




Matrix of the multi-layered ecosystem services assessment for Jaunkemeri pilot area with established Resort Park

<div><div></div><div>Latvijas vides aizsardzības fonds</div><div>The material is produced with financial support of EU LIFE+ programme and Latvian Environmental Protection Fund in the frame of the project Nr.LIFE13 ENV/LV/000839 „Assessment of ecosystems and their services for nature biodiversity conservation and management” (LIFE EcosystemServices).</div></div>					Sandy Beach	Dunes		Forests				Built-up			Resort Park									
Embryonic dunes	White dunes	Wooded dunes		Wooded dunes including natural old pine forests		Alone standing buildings	Public housing with areas	Transport infrastructure	Sandy Beach	Embryonic dunes	White dunes	Wooded dunes	Wooded dunes including natural old pine forests		Alone standing buildings	Transport infrastructure								
		middle age and pre-mature stands	mature and over-mature stands	middle age and pre-mature stands								mature and over-mature stands	mature and over-mature stands	middle age and pre-mature stands			mature and over-mature stands							
Section	Division	Group	Class	Indicators																				
Provisioning	Nutrition	Biomass	Wild plants and their outputs	Yield of wild berries	0	0	0	2	2	2	2	0	0	0	0	0	0	3	3	2	0	0		
			Wild animals and their outputs	Number of traps for the river lamprey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Materials	Biomass	Fibres and other materials from plants for direct use or processing	Potentially harvestable timber volume	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
			Fibres and other materials from plants for direct use or processing	Herbs	0	0	0	1	1	2	2	0	0	0	0	0	0	1	2	2	0	0		
	Energy	Biomass-based energy sources	Plant-based resources	Potentially harvestable timber volume for bioenergy	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Regulation & Maintenance	Mediation of waste, toxics and other nuisances	Mediation by ecosystems	Sequestration and accumulation by ecosystems	Soil capacity to sequestrate and accumulate of nutrients	1	1	1	2	2	2	2	0	0	0	1	1	1	2	2	2	0	0		
			Dilution by freshwater ecosystems	Dilution capacity of pollution by rivers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			Mediation of smell/noise/visual impacts	Stand density	0	0	0	4	3	4	3	0	0	0	0	0	0	3	3	3	0	0		
	Mediation of flows	Mass flows	Mass stabilisation and control of erosion rates	Sediment volume in aeolian accumulating relief	0	1	2	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0		
			Buffering and attenuation of mass flows	Sediment volume in sandy beach	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	
		Liquid flows	Hydrological cycle and water flow maintenance	water retention potential index by forests	0	0	0	3	3	3	3	0	0	0	0	0	0	3	3	2	0	0		
			Flood protection	Sediment volume in aeolian accumulating relief	0	1	2	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0		
		Gaseous / air flows	Storm protection	Vegetation type	1	1	1	2	1	2	1	0	0	0	1	1	1	2	2	1	0	0		
	Maintenance of physical, chemical, biological conditions	Lifecycle maintenance, habitat and gene pool protection	Pollination and seed dispersal	Diversity and occurrence of insects pollinators	1	0	1	2	3	2	3	0	3	0	1	0	1	2	2	3	0	0		
		Soil formation and composition	Decomposition and fixing processes	Number of necrophagous and coprophagous insects	2	2	2	3	3	3	3	0	1	0	2	2	2	3	3	3	0	0		
		Water conditions	Chemical condition of freshwaters	Water quality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		Atmospheric composition and climate regulation	Micro and regional climate regulation	Air quality	0	0	0	4	3	4	3	0	0	0	0	0	0	3	3	3	0	0		
			Global climate regulation by reduction of greenhouse gas concentrations	Carbon sequestration potential index	0	0	0	2	1	2	1	0	0	0	0	0	0	2	2	1	0	0		
Cultural	Physical and intellectual interactions with biota, ecosystems, and land-/seascapes [environmental settings]	Physical and experiential interactions	Experiential use of plants, animals and land-/seascapes in different environmental settings	Birding potential	3	3	3	2	3	3	3	1	1	1	3	3	3	2	3	3	1	1		
			Physical use of land-/seascapes in different environmental settings	Leisure (active and passive) potential	4	4	4	5	5	5	5	2	3	2	4	4	4	5	5	5	2	2		
	Intellectual and representative interactions	Educational	Environmental educational potential	4	4	4	5	5	5	5	0	0	0	4	4	4	5	5	5	0	0			
		Heritage, cultural	Interaction potential with cultural heritage	2	0	0	2	0	0	2	0	1	0	2	0	0	0	0	2	0	0			
		Aesthetic	Landscape visual identity	2	3	3	2	2	2	2	0	2	0	2	3	3	2	2	2	0	0			