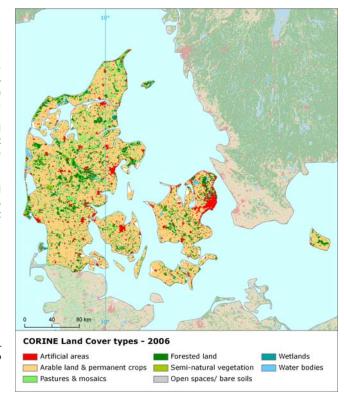
Land cover 2006

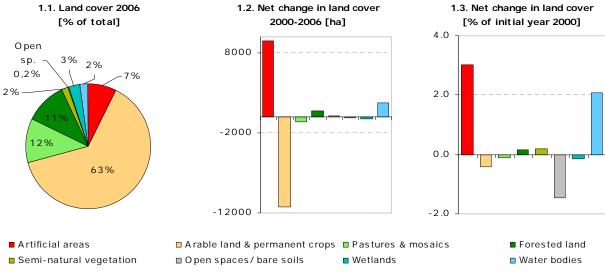
Overview of land cover & change 2000-2006

The overall intensity of land cover development in Danish landscape is stable, compared to the previous period 1990-2000. The latest development in Denmark landscape is characterized by consumption of agricultural areas (which have prevailing share on total land cover in the country, with more than 60% of arable land on total land cover) by artificial land uptake, which occurs with even higher intensity compared to the previous period. Besides the artificial sprawl, recent internal forest conversions and formation of water bodies are typical for the rest of landscape development.

Artificial sprawl is concentrated around major Danish cities, mostly in surroundings of the capital city Copenhagen and around other large cities with pattern similar to the previous period. Changes of forested land are situated in southern part and also along north-western coast of Jutland peninsula.



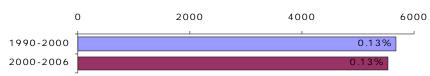
Note: The results presented here are based on a change analysis of 44 land cover types mapped consistently on a 1:100.000 scale across Europe over almost two decades 1990-2006 - see Corine land cover (CLC) programme for details. Number of years between CLC2000-CLC2006 data for Denmark: 6

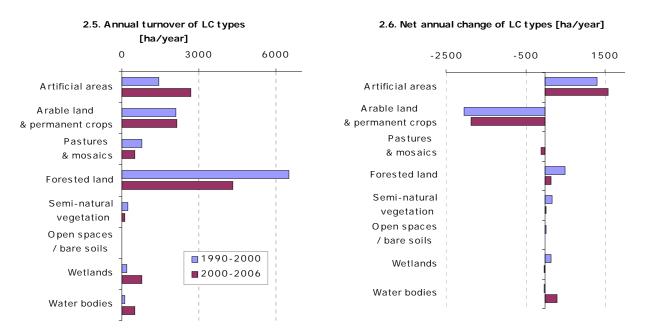


Summary balance table 20	00-2006	5							
	Artificial areas	Arable land & permanent crops	Pastures & mosaics	Forested land	Semi-natural vegetation	Open spaces/ bare soils	Wetlands	Water bodies	TOTAL [hundreds ha]
Land cover 2000	3153	27962	5161	4697	764	91	1410	832	44069
Consumption of initial LC	33	120	18	126	2	2	25	7	332
Formation of new LC	128	8	12	134	4	0	22	24	332
Net Formation of LC	95	-112	-6	8	1	-1	-2	17	0
Net formation as % of initial year	3.0	-0.4	-0.1	0.2	0.2	-1.5	-0.2	2.1	
Total turnover of LC	161	127	30	259	6	2	47	31	664
Total turnover as % of initial year	5.1	0.5	0.6	5.5	0.8	2.4	3.3	3.7	1.5
Land cover 2006	3247	27850	5155	4705	766	89	1408	849	44069

