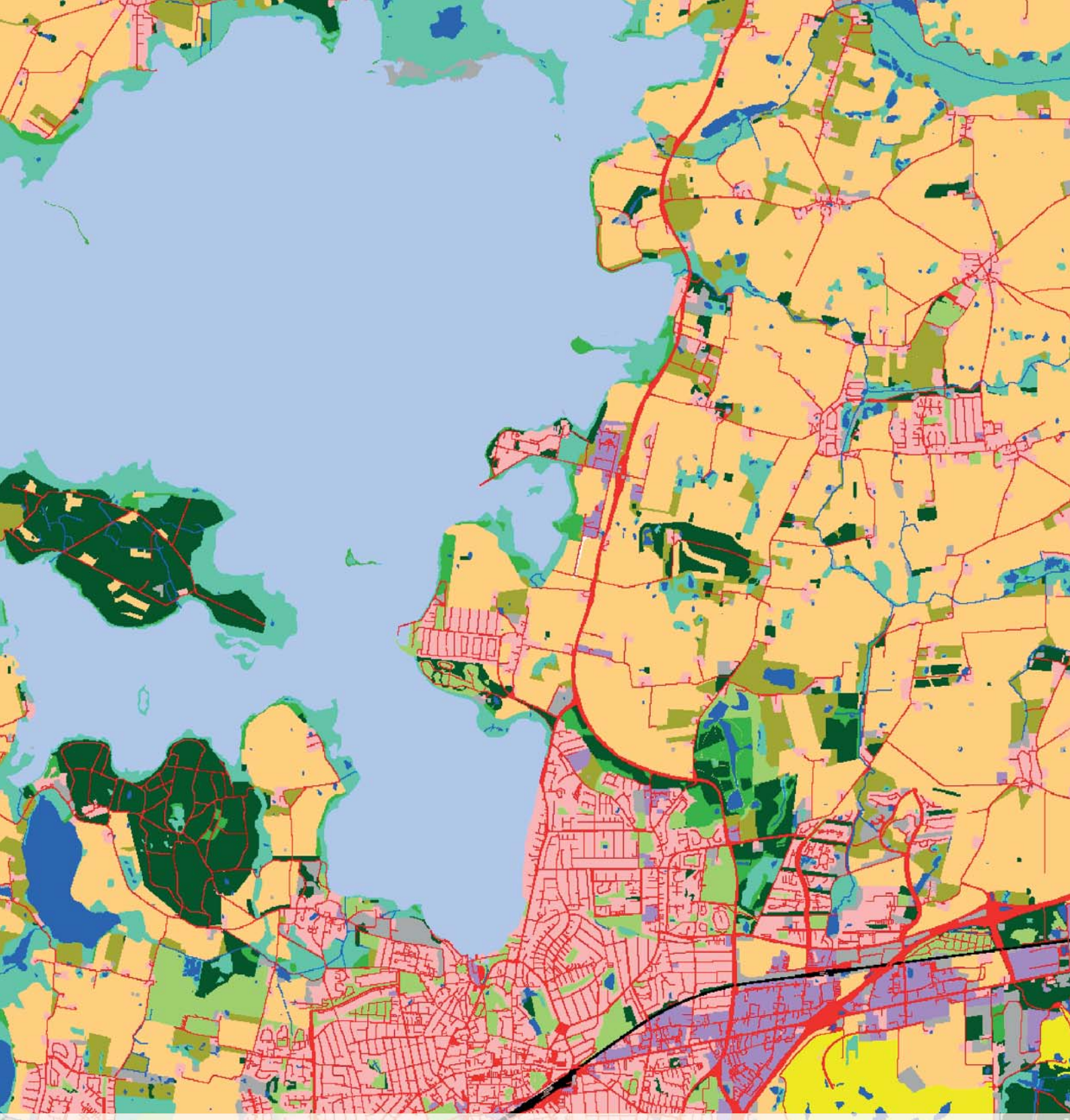

BASEMAP02

Technical documentation of a model for elaboration of a land-use and land-cover map for Denmark

Teknisk rapport fra DCE – Nationalt Center for Miljø og Energi nr. 95 2017

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Data sheet

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Abstract: As a response to a lack of an up-to-date nationwide map of land use and land cover for Denmark, Aarhus University and University of Copenhagen produced the first version of Basemap in 2011. The novelty of the Basemap was that it combined existing thematic geographic information into one land-use/land-cover map for Denmark. Furthermore, the map was dynamic in the sense that spatial modelling and input data could be adapted to different purposes and research needs. The first version of Basemap has been widely applied in research and advisory projects by research institutions, public agencies and private companies. In 2016, Statistics Denmark decided to finance an updated version of Basemap for the year 2016. This second version is different in the sense that more of the original input information is included in the final map. For instance, for information derived from agricultural census data, Basemap02 includes the possibility to link field parcels to other farm and parcel specific information, such as animal husbandry, farm economics and agro-environmental subsidies. Furthermore, in order to enable comparison over time Basemap02 also includes an updated version for the year 2011.

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Summary

As a response to a lack of an up-to-date nationwide map of land use and land cover for Denmark, Aarhus University and Copenhagen University produced the first version of Basemap in 2011 (Levin et al., 2012). The novelty of the Basemap was that it combined existing thematic geographic information into one land-use/land-cover map for Denmark. Furthermore, Basemap was dynamic in the sense that spatial modelling and input data could be adapted to different purposes and research needs. The first version of Basemap has been widely applied in research and advisory projects by research institutions, public agencies and private companies. In 2016, Statistics Denmark decided to finance an updated version of the Basemap for the year 2016. This second version is different in the sense that most of the original input information is included in the final map. I.e. for most input data, the original object IDs are included in the Basemap, ensuring the possibility to link objects and thus land use/land cover information with relevant information from other registers, such as the agriculture registers, the register from the central office of civil registration, the building and housing register and the central business register. For instance, for information derived from agricultural census data Basemap02 includes the possibility to link to other farm and parcel specific information, such as animal husbandry (number of animals), land use management (e.g. application of manure, fertiliser and agro-chemicals) and agro-environmental subsidies. Furthermore, in order to enable comparison over time Basemap02 also includes an updated version for the year 2011, which in terms of applied data and methodologies is consistent with the Basemap V02 for 2016.

Sammenfatning

Som svar på en generel mangel på et nationalt kort over arealanvendelse/arealdække for Danmark, udarbejdede Aarhus og Københavns Universiteter i 2011 den første version af Basemap (Levin et al., 2012). Basemap var nyt i den forstand, at det kombinerede eksisterende geografisk information til et landsdækkede kort over arealanvendelse/arealdække. Derudover var Basemap dynamisk på den måde at anvendte modeller og data kunne tilpasses forskellige formål og forskningsbehov. Den første version af Basemap er blevet anvendt meget bredt indenfor både forskning og rådgivning af forskningsinstitutioner, offentlige styrelser og private virksomheder. I 2016 besluttede Danmarks Statistik at finansiere en opdateret version af Basemap for året 2016. Den anden version af Basemap adskiller sig fra den første ved at det meste af den oprindelige information fra de anvendte data er inkluderet i det endelige kort. Det betyder at objekternes oprindelige identifikationsnøgler er taget med i kortet. Dette sikrer muligheden for at knytte objekter samt arealanvendelses- og arealdækkeinformation til relevant information fra andre registre, såsom landbrugsregistret, personregistret, bygnings- og boligregistret og det centrale virksomhedsregister. For eksempel indeholder information fra landbrugsregistrene muligheden for at knytte marker til anden mark- og bedriftsspecifik information, såsom husdyrhold (antal dyr), arealdrift (fx udbringning af gødning og kemikalier) og tilskud til miljøvenlige jordbrugsforanstaltninger. For at muliggøre sammenligning over tid, omfatter Basemap02 også en opdateret version for 2011, som er konsistent med 2016 kortet med hensyn til anvendte data og metoder.

1 Introduction

This report contains the technical documentation of the Basemap02. The report is structured as follows. Chapter 2 contains a description of the applied data. In Chapter 3 the applied methods in terms of data processing and modelling are described. Finally, in Chapter 4, the main results are presented and the accuracy of the elaborated maps is discussed.

In the report the following terminology is applied:

- An *object* is the smallest unit in a dataset. E.g. each field parcel in the field parcel map represents one individual object.
- *Vector data* are spatial data where objects are organised as either lines or polygon features.
- *Raster data* are spatial data, organised in raster cells.
- The term *dataset* refers to collections of data, originating from one source and produced and supplied by one institutional body. One dataset can contain multiple objects and object types.
- The *original object ID* is the identification key for objects in applied datasets. Object IDs can be numbers or text strings.
- The term *object type* refers to individual land use/land cover types or classes, and the *object code* is the number-code of the object type.
- A *layer* is one map layer with multiple objects and object types, which can originate from different datasets.
- The term *overlay* refers to the spatial combination or two or more layers, into one layer, where each cell in a raster layer contains information from all applied layers.
- Land use refers to the use of a specific area of land, e.g. agriculture or recreation. Land cover refers to the biophysical characteristics of a specific area of land, e.g. sand or water. Since applied datasets for the Basemap02 contain information about both land use and land cover, the term *land use/land cover (LULC)* is used in this report. For a more detailed discussion of the terms land use and land cover, see Jepsen and Levin (2013).

The purpose of the Basemap is to elaborate a detailed LULC map for Denmark. The elaboration of the map is based on different assumptions and decisions for combining applied datasets for this purpose. Consequently, the resulting maps are not legally or juridical binding and cannot be applied for such purposes.

The Basemap02 is financed by Statistics Denmark. In 2017 Basemap02 will be made publicly available to other users via Aarhus University's webpage.

2 Applied data

In the following section all datasets, which are applied to the Basemap02 are presented. The applied datasets and object types, which are included in the Basemap02, are listed in Appendix 1.

2.1 Topographical database

The national topographic database Kort10 is supplied by the Agency for Data Supply and Efficiency (SDFE). Kort10 is based on orthophotos and in-situ observations, which have been manually digitized into pre-defined classes. Kort10 contains 6 superior topographical classes (build-up, buildings, hydrology, nature, technical and traffic), covering a total of 63 object types. Thorough technical documentation of the classes is provided, specifying geometric and mapping properties (Geodanmark, 2014). In the Basemap02 51 object types are included. The version from June 2016 is applied (SDFE, 2016). For the analysis of road expansion, the version from December 2011 is applied (SDFE, 2011).

2.2 Management plans for state forests

Approx. 4.5 % of the Danish terrestrial area is composed of state forests, which are managed by the Nature Agency (NST). These areas consist primarily of forested land and other habitat types. For these areas a census mapping has been conducted (Agency for Water and Nature Management, 2016a). From the map, which is based on in situ observations, 76 object types are included in the Basemap02. The version from August 2016 is applied.

2.3 Management plans for defence holdings

Approx. 0.6 % of the Danish terrestrial area is composed of defence holdings, owned and managed by the Danish Defence. These areas consist primarily of a mixture of forest and other habitat types. As for state forests a census mapping has been conducted for these areas (Danish Defence, 2016). From the map 63 object types are included in the Basemap02. The most recent dataset from September 2016 is applied.

2.4 Map of protected habitat types

The map of protected habitats is a national registration of habitats, which, according to the § 3 in the Danish Nature Protection Act (Ministry of Environment and Food, 2009), are protected against direct physical changes. The map contains six habitat types: freshwater meadows, dry meadows, coastal meadows, heather, bogs / mires and lakes / ponds. Habitats are registered if they fulfil specific biophysical criteria (mainly soil conditions and vegetation composition) and if single habitat patches or patches that are spatially connected have a total area of at least 2,500 m² (100 m² for ponds) (Agency for Water and Nature Management, 2009). The Danish municipalities are responsible for the maintenance of the map. The methods used to identify and categorize habitat types vary across the country, but are generally a combination of in situ observation and air-photo interpretation. The version from June 2016 is applied (Arealinformation, 2016a).

2.5 Natura2000 habitat types

This dataset (also called DEVANO-map) is mapped by the Danish municipalities and covers all habitat types included in the EU-habitat directive (Directive 1992/43/EC) and are located within Natura2000 designated areas, which comprise approximately 8.3 % of the Danish land area. The map is based on in-situ observations combined with air-photo interpretation, and includes 48 habitat types. For the Basemap02, the version from August 2016 is applied (Arealinformation, 2016b).

2.6 Field parcel map

The agricultural information applied to the Basemap is based on data from the Integrated Administration and Control System (IACS), which is derived from the Danish agricultural register for 2016 (Ministry of Environment and Food, 2016a). The register is updated annually and since 1998 Danish farmers have been obliged to provide detailed georeferenced information on area and type of land use for each agricultural field. Data are reported with reference to the specific field parcel for which agricultural subsidy applications are made. The version from May 2016 is applied. The map contains 591,371 individual field parcels and 291 land use classes.

For the elaboration of the 2011 Basemap, the field parcel map from May 2011 was applied (Ministry of Environment and Food, 2011). The 2011 map contains 614,159 individual field parcels and 265 land use classes.

2.7 Field block map

The field block map (Ministry of Environment and Food, 2016b) is used for administration of EU-subsidies. The field block map demarcates land within which farmers can apply for EU-subsidies. One field block can contain up to 10 individual field parcels. For the Basemap, the field block map is applied as an addition to the field-parcel map to represent agricultural land, where no field parcels are registered. The version from December 2011 is applied.

2.8 Cadastre map

The cadastre map is supplied by the Danish Geodata Agency. The map contains approx. 2.5 million individual cadastres, which are legally binding property units. The map also contains some information on land use and land cover. From the cadastre map from June 2016 (Geodata Agency, 2016), road cadastres are extracted to delineate roads.

3 Method

The diagram in Figure 3.1 illustrates the different steps in data processing. All input layers are converted to raster format. Next the different input raster layers are overlaid and combined in several steps, resulting in a total of five output raster layers. In the next sections, the single processing steps and output layers are described in more detail.

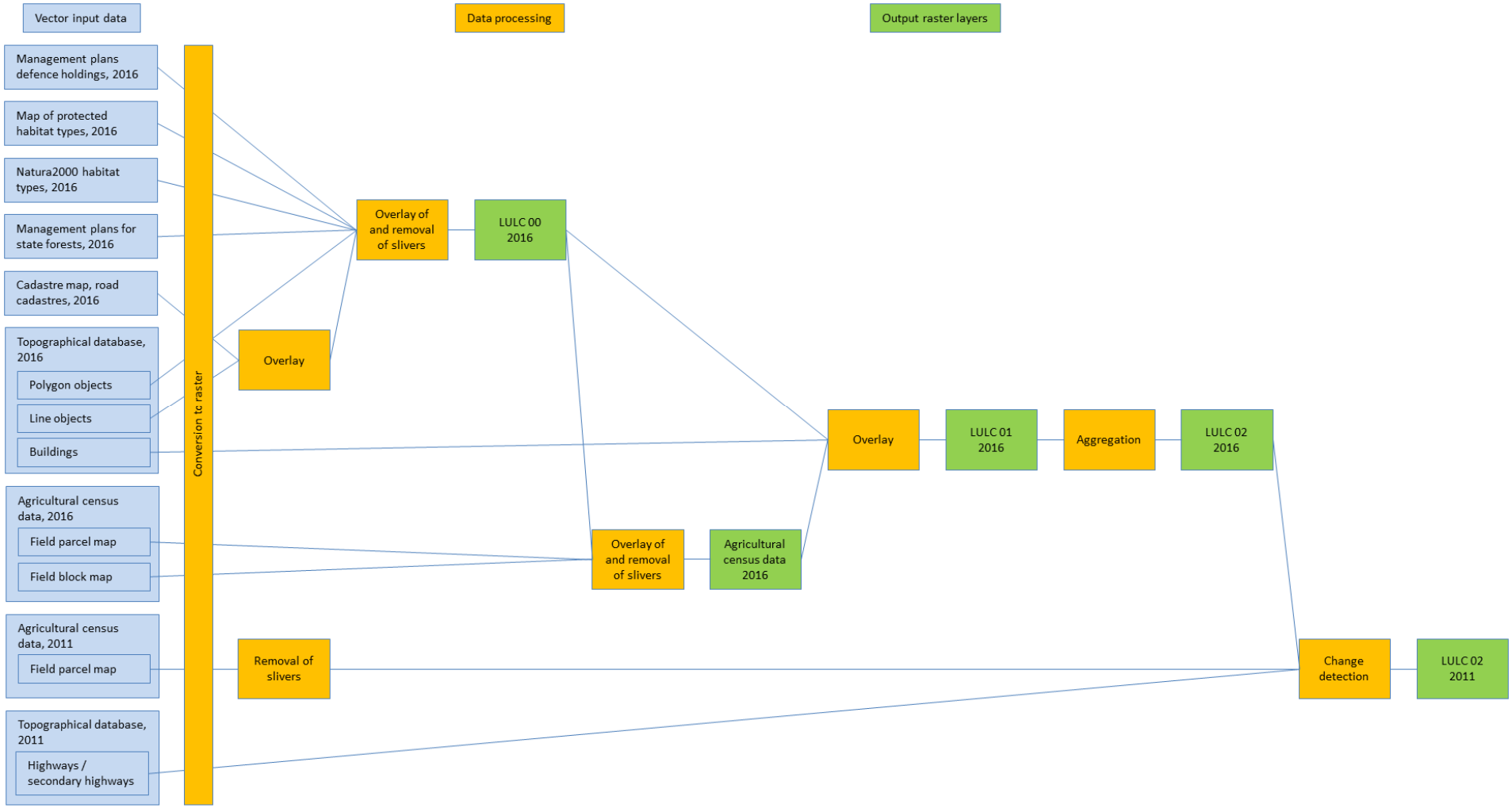

Figure 3.1 Illustration of data processing. Vector input data (blue boxes) are converted to raster format and subsequently processed (yellow boxes), resulting in 5 final output raster layers (green boxes).

