Country fact sheet

Land cover 2012

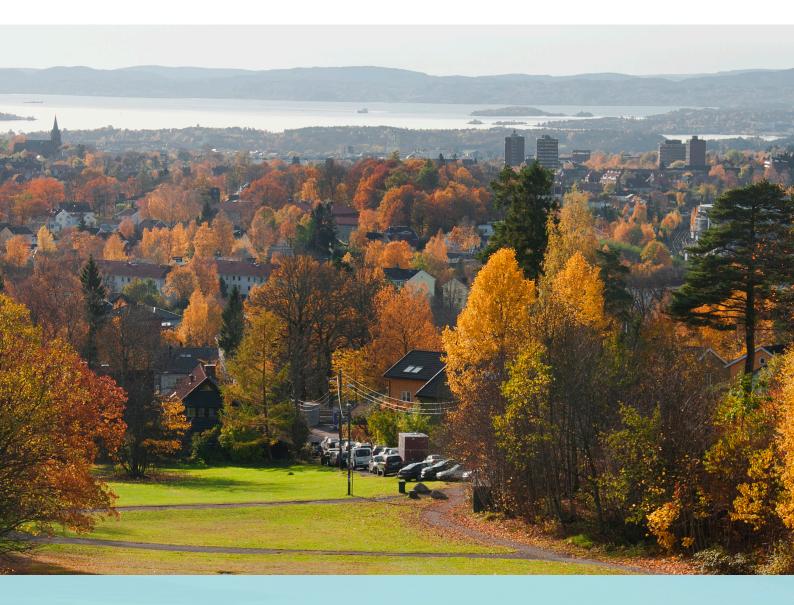




Photo: © Toni García, My City/EEA

Land cover 2012

Overview of land cover & change 2006-2012

In the long term, Slovenia is a country with one of the lowest land cover change dynamics in Europe and, when compared to the previous period 2000-2006, this dynamic become even lower.

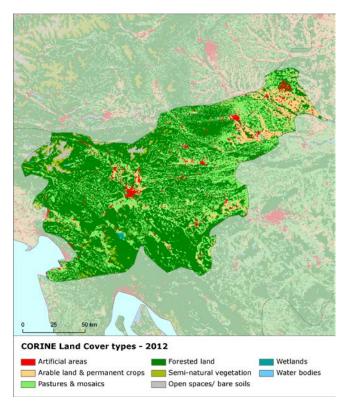
Both internal forest conversions and sprawl of economic sites and infrastructures, which were observed during the previous period as major drivers of the land cover development in Slovenia, have significantly slowed down in the 2006-2012 period. On the other hand, there occurs some amount of urban land management, which was not present in 2000-2006. This exchange is connected mostly with the construction of the highway segment between Maribor and Murska Sobota in the north-eastern part of the country.

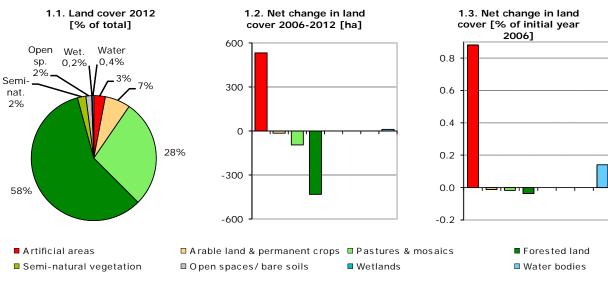
The sprawl of economic sites and infrastructures is the most important driver of change in the country; however, considering its intensity, it is rather insignificant, in comparison with the European average. The annual land take rate in Slovenia is very low, with 0.15% it is one of the lowest among European countries. The sprawl, represented mainly by construction, was significantly stronger during the previous period 2000-2006. However, it has to be mentioned, that considerable part of this construction was also connected with the highway construction in the north-east of the country.

The intensity of the most significant flow from previous period – forest creation and management – shows a rapid decrease and this change covers comparable area now as the above mentioned sprawl of economic sites and infrastructures.

