounds, recreational vehicle parks and trailer parks (also closed holiday camps)

This class excludes:

– Hotels (U340).

U37 Residential

Areas used for housing purpose.

This class includes:

Residential gardens

This class excludes:

- Hotels (U340)
- Old people homes, children homes, prisons, monasteries, convents (U350).

U400 Unused and abandoned areas

U410 Abandoned areas

This class consists of abandoned areas with signs or structures of previous use of any kind.

Areas belonging to the abandoned class are not in use and can't anymore be used for the original purpose without major reparation/renovation work.

This class includes:

- Abandoned industrial areas
- Abandoned transport areas (e.g. railways)
- Abandoned residential areas
- Abandoned residential gardens
- Abandoned agricultural areas, mainly permanent crops (e.g. orchards, vineyards)
- Abandoned construction sites
- Abandoned mining areas

This class excludes:

- Fallow land (U112)
- Construction sites (U330).

U420 Semi-natural and Natural areas not in use

This class includes areas which are in natural / semi-natural state and no signs of any use are visible.

This class excludes:

- Unused land formerly developed, now vacant or derelict (U410)
- Fallow land, Agricultural land which is temporarily not used (U112)
- Grazed areas (U111).

Annexes

Annex 1: Third party copyright

Table 1: Third party copyright

No.	Section	Figure	Copyright	Source	License (Name)	License (Link)
1	B11 Common wheat	11.1	©Hitchcock, A.S. (rev. A. Chase). USDA, NRCS - 1950 Triticum aestivum L. @USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=TRAE	USDA-NRCS PLANTS Database	https://plants.usda.go v/home/usage
2	B11 Common wheat	11.6	© Steve Hurst. Provided by ARS Systematic Botany and Mycology Laboratory. United States, Maryland, Prince George's Co., Beltsville. @USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=TRAE	USDA-NRCS PLANTS Database	https://plants.usda.go v/home/usage
3	B12 Durum wheat	12.8	© Tracey Slotta. Provided by ARS Systematic Botany and Mycology Laboratory. Ethiopia, Bishoftu. @ USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=TRDU3	USDA-NRCS PLANTS Database	<u>https://plants.usda.go</u> <u>v/home/usage</u>
4	B12 Durum wheat	12.9	© Tracey Slotta. Provided by ARS Systematic Botany and Mycology Laboratory. @ USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=TRTU2	USDA-NRCS PLANTS Database	https://plants.usda.go v/home/usage
5	B12 Durum wheat	12.10	© Tracey Slotta. Provided by ARS Systematic Botany and Mycology Laboratory.@ USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=TRTU2	USDA-NRCS PLANTS Database	<u>https://plants.usda.go</u> <u>v/home/usage</u>
6	B13 Barley	13.1	© Hitchcock, A.S. (rev. A. Chase). USDA, NRCS - 1950 Hordeum vulgare L. @ USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=HOVU	USDA-NRCS PLANTS Database	<u>https://plants.usda.go</u> v/home/usage
7	B13 Barley	13.7	© Steve Hurst. Provided by ARS Systematic Botany and Mycology Laboratory. @ USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=HOVU	USDA-NRCS PLANTS Database	<u>https://plants.usda.go</u> <u>v/home/usage</u>
8	B13 Barley	13.11	© 2020, Yves Bernardi (ybernardi), Pixabay License	https://pixabay.com/ de/photos/barley- landwirtschaft- getreide-5301771/	Pixabay License	https://pixabay.com/ nl/service/license/
9	B14 Rye	14.1	© Hitchcock, A.S. (rev. A. Chase). USDA, NRCS - 1950 Secale cereale L. @ USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=SECE	USDA-NRCS PLANTS Database	https://plants.usda.go v/home/usage
10	B14 Rye	14.8	© Steve Hurst. Provided by ARS Systematic Botany and Mycology Laboratory. Russia, Siberia. @ USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=SECE	USDA-NRCS PLANTS Database	https://plants.usda.go v/home/usage
11	B15 Oats	15.1	© Hitchcock, A.S. (rev. A. Chase). USDA, NRCS - 1950 Avena sativa L. @ USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=AVSA	USDA-NRCS PLANTS Database	https://plants.usda.go v/home/usage
12	B15 Oats	15.8	© Jose Hernandez. Provided by ARS Systematic Botany and Mycology Laboratory. @ USDA- NRCS PLANTS Database	https://plants.usda.go y/home/plantProfile? symbol=AVSA	USDA-NRCS PLANTS Database	<u>https://plants.usda.go</u> v/home/usage
13	B16 Maize	16.1	© Hitchcock, A.S. (rev. A. Chase). USDA, NRCS - 1950 Zea mays L. @ USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=ZEMA	USDA-NRCS PLANTS Database	<u>https://plants.usda.go</u> v/home/usage
14	B17 Rice	17.1	© Hitchcock, A.S. (rev. A. Chase). USDA, NRCS - 1950 Oryza sativa L. @ USDA-NRCS PLANTS Database	https://plants.usda.go v/home/ plantProfile?symbol= ORSA	USDA-NRCS PLANTS Database	<u>https://plants.usda.go</u> <u>v/home/usage</u>
15	B17 Rice	17.2	© Steve Hurst. Provided by ARS Systematic Botany and Mycology Laboratory. Philippines, Manila. @ USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=ORSA	USDA-NRCS PLANTS Database	<u>https://plants.usda.go</u> v/home/usage