3.1 Assigning object codes

In the original input datasets, object IDs are diverse and range from text strings to numbers. In order to keep the original LULC information, for the Basemap each object type from each input layer is assigned an individual object code and object name. The object code consists of a number with six digits. The first digit refers to the data source. E.g. for layers originating from Kort10, the first number is 5. The next five numbers refer to the object type. E.g. 27012 for “Technical area, wind energy park”. The application of individual object codes implies that, for instance lakes from Kort10 have a different object code than lakes from the map of protected habitat types or lakes from the management plans of state forests. In total, the Basemap02 contains 541 individual object codes. Original LULC information, assigned object codes and object names appear from the table in Appendix 1.

3.2 Conversion from vector to raster

All vector input data are converted to raster format with a cell size of 10x10 meters. Figure 3.2 illustrates conversion to raster for an extract of the field parcel map. The conversion from vector to raster format entails a spatial generalisation. However, taking into account the spatial accuracy of applied input layers, which is generally between 5 – 10 meters, we consider a cell size of 10x10 meters reasonable. Furthermore, compared to data processing in vector format, processing in raster format is substantially faster, simpler and more consistent.

Figure 3.2 Conversion from vector to raster format, exemplified for an extract of the field parcel map.

For layers from agricultural census data and for the building layer from Kort10, the individual object ID for each object is applied. E.g. for the field parcel layer, the object ID for each field parcel is remained in the raster. This means that other farms specific information, such as animal husbandry or subsidies for environmental schemes, contained in the agricultural registers, can be linked to the Basemap. For the building layer, building specific information, such as building type and building year, contained in the Building and Housing Register (BBR) can be linked to each individual building For all other input layers, rasterized layers only contain the object code.

3.3 Line objects

In the next step, line objects, derived from Kort10 are combined into one layer. Unlike polygon objects, line object are in vector format represented as lines. These include infrastructure, such as roads and railway lines as well as streams. These line objects overlap with object types derived from the other input layers. E.g. a road can be located on a build-up area in Kort10 or on a field parcel from in the field parcel map. For the Basemap, it is assumed that these line objects always must exclude any other object type. Furthermore, the combined line layer also includes lakes and basins from Kort10 and road cadastres from the cadastre map, as these are assumed excluding any other object types.

3.3.1 Overlay

All raster input layers representing roads, railways and streams, as well as lakes and basins are overlaid following a hierarchy where an object type in the top of the hierarchy excludes object types placed lower in the hierarchy. Table 3.1 shows input layers and the applied hierarchy. Figure 3.3 shows the combined layer of line objects for an extract of the map.

Table 3.1 Applied hierarchy for overlay of line objects, lakes, basins and road cadastres.

Object code	Data source	Object name	Hierarchy
521001	Topographical database (kort 10)	Highway	1
521002	Topographical database (kort 10)	Secondary highway	2
521003	Topographical database (kort 10)	Road > 6 m	3
521004	Topographical database (kort 10)	Road 3-6 m	4
521005	Topographical database (kort 10)	Road other	5
523122	Topographical database (kort 10)	Railway visible	6
525431-525435*	Topographical database (kort 10)	Runway	7
572191-572194*	Topographical database (kort 10)	Lake	8
527191-527196*	Topographical database (kort 10)	Basin	9
573180	Topographical database (kort 10)	Stream	10
800000	Cadastre map	Road cadastre	11

*Runway, lake and basin contain several subclasses.

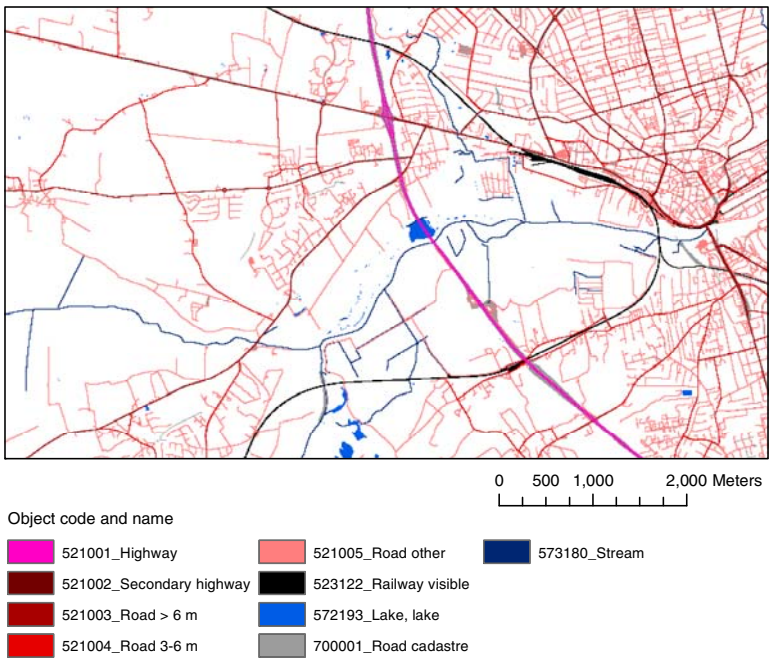

Figure 3.3 Combined line objects, lakes, basins and road parcels, exemplified for a map extract west of Randers.

3.3.2 Embedment of streams

In Kort10, streams are only represented as lines. Consequently, also streams wider than 10 meters are in the raster layer only represented with a width of 10 meters. In order to obtain a better spatial representation of wider streams, streams with widths over 12 meters are embedded into the other object types. The applied method is described in Figure 3.4.

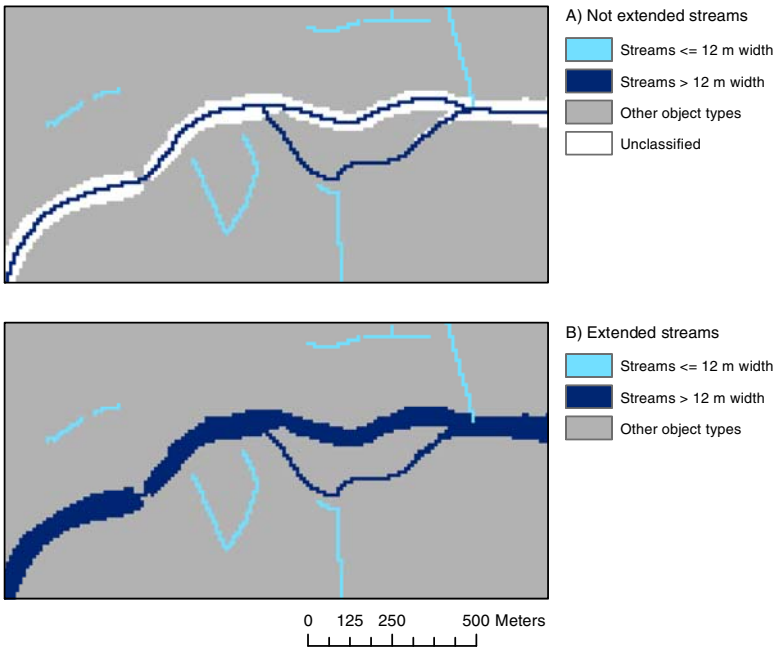

Figure 3.4 Applied method for embedment of streams. Kort10 contains information about stream width. Streams with widths over 12 meters are selected and overlaid with a mask, containing all other input layers, except land from Kort10 (A). Streams over 12 meters width are extended into adjacent areas, which are not contained in the mask (are unclassified) (B). The final map of streams gives an improved spatial representation of streams.

3.4 Polygon objects

In the next processing step, all rasterised input layers, except layers from agricultural census data are combined into one map. Subsequently, narrow areas with unclassified cells and narrow overlaps between specific object types are eliminated from the map.

3.4.1 Overlay

The line-, lake-, basin and road parcel layer from the previous processing step is overlaid with all other input layers, except layers derived from the agricultural census data. Layers are overlaid following a hierarchy where an object type or layers in the top of the hierarchy excludes object types or layers placed lower in the hierarchy. Table 3.2 shows input layers and the applied hierarchy. The line-, lake-, basin and road parcel layer is applied in top of the hierarchy, entailing that object types in this layer exclude all other object types. The next object types in the hierarchy originate from the management plans for state forests (2) and for defence holdings (3), Natura2000 habitat types (4) and the map of protected habitat types (5). Since object types within each of these data sources are exclusive, i.e. do not contain overlaps between different object types within the same layer, the whole input layers from these data sources are applied in the overlay. Management plans and Natura2000 habitat types are placed highest in the hierarchy, as these layers contain very detailed thematic information on habitat and forest types compared to the map of protected habitat types. Layers originating from Kort10 are placed lowest in the hierarchy. Since object types in Kort10 are not exclusive, i.e. can overlap with each other (e.g. forest on build-up areas) each object type from Kort10 is assigned a place in the hierarchy. Table 3.2 shows input layers and the applied hierarchy. In Figure 3.5, the combination of layers is illustrated for an extract of the map.

Table 3.2 Applied hierarchy for overlay of polygon objects.

Data source	Object code	Object name	Hierarchy
Line-, lake-, basin- and road parcel layer	-*	-*	1
Management plans for state forests and for defence holdings	-*	-*	2
Natura2000 habitats (Devano map)	-*	-*	3
Map of protected habitat types (§ 3-registration)	-*	-*	4
Topographical database (kort 10)	561190	Forest	5
Topographical database (kort 10)	561391-561392**	Heather	6
Topographical database (kort 10)	561420	Sand/dune	7
Topographical database (kort 10)	561590	Wetland	8
Topographical database (kort 10)	561340	Horticulture	9
Topographical database (kort 10)	563290	Cemetery	10
Topographical database (kort 10)	555000	Sports ground	11
Topographical database (kort 10)	531190	Recreation area	12
Topographical database (kort 10)	551301-551302**	Gravel pit	13
Topographical database (kort 10)	531130	City centre	14
Topographical database (kort 10)	531180	High build-up	15
Topographical database (kort 10)	531170	Low build-up	16
Topographical database (kort 10)	531160	Industry	17
Topographical database (kort 10)	527013	Airport	18
Topographical database (kort 10)	527001-527012**	Technical area	19
Topographical database (kort 10)	570000	Sea	20
Topographical database (kort 10)	560000	Land	21

*Object types contained in the line-, lake-, basin and road parcel layer, in management plans, in Natura2000 habitats and in the map of protected habitats are exclusive. I.e. within these layers, there are no internal overlaps between object types. Therefore, the whole layers are applied in the overlay.
**Heather, gravel pit and technical area contain several subclasses.

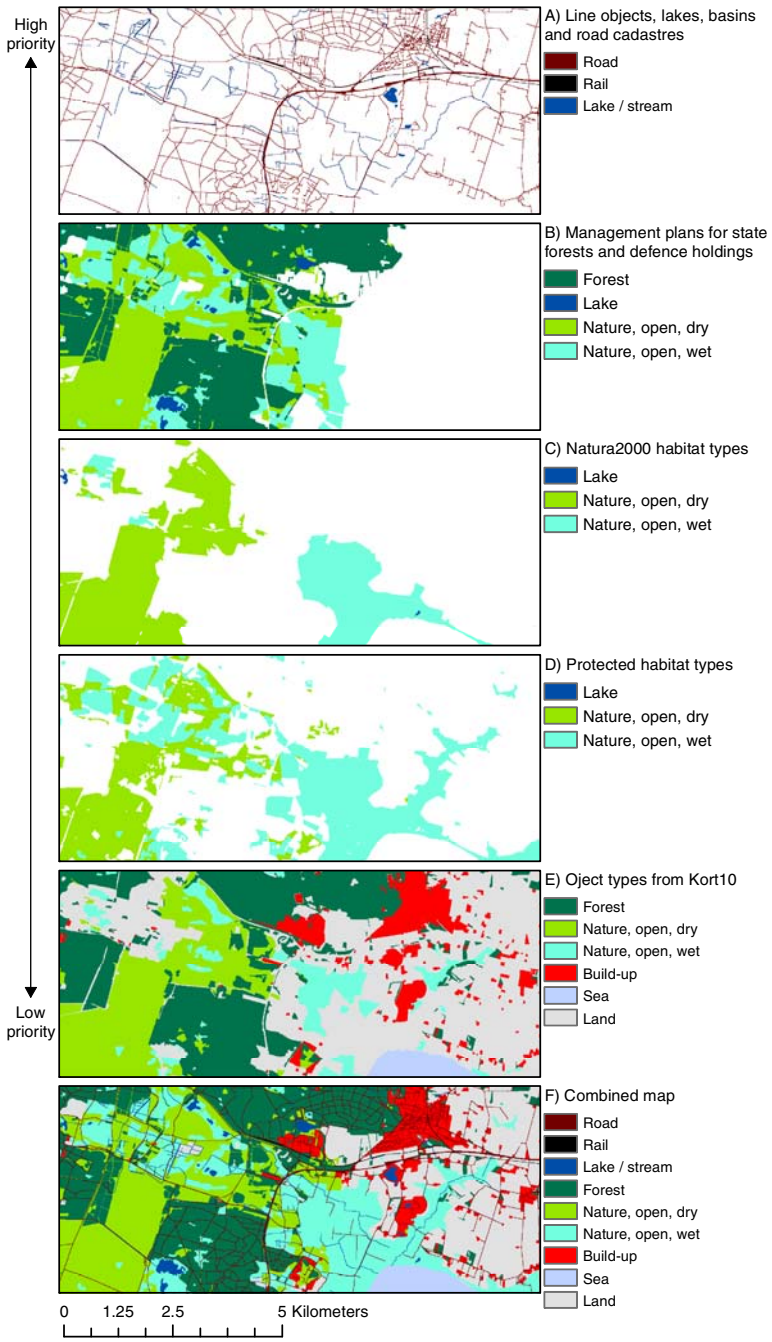

Figure 3.5 Applied method for overlay of input layers. Input layers are overlaid. Object types from layers placed in the top of the hierarchy exclude object types placed lower in the hierarchy (A-E), resulting in the final combined map (F).

3.4.2 Elimination of unclassified cells

Roughly 261,000 km² or 60 % of the terrestrial area in the combined layer contains cells, which are only classified as land, and consequently do not contain any specific LULC information. About 3,000 km² or roughly 1 % of the unclassified area are characterised by areas with a width less than or equal to 20 meters or (2 raster cells). These narrow unclassified areas are considered the consequence inaccurate delineation of objects in the applied input datasets and are eliminated from the map following the method described in Figure 3.6.

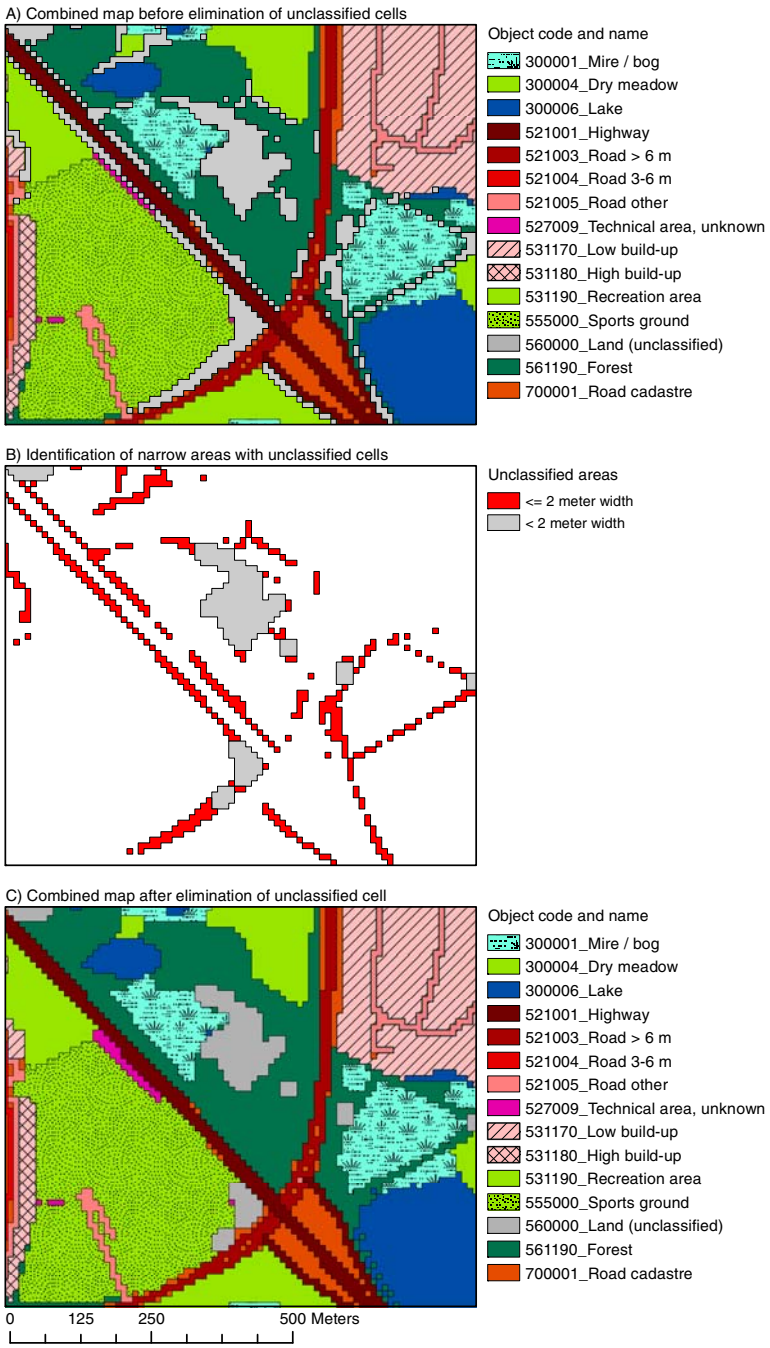

Figure 3.6 Applied method for elimination of narrow areas with unclassified cells. From the combined map (A), unclassified cells are extracted and areas with a width equal to or less than 20 meters are identified (B). These narrow unclassified areas are merged with adjacent object types (C). Unclassified areas are only merged with infrastructure or streams, if no other adjacent object types exist.