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 vears between CLC2006-CLC2012 data for Slovenia: 6





Summary balance table 20	06-2012	2							
	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	604	1337	5685	11874	444	303	32	78	20357
Consumption of initial LC	3.9	0.7	1.2	11.6	0.0	0.0	0.0	0.0	17
Formation of new LC	9.2	0.5	0.3	7.3	0.0	0.0	0.0	0.1	17
Net Formation of LC	5.3	-0.2	-1.0	-4.3	0.0	0.0	0.0	0.1	0
Net formation as % of initial year	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
Total turnover of LC	13.0	1.1	1.5	18.8	0.0	0.0	0.0	0.1	35
Total turnover as % of initial year	2.2	0.1	0.0	0.2	0.0	0.0	0.0	0.1	0.2
Land cover 2012	609	1337	5684	11869	444	303	32	78	20357

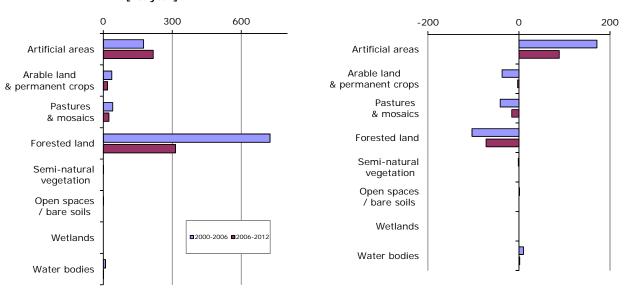
Land cover trends comparison 2000-2006 vs. 2006-2012

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

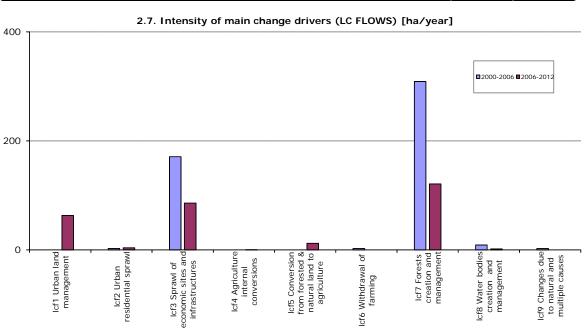


2.5. Annual turnover of LC types [ha/year]

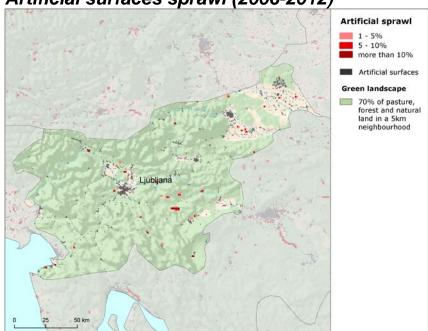
2.6. Net annual change of LC types [ha/year]

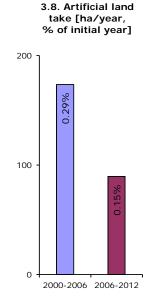


Summary trend figures	2000-2006	2006-2012
Annual land cover change [ha/year]	496	288
Annual land cover change as % of initial year	0.02%	0.01%
Land uptake by artificial development as mean annual change [ha/year]	174	90
Agricultural land uptake by urban and infrastructures development as mean annual change [ha/year]	75	29
Net uptake of forests and semi-natural land by agriculture as mean annual change [ha/year]	-2	11
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]	-103	-72
Dry semi-natural land cover net formation as mean annual change [ha/year]	0	0
Wetlands & water bodies net formation as mean annual change [ha/year]	10	2



