

Section	Description
Resource Title	Filtration of surface water by ecosystem types – Flow/Supply
Resource Abstract	Filtration of surface water by terrestrial ecosystems is an important service that directly contributes to mitigate water pollution. This multi-faceted ES includes a variety of ecosystem types and pollutants. Among the different types of pollutants are nutrients, such as nitrogen or phosphorous, pesticides, heavy metals or organic matter. Within AlpES the outcomes of the InVEST NDR model (Nutrient Delivery Ratio) have been used to assess the nitrogen loads and the filtration capacities by different ecosystems. This model follows a mass balance approach, describing the movement of the mass of nutrient through space. Unlike more sophisticated nutrient models, NDR does not represent the details of the nutrient cycle but rather represents the long-term, steady-state flow of nutrients through empirical relationships.
Resource Type	Dataset
Resource locator	http://www.alpes-webgis.eu/?X=850359.92&Y=5947762.56&zoom=6&lang=en&focus=focus_alpes&bgLayer=alpes.osm.stamentoner.60002&layers=alpes.alpinespace.40001.wms.alpes.essi.10072&catalogNodes=101000000,101000008&layers_opacity=1,0.7
Unique Resource Identifier	Z6WH-RYRJ-LQ56-CC3S
Resource Language	eng
Topic Category	Environment
Keyword value	Land use (INSPIRE Spatial Data Theme) Land cover (INSPIRE Spatial Data Theme) Filtration (GEMET Concepts) Nitrogen (GEMET Concepts)
Originating controlled vocabulary	- title: GEMET - INSPIRE themes, version 1.0 - date: -dateType: publication -date: 2008-06-01 - title: GEMET - Concepts, version 4.0.1 - date: -dateType: publication -date: 2017-06-28
Geographic bounding box	West = 1.986194 East = 18.622061 North = 50.068114 South = 42.700501
Coordinate reference System	EPSG: 3035 (ETRS89, LAEA)
Temporal extent	2012

Date of publication	2018-07-20
Lineage	The flow/supply indicator represents the actual amount of nitrogen that is reduced within a single municipality. This is the capacity of nitrogen filtration, determined by the difference between the loaded nitrogen (N loads per land-use type, N atmospheric deposition and N biological fixation) and the nitrogen exported from the area of a municipality. Both these values are calculated using the InVEST NDR model.
Spatial resolution	100000
Specification	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services, date of publication: 2010-12-08.
Degree	Null
Conditions applying to access and use	CC BY-NC 4.0
Limitations on public access	No Limitation
Responsible party	Eurac Research, Viale Druso 1, 39100 Bolzano, Italy Institute for Alpine Environment - alpine.environment@eurac.edu
Responsible party role	Author
Metadata point of contact	Eurac Research, Viale Druso 1, 39100 Bolzano, Italy Institute for Alpine Environment - alpine.environment@eurac.edu
Metadata date	2018-04-20
Metadata language	eng