3.4.3 Elimination of slivers

As a consequence of the overlay of the different input layers, where layers highest in the hierarchy exclude layers lower in the hierarchy, objects originating from layers lower in the hierarchy are sometimes spatially cut off, resulting in small and narrow remnant areas. E.g. where the forest layer from Kort10 is overlaid with the management plans for state forests, narrow remnant areas of forest from Kort10 are located adjacent to forest objects from the management plans of state forests, which have more detailed classification. These narrow remnant areas are considered so called slivers, resulting from inaccuracies in the spatial delineation of object types in the manage-

ment plans of state forests. These slivers are merged with object types from adjacent forest types. Figure 3.7 describes the method. The same methodology is applied to two other cases: 1) Slivers between the wetland layer from Kort10 and wetlands objects originating from the management plans of state forests and defence holding, from the map of protected habitats or from the map of Natura2000 habitats. 2) Slivers between the heather and sand / dune layers from Kort10 and nature, open, dry objects originating from the management plans of state forests and defence holding, from the map of protected habitats or from the map of Natura2000 habitats. The final output map of the combined and cleaned line and polygon object types is named *LULC00 2016*.

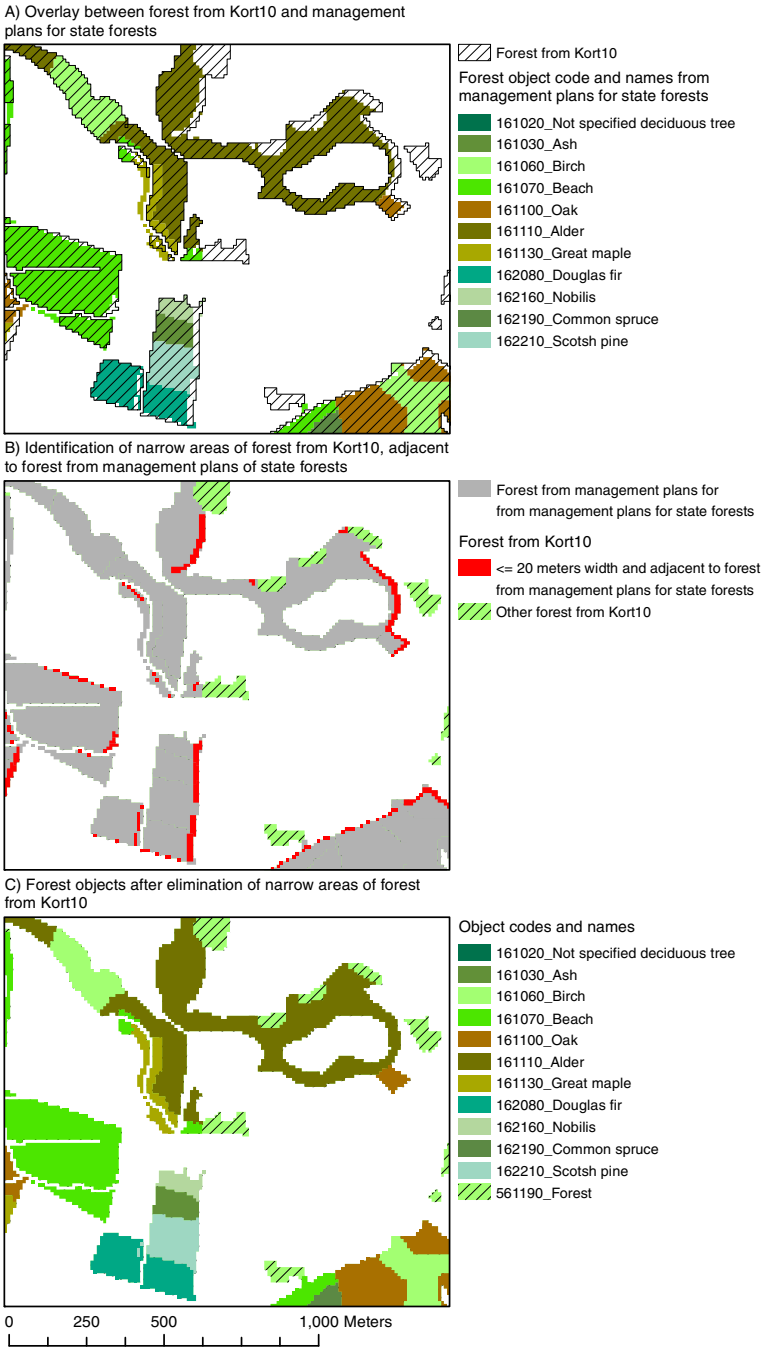

Figure 3.7 Applied method for elimination of narrow overlaps between forest from Kort10 and forest from management plans for state forests. Forest from Kort10 and from management plans for state forests is overlaid (A). Areas of forest from Kort10, which do not overlap with forest from management plans are identified and divided into areas with a width <= 20 meters, located adjacent to forest from management plans and into other forest (B). These narrow areas are merged with adjacent forest object types.

3.5 Agricultural census data

In order to allow for overlaps between agricultural LULC information and the other input layers, agricultural census data are processed independently. This ensures that e.g., an area, which according to the agricultural census data is classified as permanent grassland and overlaps with a wetland habitat from the map of protected habitat types, in the final Basemap does contain LULC information from both the agricultural data and from the habitat data.

3.5.1 Overlay with other input data

In the first step, the rasterised field parcel layer is overlaid with the LULC00 2016 map. Roads, railways, streams, lakes and basins contained in the LULC00 2016 map are considered to exclude any agricultural land use, and are thus removed from the field parcel layer. In the next step, following the methodology described in Figure 3.6, narrow areas with unclassified cells are merged with adjacent field parcels.

3.5.2 Embedment of field blocks

Overlaying the cleaned field parcel map and the LULC00 map, about 1,200 km² or 1.7 % of the terrestrial area do not contain any LULC information and are thus considered unclassified. Some 500 km² of these unclassified areas are contained in the field block map. As described in Section 2.7, the field block map is different from the field parcel map in the sense that one field block can contain up to 10 individual field parcels. I.e. it is not possible to precisely locate field parcels within a field block. However, the field block map contains an individual reference to the agricultural register with detailed information about land use types within each field block. The agricultural register for 2016 (Ministry of Environment and Food, 2016c) is applied to assign land use types to field blocks by calculating the total area of land use types within each field block and assigning the dominating land use type in terms of total area. Corresponding with the applied aggregation of object types in the final aggregated Basemap (Section 3.7) agricultural land use is aggregated into four major types: Agriculture, intensive, temporary crops; Agriculture, intensive, permanent crops; Agriculture extensive; and Forest, field parcel map / field block map. The method for embedment of field block is described in Figure 3.8.

Figure 3.8 Applied method for embedment of field blocks. The field block map, the field parcels map and other types (from LULC00) are overlaid and additional field blocks within yet unclassified areas are selected (A). Based on agricultural registers, the dominant land use type is assigned to each field block (B) and embedded into the final map (C).

3.5.3 Final layer for agricultural census data

The final layer, which is named *Agricultural Census Data 2016*, contains an individual object ID for each parcel or field block. This object ID can be linked to a variety of other information from agricultural registers. For the current version of the Basemap, object IDs are assigned LULC information, the company registration number (CVR-number), and the field block number (Figure 3.9).

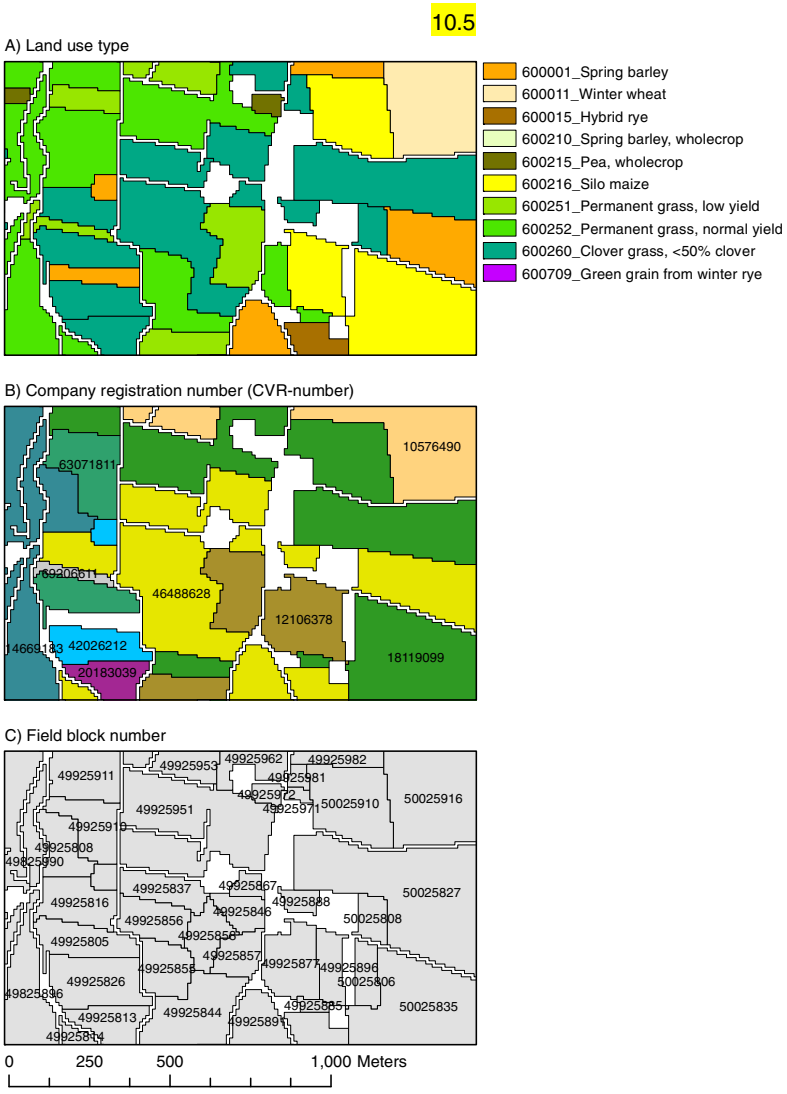

Figure 3.9 Illustration of aggregation og agricultural census data into land use type (A), company registration number (B) and field block number (C).

3.6 Combination of all object types

In the final processing step, all object types from the LULC00 2016 layer, the Agricultural Census Data 2016 and from the building layer from Kort10 are combined into one layer. This combined layer is named *LULC01 2016*. An interpretation of the object types and of overlaps between object types from the different input layers is applied to aggregate cells into 35 major LULC-types.

3.6.1 Overlay

The LULC00 2016 layer, the agricultural census data 2016 and the building layer from Kort10 are overlaid. The resulting layer, which is named *LULC01 2016*, contains all information from all input layers. Table 3.3 shows an extract of the attribute table for the LULC01 2016 layer. As the LULC00 2016 layer only contains information about object types, object IDs and Basemap object codes are identical. For the agricultural census data, object IDs refer to individual parcels. For each parcel, the LULC00 2016 layer contains information about the Basemap object code and object name, the company registration number (CVR-number) and the field block number. For the building layer from the topographical database, object IDs refer to individual buildings. For later applications, these can be linked with e.g. the building and

housing register (BBR) to add information such as building types, building year etc.

Table 3.3 Extract of attribute table for LULC01 2016.

LULC00 2016 Object ID	LULC 00 2016 Basemap Object Code	LULC00 2016 Basemap Object Name	Agricultural Census Data 2016 Object ID	Agricultural Census Data 2016 Basemap Object Code	Agricultural Census Data 2016 Basemap Object Name	CVR Number	Field Block Number	Building Object ID	Aggregation LULC Code	Aggregation LULC Name
527195	527195	Basin, swimming pool	0	0	0	0	0	0	100000	Other build-up
531170	531170	Low build-up	0	0	0	0	0	0	101000	Low build-up
531170	531170	Low build-up	0	0	0	0	0	4232981	101104	Low build-up, building
560000	560000	Land	165525	600011	Winter wheat	20777982	55426074	1086414	104000	Building
161070	161070	Beach	0	0	0	0	0	0	110000	Forest
161130	161130	Great maple	166422	600580	Forestry, common	71981010	55226053	0	110110	Forest, field parcel map/field block map
560000	560000	Land	166505	600587	Afforestation on former agricultural land	13084793	55826042	0	110110	Forest, field parcel map/field block map
531160	531160	Industry	0	0	0	0	0	0	201000	Industry
531160	531160	Industry	0	0	0	0	0	1971508	201104	Industry, building
521005	521005	Road other	0	0	0	0	0	0	300000	Road
523122	523122	Railway visible	0	0	0	0	0	0	400000	Rail
555000	555000	Sports ground	0	0	0	0	0	0	600000	Recreation area
531170	531170	Low build-up	166783	600260	Clover grass, <50% clover	20869437	54926084	0	701000	Agriculture, intensive, temporary crops
560000	560000	Land	166423	600011	Winter wheat	12403631	55826023	0	701000	Agriculture, intensive, temporary crops
560000	560000	Land	166739	600252	Permanent grass, normal yield	15051973	54926024	0	703000	Agriculture, extensive
300004	300004	Dry meadow	0	0	0	0	0	0	801000	Nature, open, dry
561391	561391	Heather, not specified	166739	600252	Permanent grass, normal yield	15051973	54926024	0	801703	Nature, open, dry, extensive agriculture
300001	300001	Freshwater meadow	0	0	0	0	0	0	802000	Nature, open, wet
300001	300001	Freshwater meadow	167896	600276	Permanent grass/clover grass without N-norm	17870106	56025998	0	802703	Nature, open, wet, extensive agriculture
403160	403160	Natural dystrophic lake	0	0	0	0	0	0	901000	Lake
573180	573180	Stream	0	0	0	0	0	0	902000	Stream
560000	560000	Land	0	0	0	0	0	0	999000	Unclassified

3.6.2 Aggregation of land use/land cover

The LULC01 2016 layer contains a total of 542 object types. Based on an interpretation of object types and of overlaps between the applied input data, the LULC01 2016 layer can be aggregated into fewer LULC types. The choice of aggregation depends on the purpose of the study. If focus is on agricultural land use, detailed information on agricultural land use classes (crop types) is relevant. If focus is on urban land use, detailed information on urban land use types is relevant.

In this report, we apply an aggregation of object types into broad LULC types, which are relevant to the national accounting, elaborated by Statistics Denmark. For this aggregation, all 542 object types are aggregated into 23 LULC types (see appendix 1 for aggregation of object types). Where cells are contained in the building layer from the topographical database, these cells are principally assigned the aggregated LULC type *building*. Furthermore, where cells are contained in the Agricultural Census Data layers and in the LULC00 layer, these cells are principally assigned the aggregated LULC type from the agricultural census data. However, for some overlaps, object types from one layer do not exclude object types from other layers. E.g. if an area, is classified as *Permanent grassland* in the agricultural census data and as *Freshwater meadow* in the LULC00 layer, the two object types are not excluding each other but contain different types of LULC information. In the aggregated LULC layer, this overlap is assigned the aggregated LULC type *Nature, open, wet, extensive agriculture*. Correspondingly, cells, which are contained in the building layer and in the LULC00 layer are classified as *Low build-up*, are assigned the aggregated LULC type *Low build-up, building*. The aim of these combined LULC classes is to maintain different types of LULC information in the aggregated LULC map. Table 3.4 contains a list of these additional 12 combined aggregated LULC types. Figure 3.10 illustrates the aggregation of input layers into combined aggregated LULC types. The final aggregated LULC map is named *LULC02 2016*.

Table 3.4 Aggregation of overlaying object types into combined aggregation LULC types.

