

Ecography

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Supplementary material

Appendix 1: Table A1. Environmental variables calculated in the secondary sampling units and used in the modelling procedures

| Variable | Source | Year | Units |
|---|-----------|------|-------|
| Average altitude | DEM-SPW | | m |
| Average orientation | DEM-SPW | | ° |
| Average slope | DEM-SPW | | % |
| Topographical moisture index [†] | DEM-SPW | | |
| Average spring temperature ^{††} | Worldclim | 2009 | °C |
| Average spring precipitation rate ^{††} | Worldclim | 2009 | mm |
| Surface of urban area | COSW | 2008 | ha |
| Surface of spring cereal and corn cultures | SIGEC | 2006 | ha |
| Surface of winter cereal cultures | SIGEC | 2006 | ha |
| Surface of forage cultures | SIGEC | 2006 | ha |
| Surface of spring-summer hoed cultures | SIGEC | 2006 | ha |
| Surface of permanent grasslands | COSW | 2008 | ha |
| Surface of temporary grasslands | COSW | 2008 | ha |
| Surface of natural (dry) grasslands | COSW | 2008 | ha |
| Surface of broadleaved forest | MRW | 1993 | ha |
| Surface of coniferous forest | MRW | 1993 | ha |
| Surface of mixed forest | MRW | 1993 | ha |
| Surface of standing water | COSW | 2008 | ha |
| Surface of orchards | COSW | 2008 | ha |
| Surface of wetlands | COSW | 2008 | ha |
| Number of isolated trees and bushes | IGN | 2009 | |
| Total length of tree lines and hedgerows | IGN | 2009 | m |
| Dominant soil type ^{†††} | CNSW | 2007 | |

DEM-SPW: Digital Elevation Model of the ‘*Service Public de Wallonie*’.

CNSW: ‘*Cartographie Numérique des Sols de Wallonie*’ – Soil map of Wallonia (scale: 1:10000).

COSW: ‘*Cartographie de l’Occupation du Sol en Wallonie*’ – Land use map of Wallonia (scale: 1:10000).

IGN: ‘*Institut Géographique National*’ – Land use map of Belgium (scale: 1:10000).

MRW: ‘*Ministère de la Région Wallonne*’ – Land cover map of Wallonia (pixel resolution: 20 meters).

SIGEC: ‘*Système Intégré de Gestion et de Contrôle*’ – Agricultural land management map of Wallonia (scale: 1:10000).

Worldclim: Global climate data (<http://www.worldclim.org/>).

[†] Topographical moisture index was calculated following Beven and Kirkby (1979).

^{††} Weather conditions in spring were calculated as three-month averages fitted to the breeding period of the species.

^{†††} Categorical variable