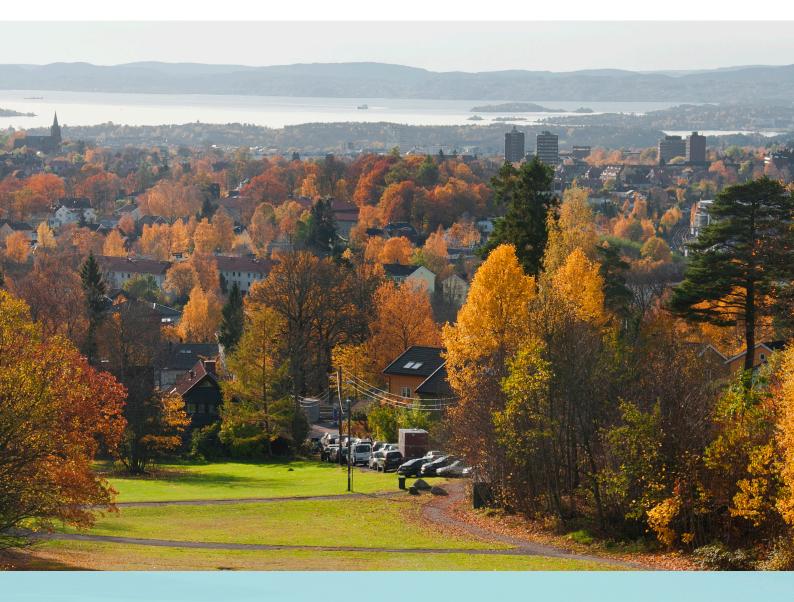
Country fact sheet

Land cover 2012





September 2017

Photo: © Toni García, My City/EEA



Land cover 2012

Overview of land cover & change 2006-2012

The land cover development in Finland has similar intensity and structure as in the previous period, with only slightly lower overall change rate. With a mean annual change rate of 0.35% of total area, the dynamics of development in the Finish landscape is rather high, compared to other European countries.

The extent of forest conversions in the country is huge, which is caused by extensive forest coverage itself. These conversions will always be the most powerful driver of development of the Finish landscape. The intensity of these internal forest flows is comparable to the previous period.

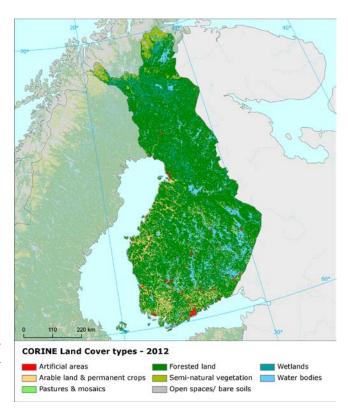
On the other hand, conversions from forested and natural land to agriculture, which were remarkable during the period 2000-2006, lost most of it intensity in the 2006-2012 period.

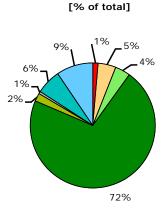
The speed of urban sprawl in Finland remains stable, with an annual artificial land take rate of about 0.4%, which is slightly above the European average. Sprawl is driven by the extension of mines and quarrying areas, as well as dump, construction and industrial or commercial sites. On the other hand, the extensions of residential and sport and leisure areas, which were major sprawl drivers in the period 2000-2006, show significant decline.

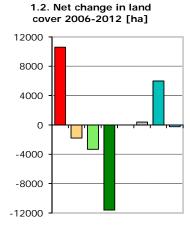
Note: The results presented here are based on a change analysis of 44 land cover types mapped consistently on a 1:100.000 scale across Europe over more than decade between 2000-2006-2012 - see Corine land cover (CLC) programme for details

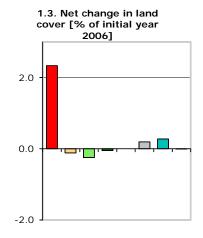
Number of years between CLC2006-CLC2012 data for Finland: 6

1.1. Land cover 2012









■ Artificial areas ■ Arable ■ Semi-natural vegetation ■ Open s

■ A rable land & permanent crops ■ Pastures & mosaics
■ O pen spaces/ bare soils ■ Wetlands