LULC00, Aggregated LULC Code	LULC00, Aggregated LULC Name	Agricultural Census Data, Aggregated LULC Code	Agricultural Census Data, Aggregated LULC Name	Building layer, Aggregated LULC code	Building layer, Aggregated LULC Name	Aggregated LULC Code	Aggregated LULC Name
100000	Other build-up	-	-	104000	Building	100104	Other build-up, building
101000	Low build-up	-	-	104000	Building	101104	Low build-up, building
102000	High build-up	-	-	104000	Building	102104	High build-up, building
103000	City centre	-	-	104000	Building	103104	City centre, building
110000	Forest	700110	Forest	-	-	110110	Forest, field parcel map/field block map
201000	Industry	-	-	104000	Building	201104	Industry, building
203000	Airport/runway	-	-	104000	Building	203104	Airport/runway, building
204000	Wind energy park	700001	Agriculture, intensive, temporary crops	-	-	204701	Wind energy park, agriculture, intensive, temporary crops
204000	Wind energy park	700002	Agriculture, intensive, permanent crops	-	-	204702	Wind energy park, agriculture, intensive, permanent crops
204000	Wind energy park	700003	Agriculture, extensive	-	-	204703	Wind energy park, agriculture, extensive
801000	Nature, open, dry	700003	Agriculture, extensive	-	-	801703	Nature, open, dry, extensive agriculture
802000	Nature, open, wet	700003	Agriculture, extensive	-	-	802703	Nature, open, wet, extensive agriculture

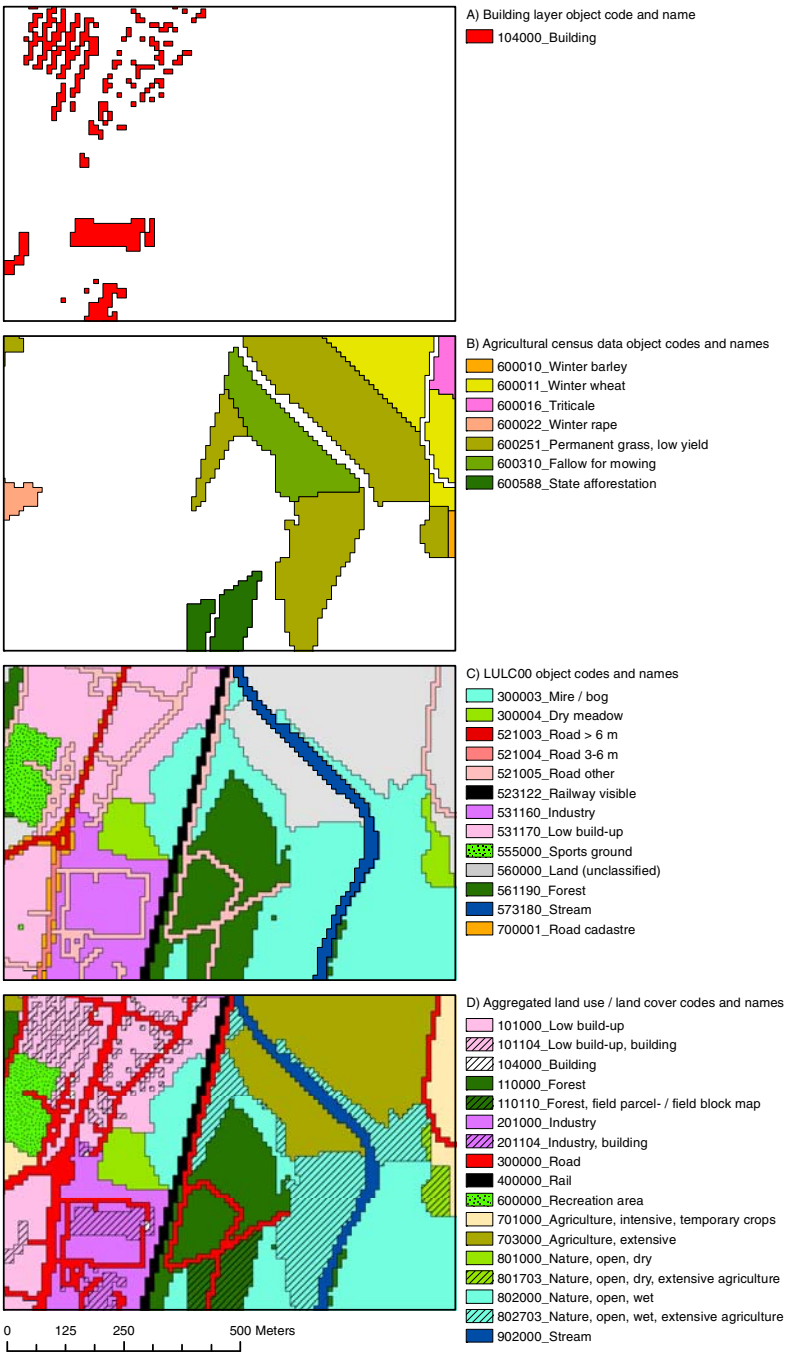

Figure 3.10 Applied method for aggregation of object types. The building layer from Kort10 (A), the agricultural census data (B) and the LULC00 layer are overlaid (C). Buildings, overlapping with build-up objects types are assigned a combined build-up/building type. Parcels from the agricultural census data, containing extensive land use and overlapping with habitat types in the LULC00 layer are assigned a combined habitat/agriculture type.

3.7 2011 Basemap

The methodology and to some extent the input data, which were applied for the elaboration of the first version of Basemap for the year 2011 differ from the new version of the map. As a consequence, a direct comparison of the first and the new version of the Basemap would result in a substantial amount of not realistic LULC changes. Therefore, to enable analyses of

LULC changes, an updated version of the Basemap for 2011, consistent with the Basemap for 2016, is elaborated.

Considering the rather short time period of 5 years, changes in LULC between the years 2011 and 2016 can be assumed to be rather small. According to Levin et al. (2014), recent changes in land use and land cover in Denmark are mainly characterised by urban expansion, expansion of road infrastructure, afforestation and habitat and wetland restoration. These changes occur primarily on the account of agricultural land use.

The 2011 version of Basemap is elaborated for aggregated LULC types (Section 3.6.2). Consequently, the 2011 version does not contain individual object IDs and the possibility to relate these to other register data.

3.7.1 Inconsistency of data over time

In general, applying earlier versions of the applied input data to assess changes in LULC is problematic. Concerning the map of protected habitat types, the map of Natura2000 habitat types and to some extent management plans for state forests and for defence holdings, differences in LULC between the 2011 and 2016 versions are the consequence of an increasing precision of mapping rather than reflecting actual changes. E.g. as a response to a general critique of inconsistent methods for mapping, in 2012 the Danish Nature Agency initiated a major revision of the map of protected habitats. A quality control of the revised map unveiled that differences between the earlier and the revised map primarily are the consequence of a more precise registration, rather than reflecting changes (Nygaard et al., 2016).

Regarding Kort10, between 2011 and 2016, the technical specifications for delineation of objects have changed. A major modification concerns the spatial delineation of build-up objects (Geodanmark, 2014). As illustrated in Figure 3.11, the delineation of build-up objects is consistently simplified in 2016. Furthermore, while in 2011 overlaps with other objects types, such as roads, larger buildings, lakes and forests, were cut out of the build-up objects, overlaps between build-up objects and other object types are allowed in the version for 2016. Consequently, a direct comparison of the amount of build-up land, derived from the two versions results in a considerable and not realistic increase.

Considering inconsistency of input data over time and recognising that recent LULC changes primarily have been characterised by changes from agricultural land to other LULC types, we apply a methodology for assessment of LULC changes, where, except for larger roads, agricultural census data for 2011 are the main applied input data.

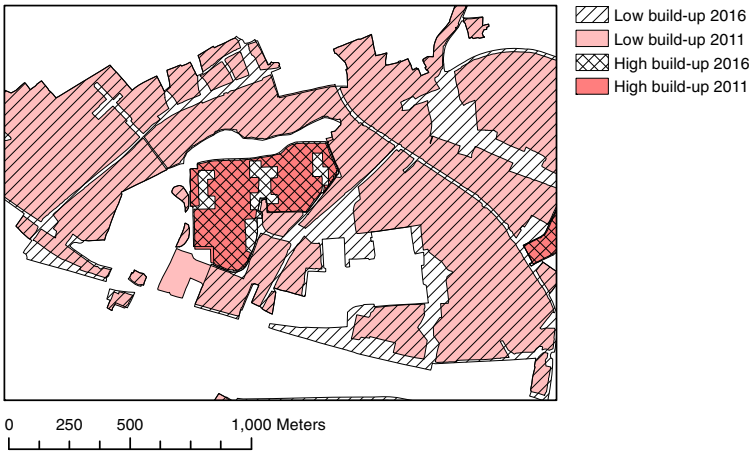

Figure 3.11 Overlay of low build-up areas and high build-up areas from Kort10 2011 and Kort10 2016.

3.7.2 Road expansion

Expansion of road infrastructure, particularly expansion of highways and secondary highways, is one of the major recent LULC changes in Denmark. Other road types have most likely also been expanded. However, differences in road layers from Kort10 2011 and Kor10 2016 are considered too significant for a reasonable change assessment. In order to include expansion of highways and secondary highways in the assessment of LULC changes, roads from LULC02 2016 are overlaid with highways and secondary highways from Kort10 2011. The applied method is described in Figure 3.12.

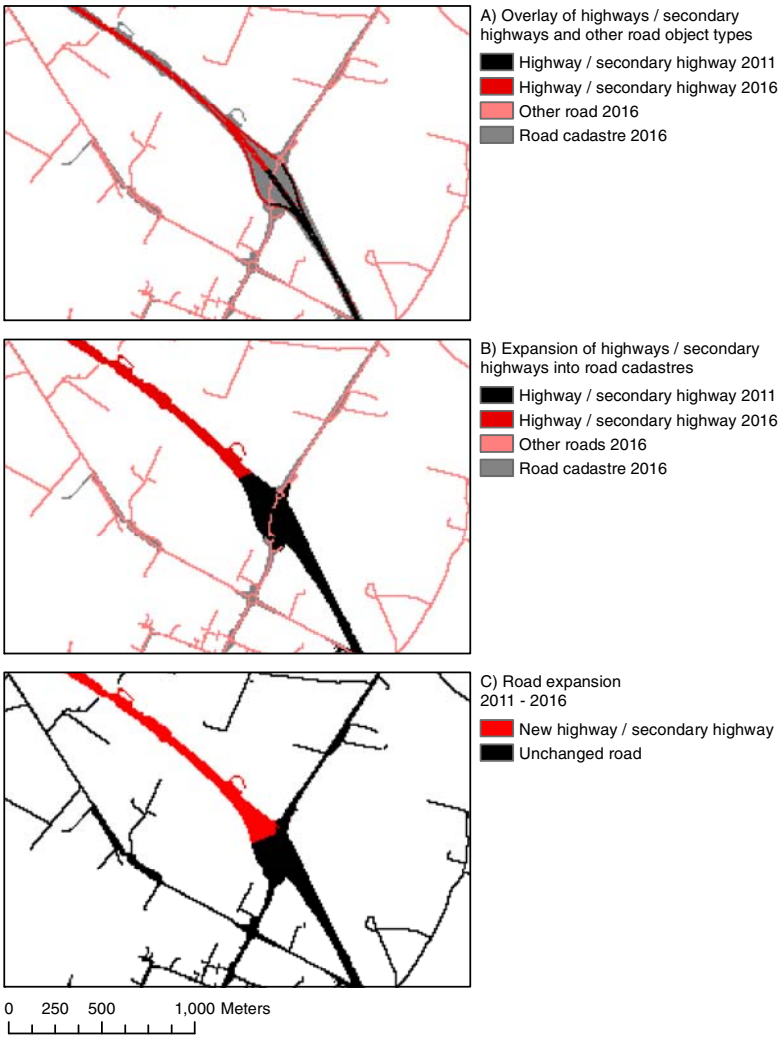

Figure 3.12 Illustration of applied method for mapping of road expansion from 2011 to 2016. Highways/secondary highways from Kort10 2011 are overlaid with highways/secondary highways and other road object types from the LULC02 2016 (A). In order to include road cadastres located adjacent to highways/secondary highways, the 2011 and 2016 highway/secondary highway layers are extended into adjacent road cadastres for 2016 (B). Where the extended 2016 highway/secondary highway layer does not overlap with the extended 2011 highway/secondary highway layer, new highways/secondary highways are registered. All other roads are classified as unchanged (C).

3.7.3 Lake restoration

Between 2011 and 2016, three larger lake restorations were carried out. Filsø in western Jutland, and Grynderup sø and Tissing Vig in northern Jutland comprise a total are of approx. 12 km². To include these lake restorations in the LULC change assessment the 3 lakes are removed from the 2011 Basemap.

3.7.4 Urban expansion

Urban expansion is a major recent LULC change in Denmark. Since urban expansion primarily takes place at the expense of agricultural land use, we apply the 2011 field parcel map to identify areas, which in 2011 were registered as agricultural land and in 2016 as build-up land. In order to reduce biases resulting from errors in spatial delineation of the 2011 field parcels, only areas with a width exceeding 20 meters and a size of at least 1,000 m² are mapped as urban expansion. For urban areas, which did not change be-

tween 2011 and 2016, LULC types from 2016 are applied to the 2011 Base-map. The applied methodology is described in detail in Figure 3.13.

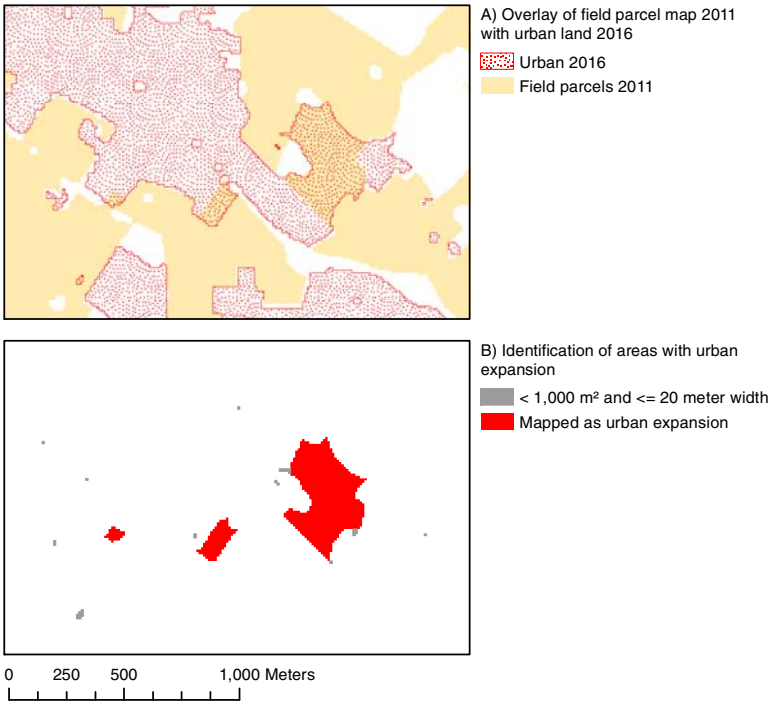

Figure 3.13 Illustration of applied method for mapping of urban expansion. The field parcel map for 2011 is overlaid with urban land 2016 (A). Urban land, which overlaps with field parcels, is identified. Only overlaps >= 1,000 m² and with a width > 20 meters are mapped as urban expansion (B).

3.7.5 Assessment of other LULC changes

Changes within build-up LULC types, *lake* and *road* are only mapped in the case of the situations described in the previous sections. For other LULC changes LULC types: *airport/runway; rail; resource extraction; stream; and sea* are assumed not to change. Furthermore, in order to reduce biases caused by inaccuracies of the delineation of object types in the applied input data, only changing areas with a width exceeding 20 meters are included. The applied method is illustrated in Figure 3.14. The final map for 2011 is named *LULC02 2011*.

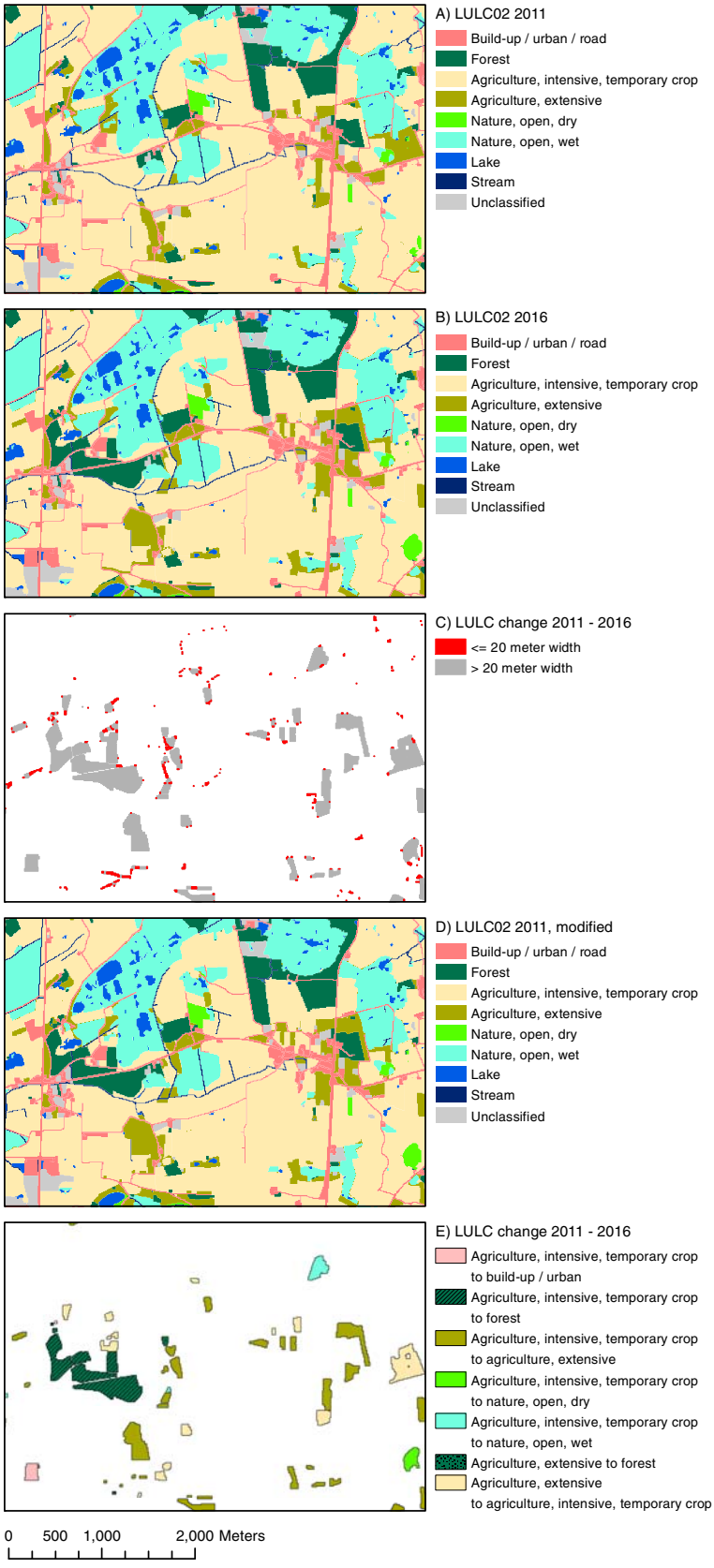

Figure 3.14 Illustration of the applied method for mapping of LULC changes. The LULC map for 2011 (A) is overlaid with the LULC map for 2016 (B). Areas with LULC changes <= 20 meters width (C) are considered not to have changed and are in the modified LULC map for 2011 (D) assigned the LULC type for 2016. Mapped LULC changes only include areas with change > 20 meters width.