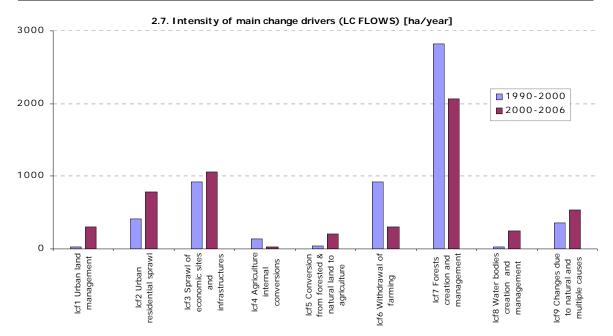
Land cover trends comparison 1990-2000 vs. 2000-2006

2.4. Annual land cover change [ha/year, % of total area]

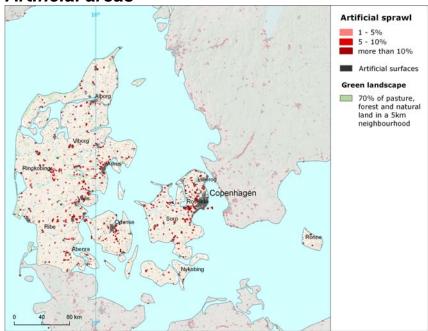


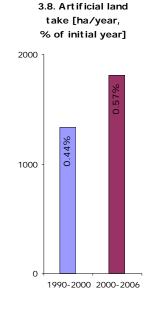


Summary trend figures	1990-2000	2000-2006
Annual land cover change [ha/year]		5531
Annual land cover change as % of initial year	0.13%	0.13%
Land uptake by artificial development as mean annual change [ha/year]	1333	1804
Agricultural land uptake by urban and infrastructures development as mean annual change [ha/year]	1269	1939
Net uptake of forests and semi-natural land by agriculture as mean annual change [ha/year]	-915	-254
Net conversion from pasture to arable land and permanent crops as mean annual change [ha/year]	-82	-15
Forest & other woodland net formation as mean annual change [ha/year]	482	134
Dry semi-natural land cover net formation as mean annual change [ha/year]	177	2
Wetlands & water bodies net formation as mean annual change [ha/year]	116	251



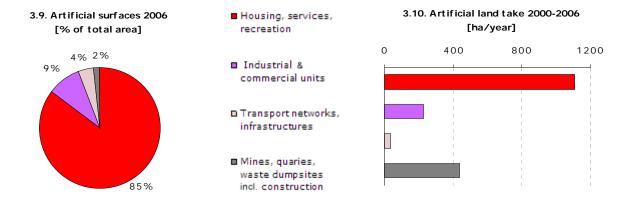
Artificial areas

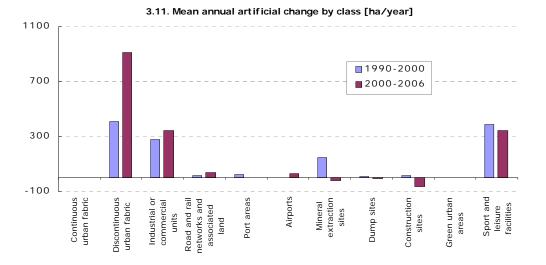




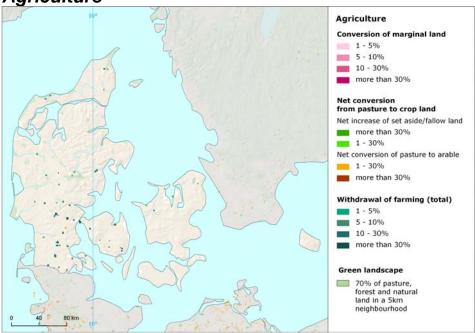
Diffuse residential sprawl accelerates

Artificial sprawl, which continuous with even higher intensity compared to the previous period, is driven mainly by accelerated development of discontinuous urban fabric areas (43%) and by sprawl of sport and leisure facilities (18%). The other main drivers of land take are sprawl of commercial and industrial units, mines and quarrying sites and construction. Artificial sprawl occurs mainly at the expense of arable land (90% of total taken area). Besides the artificial land uptake, recycling of developed urban areas (represented by conversion of construction sites into urban fabric and commercial/industrial units) became a significant driver of urban change too. At the same time, former developed areas like mineral extraction and construction sites have been consumed by agricultural land. Spatial distribution shows the similar pattern as in the previous period with concentration around the main cities.



