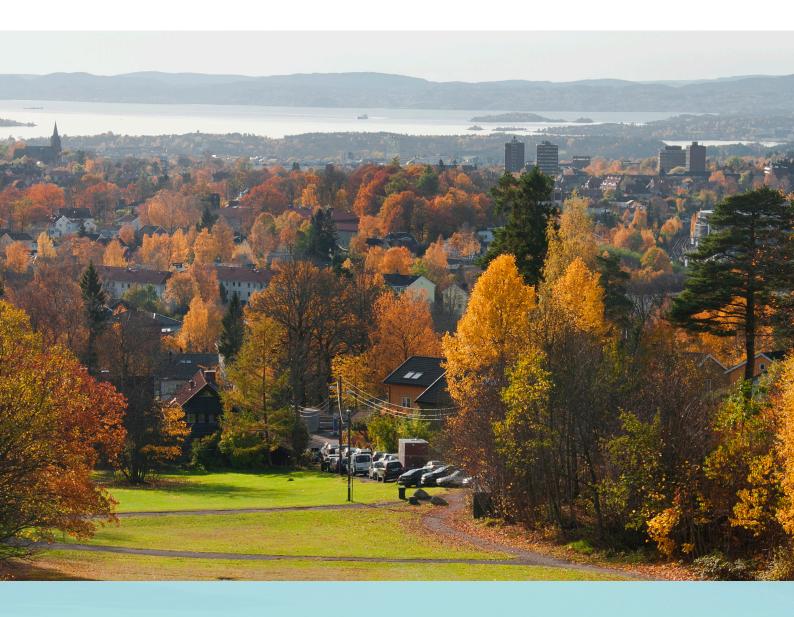
Country fact sheet

Land cover 2012





September 2017

Photo: © Toni García, My City/EEA

*Under UNSCR 1244/99.



Land cover 2012

Overview of land cover & change 2006-2012

The overall pace of land cover development in Kosovo (under UNSCR 1244/99) is quite slow, with a mean annual land cover change rate of 0.10%, it is about one half of the European average. Moreover, compared to the previous period 2000-2006, the intensity of the landscape development is getting lower.

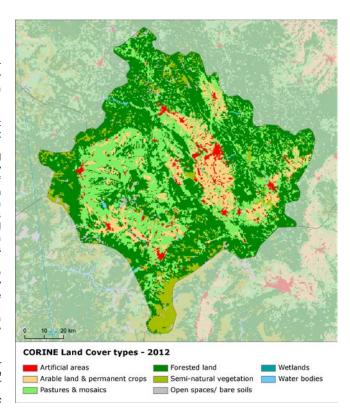
This slowdown is caused by rapid decrease of intensity of forest creation and management. This decrease concerns both forest internal conversions and afforestation of non-forested land.

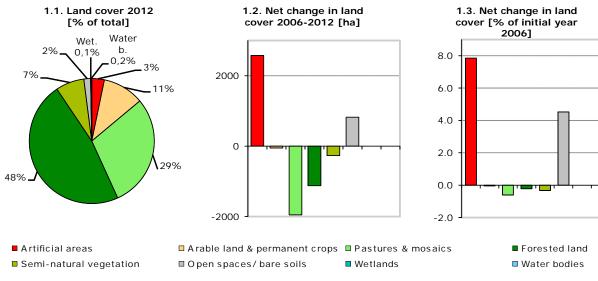
In the period 2006-2012, the sprawl of economic sites and infrastructures, which occurred with significantly higher intensity than in the period 2000-2006, became the most powerful driver of land cover development in Kosovo (under UNSCR 1244/99). On the other hand, the urban residential sprawl, which was the main driver of artificial development in the previous period, became less intensive in the period 2006-2012. The overall intensity of artificial development in Kosovo (under UNSCR 1244/99) is the highest in Europe – with the mean annual land take rate of 1.38%, which is about two times higher than in the previous period (0.74%).

The second most intensive flow in the landscape of the country are agriculture internal conversions, which, however, occur with slightly lower intensity, compared to the previous period. These are represented mostly by conversion from pasture to arable land. There was also observed some amount of forest and shrub fires in the country, in the period 2006-2012, which is included in the flow "Changes due to natural and multiple causes".