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16	B19 Other Cereals Buckwheat	19.1	© Steve Hurst. Provided by ARS Systematic Botany and Mycology Laboratory. @ USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=FAES2	USDA-NRCS PLANTS Database	https://plants.usda.go v/home/usage
17	B19 Other Cereals Sorghum (Millet)	19.15	© Steve Hurst. Provided by ARS Systematic Botany and Mycology Laboratory. @ USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=SOBI2	USDA-NRCS PLANTS Database	https://plants.usda.go v/home/usage
18	B19 Other cereals	19.17	© 2006, Markus Hagenlocher, CC BY-SA 3.0	https://commons.wiki media.org/wiki/File:R eismelde.jpg	CC BY-SA 3.0	https://creativecomm ons.org/licenses/by- sa/3.0/
19	B23 Other Root Crops	23.13	© 2013, Holger Langmaier (HolgersFotografie), Pixabay License	https://pixabay.com/ de/photos/kohlrabi- gem%C3%BCse- lebensmittel-kohl- 176849/	Pixabay License	https://pixabay.com/ nl/service/license/
20	B23 Other root crops	23.14	© 2010, AxelBoldt, CC BY-SA 3.0	https://commons.wiki media.org/wiki/File:R utabaga,_variety_nad morska.JPG	CC BY-SA 3.0	https://creativecomm ons.org/licenses/by- sa/3.0/deed.en
21	B23 Other root crops	23.15	© 2014, AnRo0002, CC0 1.0	https://commons.wiki media.org/wiki/File:2 0140630Chaerophyllu m_bulbosum.jpg	CC0 1.0 UNIVERSAL	<u>Deed - CCO 1.0</u> <u>Universal - Creative</u> <u>Commons</u>
22	B23 Other root crops	23.16	© 2014, AnRo0002, CC0 1.0	https://commons.wiki media.org/wiki/File:2 0140908Helianthus_t uberosus4.jpg	CC0 1.0 UNIVERSAL	<u>Deed - CC0 1.0</u> <u>Universal - Creative</u> <u>Commons</u>
23	B23 Other Root Crops	23.17	© 2016, Maya A.P (mayapujiati), Pixabay License	https://pixabay.com/ de/photos/rote- schalotten-zwiebel- wachsend-1419846/	Pixabay License	https://pixabay.com/ nl/service/license/
24	B23 Other Root Crops	23.18	© 2017, gate74, Pixabay License	https://pixabay.com/ de/photos/r%C3%BCb e-blau-rot- gem%C3%BCse- lebensmittel- 2546876/	Pixabay License	https://pixabay.com/ nl/service/license/
25	B23 Other root crops	23.19	© 2007, Goldlocki, CC BY-SA 3.0	https://commons.wiki media.org/wiki/File:P astinakePflanzegeernt et.jpg	CC BY-SA 3.0	https://creativecomm ons.org/share-your- work/licensing- considerations/comp atible-licenses/