Forested landWater bodies

2010 21751 32052

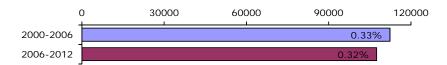
Summary balance table 2006-2012											
	Artificial areas	Arable land & permanent crops	Pastures & mosaics	Forested land	Semi-natural vegetation	Open spaces/ bare soils	Wetlands	Water bodies	TOTAL [hundreds ha]		
Land cover 2006	4544	15633	13384	242269	7079	2006	21691	32054	338662		
Consumption of initial LC	14.3	73.9	56.2	6272.3	0.0	1.8	32.2	2.5	6453		
Formation of new LC	120.4	56.0	23.0	6156.1	0.0	5.7	92.1	0.0	6453		
Net Formation of LC	106.1	-17.9	-33.3	-116.2	0.0	3.9	59.9	-2.5	0		
Net formation as % of initial year	2.3	-0.1	-0.2	0.0	0.0	0.2	0.3	0.0			
Total turnover of LC	134.7	129.9	79.2	12428.4	0.0	7.5	124.3	2.5	12906		
Total turnover as % of initial year	3.0	0.8	0.6	5.1	0.0	0.4	0.6	0.0	3.8		

4650 15615 13351 242153 7079

Land cover 2012

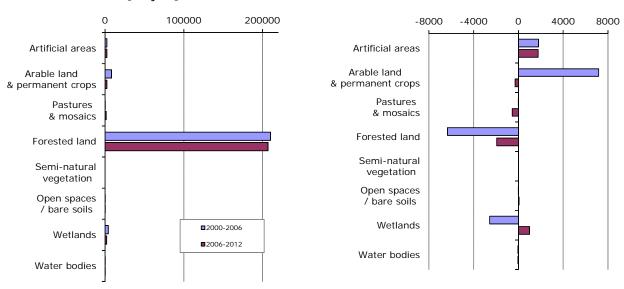
Land cover trends comparison 2000-2006 vs. 2006-2012

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



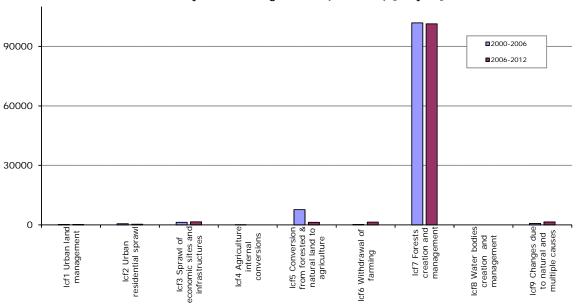
2.5. Annual turnover of LC types [ha/year]

2.6. Net annual change of LC types [ha/year]

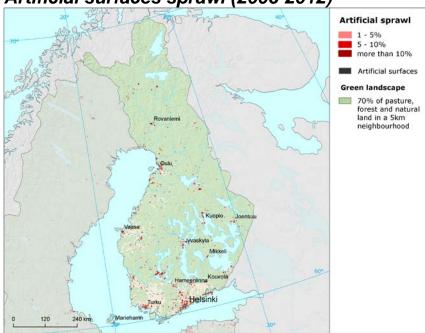


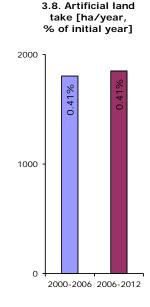
Summary trend figures	2000-2006	2006-2012
Annual land cover change [ha/year]	112389	107554
Annual land cover change as % of initial year	0.33%	0.32%
Land uptake by artificial development as mean annual change [ha/year]	1803	1851
Agricultural land uptake by urban and infrastructures development as mean annual change [ha/year]	333	223
Net uptake of forests and semi-natural land by agriculture as mean annual change [ha/year]	7474	-88
Net conversion from pasture to arable land and permanent crops as mean annual change [ha/year]	0	0
Forest & other woodland net formation as mean annual change [ha/year]	-6347	-1936
Dry semi-natural land cover net formation as mean annual change [ha/year]	-1	83
Wetlands & water bodies net formation as mean annual change [ha/year]	-2602	957

