

Supplementary Material

Supplementary Tables

Table S1 Status of Selected Wildlife Management Areas

WMA	District	Size (km ²)	Year of establishment	Participating village	GN* and date of gazettelement
Burunge	Babati (Manyara region)	617.0	2003	10	GN 37 (31.06.2006)
Enduimet	Longido (Arusha Region)	751.4	2003	9	GN 369 (20.11.2009)
Randilen	Monduli (Arusha Region)	312.0	2011	6	GN (01.02.2013)

*GN = Government Notice

Table S2 WBT revenues collected in Burunge, Randilen and Enduimet Wildlife Management Areas (WMAs) in US dollars from the financial year 2020/21 to 2022/23

	WMA	Revenue collected per year (USD)			Total
		2020/21	2021/22	2022/23	
1	Burunge	202,325	795,177	1,369,817	2,367,319
2	Enduimet	39,678	79,355	137,648	256,681
3	Randilen	33,150	155,399	400,529	589,078
Total (USD)		275,153	1,029,931	1,907,994	3,213,078

Source TAWA, 2024

Table S3 Results from ordinal logistic regression model assessing factors influencing perceived benefits (n=548)

Variable	Estimate	Std Error	Z value	P-Value
Enduimet WMA	1.073	1.064	1.01	0.312
Randilen WMA	1.088	0.659	1.65	0.098
Benefit Type Employment	-2.472	0.205	-12.07	0.001***
Benefit Type Scholarship	-2.074	0.195	-10.65	0.001***
Benefit Type Social services	-0.206	0.18	-1.14	0.2528
Age31-40	-0.28	0.213	-1.31	0.189
Age41-50	0.098	0.217	0.45	0.651
Age51-60	0.26	0.267	0.97	0.331
Age over 60	-0.287	0.279	-1.03	0.303
Gender Male	0.241	0.142	1.7	0.089

Variable	Estimate	Std Error	Z value	P-Value
Education level Primary school	0.878	0.254	3.45	0.001***
Education level Secondary school	1.095	0.315	3.48	0.001***
Education level College or university	2.022	0.413	4.9	0.001***
Duration.stay1 year to less than 5 years	-0.278	0.496	-0.56	0.575
Duration.stay5 years to 10 years	0.739	0.469	1.58	0.115
Duration stay More than 10 years	0.526	0.403	1.31	0.191
Enduimet WMA: Benefit Type Employment	0.433	0.362	1.2	0.231
Randilen WMA: BenefitType Employment	0.118	0.297	0.4	0.690
Enduimet WMA: Benefit Type Scholarship	0.163	0.345	0.47	0.635
Randilen WMA: Benefit Type Scholarship	1.021	0.276	3.7	0.001***
Enduimet WMA: Benefit Type Social services	-0.583	0.336	-1.74	0.082
Randilen WMA: Benefit Type Social services	-0.302	0.271	-1.11	0.265
Enduimet WMA: Age31-40	1.456	0.399	3.65	0.001***
Randilen WMA: Age31-40	0.244	0.29	0.84	0.401
Enduimet WMA: Age41-50	0.849	0.402	2.11	0.034*
Randilen WMA: Age41-50	0.009	0.317	0.03	0.971
Enduimet WMA: Age51-60	1.099	0.483	2.28	0.022*
Randilen WMA: Age51-60	-0.17	0.402	-0.42	0.671
Enduimet WMA:Age over 60	1.064	0.618	1.72	0.085
Randilen WMA: Age over 60	0.653	0.518	1.26	0.206
Enduimet WMA: Gender Male	0.084	0.27	0.31	0.755
Randilen WMA: Gender Male	0.065	0.215	0.3	0.762
Enduimet WMA: Education level Primary school	-0.796	0.356	-2.24	0.025*
Randilen WMA: Education level Primary school	-0.626	0.312	-2	0.045*
Enduimet WMA: Education level Secondary school	0.263	0.448	0.59	0.557
Randilen WMA: Education level Secondary school	-0.397	0.406	-0.98	0.327
Enduimet WMA: Education level College or university	-0.68	0.784	-0.87	0.386
Randilen WMA: Education level College or university	-1.622	0.663	-2.44	0.014*
Enduimet WMA:Duration of stay1 year to less than 5 years	0.235	1.077	0.22	0.827
Randilen WMA: Duration of stay1 year to less than 5 years	-0.709	0.644	-1.1	0.270
Enduimet WMA: Duration of stay5 years to 10 years	-1.898	1.048	-1.81	0.070
Randilen WMA: Duration of stay5 years to 10 years	-0.931	0.667	-1.4	0.162
Enduimet WMA: Duration of stay More than 10 years	-1.641	0.959	-1.71	0.081
Randilen WMA: Duration of stay More than 10 years	-0.511	0.552	-0.93	0.354