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 Kosovo (under UNSC 1244/99): 6

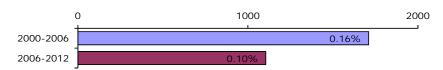




Summary balance table 20	06-2012	2							
	Artificial areas	Arable land & permanent crops	Pastures & mosaics	Forested land	Semi-natural vegetation	Open spaces/ bare soils	Wetlands	Water bodies	TOTAL [hundreds ha]
Land cover 2006	328	1167	3213	5183	807	181	10	23	10912
Consumption of initial LC	2.8	16.9	20.8	21.1	2.7	2.1	0.0	0.0	66
Formation of new LC	28.6	16.3	1.3	9.8	0.0	10.3	0.0	0.0	66
Net Formation of LC	25.8	-0.5	-19.5	-11.3	-2.7	8.2	0.0	0.0	0
Net formation as % of initial year	7.8	0.0	-0.6	-0.2	-0.3	4.5	0.0	0.0	
Total turnover of LC	31.4	33.2	22.2	30.8	2.7	12.4	0.0	0.0	133
Total turnover as % of initial year	9.6	2.8	0.7	0.6	0.3	6.8	0.0	0.0	1.2
Land cover 2012	354	1166	3193	5172	804	189	10	23	10912

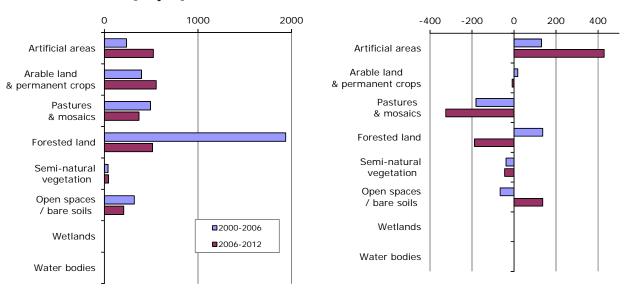
Land cover trends 2006-2012

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



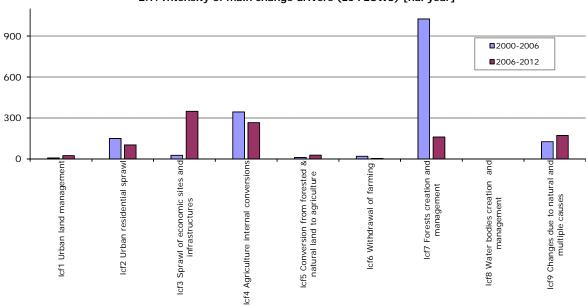
2.5. Annual turnover of LC types [ha/year]

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

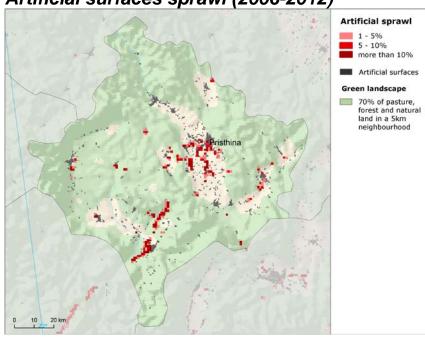


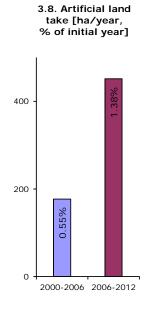
Summary trend figures			
Annual land cover change [ha/year]			
Annual land cover change as % of initial year			
Land uptake by artificial development as mean annual change [ha/year]	177		
Agricultural land uptake by urban and infrastructures development as mean annual change [ha/year]	162		
Net uptake of forests and semi-natural land by agriculture as mean annual change [ha/year]	-17		
Net conversion from pasture to arable land and permanent crops as mean annual change [ha/year]	223		
Forest & other woodland net formation as mean annual change [ha/year]	137		
Dry semi-natural land cover net formation as mean annual change [ha/year]	-104		
Wetlands & water bodies net formation as mean annual change [ha/year]	0		