26	B33 Soya	33.1	© Steve Hurst. Provided by ARS Systematic Botany and Mycology Laboratory. @ USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=GLMA4	USDA-NRCS PLANTS Database	<u>https://plants.usda.go</u> v/home/usage
27	B35 Other fibre and oleaginous crops	35.13	© 2016, ivabalk, Pixabay License	https://pixabay.com/ de/photos/knospe- pflanze-mohn- sommer-ernte- 1435754/	Pixabay License	https://pixabay.com/ nl/service/license/
28	B35 Other fibre and oleaginous crops	35.19	© 2006, Eugene van der Pijll, CC BY-SA 3.0	https://commons.wiki media.org/wiki/File:B oehmeria_nivea_1.jp g	CC BY-SA 3.0	<u>Deed - Attribution-</u> <u>ShareAlike 3.0</u> <u>Unported - Creative</u> <u>Commons</u>
29	B35 Other fibre and oleaginous crops	35.20	© 2005, Patrick-br, CC BY-SA 3.0	https://commons.wiki media.org/wiki/File:Pl antsisal.jpg	CC BY-SA 3.0	<u>Deed - Attribution-</u> <u>ShareAlike 3.0</u> <u>Unported - Creative</u> <u>Commons</u>
30	B37 Other Non-permanent industrial crops	37.6	© 2020, TheOtherKev, Pixabay License	https://pixabay.com/ de/photos/distel- thistle-blume- <u>5150476/</u>	Pixabay License	https://pixabay.com/ nl/service/license/
31	B37 Other Non-permanent industrial crops	37.7	© 2018, Syrio , CC BY-SA 4.0	https://commons.wiki media.org/wiki/File:U nidentified_Cirsium, Neist_Point_02.jpg	CC BY-SA 4.0	<u>Deed - Attribution-</u> <u>ShareAlike 4.0</u> <u>International -</u> <u>Creative Commons</u>
32	B37 Other Non-permanent industrial crops	37.8	© 2018, Syrio , CC BY-SA 4.0	https://commons.wiki media.org/wiki/File:U nidentified_Cirsium, Neist_Point_01.jpg	CC BY-SA 4.0	Deed - Attribution- ShareAlike 4.0 International - Creative Commons
33	B37 Other non-permanent industrial crops	37.12	© Hannes Grobo, Britannica, Creative Commons Attribution ShareAlike 2.5 (Generic)	Sugarcane Planting, Harvesting & Processing Britannica	Creative Commons	Creative Commons Attribution ShareAlike 2.5 (Generic) Britannica
34	B43 Other fresh vegetables	43.26	© 2014, Hans, Pixabay License	https://pixabay.com/ de/photos/rosenkohl- r%C3%B6schen- gem%C3%BCse- gr%C3%BCn-318200/	Pixabay License	https://pixabay.com/ nl/service/license/
35	B43 Other fresh vegetables	43.27	© 2020, Bishnu Sarangi (sarangib), Pixabay License	https://pixabay.com/ de/photos/kohl- brassica-oleracea-	Pixabay License	https://pixabay.com/ nl/service/license/



