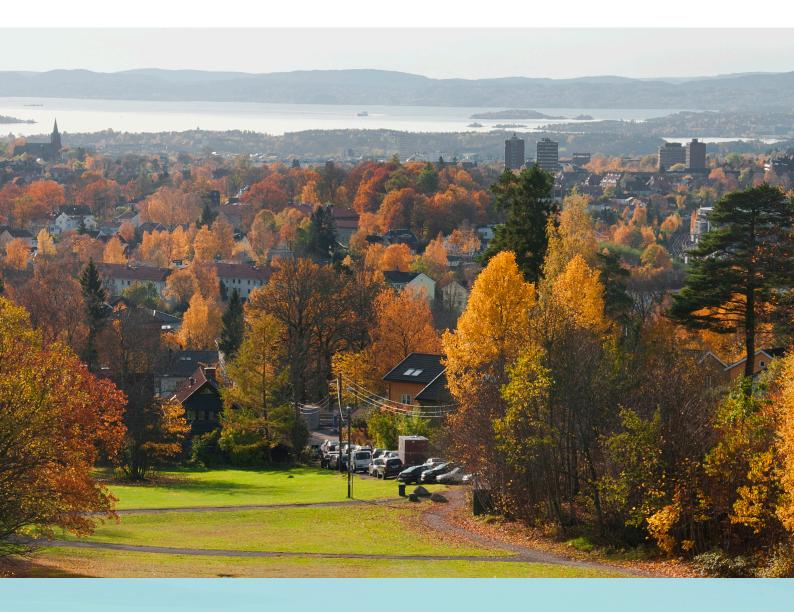
Land cover 2012





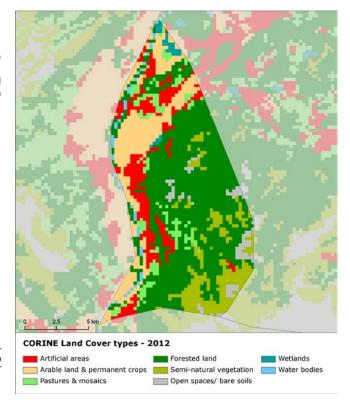
September 2017

Photo: © Toni García, My City/EEA

Land cover 2012

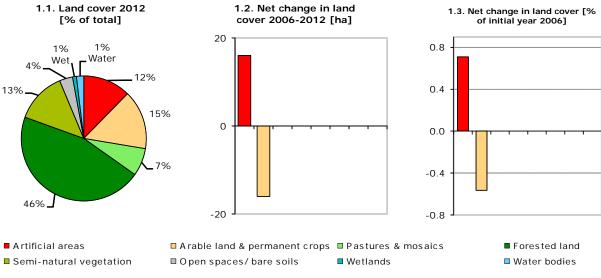
Overview of land cover & change 2006-2012

As in previous periods, the land cover development in the small country of Liechtenstein has been very limited. However, in the period 2006-2012, there occurs some amount of land cover change, namely artificial land take at the north of the capital city Vaduz.



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 Liechtenstein: 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	23	28	13	84	24	6	2	3	184
Consumption of initial LC	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0
Formation of new LC	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Net Formation of LC	0.2	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0
Net formation as % of initial year	0.7	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	
Total turnover of LC	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0
Total turnover as % of initial year	0.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Land cover 2012	23	28	13	84	24	6	2	3	184

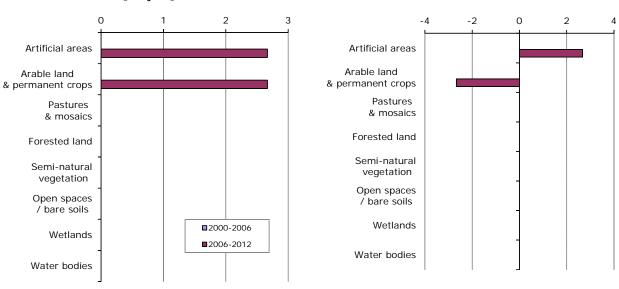
Land cover trends comparison 2000-2006 vs. 2006-2012