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



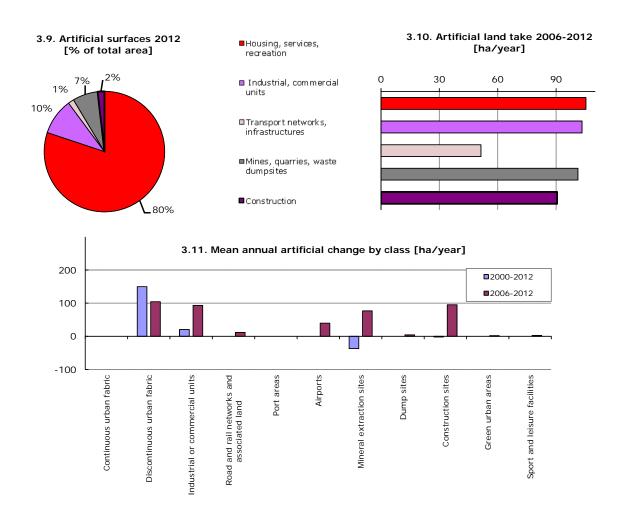




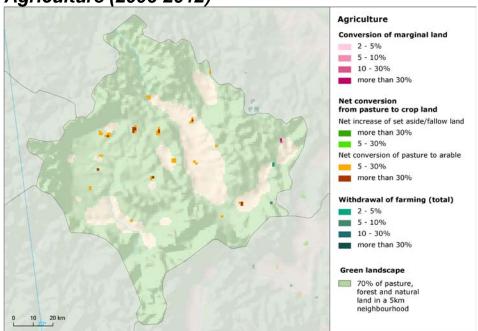


Extremely intensive artificial development in European context

The artificial development in Kosovo (under UNSCR 1244/99) between 2006 and 2012 is very strong, with even doubled intensity than in the previous period. The mean annual land take rate of 1.38% is by far the highest among European countries. Geographically, most of the artificial sprawl is concentrated in the surroundings of capital city of Pristhina and there is also quite visible the construction of a highway, located in the southwest from the capital city, which should connect Pristhina with the Adriatic coast. In contrast to the previous period, during which the artificial development was driven almost exclusively by residential sprawl, in the period 2006-2012, all components of the sprawl are very intensive, including sprawl of residential, commercial/industrial units, mines and dump sites as well as construction and extension of transportation networks.

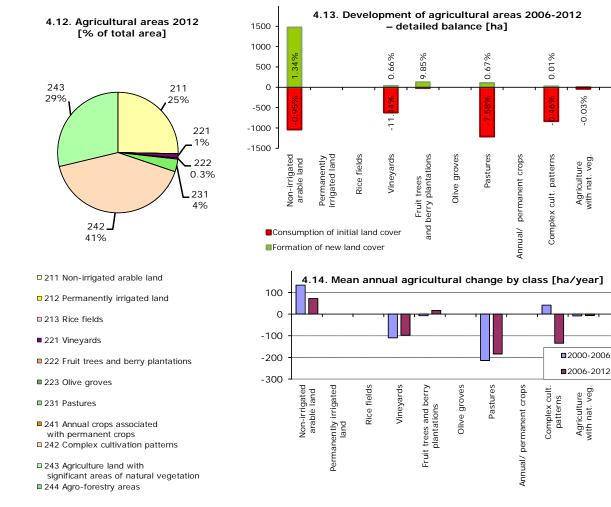


Agriculture (2006-2012)



Intensive conversion from pasture to arable land

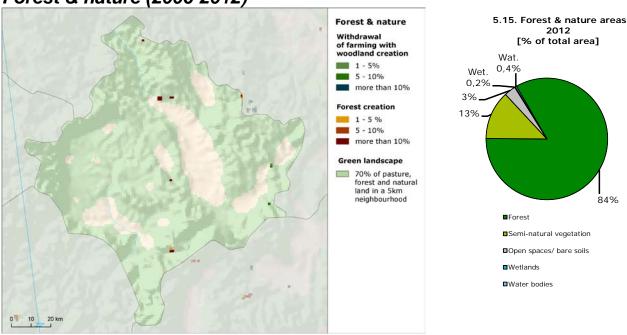
Agricultural development in the county is driven mainly by internal agricultural conversions, with prevailing share of intensive conversion of pasture to arable land. Geographically, this process concentrates mainly in the central part of the country. On the other hand, diffuse conversion from pasture to arable land lost most of its intensity, compared to the previous period. The other significant internal agricultural flow is the conversion from vineyards and orchards to arable land. From external flows, agricultural land - mainly arable and complex cultivation patterns - is consumed by the sprawl of economic sites and infrastructures and also by residential sprawl. As a result of all these processes, arable land shows only a slightly positive net change balance, on the other hand, almost 7% of pasture land has been consumed during the period 2006-2012. The other agricultural land cover class with significant consumption are vineyards, with a consumption rate of about 11% of initial area.