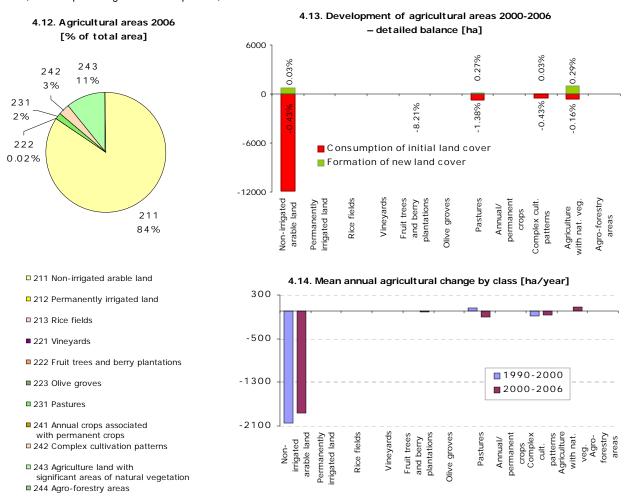


Agriculture

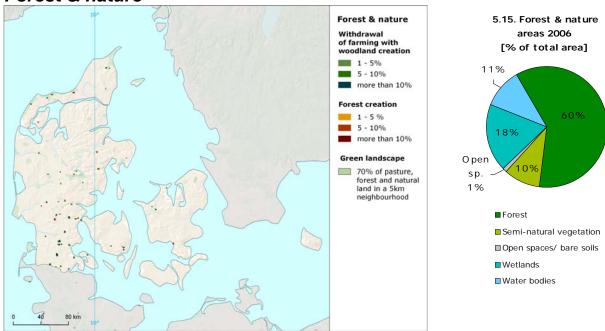


Consumption of arable land

Development of agricultural areas in Denmark is low, characterized by negative net change balance of both arable and pasture land. Arable land has been mostly consumed by artificial sprawl and also by withdrawal of farming with woodland creation and water bodies creation. Besides significant share of withdrawal of farming without woodland creation occurs, represented by conversion of intensively used agricultural land into agricultural areas with significant amount of natural vegetation. On the contrary, new agricultural land is formed through conversion from developed areas (mostly mineral extraction sites). These external changes have predominant share on total agricultural land development in the country. Internal changes have significantly lower intensity, compared to previous period, with still prevailing extension of pasture, set aside and fallow land.

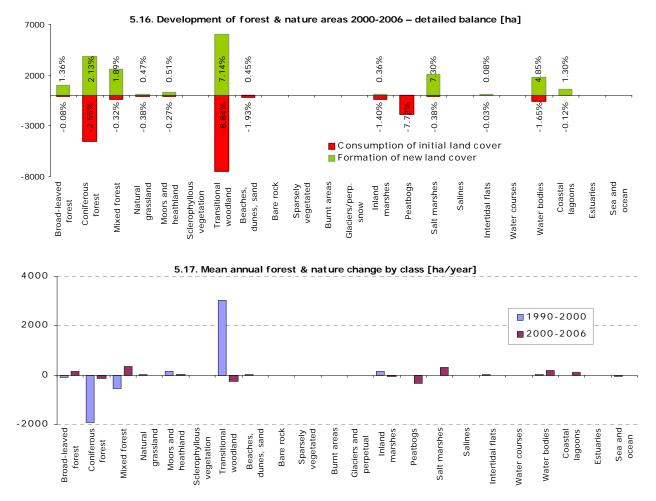


Forest & nature



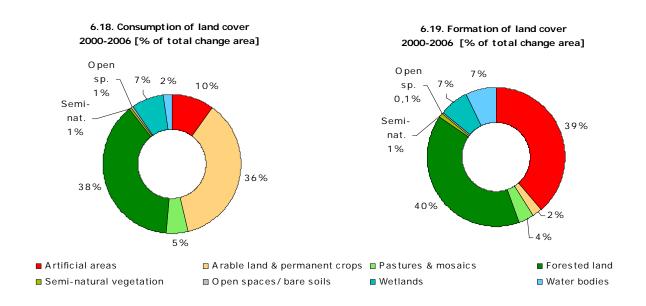
Dynamic development of wetlands and water bodies