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

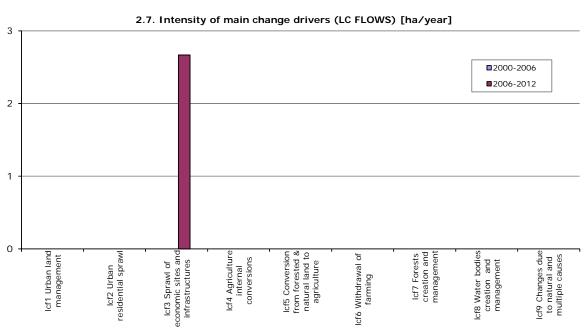


2.5. Annual turnover of LC types [ha/year]

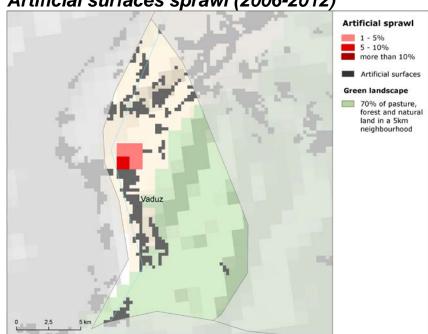
2.6. Net annual change of LC types [ha/year]

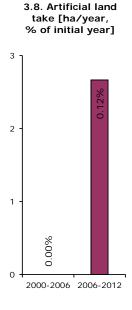


Summary trend figures	2000-2006	2006-2012
Annual land cover change [ha/year]	0	3
Annual land cover change as % of initial year	0.00%	0.01%
Land uptake by artificial development as mean annual change [ha/year]	0	3
Agricultural land uptake by urban and infrastructures development as mean annual change [ha/year]	0	3
Net uptake of forests and semi-natural land by agriculture as mean annual change [ha/year]	0	0
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]	0	0
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]	0	0



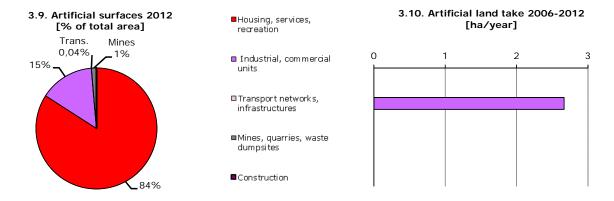
Artificial surfaces sprawl (2006-2012)

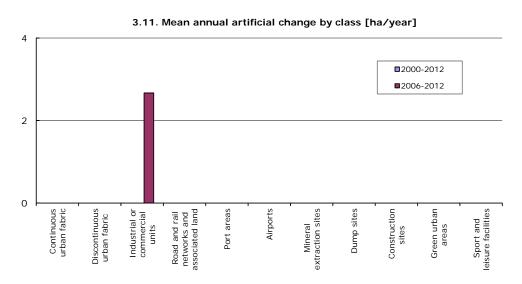


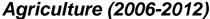


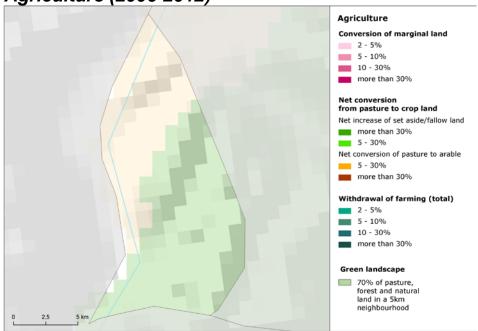
Commercial/industrial development north of Vaduz

Artificial land take, which occurs north of the capital city Vaduz, is the only land cover change in the country during the period 2006-2012. This sprawl is represented by extension of industrial or commercial units over former non-irrigated arable land. This is in contrast with the previous period, when no artificial sprawl at all was observed.



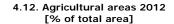


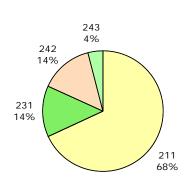


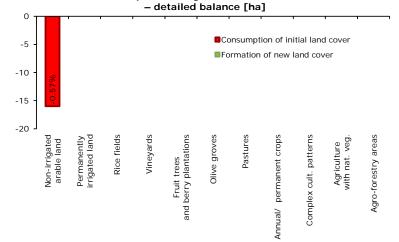


Take of arable land by artificial sprawl

The only change in Liechtenstein agriculture is a consumption of non-irrigated arable land by artificial sprawl. This change only covered about 20 hectares, however, considering the very small total area of agricultural land in the county, it means that almost 1% of the total arable land has been taken by this conversion.