2.7. Intensity of main change drivers (LC FLOWS) [ha/year]



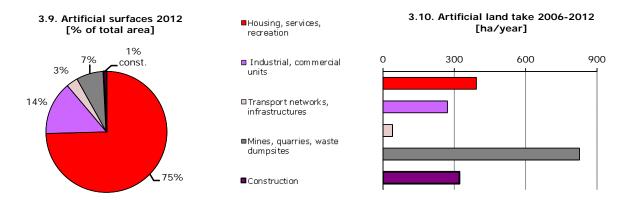


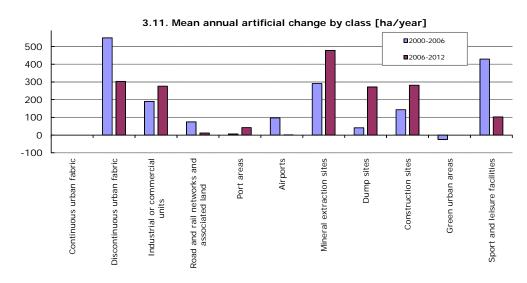


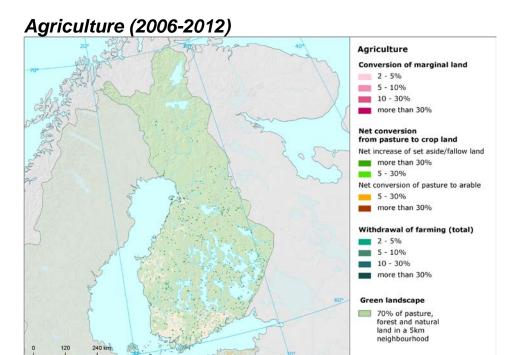


Slowdown of residential and sport and leisure sprawl

The urban sprawl rate in Finland is slightly above average, compared to other European countries, and stable in time, as it was almost identical in the 2000-2006 as in 2006-2012. Geographically, it is situated not only on the south, but around all major Finish cities, with the highest concentration in the surroundings of capital city of Helsinki. The largest area has been taken by mines, quarries and waste dumpsites — with much more intensive formation than in previous period. Also the area of construction sites and industrial and commercial units grows much faster, compared to 2000-2006. In contrast, the sprawl of discontinuous urban fabric and sport and leisure facilities, which was the main driver of the artificial land development in the 2000-2006, continues with significantly lower intensity during the period 2006-2012. The main source for these newly built urban areas is former forested land.

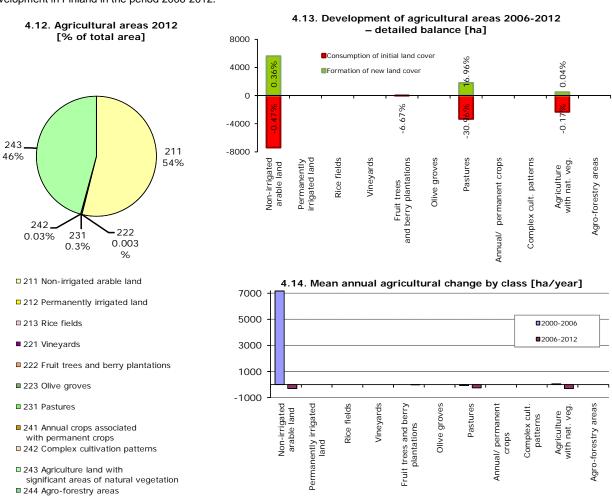




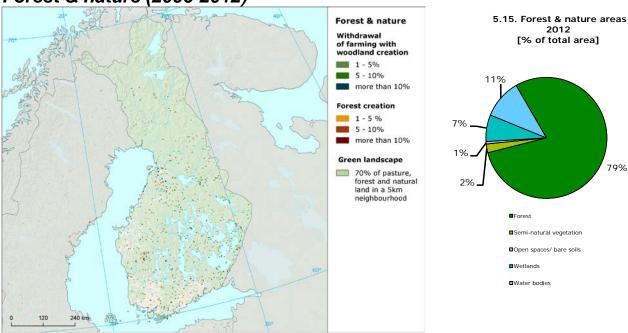


Decrease of conversion from natural land to agriculture

In the long term, the development of the finish agricultural land is driven exclusively by external exchanges with another land cover types – internal conversions of agricultural land are not observed in the country. During the previous period 2000-2006, the conversions from forest and wetlands to agriculture were frequent in Finland and caused significant formation of arable land. However, in the 2006-2012, these conversions lost most of their intensity, which means both arable and pasture land have negative net change balance, with prevailing consumption of land. There still remains some amount of conversion from transitional woodland to agriculture, which, together with opposite withdrawal of farming with transitional woodland creation, are the main drivers of the agricultural land development in Finland in the period 2006-2012.

