

Spatiotemporal evolution and future projections of habitat quality along the Duku Highway tourist corridor

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Online Resource 1 Range and Weight of Threat Sources

Threat source	Influence distance (km)	Weight	Spatial decay type
Cropland	2	0.6	Linear
Unuse Land	1	0.3	Linear
Built-up Land	5	1	Exponential
Rockfall	1	0.7	Exponential
Ground Subsidence	1.5	0.6	Linear
Landslide	3	0.8	Exponential
Debris flow	5	0.9	Exponential

Online Resource 2 Sensitivity of different land-use types to habitat threats

Land use types	Habitat quality suitability	Threat source						
		Cropland	Unuse Land	Built-up Land	Rockfall	Ground subsidence	Landslide	Debris flow
Cropland	0.2	0	0.3	0.7	0.4	0.4	0.5	0.6
Forest	0.9	0.7	0.8	0.9	0.8	0.7	0.9	1
Grassland	0.8	0.6	0.7	0.8	0.7	0.6	0.8	0.9
Water	0.85	0.5	0.6	0.8	0.6	0.5	0.7	0.9
Unuse Land	0.1	0.2	0	0.3	0.3	0.3	0.3	0.4
Built-up Land	0	0	0	0	0.1	0.1	0.1	0.2

Online Resource 6 Pixel number of each land use under different scenarios

	Cropland	Forest	Grassland	Water	Unuse Land	Built-up Land
Natural Development	587907900	877830300	10494739800	1024194600	3710237400	174419100
Ecological Priority	587907413.8	877833168.3	10512822195	1024194123	3710238596	173178383.6
Economic Priority	587893983.9	877830478.8	10494667620	1024194123	3710188409	175652567