4.13. Development of agricultural areas 2006-2012



■ 212 Permanently irrigated land

■ 213 Rice fields

■ 221 Vineyards

■ 222 Fruit trees and berry plantations

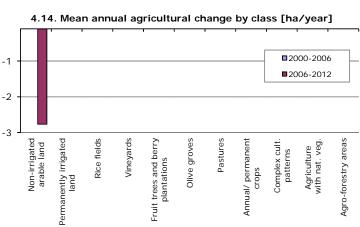
■ 223 Olive groves

■ 231 Pastures

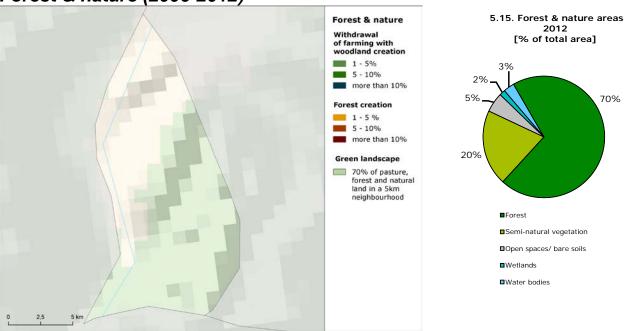
241 Annual crops associated with permanent crops

■ 242 Complex cultivation patterns

243 Agriculture land with significant areas of natural vegetation244 Agro-forestry areas

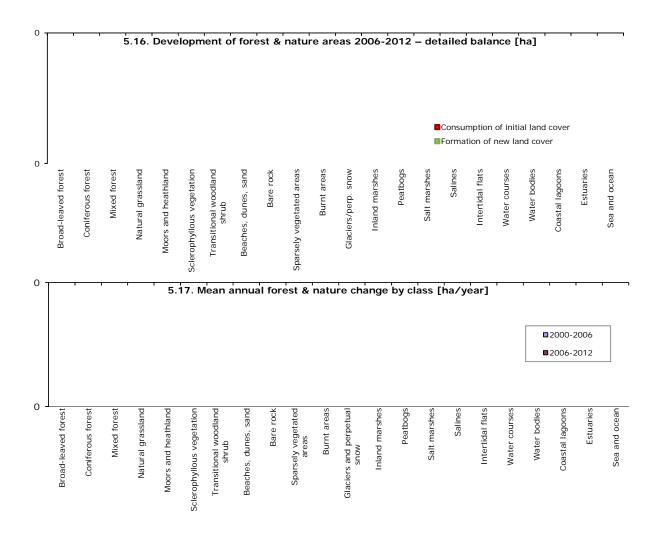


Forest & nature (2006-2012)



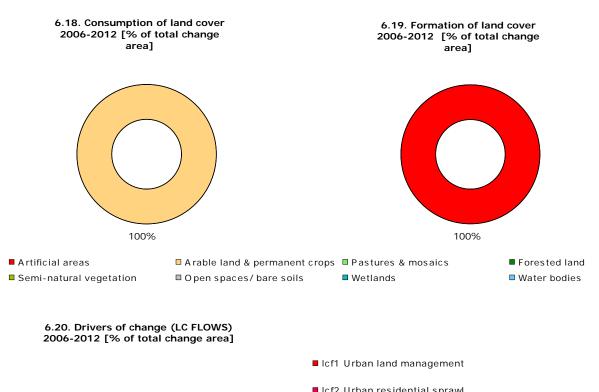
No forest and nature land development

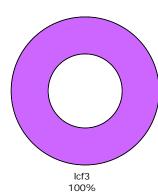
There was no observed development of the natural land in Liechtenstein, which is the same situation as in the previous period 2000-2006