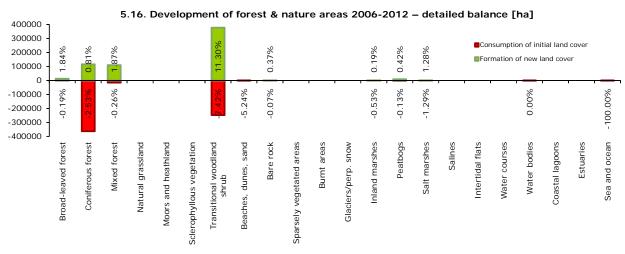


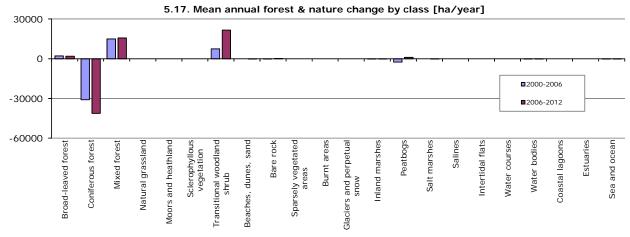




Extensive internal forest flows

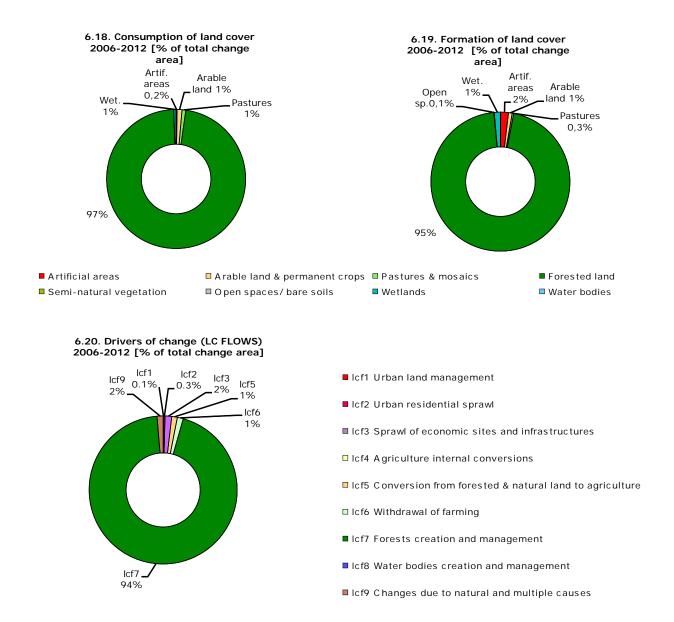
About 72% of the landscape in Finland is covered by forests and therefore, changes in forested land are the main drivers of land cover development in the country, mostly represented by internal forest conversions. The intensity of these flows is comparable with the previous period, with slightly prevailing recent felling and transition over forest creation from transitional woodland, which also shows the same trend as in the 2000-2006. Net change of forested land is characterized by the consumption of coniferous forest and formation of mixed, broad-leaved forest and transitional woodland and shrub, the last one significantly higher compared with previous period. Concerning external exchange of natural land, the conversion from wetlands to agriculture, which was frequent in the period 2000-2006, almost disappeared from the Finish landscape and the conversion from forest to agriculture occurs with significantly lower intensity. Another interesting trend in the frame of natural land development in Finland is the creation of wetlands (in particular peatbogs), mostly through the conversion from coniferous forest and arable land. This trend of peatbogs creation had been observed already during the previous period, but not through the conversion from arable land.





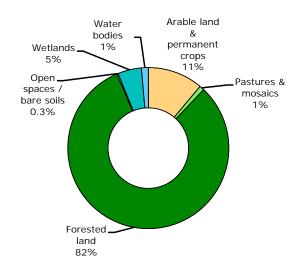
Annex: Land cover flows and trends

Land cover flows 2006-2012

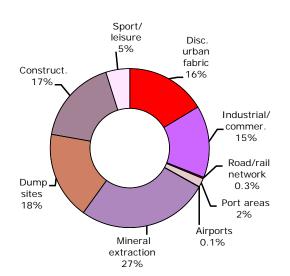


Artificial areas

7.21. Consumption by artificial land take 2006-2012 [% of total]



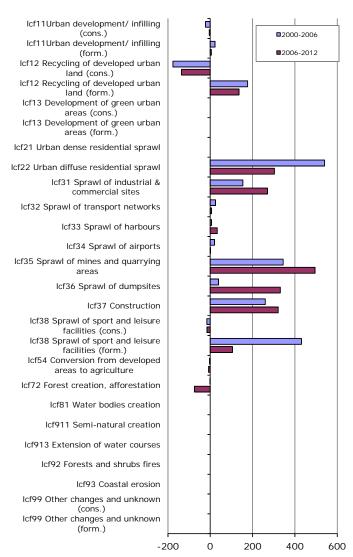
7.22. Formation by artificial land take 2006-2012 [% of total]