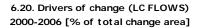
The intensity of changes of natural surfaces in Denmark has increasing tendency, compared to the previous period. Accelerated forest creation and management became the most powerful driver of landscape change in this period. Formation of forest area is driven by prevailing internal conversion from transitional woodland to forest and also by withdrawal of farming with transitional woodland creation. Besides these forest conversions, changes of wetlands and water bodies are the other main contributors of natural land development in Denmark. Internal exchange of these land cover types is represented mostly by decrease of peatbogs and increase salt marshes area and by decrease of water bodies and increase of coastal lagoons. External formation is driven mainly by creation of new water bodies over agricultural land or mineral extraction sites.

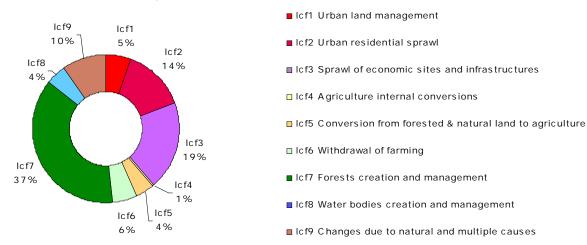


Annex: Land cover flows and trends

Land cover flows 2000-2006

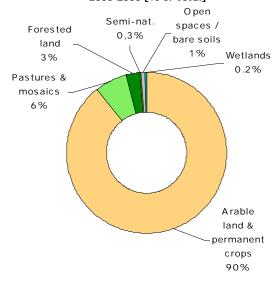




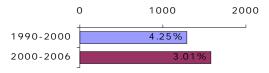


Artificial areas

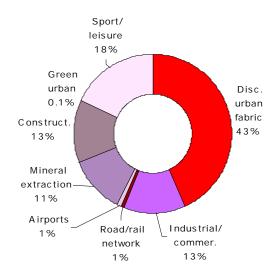
7.21. Consumption by artificial land take 2000-2006 [% of total]



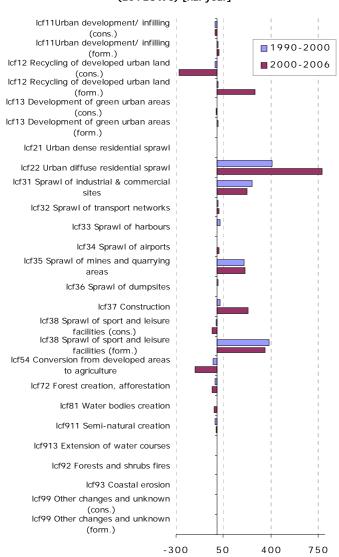
7.23. Net formation of artificial area [ha/year, % of initial year]



7.22. Formation by artificial land take 2000-2006 [% of total]

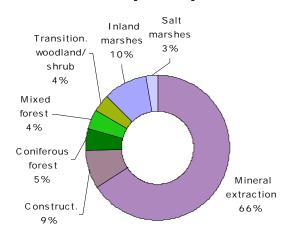


7.24. Artificial development by change drivers (LC FLOWS) [ha/year]

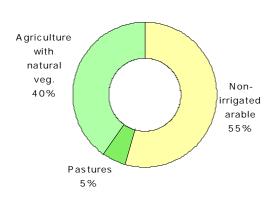


Agriculture

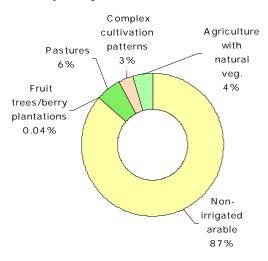
8.25. LC consumed by agriculture 2000-2006 [% of total]



