

Ecosystem Service	Wind protection
CICES class name	Wind protection
CICES Section	Regulation & Maintenance (Biotic)
CICES Class code	2.2.1.4

Brief Description

- Protecting people and/or their property from strong winds
- Reduction in the speed of air movement by plants that mitigates or prevents potential damage to human or human health

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 1: Regional Scale

Indicator	Unit	Indicator values from
^[3] Storm protection: expert-based index for ES provision by land cover class [1-5] multiplied by the area of the land cover class [km ²]	Index 1-5 * km ⁻²	 ,  , 
^[3] Storm protection value: expert-based index for ecosystem service provision by land cover class [1-5], multiplied by the area of the land cover class [km ²] and a literature-based, monetary value of the ecosystem service	\$ * ha ⁻¹ * yr ⁻¹	 ,  , 

Table 2: National Scale

Indicator	Unit	Indicator values from
^[1] Historical analysis: storm protection in a region: occurrence of trees and hedges planted around houses as storm protection	Not provided	 , 
^[2] Storm protection: Density of hedgerows	Not specified	

References

No.	Citation
1	Dittrich A, von Wehrden H, Abson DJ, Bartkowski B, Cord AF, Fust P, Hoyer C, Kambach S, Meyer MA, Radzevičiūtė R, Nieto-Romero M, Seppelt R, Beckmann M (2017) Mapping and analysing historical indicators of ecosystem services in Germany. <i>Ecological Indicators</i> 75: 101-110. DOI: 10.1016/j.ecolind.2016.12.010
2	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-Ayán 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
3	Huq N, Bruns A, Ribbe L (2019) Interactions between freshwater ecosystem services and land cover changes in southern Bangladesh: A perspective from short-term (seasonal) and long-term (1973-2014) scale. <i>Science of the Total Environment</i> 650: 132-143. DOI: 10.1016/j.scitotenv.2018.08.430