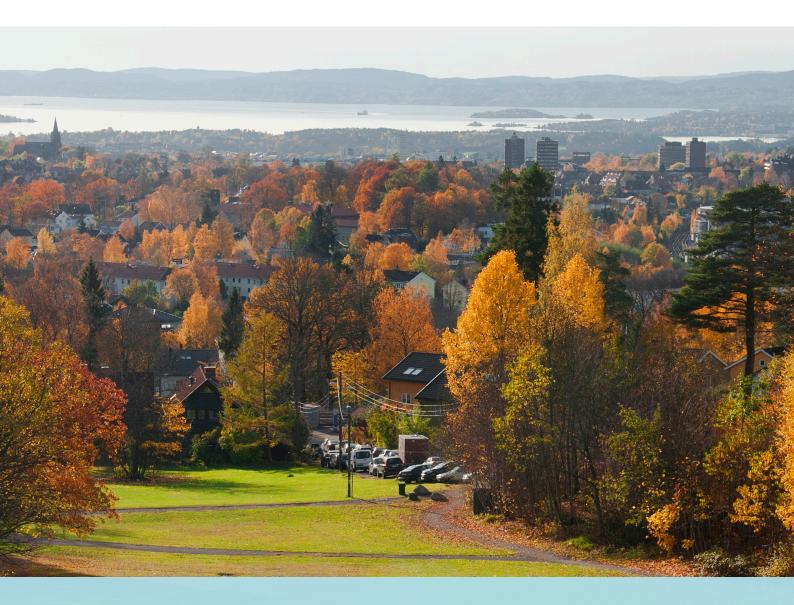
Country fact sheet

Land cover 2012







European Environment Agency

Photo: © Toni García, My City/EEA

Land cover 2012

Overview of land cover & change 2006-2012

A stabilization of the land cover development in Belgium had been indicated already in previous periods. The pace of land cover change is very slow now and exactly the same as in the period 2000-2006. Belgium is a country with one of the lowest mean annual land cover change rates in Europe. Each year, only 0.1% of the total area is converted to different land cover classes. This means significant slowdown of the overall land cover development dynamics compared to period 1990-2000, during which the change in Belgium was more intensive (0.17% of the total area per year).

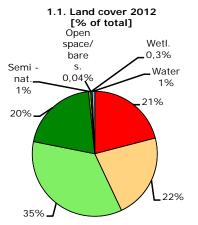
Forest creation and management together with the sprawl of economic sites and infrastructures remain the main change drivers in the country, which is a situation similar to previous time period.

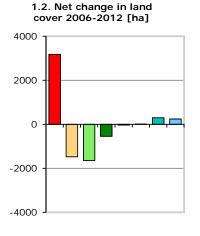
With forest management represented mostly by internal forest conversions, which brings no significant development to the landscape, the artificial development is the most powerful change driver in Belgium. However, the rate of Belgian artificial land take is very low, comparing to the European average.

Geographically, the artificial development is distributed uniformly over the whole country, while changes of forested land are concentrated in the south-eastern part of Belgium, which is characterised by predominance of natural land.

