

QUARRY CURFS, NL

CURRENT STATE: Former limestone quarry (extraction ended in 2009), restored

DESCRIPTION

The Quarry Curfs are located northeast of Maastricht, between Maastricht and Houthem in the Province of Limburg. Covering 41 ha the former limestone quarry is already restored and managed by Limburg Landschap as a nature reserve.

Vegetation colonisation has occurred relatively quickly and the site now contains over several species of conservation interest, including the yellow-bellied toad (*Bombina variegata*) whose habitat is managed in part by IKL. There is a herd of ~30 goats in the quarry to limit excessive vegetation growth in some areas.

A perimeter fence surrounds the site which is closed to the public, although a viewpoint overlooks most of the site and Limburgs Landschap organises guided tours for visitors on a regular basis.



CURRENT RESTORATION STATE

- nature reserve, restricted access (not public)

ECOSYSTEM SERVICES PROVIDED:

- global climate regulation (carbon storage and sequestration)
- habitat provision for protected species,
- pollination for adjacent farmland,
- recreation (guided tours)
- aesthetic

ALTERNATIVE RESTORATION STATE

- unmanaged wildlife

ECOSYSTEM SERVICES PROVIDED:

- habitat provision
- global climate regulation (carbon storage and sequestration)



| RELEVANT ESS CICES Class | ASSESSMENT METHODS | DATA REQUIREMENTS |
|---|--|---|
| Global climate regulation (carbon storage and sequestration) | <ul style="list-style-type: none"> ▪ field surveys combined with InVEST modelling. (Mg and $Mg\ yr^{-1}$) | <ul style="list-style-type: none"> ▪ soil samples/depths and vegetation measurements from quarry |
| Maintaining nursery populations and habitats (habitat provision) | <ul style="list-style-type: none"> ▪ replacement cost (£) or ▪ benefit transfer or ▪ discrete choice experiment (CV/CM) | <ul style="list-style-type: none"> ▪ cost of creating equivalent area of habitat elsewhere ▪ WTP for protection of endangered species ▪ costs to create and manage the habitat |
| Physical use of landscapes (recreation) | <ul style="list-style-type: none"> ▪ benefit transfer or ▪ CV on tour users | <ul style="list-style-type: none"> ▪ visitor numbers on guided tours ▪ WTP for nature-based recreation of restored quarries |
| Aesthetic | <ul style="list-style-type: none"> ▪ discrete choice experiment (CV/CM) | <ul style="list-style-type: none"> ▪ WTP for aesthetic values (sense of place, representations of nature) ▪ visitor numbers on the paths around the site |
| General | | <ul style="list-style-type: none"> ▪ detailed GIS map and/or aerial photo of project area |



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