

Supplementary Material: List of spatial datasets used for the individual assessment of ecosystem service supply.

Section	Ecosystem Service	Indicator	Input Data [unit]	Data-Type, Spatial Resolution	Source	
Provisioning	Freshwater supply	Water provision	Annual average precipitation; period 1994-2004 [mm]	raster, 1000 m	[1]	
			Reference evapotranspiration; period 1994-2004 [mm]	raster, 1000 m	[1]	
			Root restricting layer depth [mm]	vector; converted to raster of 10 m	[2]	
			Plant available water content [mm]	vector; converted to raster of 10 m	[2]	
			Land use (categorical)	vector; converted to raster of 10 m	[3,4]	
	Provision of biomass	Timber supply	Digital elevation model [m]	raster, 10 m	[5]	
			Timber volume [m ³ /ha]	vector; converted to raster of 10 m	[6]	
	Agricultural production	Food production	Land use (categorical)	vector; converted to raster of 10 m	[3,4]	
			Water holding capacity (categorical)	vector; converted to raster of 10 m	[2]	
Soil moisture (categorical)			vector; converted to raster of 10 m	[2]		
Regulating	Global climate regulation	Carbon storage	Carbonate content (categorical)	vector; converted to raster of 10 m	[2]	
			Land use (categorical)	vector; converted to raster of 10 m	[3,4]	
			Timber volume [m ³ /ha]	vector; converted to raster of 10 m	[6]	
	Water quality regulation	Erosion control	Average precipitation of summer months; period 1981–2011 [mm]	raster, 1000 m	[1]	
			Soil erodibility (categorical)	vector; converted to raster of 10 m	[2]	
			Land use (categorical)	vector; converted to raster of 10 m	[3,4]	
	Cultural	Outdoor recreation	Recreational potential	Digital elevation model [m]	raster, 10 m	[5]
				Land use (categorical)	vector; converted to raster of 10 m	[3,4]
				Protected areas (categorical)	vector; converted to raster of 10 m	[7,8]
			Water bodies (categorical)	vector; converted to raster of 10 m	[3,4]	

References

1. DWD. CDC, *Climate Data Center - Deutscher Wetterdienst*; 2014. Available online: <ftp://ftp-cdc.dwd.de/pub/CDC/> (accessed on 11 May 2014).
2. HLOG. *BFD50 Digitale Bodenflächendaten mit Sachdaten von Hessen 1:50000*, 2012th ed; Hessisches Landesamt für Umwelt und Geologie, FISBO (Fachinformationssystem Boden/Bodenschutz): Wiesbaden, Germany, 2006.
3. HMUELV. *InVeKoS: Integriertes Verwaltungs- und Kontrollsystem der Agrarverwaltung*; Hessisches Ministerium für Umwelt, ländlichen Raum und Verbraucherschutz: Wiesbaden, Germany, 2011.
4. ATKIS. *Amtliche Topographisch-Kartographisches Informationssystem*; Hessisches Landesamt für Bodenmanagement und Geoinformation: Wiesbaden, Germany, 2012.
5. HVBG, H. *Digitales Geländemodell (DGM 10)*; Hessisches Landesamt für Bodenmanagement und Geoinformation: Wiesbaden, Germany, 2013.
6. FENA. *Forsteinrichtung mit Sachdaten*, 2014th ed; State Forest Enterprise Hessen-Forst: Gießen, Germany, 2014.
7. HLOG. *WMS Naturschutz*; 2015. Available online: <http://www.hlug.de/start/geografische-informationssysteme/geodienste/naturschutz.html> (accessed on 24 February 2015).
8. EEA. *European Inventory of Nationally Designated Areas*; 2005. Available online: <http://www.eea.europa.eu/data-and-maps/data/nationally-designated-areas-national-cdda-9> (accessed on 23 February 2015).