Agro-forestry areas

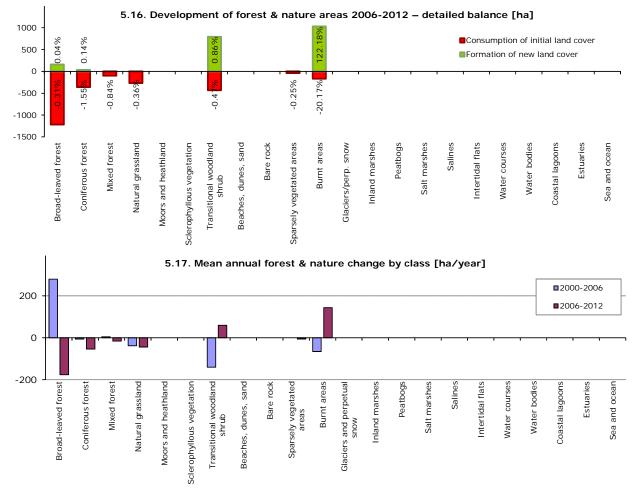
Agro-forestry areas

Forest & nature (2006-2012)



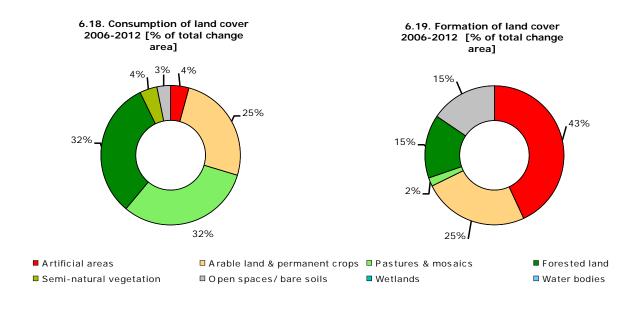
Slowdown of forest internal conversions, forest fires

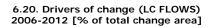
The exchange of natural landscape in Kosovo (under UNSCR 1244/99) lost most of its intensity, compared to the previous period, mainly due to significant slowdown of internal forest conversions, in particular of conversion from transitional woodland to forest. In the period 2006-2012, the main processes which occurred in the country landscape were forest and shrub fires. These consumed more than 1000 hectares of natural land, mainly of broad-leaved forest. Such fires were also present in the previous period 2000-2006, however, with slightly lower incidence and recently some of areas burnt between 2000 and 2006 are going through afforestation processes. Beside these processes, natural land (in particular transitional woodland/shrub, natural grassland and broad-leaved forest) is being consumed by the extension of mineral extraction and construction sites, which is a similar situation as in the previous period 2000-2006.

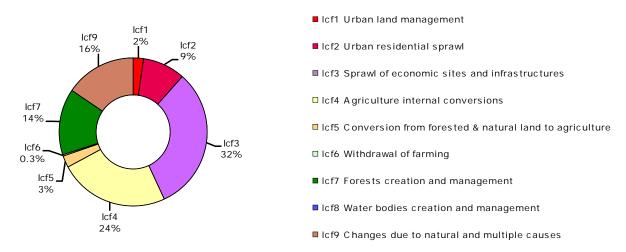


Annex: Land cover flows and trends

Land cover flows 2006-2012

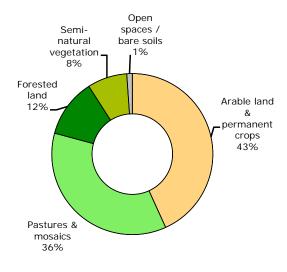




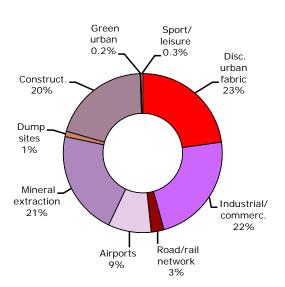


Artificial areas

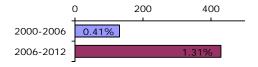
7.21. Consumption by artificial land take 2006-2012 [% of total]



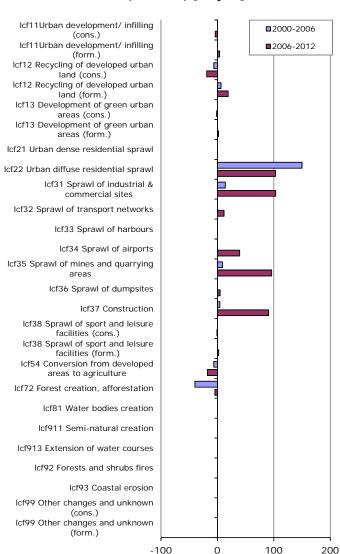
7.22. Formation by artificial land take 2006-2012 [% of total]