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37	B43 Other fresh vegetables	43.29	© 2020, HOerwin56, Pixabay License	https://pixabay.com/ de/photos/bl%C3%BC te-l%C3%B6wenzahn- wiesenblume- 5164212/	Pixabay License	https://pixabay.com/ nl/service/license/
38	B43 Other fresh vegetables	43.37	© 2017, Jason Goh (cegoh), Pixabay License	https://pixabay.com/ de/photos/chili-chilli- padi-bird-s-eye-chili- 2693677/	Pixabay License	https://pixabay.com/ nl/service/license/
39	B43 Other fresh vegetables	43.38	© 2018, Couleur, Pixabay License	https://pixabay.com/ de/photos/aubergine- solanum-melongena- feld-3705548/	Pixabay License	https://pixabay.com/ nl/service/license/
40	B43 Other fresh vegetables	43.39	© 2020, jhenning, Pixabay License	https://pixabay.com/ de/photos/landwirtsc haft-gem%C3%BCse- ernte-5484641/	Pixabay License	https://pixabay.com/ nl/service/license/
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	B44 Floriculture and ornamental plants	44.4	© 2020,Tobías Ayala (AztecaBoy), Pixabay License	https://pixabay.com/ de/photos/tulpen- tulpe-bl%C3%BCte- feld-von-tulpen- 5044875/	Pixabay License	https://pixabay.com/ nl/service/license/
	B51 Clover	51.1	© Steve Hurst. Provided by ARS Systematic Botany and Mycology Laboratory. United States, Maryland, Prince George's Co., Beltsville. @USDA-NRCS PLANTS Database	https://plants.usda.go v/home/plantProfile? symbol=TRIN3	USDA-NRCS PLANTS Database	https://plants.usda.go v/home/usage
41	B51 Clovers	51.12	© 2017, Arn, CC BY-SA 3.0	https://commons.wiki media.org/wiki/File:Tr ifolium_resupinatum <u>4.ipg</u>	CC BY-SA 3.0	Deed - Attribution- ShareAlike 4.0 International - Creative Commons
42	B51 Clovers	51.13	© 2006, BerndH, CC BY-SA 3.0	https://commons.wiki media.org/wiki/File:Tr ifolium_incarnatum_0 50606.jpg	CC BY-SA 3.0	<u>Deed - Attribution-</u> <u>ShareAlike 3.0</u> <u>Unported - Creative</u> <u>Commons</u>
43	B53 Other Legumes and mixtures for Fodder	53.13	© 2023, Nichole Ouellette, CC BY-SA 4.0	<u>File:Melilotus alba</u> <u>019.jpg - Wikimedia</u> <u>Commons</u>	CC BY-SA 4.0	<u>Deed - Attribution-</u> <u>ShareAlike 4.0</u> <u>International -</u> <u>Creative Commons</u>
44	B53 Other Legumes and mixtures for Fodder	53.14	© 2005, Tigerente, CC BY-SA 3.0	File:MedicagoLupulin a02.jpg - Wikimedia <u>Commons</u>	CC BY-SA 3.0	<u>Deed - Attribution-</u> <u>ShareAlike 3.0</u> <u>Unported - Creative</u> Commons
45	B53 Other Legumes and mixtures for Fodder	53.15	Source: Image shared through Wikimedia Create Commons - Original book source: Prof. Dr. Otto Wilhelm Thomé Flora von Deutschland, Österreich und der Schweiz 1885, Gera, Germany Permission granted to use under GFDL by Kurt Stueber	File:Illustration Trigonella foenum- graecum0 clean.jpg - Wikimedia Commons	PDM 1.0 ***The author died in 1925, so this work is in the public domain in its country of origin and other countries and areas where the copyright term is the author's life plus 95 years or fewer.	Deed - Public Domain Mark 1.0 Universal - Creative Commons
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47	B75 Other fruit tree and berries	75.2	© 2016, naturepic, Pixabay License	https://pixabay.com/ de/photos/apricot- blumen- aprikosenbl%C3%BCtt en-bl%C3%BCht- <u>7185098/</u>	Pixabay License	https://pixabay.com/ nl/service/license/