4 Results and discussion

4.1 LULC changes from 2011 to 2016

Table 4.1 summarises assessed LULC changes from 2011 to 2016. Overall, changes are characterised by a decreasing area of intensive agricultural land use (-810.8 km²) and an increasing area of build-up and other artificial surfaces (+25.5 km²), extensive agriculture (+569.0 km²), open nature (+197.4 km²), forest (+97.6 km²) and lakes and streams (+11.3 km²). As indicated by the values in Table 4.2, the majority of increases in build-up, forests, nature and forest occurred on the account of agricultural land. The results thus confirm a trend of conversion of agricultural land to other LULC types.

4.2 Accuracy of LULC assessment

Applied input data are subject to inaccuracies, both in terms of spatial delineation of objects and in terms of classification. The developed methodology for the Basemap02 to some extent handles these inaccuracies by applying hierarchies for overlay of data layers and by elimination of narrow unclassified areas and overlaps between object types. However, it is unavoidable that inaccuracies of applied input data are reflected in the resulting maps.

Particularly the applied aggregation of field parcel data into intensive and extensive agricultural land use highly influences the assessed LULC changes. The applied aggregation is in accordance with the aggregation applied in an analysis of overlaps between protected habitat types and agricultural land use (Levin, 2016). The aggregation is based on expert judgement of conflicts between agricultural land use types and habitat types. E.g. a field parcel, with the land use type *grass and clover grass without N-norm* is classified as intensive agriculture, while a field parcel with the land use type *permanent grass, normal yield* is classified as extensive land use. If land use changes between the two land use types, a change from intensive to extensive land use is registered in the aggregated maps. Furthermore, if the parcel in the map of protected habitat types has the land use type *freshwater meadow* the change will be mapped as agriculture intensive in 2011 to nature, open, wet, agriculture extensive in 2016. Whether a change from e.g. *grass and clover grass without N-norm* to *permanent grass, normal yield* in fact reflects a change from intensive to extensive land use can, however be questioned and different aggregation of land use types from field parcel data would lead to different results. As a consequence of these insecurities related to field parcel data, the total change in the area of extensive agricultural land use (approx. 600 km²) and in the area of open nature (approx. 200 km²) is most likely overestimated.

Table 4.1 Assessed LULC changes from 2011 to 2016.

	2011		2016		Change 2011 - 2016	
LULC types	Km²	Proportion of terrestrial area	Km²	Proportion of terrestrial area	Km²	Proportion of terrestrial area
All build-up and other artificial surfaces	5,849.7	13.57%	5,875.2	13.63%	25.5	0.06%
100000_Other build-up	50.4		51.3		1.0	
100104_Other build-up, building	3.8		3.8		0.0	
101000_Low build-up	1,924.2		1,938.2		14.0	
101104_Low build-up, building	494.5		496.5		2.0	
102000_High build-up	46.2		46.2		0.0	
102104_High build-up, building	19.7		19.7		0.0	
103000_City centre	11.0		11.0		0.0	
103104_City centre, building	12.0		12.0		0.0	
104000_Building	67.4		67.4		0.0	
300000_Road	2,375.8		2,382.1		6.3	
400000_Rail	45.5		45.5		0.0	
500000_Ressource extraction	55.2		55.2		0.0	
600000_Recreation area	392.5		392.5		0.0	
201000_Industry	223.9		225.8		1.9	
201104_Industry, building	93.2		93.4		0.3	
203000_Airport/runway	33.9		33.9		0.0	
203104_Airport/runway, building	0.8		0.8		0.0	
204000_Wind energy park	1.0		0.5		-0.5	
Agriculture	27,842.7	64.61%	27,720.8	64.33%	-121.8	-0.28%
Agriculture, intensive	24,935.1	57.86%	24,124.3	55.98%	-810.8	-1.88%
701000_Agriculture, intensive, temporary crops	24,550.8		23,728.5		-822.2	
702000_Agriculture, intensive, permanent crops	364.4		375.5		11.0	
Agriculture, extensive	2,796.9	6.49%	3,392.8	7.87%	596.0	1.38%
703000_Agriculture, extensive	1,367.1		1,759.6		392.5	
704000_Agriculture, not classified	110.7		203.7		93.0	
Wind energy park	20.6	0.05%	21.1	0.05%	0.5	0.00%
204701_Wind energy park, agriculture, intensive, temporary crops	19.4		19.7		0.3	
204702_Wind energy park, agriculture, intensive, temporary crops	0.5		0.6		0.1	
204703_Wind energy park, agriculture, extensive	0.7		0.9		0.2	
Nature, open	3,632.1	8.43%	3,829.5	8.89%	197.4	0.46%
Nature, open, dry	1,444.8		1,480.7		35.9	
801000_Nature, open, dry	1,104.7		1,066.0		-38.6	
801703_Nature, open, dry, extensive agriculture	340.1		414.7		74.6	
Nature, open, wet	2,187.3		2,348.7		161.5	
802000_Nature, open, wet	1,098.4		1,131.1		32.7	
802703_Nature, open, wet, extensive agriculture	1,088.9		1,217.6		128.7	
Forest	5,343.9	12.40%	5,441.4	12.63%	97.6	0.23%
110000_Forest	5,186.7		5,233.2		46.5	
110110_Forest, field parcel map/field block map	157.1		208.2		51.1	
Lake and streams	1,137.6	2.64%	1,148.7	2.67%	11.1	0.03%
901000_Lake	745.6		756.9		11.3	
902000_Stream	392.0		391.8		-0.2	
999000_Unclassified	717.1		711.2		-5.9	
Total	43,094.9		43,094.9	100.00%	0.0	0.00%

Table 4.2 Assessed change from agricultural land use in 2011 to LULC types in 2016.

LULC type in 2016	Km²	Proportion of agriculture in 2011
Build-up and other artificial surfaces	25.4	0.09%
Forest	109.3	0.39%
Nature, open	194.6	0.70%
Lake, stream	11.0	0.04%
Agriculture	27,502.3	98.78%

A thorough accuracy assessment, e.g. based on ground control of LULC and LULC changes on air photos, is beyond the resources of this project. However, a superior check points at a generally acceptable accuracy of the major assessed LULC changes. Figure 4.1 shows 3 examples of LULC changes overlaid with air photos from 2010 and from 2016 respectively.

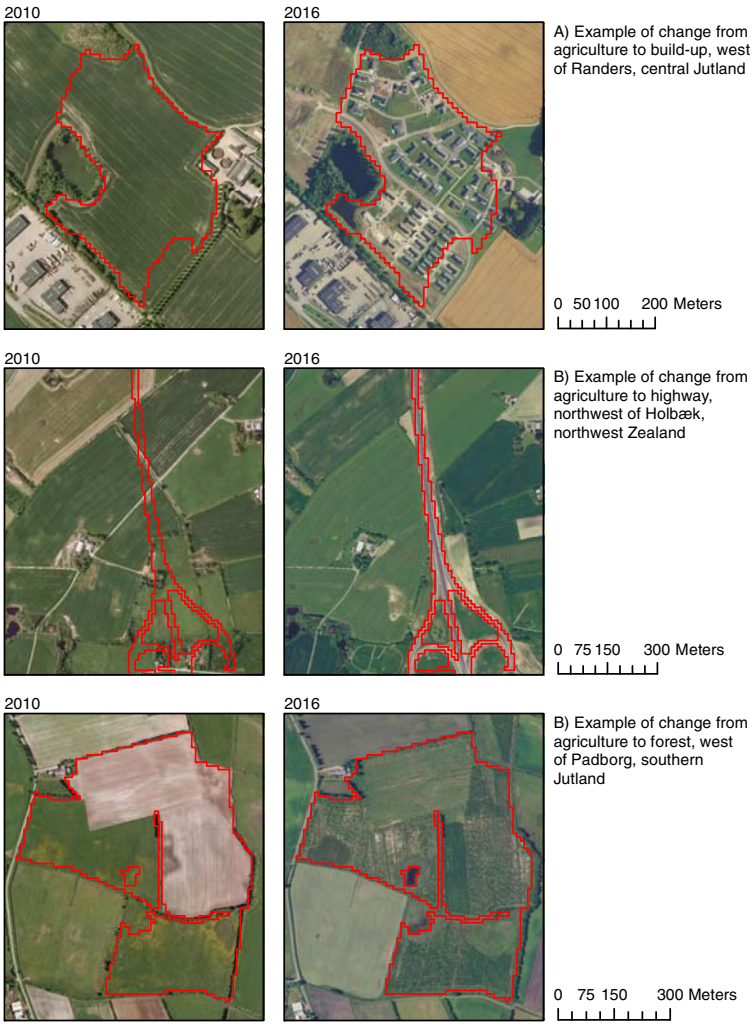

Figure 4.1 Examples of mapped changes between agricultural land use and other land use overlaid with air photos for 2011 and 2016.

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Appendix 1

Basemap_ object_code	source	Base-map_object_name_DK	Base-map_object_name_EN	original_object_ID	original_sub_code	Reclassify_code	Reclassify_name_DK	Reclassify_name_EN
111020	Management plans for state forests	Sø	Lake	SØ		901000	Sø	Lake
120040	Management plans for state forests	Campingplads	Camping site	CAM		600000	Rekreativt område / sportsanlæg	Recreation area
120060	Management plans for state forests	Golfbane	Golf course	GOL		600000	Rekreativt område / sportsanlæg	Recreation area
120100	Management plans for state forests	Park	Park / recreation ground	PAR		600000	Rekreativt område / sportsanlæg	Recreation area
120110	Management plans for state forests	Publikumsareal	Public area	PUB		600000	Rekreativt område / sportsanlæg	Recreation area
120120	Management plans for state forests	Ruin, gravhøj	Ruin / barrow	RUI		600000	Rekreativt område / sportsanlæg	Recreation area
120130	Management plans for state forests	Råstofgrav	Resource extraction	RÅG		500000	Råstofudvinding	Resource extraction
120150	Management plans for state forests	Brændeplads	Wood storage	BRP		110000	Skov	Forest
120160	Management plans for state forests	Grusgrav	Gravel pit	GRG		500000	Råstofudvinding	Resource extraction
122020	Management plans for state forests	Bæltevej	Tank track	BÆL		801000	Lysåben tør	Nature, open, dry
123000	Management plans for state forests	Brandbælte	Fire break	BRL		801000	Lysåben tør	Nature, open, dry
131010	Management plans for state forests	Eng	Wet meadow	ENG		802000	Lysåben våd	Nature, open, wet
131020	Management plans for state forests	Strandsump	Coastal swamp	STS		802000	Lysåben våd	Nature, open, wet
131030	Management plans for state forests	Mose	Mire / bog	MOS		802000	Lysåben våd	Nature, open, wet
131040	Management plans for state forests	Strandeng	Coastal meadow	STG		802000	Lysåben våd	Nature, open, wet
131050	Management plans for state forests	Marsk	Coastal marsh	MAR		802000	Lysåben våd	Nature, open, wet
132010	Management plans for state forests	Hede	Heather	HED		801000	Lysåben tør	Nature, open, dry
132030	Management plans for state forests	Klippe	Rock	KLP		801000	Lysåben tør	Nature, open, dry
132040	Management plans for state forests	Slette, Overdrev (Slette)	Plain	SLE		801000	Lysåben tør	Nature, open, dry

132050	Management plans for state forests	Slette, Overdrev (overdrev)	Dry meadow	ORE	801000	Lysåben tør	Nature, open, dry
132060	Management plans for state forests	Klit	Dune	KLI	801000	Lysåben tør	Nature, open, dry
132080	Management plans for state forests	Strandbred	Beach	STB	801000	Lysåben tør	Nature, open, dry
160020	Management plans for state forests	Ukultiveret areal	Uncultivated area	UKU	801000	Lysåben tør	Nature, open, dry
160030	Management plans for state forests	Skrænt	Hillside	SKR	801000	Lysåben tør	Nature, open, dry
161010	Management plans for state forests	Hvidel	Grey alder	HEL	110000	Skov	Forest
161020	Management plans for state forests	Løvtræ uden særlig kode	Not specified deciduous tree	ALØ	110000	Skov	Forest
161030	Management plans for state forests	Ask	Ash	ASK	110000	Skov	Forest
161040	Management plans for state forests	Bævreasp	Aspen	ASP	110000	Skov	Forest
161050	Management plans for state forests	Avnbøg	Hornbeam	AVN	110000	Skov	Forest
161060	Management plans for state forests	Birk	Birch	BIR	110000	Skov	Forest
161070	Management plans for state forests	Bøg	Beach	BØG	110000	Skov	Forest
161080	Management plans for state forests	Ægte kastanje	Chestnut	CAS	110000	Skov	Forest
161090	Management plans for state forests	Contorta	Contorta	COF	110000	Skov	Forest
161100	Management plans for state forests	Eg	Oak	EG	110000	Skov	Forest
161110	Management plans for state forests	El	Alder	EL	110000	Skov	Forest
161120	Management plans for state forests	Elm	Elm	ELM	110000	Skov	Forest
161130	Management plans for state forests	Ær	Great maple	ÆR	110000	Skov	Forest
161140	Management plans for state forests	Hassel	Hazel	HAS	110000	Skov	Forest
161160	Management plans for state forests	Hestekastanje	Horse Chestnut	KAS	110000	Skov	Forest
161170	Management plans for state forests	Kirsebær	Cherry	KIR	110000	Skov	Forest

161190	Management plans for state forests	Kristtorn	Holly	KRI	110000	Skov	Forest
161200	Management plans for state forests	Lind	Lime tree	LIN	110000	Skov	Forest
161210	Management plans for state forests	Spidsløn	Norway maple	LØN	110000	Skov	Forest
161220	Management plans for state forests	Pil	Willow	PIL	110000	Skov	Forest
161230	Management plans for state forests	Poppel	Poplar	POP	110000	Skov	Forest
161240	Management plans for state forests	Rødeg	Red oak	REG	110000	Skov	Forest
161250	Management plans for state forests	Rødel	Common alder	REL	110000	Skov	Forest
161260	Management plans for state forests	Røn	Mountain ash	RØN	110000	Skov	Forest
161280	Management plans for state forests	Krat	Scrub	KRT	110000	Skov	Forest
162010	Management plans for state forests	Japansk lærk	Japanese larch	JAL	110000	Skov	Forest
162020	Management plans for state forests	Grandis	Grandis	AGR	110000	Skov	Forest
162030	Management plans for state forests	Nåletræ uden særlig kode	Not specified coniferous tree	ANÅ	110000	Skov	Forest
162040	Management plans for state forests	Veitchii	Veitchii	AVE	110000	Skov	Forest
162050	Management plans for state forests	Bjergfyr	Mountain pine	BJF	110000	Skov	Forest
162060	Management plans for state forests	Cryptomeria	Cryptomeria	CRY	110000	Skov	Forest
162070	Management plans for state forests	Cypres	Cypress	CYP	110000	Skov	Forest
162080	Management plans for state forests	Douglas	Douglas fir	DGR	110000	Skov	Forest
162090	Management plans for state forests	Europæisk lærk	European larch	EUL	110000	Skov	Forest
162100	Management plans for state forests	Fransk bjergfyr	French mountain pine	FBF	110000	Skov	Forest
162110	Management plans for state forests	Almindelig ædelgran	Common silver fir	ÆGR	110000	Skov	Forest
162120	Management plans for state forests	Hybridlærk	Hybrid larch	HYL	110000	Skov	Forest

162130	Management plans for state forests	Weymouthsfyr	Weymouth pine	WEY	110000	Skov	Forest
162140	Management plans for state forests	Lærk	Larch	LÆR	110000	Skov	Forest
162150	Management plans for state forests	Nordmannsgran	Norman spruce	NGR	110000	Skov	Forest
162160	Management plans for state forests	Nobilis	Nobilis	NOB	110000	Skov	Forest
162170	Management plans for state forests	Omorika	Omorika	OMO	110000	Skov	Forest
162180	Management plans for state forests	Østrigsk fyr	Austrian pine	ØSF	110000	Skov	Forest
162190	Management plans for state forests	Rødgran	Common spruce	RGR	110000	Skov	Forest
162200	Management plans for state forests	Sitagran	Sita spruce	SGR	110000	Skov	Forest
162210	Management plans for state forests	Skovfyr	Scotch pine	SKF	110000	Skov	Forest
162220	Management plans for state forests	Thuja	Thuja	THU	110000	Skov	Forest
162230	Management plans for state forests	Tsuga	Hemlock	TSU	110000	Skov	Forest
162240	Management plans for state forests	Hvidgran	White spruce	HGR	110000	Skov	Forest
170010	Management plans for state forests	Ager	Agricultural field	AGE	701000	Landbrug intensivt, midlertidige afgrøder	
170020	Management plans for state forests	Planteskole	Forest nursery	PSK	701000	Landbrug intensivt, midlertidige afgrøder	
171020	Management plans for state forests	Vildtager	Crops for gaming	VAG	703000	Landbrug ekstensivt	Agriculture, extensive
211020	Management plans de-fence holdings	Sø	Lake	SØ	901000	Sø	Lake
220020	Management plans de-fence holdings	Areal omkring bebyggelse	Area surrounding buildings	KLG	100000	Andet bebygget	Other build-up
220070	Management plans de-fence holdings	Øvelsesareal	Practice ground	FUT	100000	Andet bebygget	Other build-up
220080	Management plans de-fence holdings	Militære anlæg	Military installation	SKB	100000	Andet bebygget	Other build-up
220090	Management plans de-fence holdings	Øvelsesareal (ubevokset/bar)	Practice ground (bare)	LUØ	100000	Andet bebygget	Other build-up
220110	Management plans de-fence holdings	Publikumsareal	Public area	PUB	600000	Rekreativt område / sportsanlæg	Recreation area