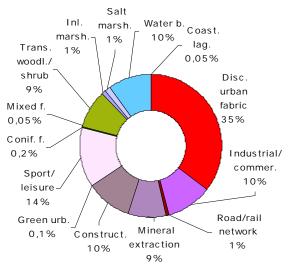
8.26. Formation of agricultural land from non-agriculture 2000-2006 [% of total]



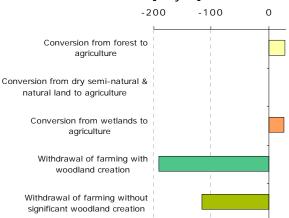
8.27. Consumption of agricultural land by non-agriculture 2000-2006 [% of total]



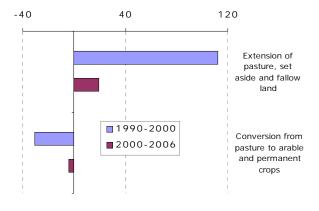
8.28. Formation of non-agricultural land from agriculture 2000-2006 [% of total]

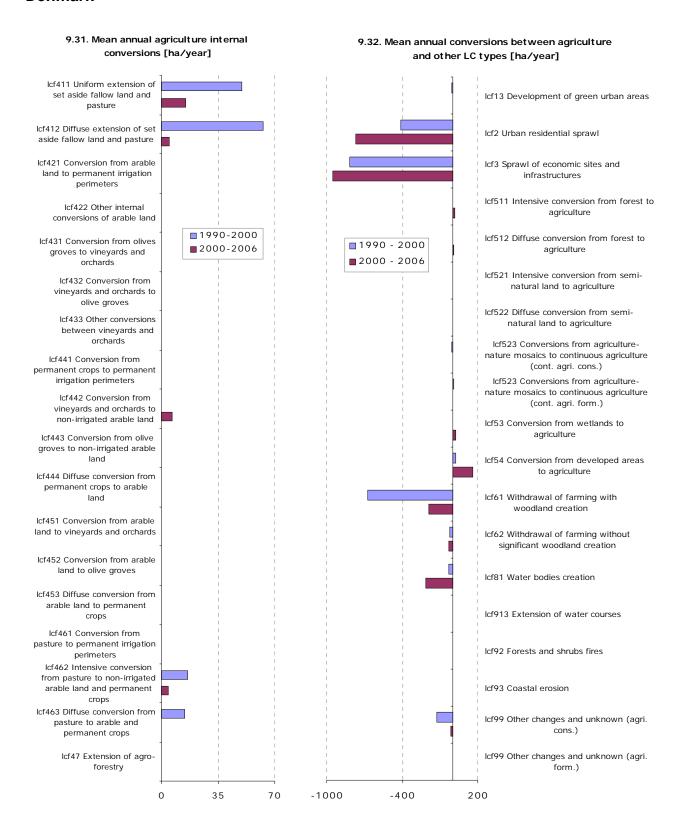


8.29. Main annual conversions between agriculture and forests & semi-natural land 2000-2006 [ha/year]



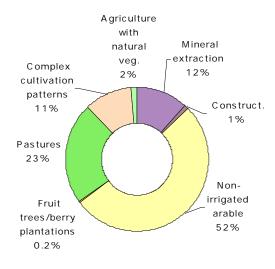
8.30. Mean annual conversion between arable land and pasture [ha/year]



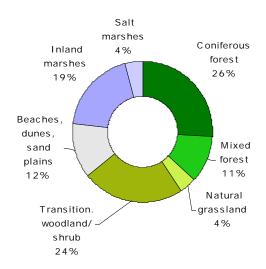


Forest & nature

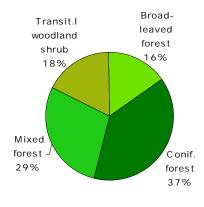
10.33. LC consumed by forest & nature 2000-2006 [% of total]



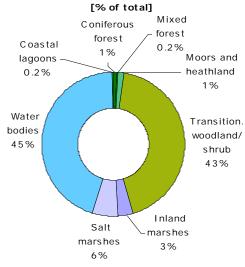
10.35. Consumption of forest & nature land by non-forest/nature 2000-2006 [% of total]