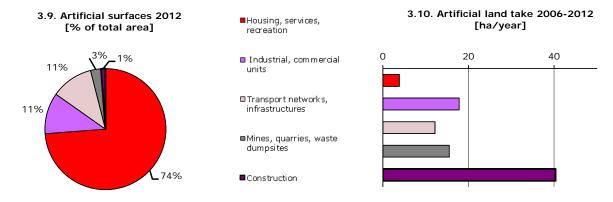


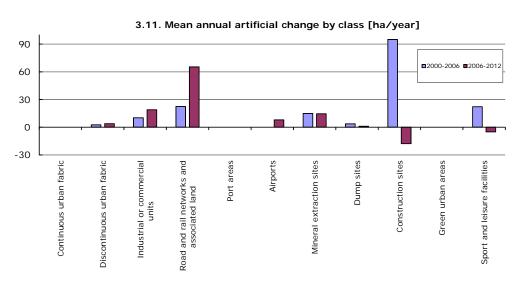


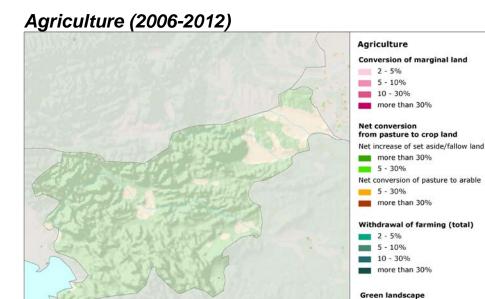


Slow down after highway construction

The artificial land take in Slovenia is very slow, compared to other European countries. There was a culmination of the sprawl rate (driven mainly by highway construction in the north-eastern part of the country) during the previous period followed by a rapid decrease in the 2006-2012 period. The distribution of the sprawl shows almost no sprawl around the capital city of Ljubljana. The patches of sprawl are scattered over the central and north-eastern part of the country. The construction is the most frequent compound of the land take; however, construction sites are quickly consumed and transformed into other artificial classes, mostly transportation network units. This process is documented by a high rate of recycling of developed urban land. The overall change balance of urban land cover classes shows increased formation of road and transportation network and industrial and commercial areas. In contrast, construction sites show negative balance, with prevailing consumption, which can indicate further slowdown of artificial development in the future.



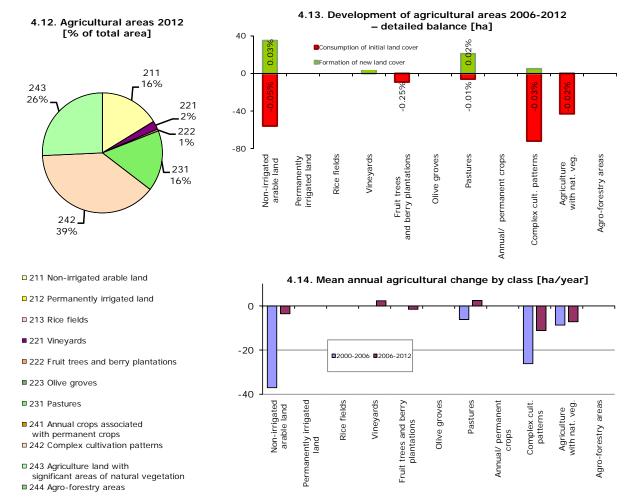




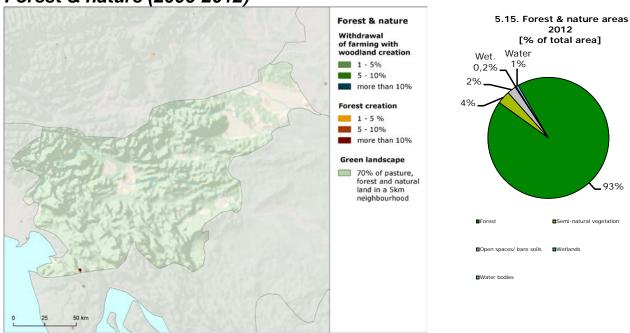
Agricultural land without exchange

The Slovenian agricultural land is represented mostly by complex cultivation patterns, agro-natural areas and pastures. There was no significant development of agricultural land observed in the period 2006-2012 in Slovenia. The situation was similar already during both previous periods 1990-2000 and 2000-2006. The consumption of arable land, which was visible during the previous period, does not occur any more in 2006-2012 and also the amount of internal agricultural flows is negligible. The only change which influences the amount of agricultural land in Slovenia is the consumption of mainly complex cultivation patterns area by urban sprawl, mostly by the sprawl of economic sites and infrastructures.