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



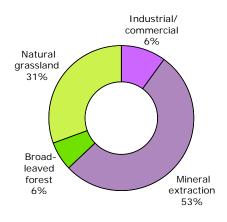
7.24. Artificial development by change drivers (LC FLOWS) [ha/year]

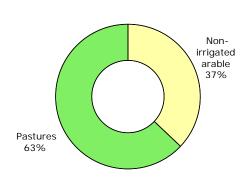


Agriculture

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

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





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

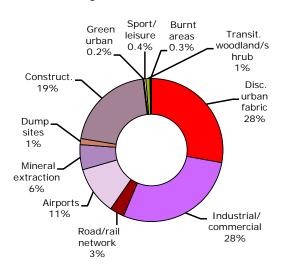
Agriculture with natural veg. 1%

Complex cultivation patterns 37%

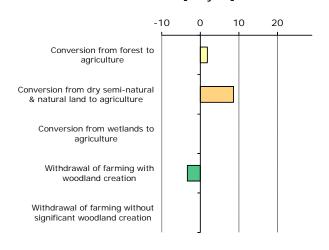
Pastures

Vineyards
12%

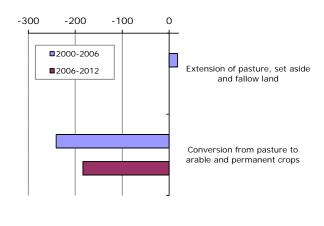
8.28. Formation of non-agricultural land from agriculture 2006-2012 [% of total]

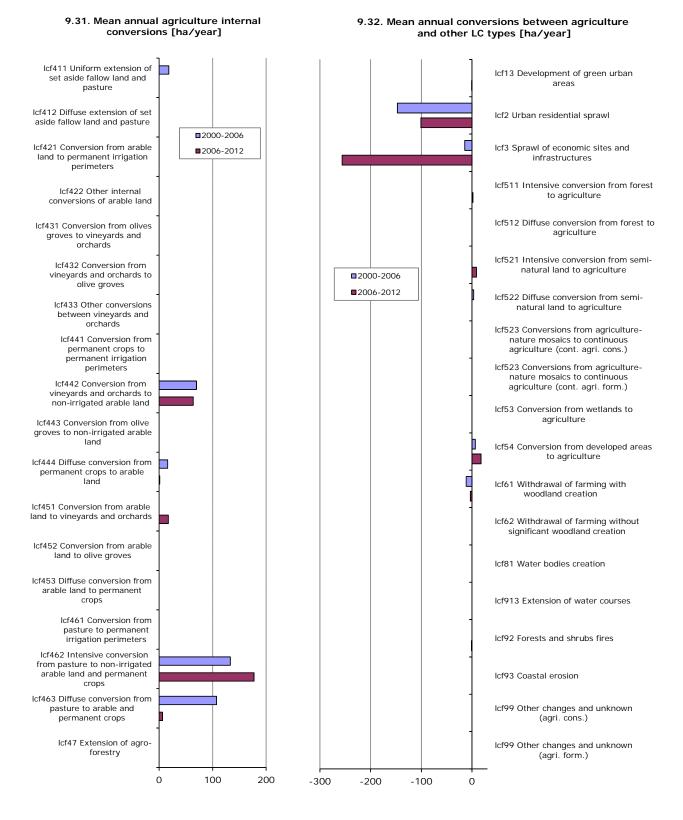


8.29. Main annual conversions between agriculture and forests & semi-natural land 2006-2012 [ha/year]



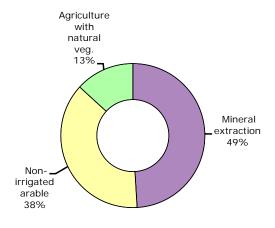
8.30. Mean annual conversion between arable land and pasture [ha/year]