Annex: Land cover flows and trends

Land cover flows 2006-2012



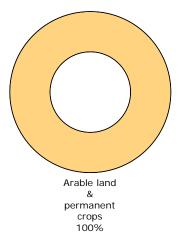


Icf2 Urban residential sprawl
Icf3 Sprawl of economic sites and infrastructures
Icf4 Agriculture internal conversions
Icf5 Conversion from forested & natural land to agriculture
Icf6 Withdrawal of farming
Icf7 Forests creation and management
Icf8 Water bodies creation and management
Icf9 Changes due to natural and multiple causes

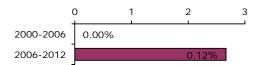
Artificial areas

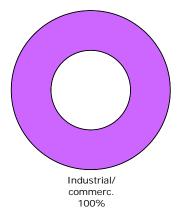
7.21. Consumption by artificial land take 2006-2012 [% of total]

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

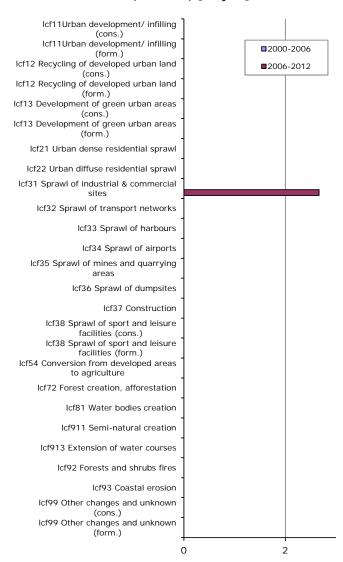


7.23. Net formation of artificial area [ha/year, % of initial year]





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



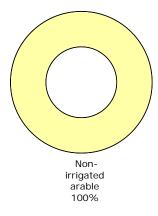
Agriculture

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

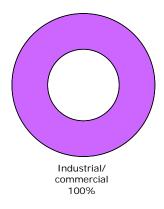
8.26. Formation of agricultural land from non-agriculture 2006-2012 [% of total]

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

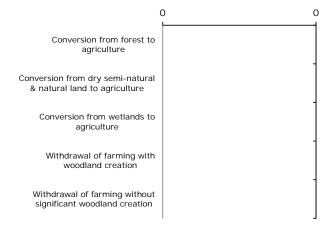
8.28. Formation of non-agricultural land from agriculture 2006-2012 [% of total]

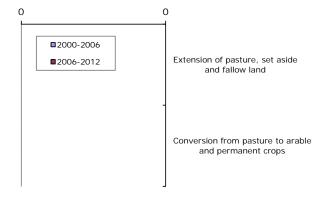


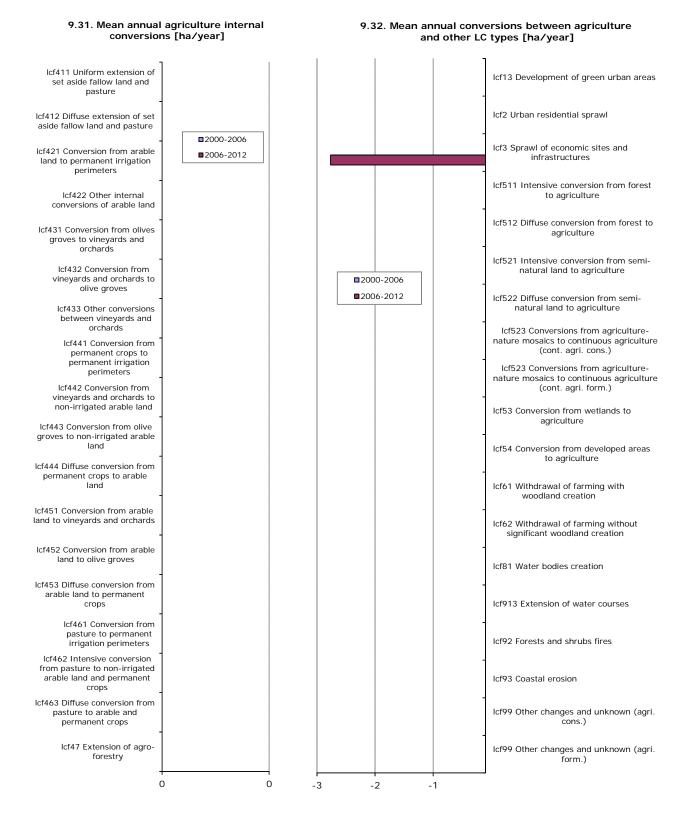
8.29. Main annual conversions between agriculture and forests & semi-natural land 2006-2012 [ha/year]