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49	B75 Other fruit trees and berries	75.6	© 2018, utroja0, Pixabay License	https://pixabay.com/ de/photos/mirabelle- mirabellen-gelb- baum-3614352/	Pixabay License	https://pixabay.com/ nl/service/license/
50	B77 Other citrus fruits	77.4	© 2016, AliceKeyStudio, Pixabay License	https://pixabay.com/ de/photos/zitrone- baum-limette- gr%C3%BCn-natur- 1121636/	Pixabay License	<u>https://pixabay.com/</u> <u>nl/service/license/</u>
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52	B84 Permanent industrial crops	84.7	Source: Image shared through Wikimedia Commons by AxelBoldt	<u>File:Csinensis.jpg -</u> Wikimedia Commons	Public domain by author AxelBoldt	https://en.wikipedia.o rg/wiki/Public_domai <u>n</u>
53	CXX4 Acidophilous oak and oak-birch forest	CXX4	© 2004, Marion Phillips, CC BY- SA 2.0	https://commons.wiki media.org/wiki/File:W ood with bluebells - 	CC BY-SA 2.0	Deed - Attribution- ShareAlike 2.0 Generic - Creative <u>Commons</u>
54	CXX5 Mesophytic deciduous forest	CXX5	© 2022, Artur Pawlak (@artellliii72), Pixabay License	https://pixabay.com/ de/photos/eichenwal d-wald-eichen- b%C3%A4ume-gras- 7478990/	Pixabay License	https://pixabay.com/ nl/service/license/
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57	CXX8 Thermophilous deciduous forest	CXX8	© 2016, Valiphotos, Pixabay License	https://pixabay.com/ de/photos/weg-wald- natur-jahreszeit- gr%C3%BCn- 1345721/	Pixabay License	https://pixabay.com/ nl/service/license/
58	CXX9 Broadleaved evergreen forest	CXX9	© 2006, Ardo Beltz, CC BY-SA 3.0	https://commons.wiki media.org/wiki/File:D ehesa2.jpg	CC BY-SA 3.0	https://creativecomm ons.org/licenses/by- sa/3.0/deed.en
59	CXXA Coniferous forest of the Mediterranean region	CXXA	© 2023, MARTINOPHUC, Pixabay License	https://pixabay.com/ de/photos/kiefernwal d-rocky-mountains- berge-8336624/	Pixabay License	https://pixabay.com/ nl/service/license/
60	CXXB Mire and swamp forests	СХХВ	© 2020 , Alfonsa Gabe (@Alfonsagabe), Pixabay License	https://pixabay.com/ de/photos/sumpf- ven-natur- naturschutzgebiet- 5266641/	Pixabay License	https://pixabay.com/ nl/service/license/
61	CXXC Floodplain forests	CXXC	© 2022, ejab, Pixabay License	https://pixabay.com/ de/photos/aue-natur- ijssel-fluss- b%C3%A4ume-wald- 7090629/	Pixabay License	https://pixabay.com/ nl/service/license/
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71	D02 Shrubland without tree cover	D20.3	© 2016, Margalob, CC BY-SA 4.0	<u>File:Rosemary in</u> <u>bloom.JPG -</u> <u>Wikimedia Commons</u>	CC BY-SA 4.0	<u>Deed - Attribution-</u> <u>ShareAlike 4.0</u> <u>International -</u> <u>Creative Commons</u>
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73	F00 Bare land	F40	© 2019, Pacopac, CC BY-SA 4.0	https://commons.wiki media.org/wiki/File:D ry stone walls in M arsaskala, Malta 2.jp g	CC BY-SA 4.0	https://creativecomm ons.org/licenses/by- sa/4.0/deed.en
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75	H22 Salines	H22	© 2005, World Imaging, CC BY-SA 3.0	https://commons.wiki media.org/wiki/File:M araisSalant.JPG	CC BY-SA 3.0	<u>Deed - Attribution-</u> <u>ShareAlike 3.0</u> <u>Unported - Creative</u> <u>Commons</u>
76	H23 Intertidal flats	H23	© 2017, Marisa04, Pixabay License	https://pixabay.com/z h/photos/moor-peat- bog-venn-high-venn- 2226019/	Pixabay License	https://pixabay.com/z h/service/license/

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