70% of pasture, forest and natural land in a 5km neighbourhood

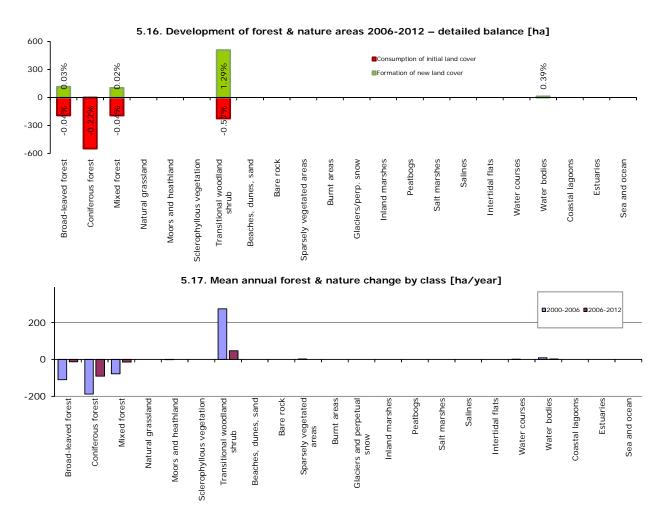






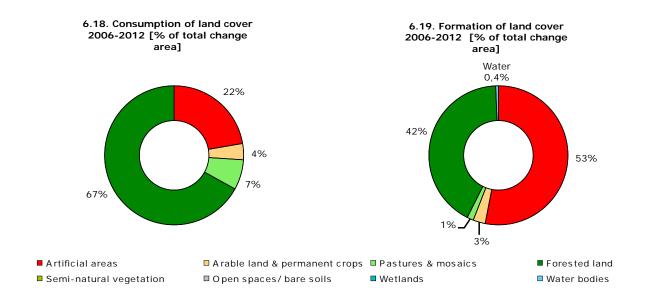
Forest and nature land development

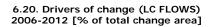
Despite its significantly lower intensity, the internal conversions of forested land remain the most extensive land cover flow in Slovenia, with prevailing recent felling and transition. However, the consumption of forested land by land take by economic sites and infrastructures, mainly by construction sites, had already almost comparable intensity as forest internal conversions in the period 2006-2012. The main reason was a rapid slowdown of recent felling, which is visible already when comparing the two previous periods – 1990-2000 and 2000-2006. Despite this slowdown, transitional woodland still shows a positive balance of net change, with prevailing formation of land.

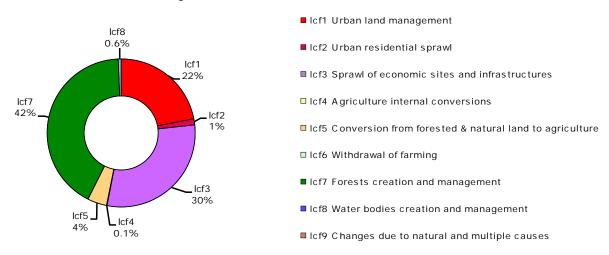


Annex: Land cover flows and trends

Land cover flows 2006-2012

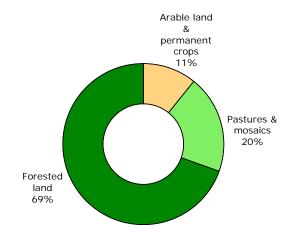




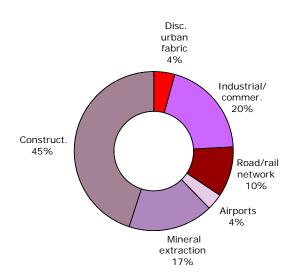


Artificial areas

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



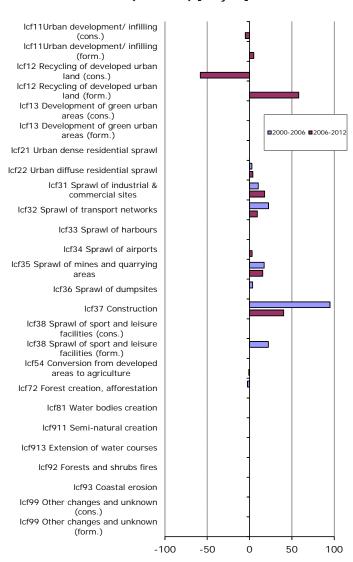
7.22. Formation by artificial land take 2006-2012 [% of total]