220140	Management plans de-fence holdings	Skydebane	Shooting range	BAN	100000	Andet bebygget	Other build-up
220170	Management plans de-fence holdings	Grusgrav	Gravel pit	GRU	500000	Råstofudvinding	Resource extraction
222020	Management plans de-fence holdings	Bæltevej	Tank track	BÆL	801000	Lysåben tør	Nature, open, dry
223000	Management plans de-fence holdings	Brandbaelte	Fire line	BRL	801000	Lysåben tør	Nature, open, dry
231010	Management plans de-fence holdings	Eng	Wet meadow	ENG	802000	Lysåben våd	Nature, open, wet
231020	Management plans de-fence holdings	Strandsump	Coastal swamp	STS	802000	Lysåben våd	Nature, open, wet
231030	Management plans de-fence holdings	Mose	Mire / bog	MOS	802000	Lysåben våd	Nature, open, wet
231040	Management plans de-fence holdings	Strandeng	Coastal meadow	STG	802000	Lysåben våd	Nature, open, wet
232010	Management plans de-fence holdings	Hede	Heather	HED	801000	Lysåben tør	Nature, open, dry
232020	Management plans de-fence holdings	Frit areal (overdrev)	Open area	FRI	801000	Lysåben tør	Nature, open, dry
232040	Management plans de-fence holdings	Slette, Overdrev (Slette)	Plain	SLE	801000	Lysåben tør	Nature, open, dry
232050	Management plans de-fence holdings	Slette, Overdrev (overdrev)	Dry meadow	ORE	801000	Lysåben tør	Nature, open, dry
232060	Management plans de-fence holdings	Klit	Dune	KLI	801000	Lysåben tør	Nature, open, dry
232070	Management plans de-fence holdings	Hede	Heather	STO	801000	Lysåben tør	Nature, open, dry
232080	Management plans de-fence holdings	Strandbred	Beach	STB	801000	Lysåben tør	Nature, open, dry
260020	Management plans de-fence holdings	Ukultiveret areal	Uncultivated area	UKU	801000	Lysåben tør	Nature, open, dry
260030	Management plans de-fence holdings	Skrænt	Hillside	SKR	801000	Lysåben tør	Nature, open, dry
261010	Management plans de-fence holdings	Hvidel	Grey alder	HEL	110000	Skov	Forest
261020	Management plans de-fence holdings	Løvtræ uden særlig kode	Not specified deciduous tree	ALØ	110000	Skov	Forest
261030	Management plans de-fence holdings	Ask	Ash	ASK	110000	Skov	Forest
261040	Management plans de-fence holdings	Bævreasp	Aspen	ASP	110000	Skov	Forest

261060	Management plans defence holdings	Birk	Birch	BIR	110000	Skov	Forest
261070	Management plans defence holdings	Bøg	Beach	BØG	110000	Skov	Forest
261090	Management plans defence holdings	Contorta	Contorta	COF	110000	Skov	Forest
261100	Management plans defence holdings	Eg	Oak	EG	110000	Skov	Forest
261110	Management plans defence holdings	El	Alder	EL	110000	Skov	Forest
261120	Management plans defence holdings	Elm	Elm	ELM	110000	Skov	Forest
261130	Management plans defence holdings	Ær	Great maple	ÆR	110000	Skov	Forest
261170	Management plans defence holdings	Kirsebær	Cherry	KIR	110000	Skov	Forest
261200	Management plans defence holdings	Lind	Lime tree	LIN	110000	Skov	Forest
261220	Management plans defence holdings	Pil	Willow	PIL	110000	Skov	Forest
261230	Management plans defence holdings	Poppel	Poplar	POP	110000	Skov	Forest
261240	Management plans defence holdings	Rødeg	Red oak	REG	110000	Skov	Forest
261250	Management plans defence holdings	Rødel	Common alder	REL	110000	Skov	Forest
261260	Management plans defence holdings	Røn	Mountain ash	RØN	110000	Skov	Forest
261280	Management plans defence holdings	Krat	Scrub	KRT	110000	Skov	Forest
262010	Management plans defence holdings	Japansk lærk	Japanese larch	JAL	110000	Skov	Forest
262020	Management plans defence holdings	Grandis	Grandis	AGR	110000	Skov	Forest
262030	Management plans defence holdings	Nåletræ uden særlig kode	Not specified coniferous tree	ANÅ	110000	Skov	Forest
262050	Management plans defence holdings	Bjergfyr	Mountain pine	BJF	110000	Skov	Forest
262070	Management plans defence holdings	Cypres	Cypress	CYP	110000	Skov	Forest
262080	Management plans defence holdings	Douglas	Douglas fir	DGR	110000	Skov	Forest

262090	Management plans defence holdings	Europæisk lærk	European larch	EUL	110000	Skov	Forest
262100	Management plans defence holdings	Frans bjergfyr	French mountain pine	FBF	110000	Skov	Forest
262110	Management plans defence holdings	Almindelig ædelgran	Common silver fir	ÆGR	110000	Skov	Forest
262140	Management plans defence holdings	Lærk	Larch	LÆR	110000	Skov	Forest
262150	Management plans defence holdings	Nordmannsgran	Norman spruce	NGR	110000	Skov	Forest
262160	Management plans defence holdings	Nobilis	Nobilis	NOB	110000	Skov	Forest
262170	Management plans defence holdings	Omorika	Omorika	OMO	110000	Skov	Forest
262180	Management plans defence holdings	Østrigsk fyr	Austrian pine	ØSF	110000	Skov	Forest
262190	Management plans defence holdings	Rødgran	Common spruce	RGR	110000	Skov	Forest
262200	Management plans defence holdings	Sitagran	Sita spruce	SGR	110000	Skov	Forest
262210	Management plans defence holdings	Skovfyr	Scotch pine	SKF	110000	Skov	Forest
262240	Management plans defence holdings	Hvidgran	White spruce	HGR	110000	Skov	Forest
270010	Management plans defence holdings	Ager	Agricultural field	AGE	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
271010	Management plans defence holdings	Slette, Overdrev (græsset)	Grazed plain	GRÆ	801000	Lysåben tør	Nature, open, dry
271020	Management plans defence holdings	Vildtager	Crops for gaming	VAG	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
300001	Map of protected habitat types (§ 3-registration)	Fersk eng	Freshwater meadow	1_Eng	802000	Lysåben våd	Nature, open, wet
300002	Map of protected habitat types (§ 3-registration)	Hede	Heather	2_Hede	801000	Lysåben tør	Nature, open, dry
300003	Map of protected habitat types (§ 3-registration)	Mose	Mire / bog	3_Mose	802000	Lysåben våd	Nature, open, wet
300004	Map of protected habitat types (§ 3-registration)	Overdrev	Dry meadow	4_Overdrev	801000	Lysåben tør	Nature, open, dry
300005	Map of protected habitat types (§ 3-registration)	Strandeng	Coastal meadow	5_Strandeng	802000	Lysåben våd	Nature, open, wet
300006	Map of protected habitat types (§ 3-registration)	Sø	Lake	6_Sø	901000	Sø	Lake

401150	Natura2000 habitats (De-vano map)	Lagune	Coastal lagoon	1150	901000	Sø	Lake
401210	Natura2000 habitats (De-vano map)	Strandvold med enårig vegetation	Annual vegetation of drift lines	1210	801000	Lysåben tør	Nature, open, dry
401220	Natura2000 habitats (De-vano map)	Strandvold med flerårig vegetation	Perennial vegetation of stony banks	1220	801000	Lysåben tør	Nature, open, dry
401230	Natura2000 habitats (De-vano map)	Kystklint/klippe	Vegetated sea cliffs	1230	801000	Lysåben tør	Nature, open, dry
401310	Natura2000 habitats (De-vano map)	Enårig strandengs-vegetation	Annual vegetation on coastal meadow	1310	801000	Lysåben tør	Nature, open, dry
401320	Natura2000 habitats (De-vano map)	Vadegræssamfund	Sward grass	1320	802000	Lysåben våd	Nature, open, wet
401330	Natura2000 habitats (De-vano map)	Strandeng	Coastal meadow	1330	802000	Lysåben våd	Nature, open, wet
401340	Natura2000 habitats (De-vano map)	Indlandssalteng	Inland salt marsh	1340	802000	Lysåben våd	Nature, open, wet
402110	Natura2000 habitats (De-vano map)	Forklit	Embryonic shifting dunes	2110	801000	Lysåben tør	Nature, open, dry
402120	Natura2000 habitats (De-vano map)	Hvid klit	White dunes	2120	801000	Lysåben tør	Nature, open, dry
402130	Natura2000 habitats (De-vano map)	Grå/grøn klit	Grey / green dune	2130	801000	Lysåben tør	Nature, open, dry
402140	Natura2000 habitats (De-vano map)	Klithede	Dune heather	2140	801000	Lysåben tør	Nature, open, dry
402160	Natura2000 habitats (De-vano map)	Havtornklit	Dune with sea buckthorn	2160	801000	Lysåben tør	Nature, open, dry
402170	Natura2000 habitats (De-vano map)	Gråriskklit	Dunes with Salix repens	2170	801000	Lysåben tør	Nature, open, dry
402180	Natura2000 habitats (De-vano map)	Skovklit	Wooded dunes	2180	110000	Skov	Forest
402190	Natura2000 habitats (De-vano map)	Klitlavning	Dune dip	2190	801000	Lysåben tør	Nature, open, dry
402250	Natura2000 habitats (De-vano map)	Enebærklit	Dune with juniper	2250	801000	Lysåben tør	Nature, open, dry
402310	Natura2000 habitats (De-vano map)	Visse-indlandsklit	Dune with needle furze	2310	801000	Lysåben tør	Nature, open, dry
402320	Natura2000 habitats (De-vano map)	Revling-indlandsklit	Dune with crowberry	2320	801000	Lysåben tør	Nature, open, dry
402330	Natura2000 habitats (De-vano map)	Græs-indlandsklit	Inland dune with grass	2330	801000	Lysåben tør	Nature, open, dry
403130	Natura2000 habitats (De-vano map)	Søbred med småurter	Lake bank with short perennial vegetation	3130	901000	Sø	Lake

403140	Natura2000 habitats (Devano map)	Kransnålalge-sø	Lake bank with benthic vegetation of Chara spp.	3140	901000	Sø	Lake
403150	Natura2000 habitats (Devano map)	Næringsrig sø	Natural eutrophic lake	3150	901000	Sø	Lake
403160	Natura2000 habitats (Devano map)	Brunvandet sø	Natural dystrophic lake	3160	901000	Sø	Lake
404010	Natura2000 habitats (Devano map)	Våd hede	Wet dune	4010	802000	Lysåben våd	Nature, open, wet
404030	Natura2000 habitats (Devano map)	Tør hede	Dry dune	4030	801000	Lysåben tør	Nature, open, dry
405130	Natura2000 habitats (Devano map)	Enekrat	Dune with juniper	5130	801000	Lysåben tør	Nature, open, dry
406120	Natura2000 habitats (Devano map)	Tør overdrev på kalkholdigt sand	Dry meadow on lime sand	6120	801000	Lysåben tør	Nature, open, dry
406210	Natura2000 habitats (Devano map)	Kalkoverdrev	Dry meadow on limestone	6210	801000	Lysåben tør	Nature, open, dry
406230	Natura2000 habitats (Devano map)	Surt overdrev	Acid dry meadow	6230	801000	Lysåben tør	Nature, open, dry
406410	Natura2000 habitats (Devano map)	Tidvis våd eng	Periodically wet meadow	6410	802000	Lysåben våd	Nature, open, wet
407110	Natura2000 habitats (Devano map)	Højmose	Raised bog	7110	802000	Lysåben våd	Nature, open, wet
407120	Natura2000 habitats (Devano map)	Nedbrudt højmose	Degraded raised bog	7120	802000	Lysåben våd	Nature, open, wet
407140	Natura2000 habitats (Devano map)	Hængesæk	Bog	7140	802000	Lysåben våd	Nature, open, wet
407150	Natura2000 habitats (Devano map)	Tørvelavning	Peat dip	7150	802000	Lysåben våd	Nature, open, wet
407210	Natura2000 habitats (Devano map)	Avneknippemose	Bog with twig rush	7210	802000	Lysåben våd	Nature, open, wet
407220	Natura2000 habitats (Devano map)	Kildevæld	Spring	7220	802000	Lysåben våd	Nature, open, wet
407230	Natura2000 habitats (Devano map)	Rigkær	Rich pond	7230	802000	Lysåben våd	Nature, open, wet
408220	Natura2000 habitats (Devano map)	Indlandsklippe	Inland cliff	8220	801000	Lysåben tør	Nature, open, dry
409110	Natura2000 habitats (Devano map)	Bøg på mor	Beech on mor	9110	110000	Skov	Forest
409120	Natura2000 habitats (Devano map)	Bøg på mor med kristtorn	Beech on mor with holly	9120	110000	Skov	Forest
409130	Natura2000 habitats (Devano map)	Bøg på muld	Beech on mor	9130	110000	Skov	Forest

409150	Natura2000 habitats (Devano map)	Bøg på kalk	Beech on limestone	9150		110000	Skov	Forest
409160	Natura2000 habitats (Devano map)	Ege-blandskov	Oak or oak-hornbeam forest	9160		110000	Skov	Forest
409170	Natura2000 habitats (Devano map)	Vinteregeskov	Winter oak-hornbeam forest	9170		110000	Skov	Forest
409190	Natura2000 habitats (Devano map)	Stilkege-krat	Old acidophilous oak wood	9190		110000	Skov	Forest
409998	Natura2000 habitats (Devano map)	Skovbevokset tørvemose	Forest on peat bog	9998		110000	Skov	Forest
409999	Natura2000 habitats (Devano map)	Elle- og askeskov	Alder and ash forest	9999		110000	Skov	Forest
521001	Topographical database (kort 10)	Vej motorvej	Highway	2100	Motorvej	300000	Vej	Road
521002	Topographical database (kort 10)	Vej motortrafikvej	Secondary highway	2100	Motortrafikvej	300000	Vej	Road
521003	Topographical database (kort 10)	Vej over	Road > 6 m	2100	Over 6 m	300000	Vej	Road
521004	Topographical database (kort 10)	Vej 3 - 6 m	Road 3-6 m	2100	3 - 6 m	300000	Vej	Road
521005	Topographical database (kort 10)	Vej anden	Road other	2100	Anden	300000	Vej	Road
523122	Topographical database (kort 10)	Jernbane synlig	Railway visible	2312	Synlig	400000	Jernbane	Rail
524390	Topographical database (kort 10)	Havn	Harbour	2439		100000	Andet bebygget	Other build-up
525431	Topographical database (kort 10)	Landbane ikke tildelt	Runway, not specified	2543	Ikke tildelt	203000	Lufthavn / landingsbane	Airport / runway
525432	Topographical database (kort 10)	Landbane plads	Runway, parking	2543	Plads	203000	Lufthavn / landingsbane	Airport / runway
525433	Topographical database (kort 10)	Landbane start landing	Runway, take-off/landing	2543	Start landing	203000	Lufthavn / landingsbane	Airport / runway
525434	Topographical database (kort 10)	Landbane taxivej	Runway, taxiway	2543	Taxivej	203000	Lufthavn / landingsbane	Airport / runway
525435	Topographical database (kort 10)	Landbane ukendt	Runway, unknown	2543	Ukendt	203000	Lufthavn / landingsbane	Airport / runway
527001	Topographical database (kort 10)	Teknisk areal affaldsanlæg	Technical area, waste plant	2700	Affaldsanlæg	100000	Andet bebygget	Other build-up
527002	Topographical database (kort 10)	Teknisk areal energiforsyningsanlæg	Technical area, energy supply plant	2700	Energiforsyningsanlæg	100000	Andet bebygget	Other build-up
527003	Topographical database (kort 10)	Teknisk areal genbrugsplads	Technical area, recycling depot	2700	Genbrugsplads	100000	Andet bebygget	Other build-up

