



Table S1. Sample data collection localities in the western Gurage socio-ecological production landscape.

Tefoure road	District	Agro-ecological zones	Road	Road	Management	Settlement
Jeroure roau	District	Agro-ecological zolles	length	width	(quality)	history
Aegera	Gumer	Cool moist	Short	Medium	Good	Old
Agured/ Ener Gedam	Tepid sub-humid	Tepid sub-humid	Short	Narrow	Medium	Old
Boqeta	Abesghe	Warm	Short	Medium	Low	New
Cheret	Mihurena Aklil	Tepid sub-humid	Long	Wide	Good	New
Debesa	Ezha	Cool moist	Long	Medium	Medium	Old
Demberi	Enemoherna Ener	Tepid sub-humid	Long	Wide	Good	Old
Desene	Ezha	Tepid sub-humid	Medium	Medium	Medium	Old
Geharad	Enemoherna Ener	Tepid sub-humid	Medium	Wide	Good	Old
Inagera	Cheha	Tepid sub-humid	Long	Medium	Good	Old
Kentuat	Gedebano Gutazer Wolene	Cool moist	Long	Narrow	Low	New
Luqe	Cheha	Warm	Short	Medium	Medium	New
Mamochema	Ezha	Cool moist	Medium	Wide	Medium	Old
Yadezer Yezhiera	Mihurena Aklil	Cool moist	Medium	Wide	Medium	Old

Table S2. Sample interviewed participants profile in selected Jefoure roads (N = 28).

Sex	Male	Female			
Number	20	8			
Age	<20	20–40	40-60	>60	
Number	3	3	14	8	
Religion	Christian	Muslim			
Number	20	8			
Occupation	Farmer	Religious servant	Crafting	Kebele chairperson	Development agent
Number	18	2	2	4	2
Education	Illiterate	Religious school	Primary school	High school	College
Number	8	3	8	5	4

Table S3. Sample focus group discussions participants profile in selected Jefoure roads (N = 98).

		Sex	Α	ge	Occ	upation	Local Role								
Jefoure road	Male	Female	<40	>40	Farmer	Developme nt agent	Elder	Religiou s servant	Youth	Kebele chair person	Developme nt agent				
Agera	5	3	2	6	8		4	1	2	1					
Abiret	4	3	3	4	6	1	2	1	2	1	1				
Anzere	5	2	4	3	3	2	4		1	1	1				
Boqeta	5	2	2	7	6	1	3		2	1	1				
Cheret	4	2	2	4	5	1	2	1	1	1	1				
Cheza	4	2	2	4	5	1	3		1	1	1				
Debesa	7	2	2	7	8	1	5	1	1	1	1				
Desene	6	2	3	5	6	2	4		2	1	1				
Ener Gedam	5	2	2	5	4	1	2	1	1	1	1				
Geharad	6	3	2	7	8	1	4	1	1	1	1				
Inagera	5	2	2	5	5	1	4	1	1						
Kotergedera	6	2	2	6	7	1	4	1	1	1	1				
Luqe	7	2	4	5	6	2	3		2	1	1				

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Table S4. Reporting categories of NCP with the indicator for assessment by Jefoure roads (based on [2].

Categories	NCP reporting categories	Indicator for assessment						
	Transportation	A route for natural land transport mode for humans, animal, and vehicles						
Material NCP	Grain threshing floor	Enables places for a threshing floor						
Material NCF	Feed	Places for production of feed (fodder) for domesticated animals						
	Materials	Places for production of materials for construction						
	Energy	Places for production of biomass-based fuels						
	Learning and inspiration	Places for local council assembly meeting by judicial services and meeting places for various groups for sharing experiences						
Nonmaterial	Physical and psychological experiences	Places for playing traditional games, spending leisure time and recreations						
NCP	-	Landscape for spiritual and religious activities						
-,	Supporting identities	Landscape for social services (such as a wedding, mourning ceremonies						
	_	Landscape creating an identity, sense of place, and bequest values						
	Habitat creation and maintenance	Provide habitats for the remaining vascular plant species						
Dogulatina	Regulation of climate	Biological carbon storage and sequestration						
Regulating NCP	Regulation of freshwater quantity	Regulation of flow to water-dependent natural habitats						
	Physical protection of soil and sediments from erosion	Long-term maintenance of soil structure and processes						

Table S5. Trends in the uses of ecosystem services in different Jefoure roads.

NCP Categories	Services/ Sites	1	2	3	4	5	6	7	8	9	10	11	12	13	Decrease (%)	No change (%)	Increase (%)
	Vehicle transport	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	100
	Grazing land	_	_	\downarrow	_	_	_	_	_	_	_	\downarrow	_	_	13	87	0
Material NCP	Grain threshing floor	\downarrow	_	_	\downarrow	_	_	_	61	39	0						
	Production of timber	1	1	1	1	1	1	1	_	_	_	_	\downarrow	\downarrow	18	30	52
	Traditional religion	\downarrow	100	0	0												
	Christianity & Muslim	_	_	_	_	_	_	_	_	_	_	_	_	_	0	100	0
	Judicial services	\downarrow	\downarrow	_	_	_	_	_	_	<u></u>	_	_	_	\downarrow	27	67	7
	Meeting place	_	\downarrow	_	_	_	\downarrow	_	_	<u></u>	1	\downarrow	_	\downarrow	40	47	13
Non-	Social services	\downarrow	_	_	\downarrow	_	_	_	_	\downarrow	1	\downarrow	_	\downarrow	40	53	7
Material NCP	Recreational values	\downarrow	\downarrow	\downarrow	_	_	_	_	_	1	1	\downarrow	_	1	40	40	20
	Aesthetic value	1	\downarrow	\downarrow	_	_	_	_	_	<u></u>	_	\downarrow	_	<u></u>	27	53	20
	Identity	_	\downarrow	\downarrow	_	_	_	_	_	1	_	\downarrow	_	_	33	60	7
	Playing ground	_	\downarrow	\downarrow	\downarrow	_	_	_	_	_	_	\downarrow	_	_	27	73	0
	Traditional songs	\downarrow	100	0	0												
	Mental & physical health	↑	\downarrow	\downarrow	_	↑	_	_	1	_	_	\downarrow	1	_	27	47	27
Regulating	Habitat and maintenance	1	_	\downarrow	_	_	_	_	_	_	_	\downarrow	_	_	7	87	7
NCP	Carbon storage	1	_	\downarrow		_	_	_	_	_	_	\downarrow	_	_	13	87	0

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Temperature regulation	↑	_	\downarrow	_	_	_	_	_	_	_	\downarrow	_	_	13	87	0
Protection of soil	_	_	1	_	_	_	_	_	_	_	1	_	_	0	73	27
Water flow regulation	_	_	\downarrow	_	_	_	_	_	_	_	\downarrow	_	_	27	73	0

(↑: Increase, ↓: Decrease, —: No change).



Figure S1. The Gurage socio-ecological landscape settlement pattern following the Jefoure roads (Source: Google Earth (2019)).

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Figure S2. Socio-cultural practices that take place on Jefoure roads (source: Tourism Culture and Sport Office (Gurage zone)).