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

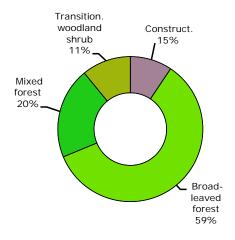


7.24. Artificial development by change drivers (LC FLOWS) [ha/year]

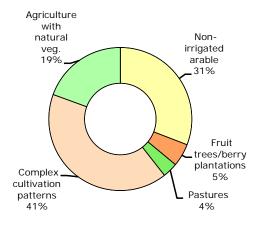


Agriculture

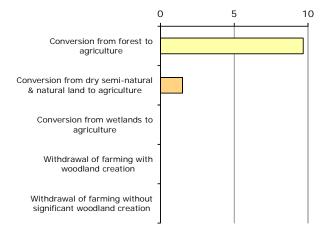
8.25. LC consumed by agriculture 2006-2012 [% of total]



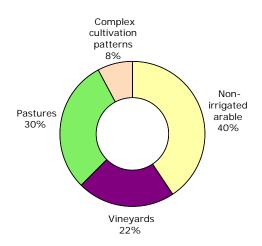
8.27. Consumption of agricultural land by non-agriculture 2006-2012 [% of total]



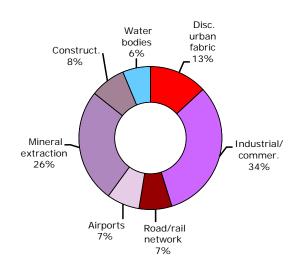
8.29. Main annual conversions between agriculture and forests & semi-natural land 2006-2012 [ha/year]



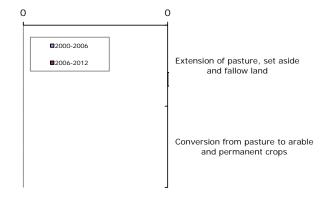
8.26. Formation of agricultural land from non-agriculture 2006-2012 [% of total]

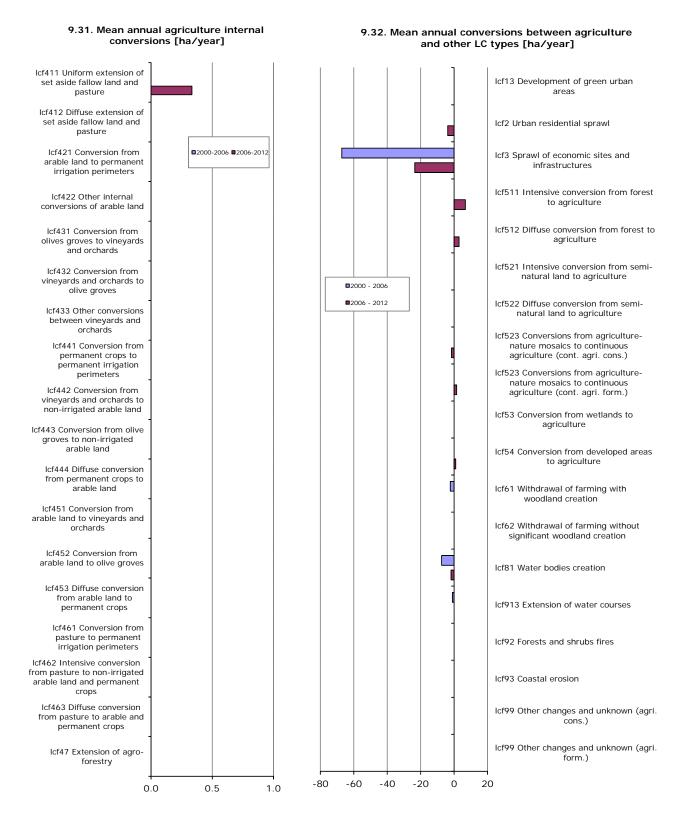


8.28. Formation of non-agricultural land from agriculture 2006-2012 [% of total]



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

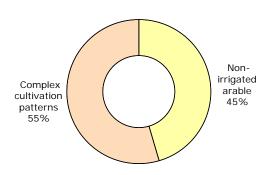




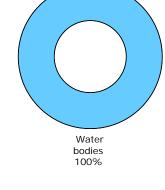
Forest & nature

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

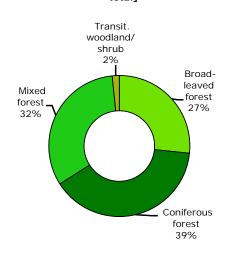
10.34. Formation of forest & nature land from non-forest /nature 2006-2012 [% of total]