527004	Topographical database (kort 10)	Teknisk areal ikke tildelt	Technical area, not specified	2700	Ikke tildelt	100000	Andet bebygget	Other build-up
527005	Topographical database (kort 10)	Teknisk areal materialegård	Technical area, material storage	2700	Materialegård	100000	Andet bebygget	Other build-up
527006	Topographical database (kort 10)	Teknisk areal militært anlæg	Technical area, military site	2700	Militært anlæg	100000	Andet bebygget	Other build-up
527007	Topographical database (kort 10)	Teknisk areal parke-ringsanlæg	Technical area, car park	2700	Parkeringsanlæg	100000	Andet bebygget	Other build-up
527008	Topographical database (kort 10)	Teknisk areal togstation rangeranlæg	Technical area, railway	2700	Togstation rangeran-læg	400000	Jernbane	Rail
527009	Topographical database (kort 10)	Teknisk areal ukendt	Technical area, unknown	2700	Ukendt	100000	Andet bebygget	Other build-up
527010	Topographical database (kort 10)	Teknisk areal vand-rensningsanlæg	Technical area, wastewater treatment plant	2701	Vandrensningsan-læg	100000	Andet bebygget	Other build-up
527011	Topographical database (kort 10)	Teknisk areal vandværk	Technical area, waterworks	2701	Vandværk	100000	Andet bebygget	Other build-up
527012	Topographical database (kort 10)	Teknisk areal vindmøllepark	Technical area, wind energy park	2701	Vindmøllepark	204000	Vindmøllepark	Wind energy park
527013	Topographical database (kort 10)	Lufthavn	Airport	2701		203000	Lufthavn / landingsba-ne	Airport / runway
527191	Topographical database (kort 10)	Bassin andet	Basin, other	2719	Andet	100000	Andet bebygget	Other build-up
527192	Topographical database (kort 10)	Bassin ikke tildelt	Basin, not specified	2719	Ikke tildelt	100000	Andet bebygget	Other build-up
527193	Topographical database (kort 10)	Bassin overløbsanlæg	Basin, overflow	2719	Overløbsanlæg	100000	Andet bebygget	Other build-up
527194	Topographical database (kort 10)	Bassin rensningsanlæg	Basin, wastewater treatment plant	2719	Rensningsanlæg	100000	Andet bebygget	Other build-up
527195	Topographical database (kort 10)	Bassin svømmebassin	Basin, swimming pool	2719	Svømmebassin	100000	Andet bebygget	Other build-up
527196	Topographical database (kort 10)	Bassin ukendt	Basin, unknown	2719	Ukendt	100000	Andet bebygget	Other build-up
531130	Topographical database (kort 10)	Bykerne	City centre	3113		103000	Bykerne	City centre
531160	Topographical database (kort 10)	Industri	Industry	3116		201000	Industri	Industry
531170	Topographical database (kort 10)	Lav bebyggelse	Low build-up	3117		101000	Lav bebyggelse	Low build-up
531180	Topographical database (kort 10)	Høj bebyggelse	High build-up	3118		102000	Høj bebyggelse	High build-up
531190	Topographical database (kort 10)	Rekreativt område	Recreation area	3119		600000	Rekreativt område / sportsanlæg	Recreation area

551301	Topographical database (kort 10)	Råstof aktivt område	Gravel pit, active	5130	Aktivt område	500000	Råstofudvinding	Resource extraction
551302	Topographical database (kort 10)	Råstof ikke tildelt	Gravel pit, unknown	5130	Ikke tildelt	500000	Råstofudvinding	Resource extraction
555000	Topographical database (kort 10)	Sportsanlæg	Sports ground	5500		600000	Rekreativt område / sportsanlæg	Recreation area
560000	Topographical database (kort 10)	Land	Land	6000		999000	Ikke kortlagt	Unclassified
561190	Topographical database (kort 10)	Skov	Forest	6119		110000	Skov	Forest
561340	Topographical database (kort 10)	Gartneri	Horticulture	6134		701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
561391	Topographical database (kort 10)	Hede ikke tildelt	Heather, not specified	6139	Ikke tildelt	801000	Lysåben tør	Nature, open, dry
561392	Topographical database (kort 10)	Hede lynghede	Heather	6139	Lynghede	801000	Lysåben tør	Nature, open, dry
561420	Topographical database (kort 10)	Sand Klit	Sand / dune	6142		801000	Lysåben tør	Nature, open, dry
561590	Topographical database (kort 10)	Vådområde	Wetland	6159		802000	Lysåben våd	Nature, open, wet
563290	Topographical database (kort 10)	Kirkegård	Cemetery	6329		600000	Rekreativt område / sportsanlæg	Recreation area
570000	Topographical database (kort 10)	Hav	Sea	7000		900000	Hav	Sea
572191	Topographical database (kort 10)	Sø fiskedam	Lake, fishpond	7219	Fiskedam	901000	Sø	Lake
572193	Topographical database (kort 10)	Sø sø	Lake, lake	7219	Sø	901000	Sø	Lake
572194	Topographical database (kort 10)	Sø ukendt	Lake, unknown	7219	Ukendt	901000	Sø	Lake
573180	Topographical database (kort 10)	Vandløb	Stream	7318		902000	Vandløb	Stream
600001	Field parcel map	Vårbyg	Spring barley	1		701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600002	Field parcel map	Vårhvede	Spring wheat	2		701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600003	Field parcel map	Vårhavre	Oat	3		701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600004	Field parcel map	Blanding af vårsåede kornarter	Other spring cereal	4		701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600005	Field parcel map	Majs til modenhed	Maize to maturity	5		701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop

600006	Field parcel map	Vårhvede, brødhvede	Spring wheat, near cereal	6	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600007	Field parcel map	Korn + bælgsæd under 50% bælgsæd	Cereal/pulse, max. 50% pulse	7	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600010	Field parcel map	Vinterbyg	Winter barley	10	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600011	Field parcel map	Vinterhvede	Winter wheat	11	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600013	Field parcel map	Vinterhvede, brødhvede	Wither wheat, near cereal	13	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600014	Field parcel map	Vinterrug	Winter rye	14	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600015	Field parcel map	Vinterhybridrug	Hybrid rye	15	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600016	Field parcel map	Vintertriticale	Triticale	16	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600017	Field parcel map	Blanding af efterårs-såede kornarter	Other winter cereals	17	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600021	Field parcel map	Vårraps	Spring rape	21	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600022	Field parcel map	Vinterraps	Winter rape	22	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600023	Field parcel map	Rybs	Rape	23	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600024	Field parcel map	Solsikke	Sunflower	24	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600025	Field parcel map	Sojabønner	Soy bean	25	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600030	Field parcel map	Ærter	Pea	30	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600031	Field parcel map	Hestebønner	Broad bean	31	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600032	Field parcel map	Sødlupin	Lupine	32	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600035	Field parcel map	Bælgsæd, flerårig blanding	Pulse seed, perennial	35	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600036	Field parcel map	Bælgsæd, andre typer til modenhed blanding	Other pulse seed to maturity	36	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600040	Field parcel map	Oliehør	Flax grown as an oilseed crop	40	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600042	Field parcel map	Hamp	Hemp	42	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop

600051	Field parcel map	Blanding bredbladet afgrøde, frø/kerne	Mixture of wide-leaf crops	51	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600052	Field parcel map	Quinoa	Quinoa	52	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600053	Field parcel map	Boghvede	Buckwheat	53	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600054	Field parcel map	Bælgsæd blanding	Pulse seed, mixture	54	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600055	Field parcel map	Vårrug	Spring rye	55	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600056	Field parcel map	Vårtriticale	Spring triticale	56	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600057	Field parcel map	Vinterhavre	Winter oat	57	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600101	Field parcel map	Rajgræsfrø, alm.	Rai grass seed	101	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600102	Field parcel map	Rajgræsfrø, alm. 1. år, efterårsudlagt	Rai grass seed, fall planted	102	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600103	Field parcel map	Rajgræsfrø, ital.	Italian rai grass seed	103	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600104	Field parcel map	Rajgræsfrø, ital. 1. år efterårsudlagt	Italian rai grass seed, fall planted	104	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600105	Field parcel map	Timothefrø	Timothy seed	105	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600106	Field parcel map	Hundegræsfrø	Orchard grass seed	106	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600107	Field parcel map	Engsvingelfrø	Fescue grass seed	107	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600108	Field parcel map	Rødsvingelfrø	Red fescue seed	108	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600109	Field parcel map	Rajsvingelfrø	Festulolium	109	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600110	Field parcel map	Svingelfrø, stivbladet	Stiff-leaved festuca seed	110	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600111	Field parcel map	Svingelfrø, strand	Festuca littorea seed	111	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600112	Field parcel map	Engrapgræsfrø (marktype)	Smooth meadow grass seed (field type)	112	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600113	Field parcel map	Engrapsgræsfrø (plænetype)	Smooth meadow grass seed (lawn type)	113	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600114	Field parcel map	Rapgræsfrø, alm.	Meadow grass seed	114	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop

600115	Field parcel map	Hvenefrø, alm. og krybende	Brown top/bent grass seed	115	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600116	Field parcel map	Rajgræs, hybrid	Rai grass, hybrid	116	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600117	Field parcel map	Rajgræs, efterårsudl. hybrid	Rai grass seed, fall planted, hybrid	117	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600118	Field parcel map	Rajsvingelfrø, efterårsudlagt	Festulolium, autumn planted	118	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600120	Field parcel map	Kløverfrø	Clover seed	120	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600121	Field parcel map	Græsmarksbælgplanter	Grass field pulses	121	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600122	Field parcel map	Kommenfrø	Caraway seed	122	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600123	Field parcel map	Valmuefrø	Poppy seed	123	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600124	Field parcel map	Spinatfrø	Spinach seed	124	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600125	Field parcel map	Bederoefrø	Beet seed	125	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600126	Field parcel map	Blanding af markfrø til udsæd	Other seed for sowing	126	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600150	Field parcel map	Kartofler, lægge-	Seed potato	150	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600151	Field parcel map	Kartofler, stivelses-	Starch potato	151	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600152	Field parcel map	Kartofler, spise-	Potato for consumption	152	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600153	Field parcel map	Kartofler, andre	Potato other	153	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600160	Field parcel map	Sukkerroer til fabrik	Beet for industry	160	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600161	Field parcel map	Cikorierødder	Chicory root	161	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600162	Field parcel map	Blanding, andre industriafgr.	Other crop/root crop for industry	162	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600170	Field parcel map	Græs til fabrik (omdrift)	Grass/clover for industry	170	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600171	Field parcel map	Lucerne, slæt	Lucerne for harvest and own fodder	171	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop

600172	Field parcel map	Lucernegræs, over 25 % græs til slæt inkl. eget foder	Lucerne for harvest and own fodder, min. 25% grass	172	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600173	Field parcel map	Kløver til slæt	Clover for harvest	173	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600174	Field parcel map	Kløvergræs til fabrik	Clover for industry	174	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600180	Field parcel map	Gul sennep	White mustard	180	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600182	Field parcel map	Blanding af oliearter	Mixture of oil seeds	182	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600210	Field parcel map	Vårbyg, helsæd	Spring barley, whole crop	210	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600211	Field parcel map	Vårhvede, helsæd	Spring wheat, whole crop	211	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600212	Field parcel map	Vårhavre, helsæd	Oat, whole crop	212	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600213	Field parcel map	Blandkorn, vårsået, helsæd	Dredge corn, spring planted	213	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600214	Field parcel map	Korn og bælgsæd, helsæd, under 50% bælgsæd	Cereal, pulse, whole crop max. 50% pulse	214	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600215	Field parcel map	Ærtehelsæd	Pea, whole crop	215	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600216	Field parcel map	Silomajs	Silo maize	216	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600220	Field parcel map	Vinterbyg, helsæd	Winter barley, whole crop	220	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600221	Field parcel map	Vinterhvede, helsæd	Winter wheat, whole crop	221	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600222	Field parcel map	Vinterrug, helsæd	Winter rye, whole crop	222	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600223	Field parcel map	Vintertriticale, helsæd	Winter triticale, whole crop	223	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600224	Field parcel map	Blandkorn, efterårssået helsæd	Dredge corn, fall planted, whole crop	224	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600230	Field parcel map	Blanding af vårkorn, grønkorn	Spring cereal, green grain	230	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600234	Field parcel map	Korn og bælgsæd, grønkorn, under 50% bælgsæd	Cereal/pulse, green grain. max. 50% pulse	234	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop

600235	Field parcel map	Blanding af vinterkorn, grønkorn	Winter cereal, green grain	235	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600247	Field parcel map	Miljøgræs MVJ-tilsagn (0 N), omdrift	Environmental grass (0 N), in rotation	247	703000	Landbrug ekstensivt	Agriculture, extensive
600248	Field parcel map	Permanent græs ved vandboring	Permanent grass at water drilling	248	703000	Landbrug ekstensivt	Agriculture, extensive
600249	Field parcel map	Udnyttet græs ved vandboring	Cultivated grass at water drilling	249	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600250	Field parcel map	Permanent græs, meget lavt udbytte	Permanent grass, very low yield	250	703000	Landbrug ekstensivt	Agriculture, extensive
600251	Field parcel map	Permanent græs, lavt udbytte	Permanent grass, low yield	251	703000	Landbrug ekstensivt	Agriculture, extensive
600252	Field parcel map	Permanent græs, normalt udbytte	Permanent grass, normal yield	252	703000	Landbrug ekstensivt	Agriculture, extensive
600253	Field parcel map	Miljøgræs MVJ-tilsagn (80 N), omdrift	Environmental grass (max 80 ton N)	253	703000	Landbrug ekstensivt	Agriculture, extensive
600254	Field parcel map	Miljøgræs MVJ-tilsagn (0 N), permanent	Environmental grass (0 N)	254	703000	Landbrug ekstensivt	Agriculture, extensive
600255	Field parcel map	Permanent græs, under 50 kløver/lucerne	Permanent grass, <50% clover	255	703000	Landbrug ekstensivt	Agriculture, extensive
600256	Field parcel map	Permanent kløvergræs, over 50 % kløver/lucerne	Permanent grass, >50% clover	256	703000	Landbrug ekstensivt	Agriculture, extensive
600257	Field parcel map	Permanent græs, uden kløver	Permanent grass, no clover	257	703000	Landbrug ekstensivt	Agriculture, extensive
600259	Field parcel map	Permanent græs, fabrik, over 6 tons	Permanent grass for industry, min. 6 tons yield	259	703000	Landbrug ekstensivt	Agriculture, extensive
600260	Field parcel map	Græs med kløver/lucerne, under 50 % bælgpl. (omdrift)	Clover grass, <50% clover	260	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600261	Field parcel map	Kløvergræs, over 50 % kløver (omdrift)	Clover grass, >50% clover	261	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600262	Field parcel map	Lucerne, lucernegræs, over 50 % lucerne (omdrift)	Lucerne, lucerne grass >50% lucerne	262	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600263	Field parcel map	Græs uden kløvergræs (omdrift)	Grass without clover	263	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600264	Field parcel map	Græs og kløvergræs uden norm, under 50 % kløver (omdrift)	Grass and clover grass without N-norm	264	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600266	Field parcel map	Græs under 50 % kløver/lucerne, ekstremt lavt udbytte (omdrift)	Grass <50% clover, extremely low yield	266	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop

600267	Field parcel map	Græs under 50 % kløver/lucerne, meget lavt udbytte (omdrift)	Grass <50% clover, very low yield	267	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600268	Field parcel map	Græs under 50 % kløver/lucerne, lavt udbytte (omdrift)	Grass <50% clover, low yield	268	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600269	Field parcel map	Græs, rullegræs	Turf	269	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600270	Field parcel map	Græs til udegrise, omdrift	Grass for outdoor pigs, in rotation	270	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600271	Field parcel map	Rekreative formål	Areas for recreation purposes	271	703000	Landbrug ekstensivt	Agriculture, extensive
600272	Field parcel map	Permanent græs til fabrik	Permanent grass for industry	272	703000	Landbrug ekstensivt	Agriculture, extensive
600273	Field parcel map	Permanent lucerne til fabrik	Permanent lucerne for industry	273	703000	Landbrug ekstensivt	Agriculture, extensive
600274	Field parcel map	Permanent lucernegræs over 25 % græs, til fabrik	Permanent lucerne, min 25% for industry	274	703000	Landbrug ekstensivt	Agriculture, extensive
600276	Field parcel map	Permanent græs og kløvergræs uden norm, under 50 % kløver	Permanent grass/clover grass without N-norm, <50% clover	276	703000	Landbrug ekstensivt	Agriculture, extensive
600277	Field parcel map	Permanent kløver til fabrik	Permanent clover for industry	277	703000	Landbrug ekstensivt	Agriculture, extensive
600278	Field parcel map	Permanent lucerne og lucernegræs over 50 % lucerne	Permanent grass and lycerne grass >50% lucerne	278	703000	Landbrug ekstensivt	Agriculture, extensive
600279	Field parcel map	Permanent græs til fabrik	Permanent grass for industry	279	703000	Landbrug ekstensivt	Agriculture, extensive
600280	Field parcel map	Fodersukkerroer	Sugar cane, fodder	280	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600281	Field parcel map	Kålroer	Swede	281	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600282	Field parcel map	Fodermarvkål	Marrow-stem kale	282	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600283	Field parcel map	Fodergulerødder	Carrot, fodder	283	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600284	Field parcel map	Græs med vikke og andre bælgplanter, under 50 % bælgpl.	Grass with pulses, >50 % pulses	284	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600285	Field parcel map	Græs og kløvergræs uden norm, over 50 % kløver (omdrift)	Grass and clover without N-norm, >50 % clover (in rotation)	285	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop

