

Appendix 2. Evidence associated with assigning scale of ecosystem service processes.

Table A.2.1: Identifying scales of ecosystem service production

Ecosystem service	Factors contributing to the production of service	Scale	References	Scale of production
Crop production	Human engineering	Site	(MA 2003, 2005a, b, Tschardt et al. 2005, Vermaat et al. 2005)	Site
	Regulating services in soil	Site	(Cumming and Spiesman 2006, MA 2003, 2005a, b, O'Neill et al. 1989, Tallis and Polasky 2009)	
	Wind regulation	Site	(MA 2005a, b)	
	Pest control	Site to local	(Cumming and Spiesman 2006, MA 2005a, b, Tallis and Polasky 2009)	
	Erosion control	Site	(Cumming and Spiesman 2006, Cumming et al. 2006, Daily 1997, MA 2003, 2005a, b)	
Pork production	Crop production	Site	(Cumming et al. 2006, Daily 1997, MA 2005a, b, Tschardt et al. 2005, Vermaat et al. 2005)	Site
	Factors underlying crop production	Site to local	(MA 2003, 2005a, b, Vermaat et al. 2005)	
Drinking water	Regulating services in soil	Site	(Cumming and Spiesman 2006, Lant et al. 2005, MA 2003, 2005a, b)	Regional (watershed)
	Erosion control	Site	(Conroy et al. 2003, Lant et al. 2005, MA 2005a, b)	
	Watershed dynamics, including landscape patterns (e.g. riparian zones)	Watershed	(Brauman et al. 2007, Conroy et al. 2003, Lant et al. 2005, MA 2005a, b, O'Neill et al. 1989, Tschardt et al. 2005, van Jaarsveld et al. 2005)	
Maple syrup production	Pest regulation	Site to local	(Cumming et al. 2006, Daily 1997, MA 2005a, b)	Site
Deer hunting	Matrix of land covers (including connectivity of forest, proximity of agricultural land)	Local to regional	(Cumming and Spiesman 2006, Lant et al. 2005, MA 2003, 2005a, b, Tschardt et al. 2005)	Local (landscape) to regional
	Forest habitat	Local	(MA 2005a, b)	
	Food species	Local	(MA 2005a, b, Vermaat et al. 2005)	
Nature	Landscape beauty	Local	(MA 2003, 2005a, b, Vermaat et al. 2005)	Local

appreciation	Matrix of land covers (including connectivity)	Local to regional	(Cumming and Spiesman 2006, Lant et al. 2005, MA 2003, 2005a, b, Tschardt et al. 2005)	(landscape) to regional
	Rare and interesting species	Local to regional	(MA 2005a, b, Reid et al. 2006, Vermaat et al. 2005)	
Tourism	Landscape beauty	Local	(MA 2003, 2005a, b, Reid et al. 2006)	Local (landscape)
	Unique landscape features (e.g. mountains)	Local	(MA 2005a, b, Vermaat et al. 2005)	
	Specific terrain for recreation	Local	(MA 2005a, b, Reid et al. 2006)	
Summer cottages	Landscape beauty	Local	(MA 2003, 2005a, b)	Local (landscape)
	Landscape features (e.g. lakes, forest, mountains)	Local	(MA 2005a, b, Vermaat et al. 2005)	
	Amenity services	Local	(MA 2005a, b)	
Forest recreation	Landscape beauty	Local	(MA 2003, 2005a, b, Reid et al. 2006)	Local (landscape)
	Topography	Local	(MA 2005a, b, Vermaat et al. 2005)	
Carbon sequestration	Regulating ecosystem services	Site	(Cumming and Spiesman 2006, Gibson et al. 2000, Lant et al. 2005, MA 2003, 2005a, b)	Site
	Human engineering	Site	(Cumming and Spiesman 2006, Lant et al. 2005, MA 2003, 2005a, b)	
Soil retention of phosphorus	Regulating ecosystem services	Site	(Conroy et al. 2003, Cumming and Spiesman 2006, Lant et al. 2005, MA 2003, 2005a, b, O'Neill et al. 1989)	Site
	Human engineering	Site	(MA 2003, 2005a, b)	
Soil organic matter	Regulating ecosystem services	Site	(MA 2003, 2005a, b)	Site
	Human engineering	Site	(MA 2003, 2005a, b)	