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 Belgium: 6





CORINE Land Cover types - 2012

Arable land & permanent crops

Artificial areas

Pastures & mosaics

1.3. Net change in land cover [% of initial year 2006]

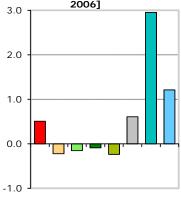
Wetlands

Water bodies

Forested land

Semi-natural vegetation

Open spaces/ bare soils



Forested land

Water bodies

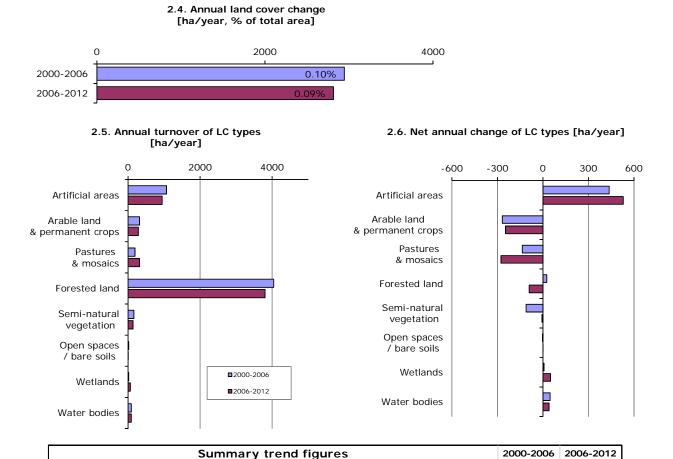
Artificial areas

Semi-natural vegetation

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



Summary balance table 2006-2012



2946

0.10%

579

428

4

11

25

2817

0.09%

614

492

-44

3

-91

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

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]

Forest & other woodland net formation as mean annual change [ha/year]

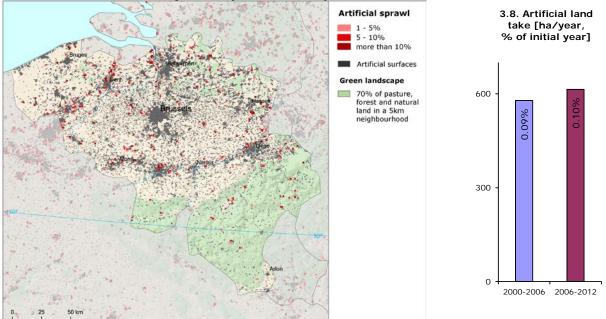
Agricultural land uptake by urban and infrastructures development as mean annual change [ha/year]

Net conversion from pasture to arable land and permanent crops as mean annual change [ha/year]

Net uptake of forests and semi-natural land by agriculture as mean annual change [ha/year]

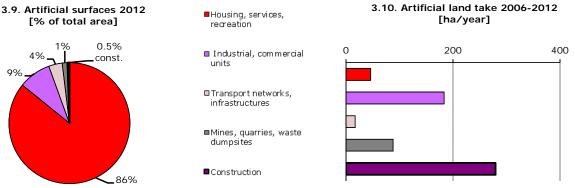
Wetlan	ds & water b	odies net forma 2.7.			[ha/year] ige drivers (l	LC FLOWS)	[ha/year]	55	90
2000 -								2 2000- 2 2006-	
1000									
0 +-	lcf1 Urban land management	lcf2 Urban residential sprawl	lcf3 Sprawl of economic sites and infrastructures	lcf4 Agriculture internal conversions	lcf5 Conversion from forested & natural land to agriculture	lcf6 Withdrawal of farming	Icf7 Forests creation and management	Icf8 Water bodies creation and management	Icf9 Changes due to natural and multiple causes

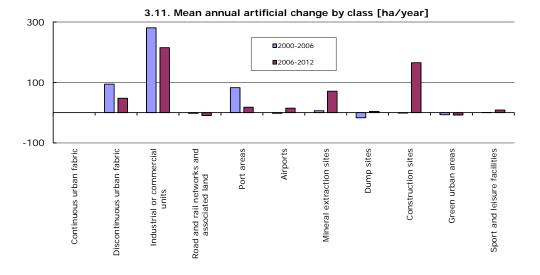
Artificial surfaces sprawl (2006-2012)

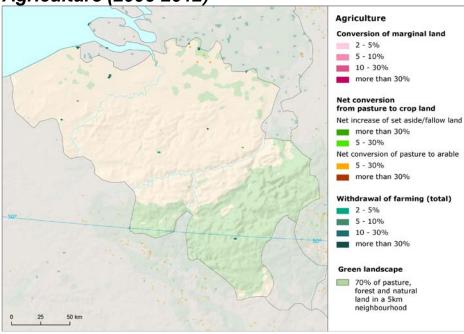


Land take rate remains low

The artificial sprawl is the second most intensive driver of land cover development in the country and the most important one. However, the sprawl rate in Belgium is still very low in comparison with the European average. It is quite surprising that there is no significant sprawl observed around the capital city of Brussels (the situation was similar also in the period 2000-2006). In contrast to previous period, construction prevails in artificial development. The intensity of the sprawl of industrial/commercial areas, which was the strongest artificial flow in the 2000-2006, decreased and it became the second most significant driver in 2006-2012. On the other hand, the rate of land take by residential fabric is very low (only 6% of total sprawl). Agricultural land, with comparable share of arable land and pasture, is the main source for the artificial sprawl. There also occurs some amount of recycling of developed urban land in Belgium, although with lower intensity compared to previous period. This flow is represented mostly by the conversion of former construction sites into commercial or industrial units and diffuse residential fabric areas.





