Country fact sheet

Land cover 2012





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European Environment Agency

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Land cover 2012

Overview of land cover & change 2006-2012

In the period 2006-2012, there has been observed significant decrease of intensity of overall land cover change in Cyprus, characterized by decrease of the annual land cover change rate from 0,49% in 2000-2006 to 0,18% in 2006-2012. This means that the overall speed of landscape development is slightly below the European average. Comparison with previous period shows, that all artificial sprawl, agricultural and forest conversions lost much of their intensities. From all main land cover flows, only urban land management and changes due to natural and multiple causes have higher intensity, compared to 2000-2006.

As a result, the sprawl of economic sites and infrastructures, driven mainly by construction, is the most powerful driver of change in Cyprus in the period 2006-2012. It also holds the annual artificial land take rate on 0,61%, which, although much lower than in previous period (2,56%), is still one of the highest sprawl rates in Europe.

As usual, sprawl consumes mostly agricultural land, with comparable share of arable and pasture land and also seminatural vegetation areas in Cyprus. After this flow, changes due to natural and multiple causes (represented mainly by shrub fires), are the second most significant drivers of change in the Cyprian landscape.

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 Cyprus: 6











1.2. Net change in land





Artificial areas

Semi-natural vegetation

Arable land & permanent crops Pastures & mosaics □ Open spaces/ bare soils Wetlands





Summary balance table 2006-2012 **Artificial areas** [hundreds ha] Forested land ø Open spaces/ bare soils Semi-natural **Nater bodies** vegetation ð lands **Pastures** mosaics **FOTAL** Wetl Land cover 2006 807 3249 1197 1944 1816 189 25 21 9248 Consumption of initial LC 24.7 14.0 10.6 24.1 22.3 4.3 0.0 0.4 100 Formation of new LC 50.6 1.7 2.5 21.0 3.5 20.1 0.0 0.8 100 0.0 Net Formation of LC 25.9 -12.2 -8.1 -3.0 -18.8 15.8 0.5 0 Net formation as % of initial year 3.2 -0.7 -0.2 0.0 2.2 -0.4 -1.0 8.4 Total turnover of LC 75.4 15.7 13.0 45.1 25.7 24.4 0.0 1.2 200 Total turnover as % of initial year 9.3 0.5 1.1 2.3 1.4 12.9 0.0 5.6 2.2 Land cover 2012 833 3237 1189 1941 1798 205 25 21 9248



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

Annual land cover change as % of initial year	0.48%	0.18%
Land uptake by artificial development as mean annual change [ha/year]	1733	471
Agricultural land uptake by urban and infrastructures development as mean annual change [ha/year]	1274	344
Net uptake of forests and semi-natural land by agriculture as mean annual change [ha/year]	532	19
Net conversion from pasture to arable land and permanent crops as mean annual change [ha/year]	-134	-22
Forest & other woodland net formation as mean annual change [ha/year]	1615	-50
Dry semi-natural land cover net formation as mean annual change [ha/year]	-2169	-47
Wetlands & water bodies net formation as mean annual change [ha/year]	3	8

Annual land cover change [ha/year]

1671

4467



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

Artificial surfaces sprawl (2006-2012)



Rapid slowdown of residential sprawl

Despite its rapid slowdown, the artificial land take in Cyprus is still one of the highest in Europe and the major driver of landscape change in the country. This overall slowdown is caused mainly by decrease of diffuse residential sprawl, which was the main driver of artificial development in the previous period. This residential sprawl was probably connected to rapid development of tourism, with significant growth of accommodation facilities. In the period 2006-2012, the residential sprawl became only the second most powerful driver, leaving construction on the first position, with a bit higher intensity. The map shows, that the residential sprawl disappeared mostly from the western part of the island (especially from the surroundings of Paphos city). There were also significant concentrations of the residential development on the northern and eastern shore and around the Lemesos city in the south in the previous period, which, all, disappeared in the 2006-2012.





Agriculture (2006-2012)



Slowdown of agricultural conversions

Development of agricultural land in Cyprus shows rapid decrease of intensity, compared to previous period. This is valid for both internal agricultural conversions and conversion from forested and natural land to agriculture, which were quite frequent in the period 2000-2006. Both arable and crop land and pasture show negative balance of net change, which is caused mainly by consumption of agricultural land through artificial land take, in particular construction. The rest of the agricultural flows, which were observable in the previous period, almost disappeared from the Cyprian landscape. It includes diffuse extension of set aside fallow land and pasture and diffuse conversion from permanent crops to arable land and, in particular, conversions from semi-natural land to agriculture, which were quite frequent in the previous period 2000-2006.



Forest & nature (2006-2012)



Shrub fires back again

The pace of development of natural landscape is much slower than in the previous period 2000-2006 and the overall intensity is very low. Forest creation and management (represented mostly by afforestation of burnt areas in Cyprus), which was the most powerful change driver before, lost most of its intensity. On the other hand, there newly occurs certain amount of internal forest conversions between forest and transitional woodland (in both directions) and also forests and shrubs fires returned to the Cyprian landscape in the period 2006-2012, which mainly consumed natural grassland or sclerophyllous vegetation.



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 Agriculture 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



33%

2000-2006

2006-2012

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



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]



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



8

9.31. Mean annual agriculture internal conversions [ha/year]

9.32. Mean annual conversions between agriculture and other LC types [ha/year]



Forest & nature



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]







10.37. Forested land 2012 [% of total area]











- Icf9 Changes of land cover due to natural and multiple causes (cons.)
- Icf9 Changes of land cover due to natural and multiple causes (form.)



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