600286	Field parcel map	Permanent græs og kløvergræs uden norm, over 50 % kløver	Permanent grass and clover grass wihtout N-norm, >50 % clover	286	703000	Landbrug ekstensivt	Agriculture, extensive
600287	Field parcel map	Græs til udegrise, permanent	Grass for outdoor pigs, permanent	287	703000	Landbrug ekstensivt	Agriculture, extensive
600305	Field parcel map	Permanent græs, uden udbetaling af økologi-tilskud	Permanent grass without payment of subsidies for organic management	305	703000	Landbrug ekstensivt	Agriculture, extensive
600308	Field parcel map	MFO-Slåningsbrak	Environmental focus area with fallow for mowing	308	703000	Landbrug ekstensivt	Agriculture, extensive
600309	Field parcel map	Udyrket areal ved vand-boring	Uncultivated area at water drilling	309	703000	Landbrug ekstensivt	Agriculture, extensive
600310	Field parcel map	Slåningsbrak	Fallow for mowing	310	703000	Landbrug ekstensivt	Agriculture, extensive
600311	Field parcel map	Skovrejsning på tidl. landbrugsjord 1	Afforestation on former agricultural land	311	110110	Skov markkort / mark-blokkort	
600312	Field parcel map	20-årig udtagning	20 years set-aside	312	703000	Landbrug ekstensivt	Agriculture, extensive
600313	Field parcel map	20-årig udtagning af agerjord med frivillig skovrejsning	20 years set-aside with voluntary afforestation	313	110110	Skov markkort / mark-blokkort	Forest, field parcel map / field block map
600314	Field parcel map	20-årig udtagning med tilsagn om skovrejsning fra NST	20 years set-aside with approval for afforestation	314	110110	Skov markkort / mark-blokkort	Forest, field parcel map / field block map
600316	Field parcel map	Vådområder eller lav-bundsjorde med udtag-ning	Wetland or low-lying areas with set-aside	316	703000	Landbrug ekstensivt	Agriculture, extensive
600317	Field parcel map	Vådområder med udtag-ning	Wetland for set-aside	317	703000	Landbrug ekstensivt	Agriculture, extensive
600318	Field parcel map	MVJ ej udtagning, ej landbrugsjord	Agri-envrionmental scheme, not agricultural land	318	703000	Landbrug ekstensivt	Agriculture, extensive
600319	Field parcel map	MFO Vådområder eller lavbundsjorde med udtagning	Agri-envrionmental scheme, not agricultural land	319	703000	Landbrug ekstensivt	Agriculture, extensive
600320	Field parcel map	Braklagte randzoner	Fallow in marginal zones	320	703000	Landbrug ekstensivt	Agriculture, extensive
600321	Field parcel map	Miljøtiltag, ej landbrugs-arealer	Environmental initiative, not agricultural land	321	703000	Landbrug ekstensivt	Agriculture, extensive
600323	Field parcel map	MFO-udyrket areal ved vandboring	Environmental focus area at water drilling	323	703000	Landbrug ekstensivt	Agriculture, extensive
600324	Field parcel map	Blomsterbrak	Flower fallow	324	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop

600325	Field parcel map	MFO-Blomsterbrak	Environmental focus area with flower fallow	325	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600360	Field parcel map	Vildtafgrøder	Crops for gaming	360	703000	Landbrug ekstensivt	Agriculture, extensive
600361	Field parcel map	Ikke støtteberettiget landbrugsareal	Agricultural land, not eligible for subsidies	361	703000	Landbrug ekstensivt	Agriculture, extensive
600400	Field parcel map	Asier	Gherkins	400	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600401	Field parcel map	Asparges	Asparagus	401	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600402	Field parcel map	Bladselleri	Celery	402	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600403	Field parcel map	Blomkål	Cauliflower	403	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600404	Field parcel map	Broccoli	Broccoli	404	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600405	Field parcel map	Courgette, squash	Courgette, squash	405	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600406	Field parcel map	Grønkål	Borecole	406	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600407	Field parcel map	Gulerod	Carrot	407	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600408	Field parcel map	Hvidkål	Cabbage	408	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600409	Field parcel map	Kinakål	Chinese cabbage	409	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600410	Field parcel map	Knoldselleri	Celeriac, turnip-rooted celery	410	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600411	Field parcel map	Løg	Onion	411	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600412	Field parcel map	Pastinak	Parsnip	412	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600413	Field parcel map	Rodpersille	Hamburg parsley	413	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600415	Field parcel map	Porre	Leek	415	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600416	Field parcel map	Rosenkål	Sprouts	416	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600417	Field parcel map	Rødbede	Beetroot	417	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600418	Field parcel map	Rødkål	Red cabbage	418	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600420	Field parcel map	Salat (friland)	Salad, outdoors	420	701000	Landbrug intensivt,	Agriculture intensive,

						midlertidige afgrøder	temporary crop
600421	Field parcel map	Savoykål, spidskål	Savoy cabbage, pointed cabbage	421	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600422	Field parcel map	Spinat	Spinach	422	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600423	Field parcel map	Sukkermajs	Sweet corn	423	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600424	Field parcel map	Ærter, konsum	Peas for consumption	424	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600429	Field parcel map	Jordskokker, konsum	Jerusalem artichoke for consumption	429	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600430	Field parcel map	Bladpersille	Leaf parsley	430	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600431	Field parcel map	Purløg	Chive	431	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600432	Field parcel map	Krydderurter (undtagen persille og purløg)	Herb, aromatic plant, with subsidy	432	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600434	Field parcel map	Grøntsager, andre (friland)	Vegetable, other, outdoors	434	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600440	Field parcel map	Solhat	Echinacea Purpurea	440	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600448	Field parcel map	Medicinpl., en- og toårige	Medicine plant, annual and biennial	448	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600449	Field parcel map	Medicinpl., stauder	Medicine plant, perennial	449	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, temporary crop
600450	Field parcel map	Grøntsager, blandinger	Vegetable, other	450	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600487	Field parcel map	Skovlandbrug	Agroforestry	487	110110	Skov markkort / mark-blokkort	Forest, field parcel map / field block map
600488	Field parcel map	Hønsegård, permanent græs	Chicken yard, permanent grass	488	703000	Landbrug ekstensivt	Agriculture, extensive
600489	Field parcel map	Havtorn	Buckthorn	489	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600491	Field parcel map	Storfrugtet tranebær	Cranberry, large fruits	491	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600493	Field parcel map	Surbær	Chokeberry	493	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600496	Field parcel map	Medicinpl., vedplanter	Medicine plants woody	496	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600497	Field parcel map	Planteskolekulturer, vedplanter, til videresalg	Nursery, woody plants for sale	497	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops

600498	Field parcel map	Containerplads 4, vedplanter	Container site 4, woody plants	498	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600499	Field parcel map	Lukket system 3, vedplanter	Closed system 3, woody plants	499	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600501	Field parcel map	Stauder	Herbaceous perennial	501	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600502	Field parcel map	Blomsterløg	Bulb	502	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600503	Field parcel map	En- og to-årige planter	Annual and biennial plants	503	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600504	Field parcel map	Solbær, stiklinge-opformering	Blackcurrant, cuttings	504	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600505	Field parcel map	Ribs, stiklinge-opformering	Redcurrant, cuttings	505	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600507	Field parcel map	Hindbær, stiklinge-opformering	Raspberry, cuttings	507	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600509	Field parcel map	Trækvæde	Quince	509	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600512	Field parcel map	Rabarber	Rhubarb	512	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600513	Field parcel map	Jordbær	Strawberry	513	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600514	Field parcel map	Solbær	Blackcurrant	514	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600515	Field parcel map	Ribs	Redcurrant	515	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600516	Field parcel map	Stikkelsbær	Gooseberry	516	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600517	Field parcel map	Brombær	Blackberry	517	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600518	Field parcel map	Hindbær	Raspberry	518	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600519	Field parcel map	Blåbær	Blueberry	519	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600520	Field parcel map	Surkirsebær uden under-vækst af græs	Cherry without under-growth	520	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600521	Field parcel map	Surkirsebær med under-vækst af græs	Cherry with undergrowth	521	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600522	Field parcel map	Blomme uden under-vækst af græs	Plum without undergrowth	522	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600523	Field parcel map	Blomme med under-vækst af græs	Plum with undergrowth	523	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops

600524	Field parcel map	Sødkirsebær uden undervækst af græs	Sweet cherry without undergrowth	524	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600525	Field parcel map	Sødkirsebær med undervækst af græs	Sweet cherry with undergrowth	525	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600526	Field parcel map	Hyld	Elder	526	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600527	Field parcel map	Hassel	Hazel	527	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600528	Field parcel map	Æbler	Apple	528	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600529	Field parcel map	Pærer	Pear	529	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600530	Field parcel map	Vindrue	Grape	530	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600531	Field parcel map	Anden træfrugt	Other tree fruit	531	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600532	Field parcel map	Anden buskfrugt	Other bush fruit	532	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600533	Field parcel map	Rønnebær	Rowanberry	533	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600534	Field parcel map	Hyben	Hip	534	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600536	Field parcel map	Spisedruer	Grapes for consumption	536	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600539	Field parcel map	Blandet frugt	Mixed fruits	539	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600540	Field parcel map	Tomater	Tomatoes	540	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600541	Field parcel map	Agurker	Cucumber	541	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600542	Field parcel map	Salat (drivhus)	Lettuce (greenhouse)	542	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600543	Field parcel map	Grøntsager, andre (drivhus)	Other vegetables	543	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600544	Field parcel map	Snitblomster og snitgrønt	Cut flower/sprigs	544	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600545	Field parcel map	Potteplanter	Pot plants	545	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600547	Field parcel map	Planteskolekulturer, stauder	Nursery, perennial/woody plants	547	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600548	Field parcel map	Småplanter, en-årige	Minor plants, annual	548	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop

600549	Field parcel map	Lukket system 1, en-årige	Closed system, annual	549	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600550	Field parcel map	Lukket system 2, stauder	Closed system, perennial/woody plants	550	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600551	Field parcel map	Moskusgræskar	Musk pumpkin	551	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600552	Field parcel map	Mandelgræskar	Almond pumpkin	552	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600553	Field parcel map	Centnergræskar	Bitter pumpkin	553	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600560	Field parcel map	Containerplads 1, frugtbuske	Container, fruit bush	560	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, temporary crop
600561	Field parcel map	Containerplads 2, en-årige	Container, annual	561	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600563	Field parcel map	Svampe, champignon	Mushroom	563	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600570	Field parcel map	Humle	Hop	570	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, temporary crop
600579	Field parcel map	Tagetes, sygdomssanerende plante	Tagetes	579	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600580	Field parcel map	Skovdrift, alm.	Forestry, common	580	110110	Skov markkort / markblokkort	Forest, field parcel map / field block map
600581	Field parcel map	Nyplantning i skov med træhøjde under 3 m	Young plantation in forest with tree height under 3 m	581	110110	Skov markkort / markblokkort	Forest, field parcel map / field block map
600582	Field parcel map	Pyntegrønt, økologisk jordbrug	Decorative greenery, organic	582	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600583	Field parcel map	Juletræer og pyntegrønt på landbrugsjord	Christmas tree, decorative greenery	583	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600585	Field parcel map	Skovrejsning i projektområde, som ikke er omfattet af tilsagn	Christmas tree, decorative greenery on agricultural land	585	110110	Skov markkort / markblokkort	Forest, field parcel map / field block map
600586	Field parcel map	Offentlig skovrejsning	Public afforestation	586	110110	Skov markkort / markblokkort	Forest, field parcel map / field block map
600587	Field parcel map	Skovrejsning på tidl. landbrugsjord 3	Afforestation on former agricultural land	587	110110	Skov markkort / markblokkort	Forest, field parcel map / field block map
600588	Field parcel map	Statslig skovrejsning	State afforestation	588	110110	Skov markkort / markblokkort	Forest, field parcel map / field block map
600589	Field parcel map	Bæredygtig skovdrift	Sustainable afforestation	589	110110	Skov markkort / markblokkort	Forest, field parcel map / field block map
600590	Field parcel map	Bæredygtig skovdrift i Natura 2000-område	Sustainable afforestation within Natura2000 designation	590	110110	Skov markkort / markblokkort	Forest, field parcel map / field block map

600591	Field parcel map	Lavskov	Coppice forest	591	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600592	Field parcel map	Pil	Willow	592	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600593	Field parcel map	Poppel	Poplar	593	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600594	Field parcel map	El	Alder	594	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600596	Field parcel map	Elefantgræs	Elephant grass	596	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600597	Field parcel map	Rørgræs	Reed grass	597	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600602	Field parcel map	MFO - Pil	Willow on environmental focus sites	602	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600603	Field parcel map	MFO - Poppel	Poplar on environmental focus sites	603	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600604	Field parcel map	MFO - El	Alder on environmental focus sites	604	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600605	Field parcel map	MFO - Lavskov	Coppice on environmental focus sites	605	702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
600650	Field parcel map	Krysantemum Garland, frø	Chrysanthemum Garland	650	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600651	Field parcel map	Dildfrø	Dill seed	651	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600652	Field parcel map	Kinesisk kålfrø	Chinese kale seed	652	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600653	Field parcel map	Karsefrø	Cress seed	653	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600654	Field parcel map	Rucolafrø	Roquette seeds	654	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600655	Field parcel map	Radisefrø (inklusiv olieræddikefrø)	Radish seed	655	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600656	Field parcel map	Bladbedefrø, rødbedefrø	Leaf beet seed, beetroot seed	656	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600657	Field parcel map	Grønkålfrø	Borecole seed	657	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600658	Field parcel map	Gulerodsfrø	Carrot seed	658	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600659	Field parcel map	Kålfrø (hvid- og rødkål)	Cabbage seed, red and white cabbage seed	659	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600660	Field parcel map	Persillefrø	Parsley seed	660	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop

600661	Field parcel map	Kørvelfrø	Chervil seed	661	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600662	Field parcel map	Majroefrø	Early garden turnip seed	662	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600663	Field parcel map	Pastinakfrø	Parsnip seed	663	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600664	Field parcel map	Skorzonerrodfrø	Viper's grass seed	664	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600666	Field parcel map	Purløgsfrø	Chive seed	666	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600667	Field parcel map	Timianfrø	Thyme seed	667	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600668	Field parcel map	Blomsterfrø	Flower seed	668	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600701	Field parcel map	Grønkorn af vårbyg	Green grain from spring barley	701	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600702	Field parcel map	Grønkron af vårhvede	Green grain from spring wheat	702	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600703	Field parcel map	Grønkorn af vårhavre	Green grain from spring oat	703	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600704	Field parcel map	Grønkorn af vårrug	Green grain from spring rye	704	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600705	Field parcel map	Grønkorn af vårtriticale	Green grain from spring triticale	705	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600706	Field parcel map	Grønkorn af vinterbyg	Green grain from winter barley	706	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600707	Field parcel map	Grønkorn af vinterhvede	Green grain from winter wheat	707	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600708	Field parcel map	Grønkorn af vinterhavre	Green grain from winter oat	708	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600709	Field parcel map	Grønkorn af vinterrug	Green grain from winter rye	709	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600710	Field parcel map	Grønkorn af hybridrug	Green grain from hybrid seed	710	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600711	Field parcel map	Grønkorn af vintertriticale	Green grain from winter triticale	711	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600900	Field parcel map	Øvrige afgrøder	Other cop	900	701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
600903	Field parcel map	Lysåbne arealer i skov	Open nature in protected forest	903	703000	Landbrug ekstensivt	Agriculture, extensive
600905	Field parcel map	Anden anvendelse på tilsagnsarealer	Other land use on land with environmental subsidies	905	703000	Landbrug ekstensivt	Agriculture, extensive

600907	Field parcel map	Naturarealer, økologisk jordbrug	Organic nature area	907		703000	Landbrug ekstensivt	Agriculture, extensive
600908	Field parcel map	Naturarealer, ansøgning om miljøtilsagn	Nature area, application for environmental subsidies	908		703000	Landbrug ekstensivt	Agriculture, extensive
600920	Field parcel map	Økologisk sommerbrak	Organic summer fallow	920		703000	Landbrug ekstensivt	Agriculture, extensive
600921	Field parcel map	Bar jord	Bare soil	921		701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
700001	Field block map	Landbrug intensivt, midlertidige afgrøder, markblokkort	Agriculture, periodical crop, field block map	none		701000	Landbrug intensivt, midlertidige afgrøder	Agriculture intensive, temporary crop
700002	Field block map	Landbrug intensivt, permanente afgrøder, markblokkort	Agriculture, permanent crop, field block map	none		702000	Landbrug intensivt, permanente afgrøder	Agriculture intensive, permanent crops
700003	Field block map	Landbrug ekstensivt, markblokkort	Agriculture, extensive, field block map	none		703000	Landbrug ekstensivt	Agriculture, extensive
700004	Field block map	Landbrug, ikke klassificeret, markblokkort	Agriculture, not specified, field block map	none		704000	Landbrug, ikke klassificeret	Agriculture, not classified
700110	Field block map	Skov, markblokkort	Forest, field block map	none		110110	Skov markkort / markblokkort	Forest, field parcel map / field block map
800000	Cadastre map	Vejmatrikel	Road cadastre	none	Skelpolygon vejlitrafik	300000	Vej	Road

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BASEMAP02

Technical documentation of a model for elaboration of a land-use and land-cover map for Denmark

As a response to a lack of an up-to-date nationwide map of land use and land cover for Denmark, Aarhus University and University of Copenhagen produced the first version of Basemap in 2011. The novelty of the Basemap was that it combined existing thematic geographic information into one land-use/land-cover map for Denmark. Furthermore, the map was dynamic in the sense that spatial modelling and input data could be adapted to different purposes and research needs. The first version of Basemap has been widely applied in research and advisory projects by research institutions, public agencies and private companies. In 2016, Statistics Denmark decided to finance an updated version of Basemap for the year 2016. This second version is different in the sense that more of the original input information is included in the final map. For instance, for information derived from agricultural census data, Basemap02 includes the possibility to link field parcels to other farm and parcel specific information, such as animal husbandry, farm economics and agro-environmental subsidies. Furthermore, in order to enable comparison over time Basemap02 also includes an updated version for the year 2011.

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