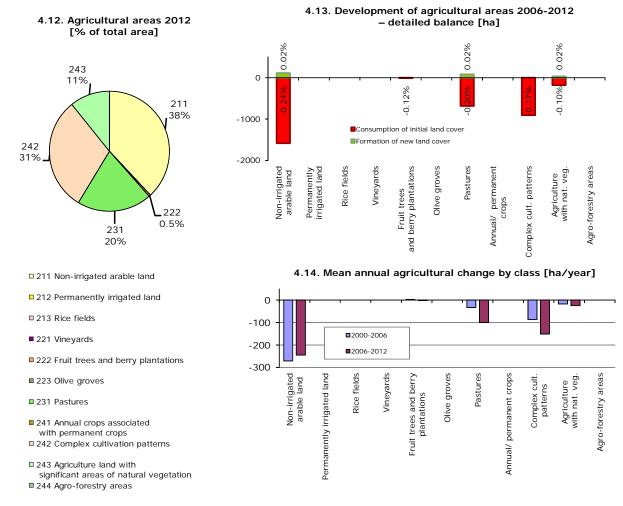


Agriculture (2006-2012)

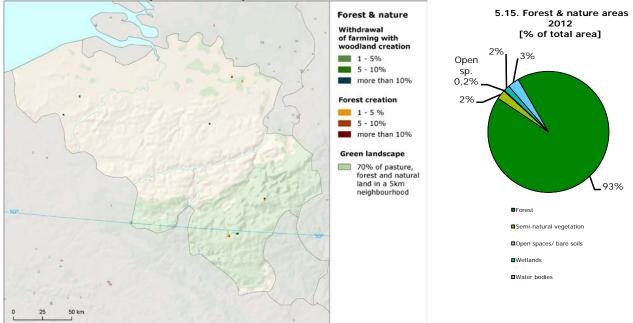
Long term stabilization

The situation in Belgian agriculture is stabilized in the long term, with no significant internal conversions. This stabilization was obvious already in previous period 2000-2006, characterized by a significant slowdown of especially conversion from pasture to arable or crop land, which was visible in the Belgian agriculture during the period 1990-2000.

The consumption of agricultural land by sprawl continues with comparable intensity as in 2000-2006, and the agricultural land remains the main source for artificial land take in the country. Although the share of arable land on total agricultural land consumed by sprawl significantly decreased, compared to previous period, it is still highest from all agricultural classes. In contrast, the share of pastures and complex cultivation patterns on total agricultural area consumed by artificial land take is higher in the period 2006-2012.

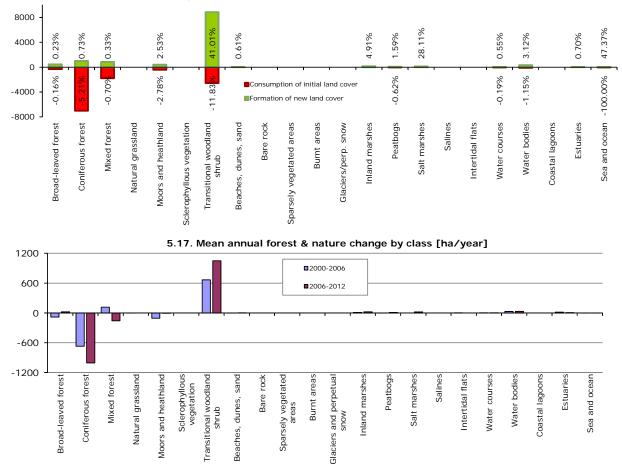


Forest & nature (2006-2012)