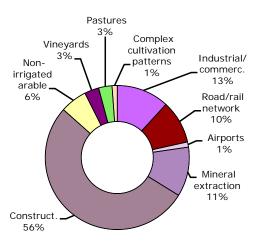


10.35. Consumption of forest & nature land by non-forest/nature 2006-2012 [% of total]

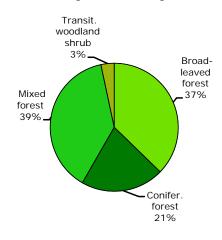


10.36. Formation of non-forest/nature land from forest & nature 2006-2012 [% of total]

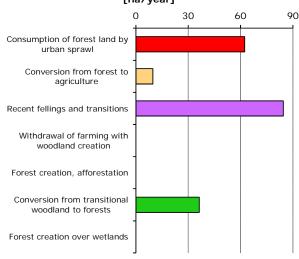




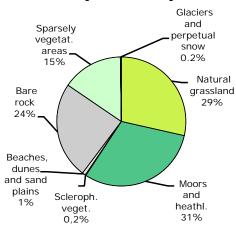
10.37. Forested land 2012 [% of total area]



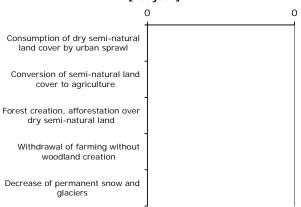
10.38. Main trends in woodland & forests consumption/formation 2006-2012 [ha/year]



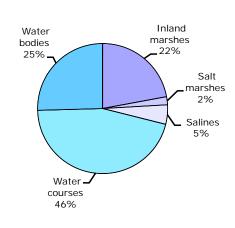
11.39. Dry semi-natural areas 2012 [% of total area]



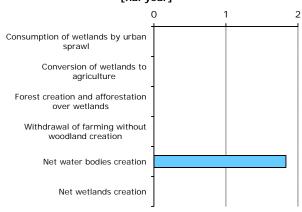
11.40. Main trends in dry semi-natural land consumption/formation 2006-2012 [ha/year]



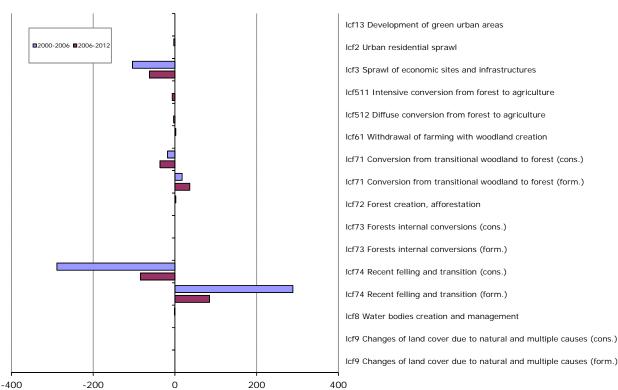
11.41. Wetlands & water 2012 [% of total area]

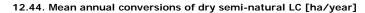


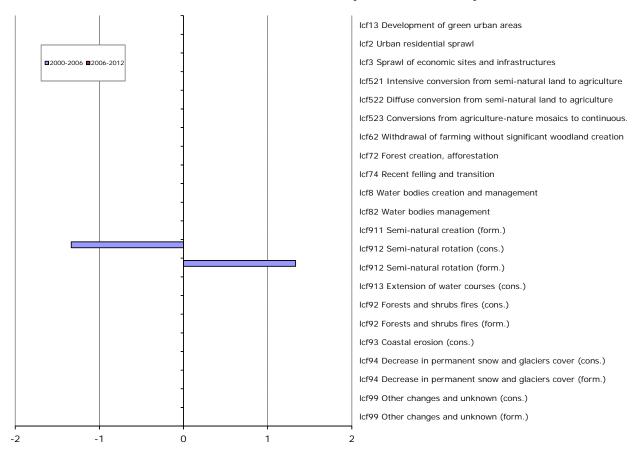
11.42. Main trends in wetlands & water consumption/formation 2006-2012 [ha/year]



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







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

