

Short name	Spiritual meaning of nature
CICES class name	Spiritual meaning of nature
CICES Section	Cultural (biotic)
CICES Class code	3.2.1.2

Brief Description

- The things in nature that have spiritual importance for people
- The biophysical characteristics or qualities of species or ecosystems (settings/landscapes/cultural spaces) that are deemed to have sacred or religious significance for people

Sample Indicators









Indicator values from			
Experiment or direct measurement		Survey	
Expert assessment		Statistical- or census data	
Model or GIS		Literature values	
Stakeholder participation		Not provided	

Table 3: Regional Scale




Indicator	Unit	Indicator values from
^[1] Participatory mapping of inspiration, spiritual and religious values: Respondents in an online survey mark on a map areas in their region where different cultural ES are provided. Then, the proportion of markings in each of the investigated land cover classes is calculated and multiplied with the area extent of the respective land cover classes in the sub region. Finally, the result for all land cover classes are summed up.	[ha]	
^[2] For services that can be monetized: value of cultural services	[\$ * km ⁻² * yr ⁻¹]	
^[2] For services that can not be monetized: qualitative value assessment using Likert-scales	[-]	

Table 4: National Scale

Indicator	Unit	Indicator values from
^[3] Religious monuments	[not specified]	⊘
^[3] Pilgrim paths in agro-ecosystems	[not specified]	⊘

References

No.	Citation
1	Jaligot R, Chenal J, Bosch M, Hasler S (2019) Historical dynamics of ecosystem services and land management policies in Switzerland. <i>Ecological Indicators</i> 101: 81-90. DOI: 10.1016/j.ecolind.2019.01.007
2	Gasparatos A, Romeu-Dalmau C, von Maltitz GP, Johnson FX, Shackleton C, Jarzebski MP, Jumbe C, Ochieng C, Mudombi S, Nyambane A, Willis KJ (2018) Mechanisms and indicators for assessing the impact of biofuel feedstock production on ecosystem services. <i>Biomass & Bioenergy</i> 114: 157-173. DOI: 10.1016/j.biombioe.2018.01.024.
3	Maes J, Liqueste C, Teller A, Erhard M, Paracchini ML, Barredo JJ, Grizzetti B, Cardoso A, Somma F, Petersen JE, Meiner A, Gelabert ER, Zal N, Kristensen P, Bastrup-Birk A, Biala K, Piroddi C, Egoh B, Degeorges P, Fiorina C, Santos-Martín F, Naruševičius V, Verboven J, Pereira HM, Bengtsson J, Gocheva K, Marta-Pedroso C, Snäll T, Estreguil C, San-Miguel-Ayanz J, Pérez-Soba M, Grêt-Regamey A, Lillebø AI, Malak DA, Condé S, Moen J, Czúcz B, Drakou EG, Zulian G, Lavalle C (2016) An indicator framework for assessing ecosystem services in support of the EU Biodiversity Strategy to 2020. <i>Ecosystem Services</i> 17: 14-23. DOI: 10.1016/j.ecoser.2015.10.023