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

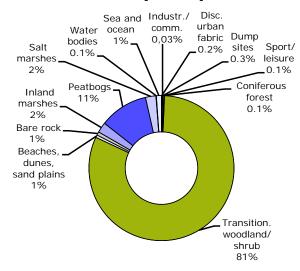


7.24. Artificial development by change drivers (LC FLOWS) [ha/year]

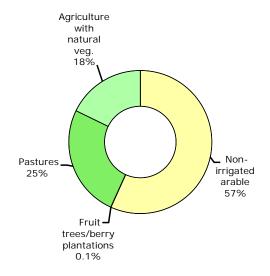


Agriculture

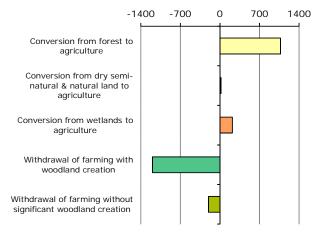
8.25. LC consumed by agriculture 2006-2012 [% of total]



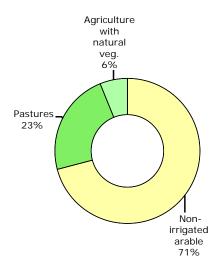
8.27. Consumption of agricultural land by non-agriculture 2006-2012 [% of total]



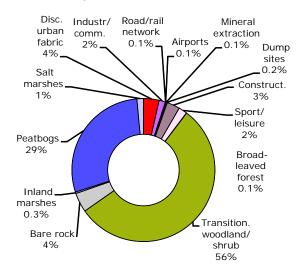
8.29. Main annual conversions between agriculture and forests & semi-natural land 2006-2012 [ha/year]



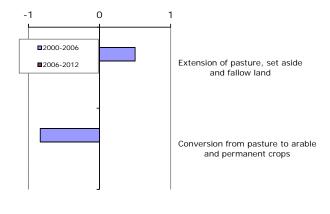
8.26. Formation of agricultural land from non-agriculture 2006-2012 [% of total]

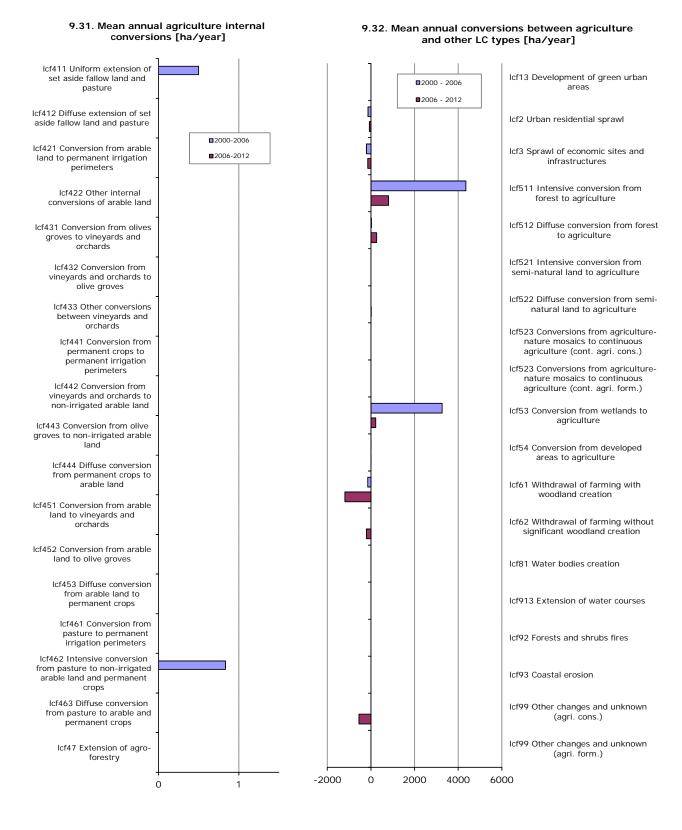


8.28. Formation of non-agricultural land from agriculture 2006-2012 [% of total]



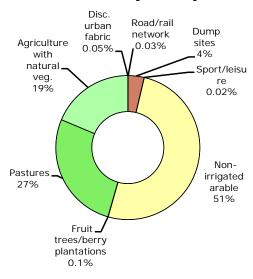
8.30. Mean annual conversion between arable land and pasture [ha/year]



