MIRABEL Models for Integrated Review and Assessment of Biodiversity in European Landscapes

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Conceptual framework

The DPSIR framework

MIRABEL assesses the impact of Environmental pressures on Biodiversity

The impact assessment is quantitative and spatially explicit

Example 1: Farming intensification

Indicator of pressure
Change in Nitrogen surplus 1990-2000

Biodiversity impact
Distribution of Calcareaous grassland affected by increase or decrease in Nitrogen surplus

Example 2: Nitrogen deposition

Pan-European assessment
Proportion of sensitive habitats at risk

Impact of research

MIRABEL is the official framework used by the European Environment Agency in its prospective analyses of Biodiversity trends. Results were largely used in the latest State of the Environment report.

As such, MIRABEL will be the framework for biodiversity assessment in the European contribution to the Millennium Ecosystem Assessment

Reference