Consumption of forest

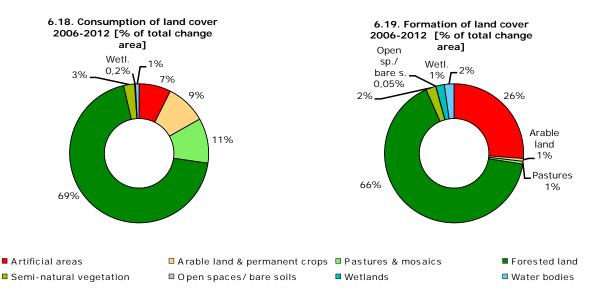
The only significant flow in the Belgian natural landscape, other than consumption by artificial land take, are internal changes of forested land, with prevailing recent felling and transitional woodland creation and consumption of mostly coniferous forest. All forest types – coniferous, broad-leaved and mixed have negative balance of net change, in contrast to transitional woodland and shrub, with significant formation of area (more than 51% of initial area in 2000). The main reason for this balance are the above mentioned recent felling and transitions, because the artificial land take consumes a comparable amount of forest and transitional woodland. Besides forested areas, also moors or heathlands and water bodies are frequently consumed by urban sprawl in Belgium, especially by new construction. However, the share of moors and heathlands on the total natural land consumed by sprawl is significantly lower than in previous period, in contrast to forested land, which was not consumed to such extent in the 2000-2006 period.



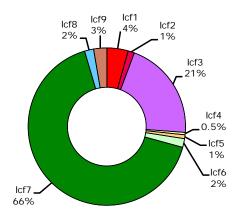
5.16. Development of forest & nature areas 2006-2012 - detailed balance [ha]

Annex: Land cover flows and trends

Land cover flows 2006-2012

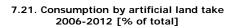


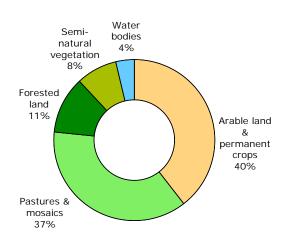
6.20. Drivers of change (LC FLOWS) 2006-2012 [% of total change area]



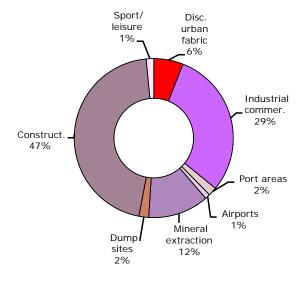
- Icf1 Urban land management
- Icf2 Urban residential sprawl
- Icf3 Sprawl of economic sites and infrastructures
- Icf4 A griculture internal conversions
- Icf5 Conversion from forested & natural land to agriculture
- □ lcf6 Withdrawal of farming
- Icf7 Forests creation and management
- Icf8 Water bodies creation and management
- Icf9 Changes due to natural and multiple causes

Artificial areas

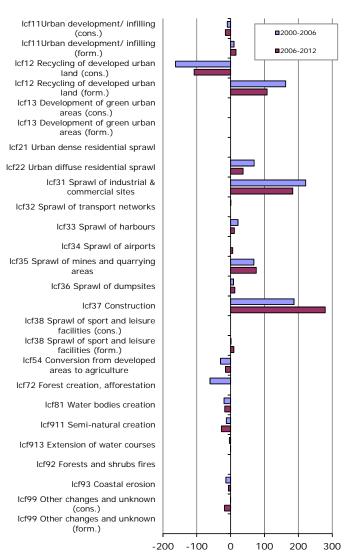




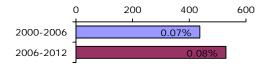
7.22. Formation by artificial land take 2006-2012 [% of total]



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



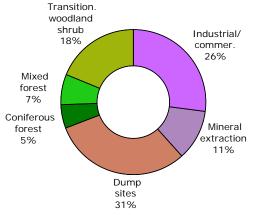
7.23. Net formation of artificial area [ha/year, % of initial year]