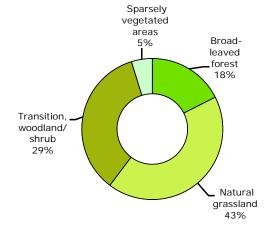


Forest & nature

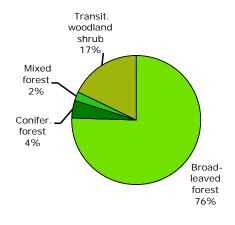
10.33. LC consumed by forest & nature 2006-2012 [% of total]



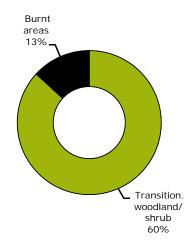
10.35. Consumption of forest & nature land by non-forest/nature 2006-2012 [% of total]



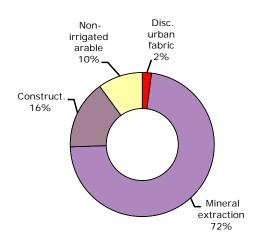
10.37. Forested land 2012 [% of total area]



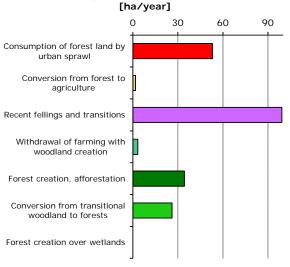
10.34. Formation of forest & nature land from non-forest /nature 2006-2012 [% of total]



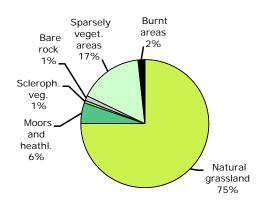
10.36. Formation of non-forest/nature land from forest & nature 2006-2012 [% of total]



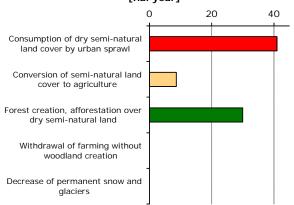
10.38. Main trends in woodland & forests consumption/formation 2006-2012



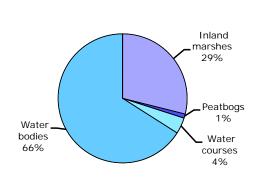
11.39. Dry semi-natural areas 2012 [% of total area]



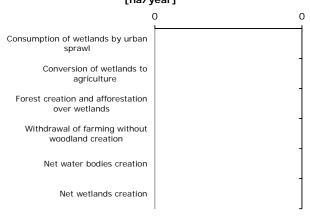
11.40. Main trends in dry semi-natural land consumption/formation 2006-2012 [ha/year]



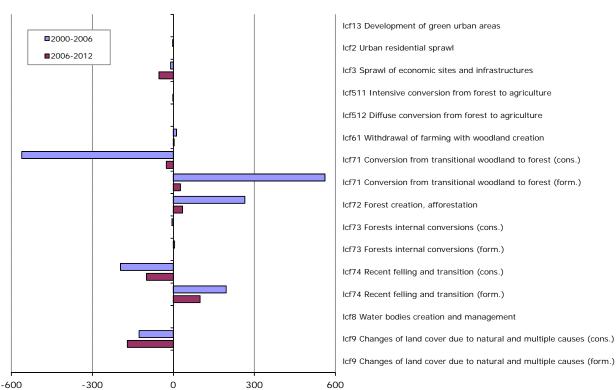
11.41. Wetlands & water 2012 [% of total area]

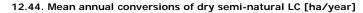


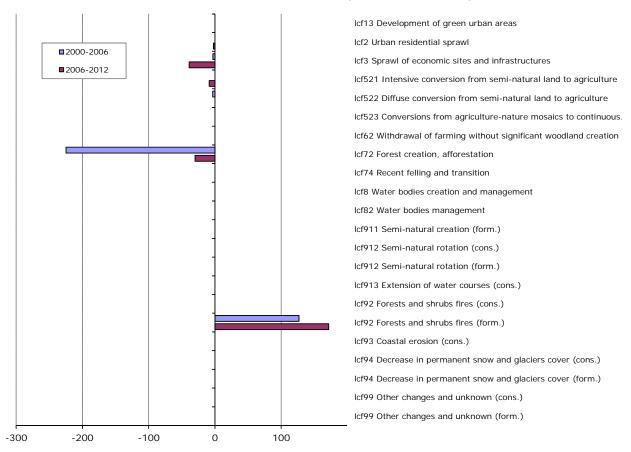
11.42. Main trends in wetlands & water consumption/formation 2006-2012 [ha/year]



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







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