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







Forest & nature

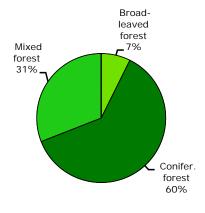
10.33. LC consumed by forest & nature 2006-2012 [% of total]

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

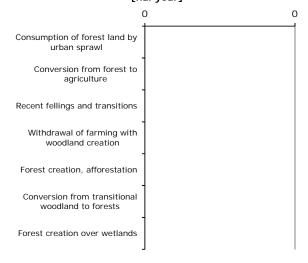
10.35. Consumption of forest & nature land by non-forest/nature 2006-2012 [% of total]

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

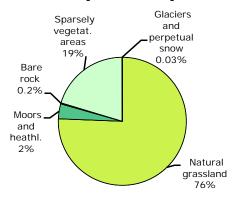
10.37. Forested land 2012 [% of total area]



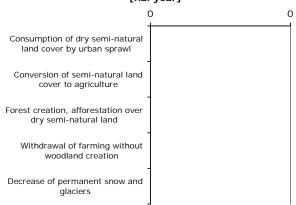
10.38. Main trends in woodland & forests consumption/formation 2006-2012 [ha/year]



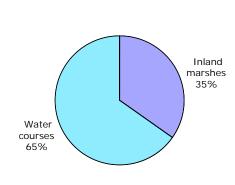
11.39. Dry semi-natural areas 2012 [% of total area]



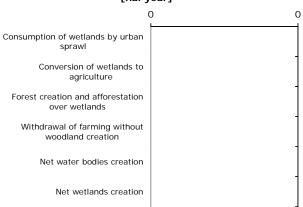
11.40. Main trends in dry semi-natural land consumption/formation 2006-2012 [ha/year]



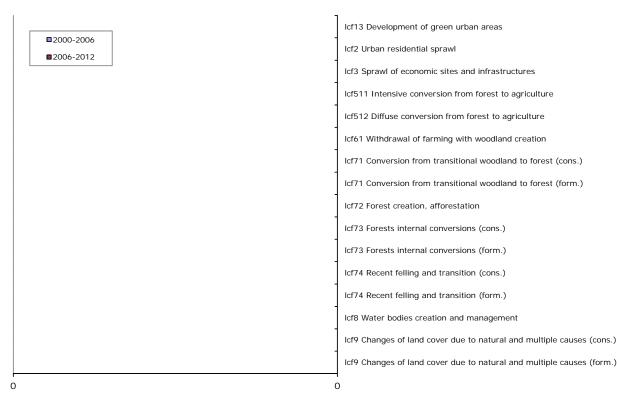
11.41. Wetlands & water 2012 [% of total area]



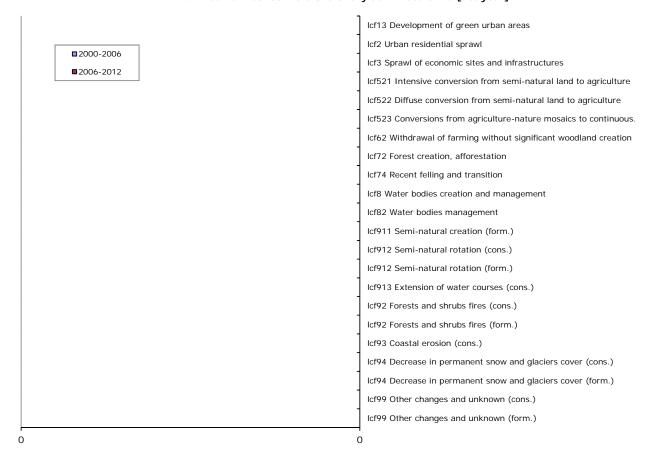
11.42. Main trends in wetlands & water consumption/formation 2006-2012 [ha/year]



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



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



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