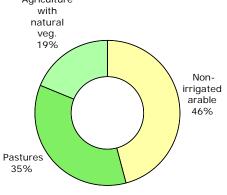


Agriculture

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

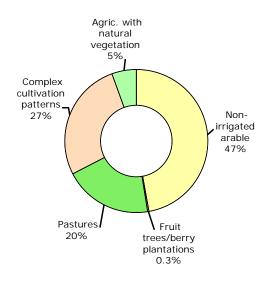




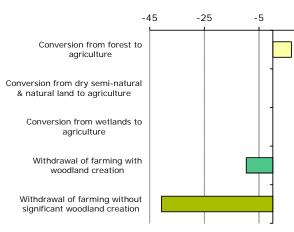


8.26. Formation of agricultural land from

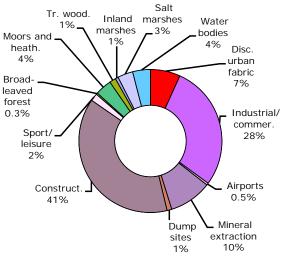
8.27. Consumption of agricultural land by non-agriculture 2006-2012 [% of total]



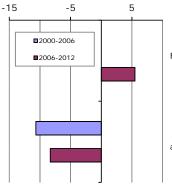




8.28. Formation of non-agricultural land



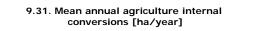
8.30. Mean annual conversion between arable land and pasture [ha/year]

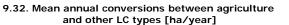


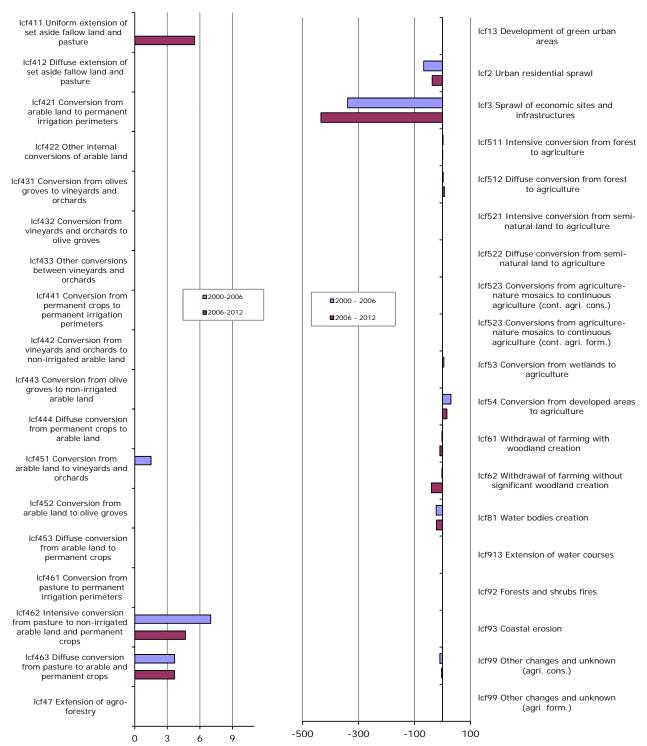
Extension of pasture, set aside and fallow land

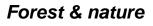
Conversion from pasture to arable and permanent crops

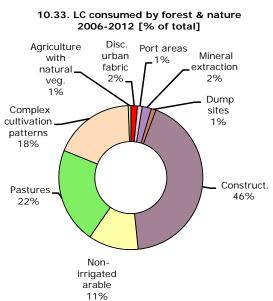
from agriculture 2006-2012 [% of total]

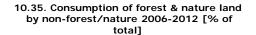


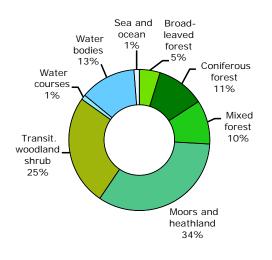


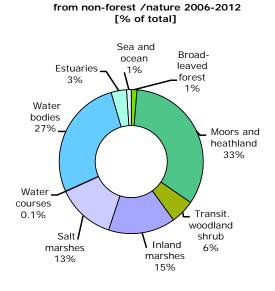






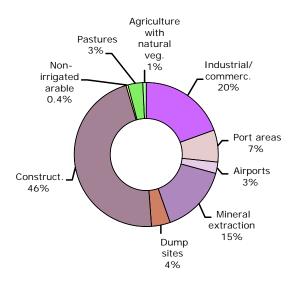


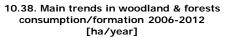


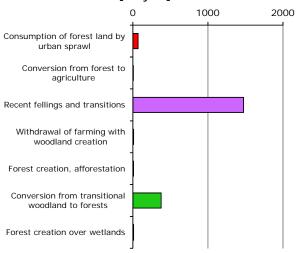


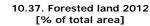
10.34. Formation of forest & nature land