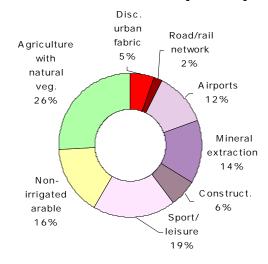
10.37. Forested land 2006 [% of total area]



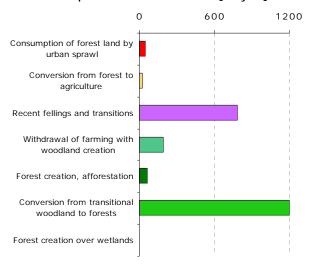
10.34. Formation of forest & nature land from non-forest /nature 2000-2006



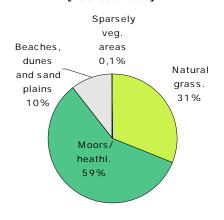
10.36. Formation of non-forest/nature land from forest & nature 2000-2006 [% of total]



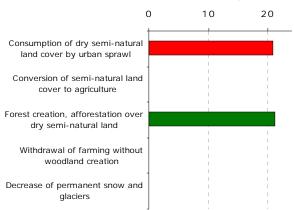
10.38. Main trends in woodland & forests consumption/formation 2000-2006 [ha/year]



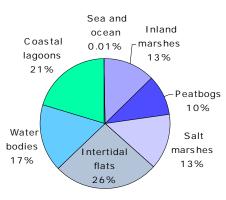
11.39. Dry semi-natural areas 2006 [% of total area]



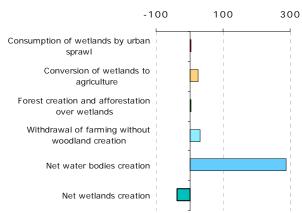
11.40. Main trends in dry semi-natural land consumption/formation 2000-2006 [ha/year]



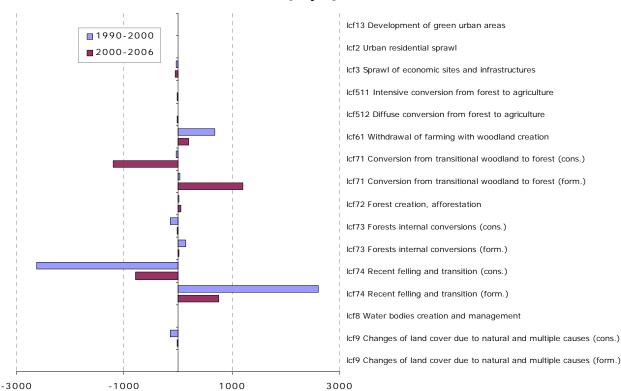
11.41. Wetlands & water 2006 [% of total area]



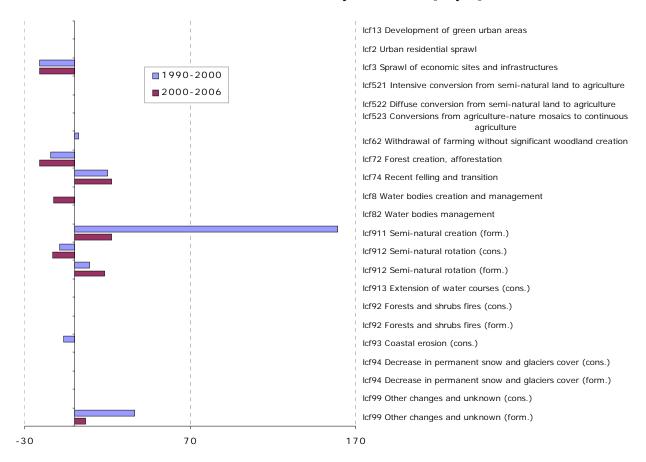
11.42. Main trends in wetlands & water consumption/formation 2000-2006 [ha/year]



11.43. Mean annual conversions of forest & other woodland [ha/year]



12.44. Mean annual conversions of dry semi-natural LC [ha/year]



12.45. Mean annual conversions of wetlands and water LC [ha/year]