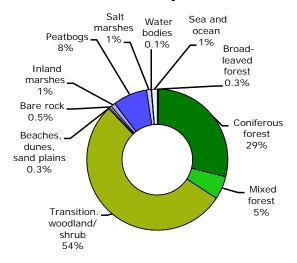


Forest & nature

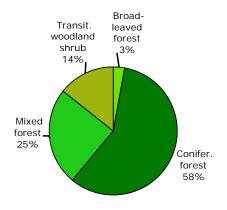
10.33. LC consumed by forest & nature 2006-2012 [% of total]



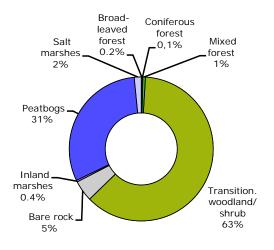
10.35. Consumption of forest & nature land by non-forest/nature 2006-2012 [% of total]



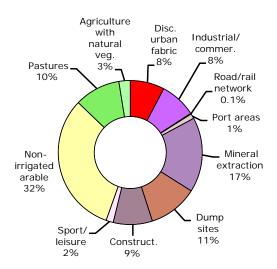
10.37. Forested land 2012 [% of total area]



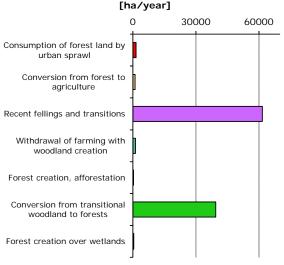
10.34. Formation of forest & nature land from non-forest /nature 2006-2012 [% of total]



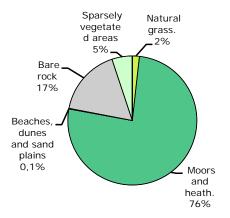
10.36. Formation of non-forest/nature land from forest & nature 2006-2012 [% of total]



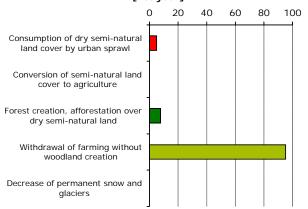
10.38. Main trends in woodland & forests consumption/formation 2006-2012



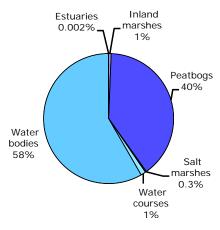
11.39. Dry semi-natural areas 2012 [% of total area]



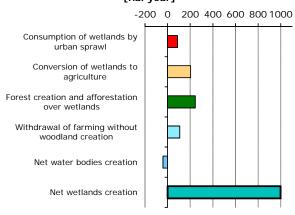
11.40. Main trends in dry semi-natural land consumption/formation 2006-2012 [ha/year]



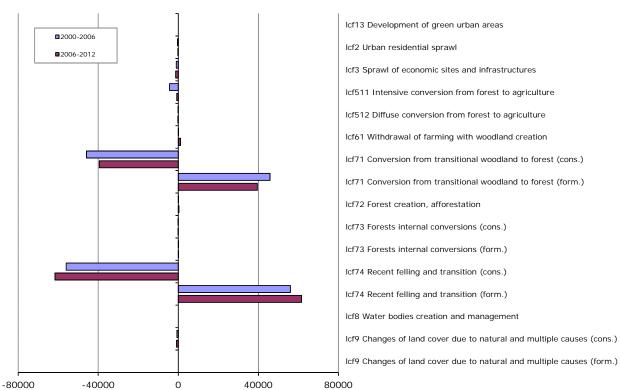
11.41. Wetlands & water 2012 [% of total area]



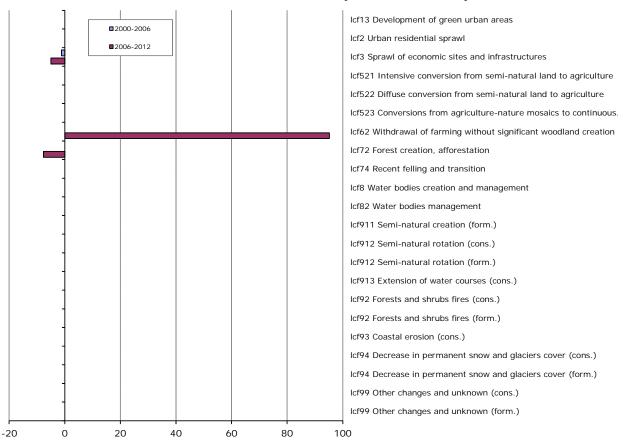
11.42. Main trends in wetlands & water consumption/formation 2006-2012 [ha/year]



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







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