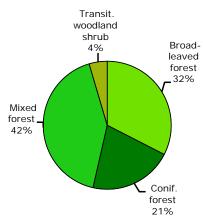
10.36. Formation of non-forest/nature land from forest & nature 2006-2012 [% of total]

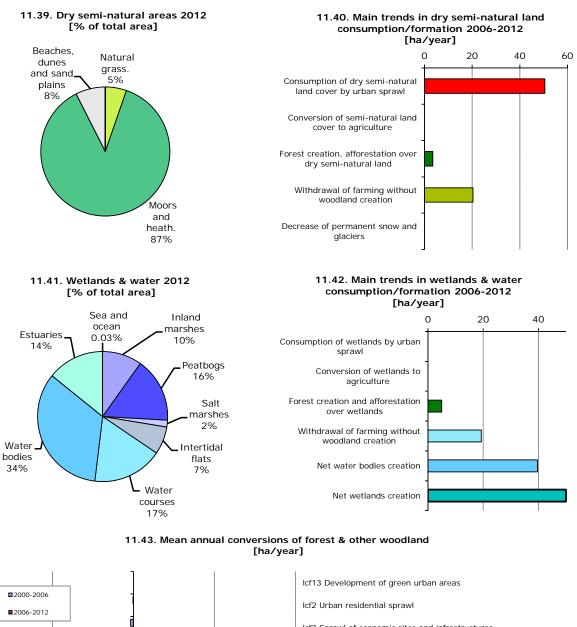








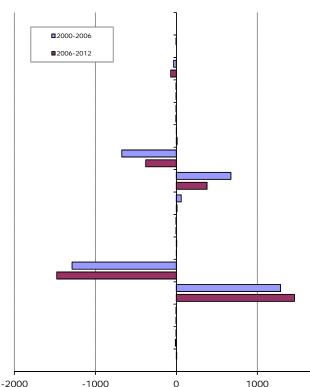




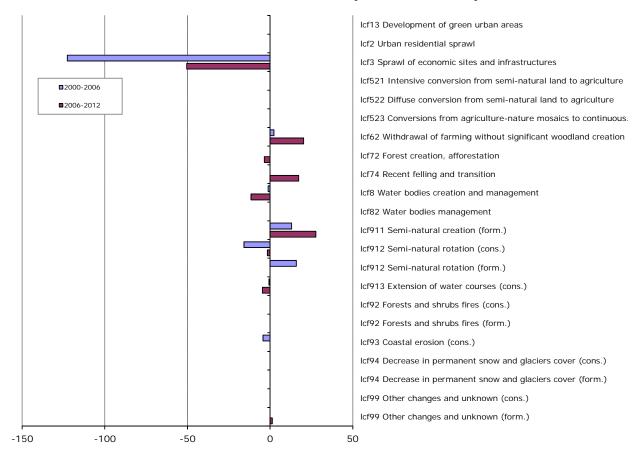
- Icf3 Sprawl of economic sites and infrastructures
- lcf511 Intensive conversion from forest to agriculture
- Icf512 Diffuse conversion from forest to agriculture
- lcf61 Withdrawal of farming with woodland creation
- lcf71 Conversion from transitional woodland to forest (cons.)
- lcf71 Conversion from transitional woodland to forest (form.)
- Icf72 Forest creation, afforestation
- lcf73 Forests internal conversions (cons.)
- lcf73 Forests internal conversions (form.)
- Icf74 Recent felling and transition (cons.)
- lcf74 Recent felling and transition (form.)

2000

- lcf8 Water bodies creation and management
- lcf9 Changes of land cover due to natural and multiple causes (cons.)
- lcf9 Changes of land cover due to natural and multiple causes (form.)



11



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

