

# List of Variables of the Resilience Assessment Tool

Section 1		Section 2	
<b>11a</b>	Surname	<b>21a</b>	(P) Productive services [(P1) Animal and plant productivity (quantity and quality), including timber and biomass for energy]
<b>11b</b>	First name	<b>21b</b>	(P) Productive services [(P2) water (quantity and quality) for human, animal and plant consumption]
<b>11c</b>	Gender	<b>21c</b>	(P) Productive services [(P3) land available for production (area of land for production per person)]
<b>11d</b>	Current institution	<b>21d</b>	(P) Productive services [(P4) others]
<b>11e</b>	Country	<b>21e</b>	Specify/comment
<b>11f</b>	Email	<b>21f</b>	(E) Ecological services : [(E1) regulation of excessive water (eg water logging)]
<b>11g</b>	Other contact information	<b>21g</b>	(E) Ecological services : [(E2) regulation of scarce water and its availability eg during dry seasons]
<b>11h</b>	Name and affiliation of other contributing specialists	<b>21h</b>	(E) Ecological services : [(E3) reduced erosion]
<b>11i</b>	Date	<b>21i</b>	(E) Ecological services : [(E4) soil formation]
<b>121a</b>	Country of the land management system	<b>21j</b>	(E) Ecological services : [(E5) above ground biodiversity]
<b>121b</b>	Resilience assessment code	<b>21k</b>	(E) Ecological services : [(E6) greenhouse gas absorption (CO2, methane, etc.)]
<b>13aa</b>	1.3 Name of the Land Management System	<b>21l</b>	(E) Ecological services : [(E7) micro-climate regulation (wind, shade, temperature, humidity)]
<b>131a</b>	Name of land management practice 1	<b>21m</b>	(E) Ecological services : [(E8) Protection from extreme events (fires, drought, floods, etc.)]
<b>131b</b>	WOCAT identifier of land management practice 1	<b>21n</b>	(E) Ecological services : [(E9) Others]
<b>131c</b>	Name of land management practice 2	<b>21o</b>	Specify/comment
<b>131d</b>	WOCAT identifier of land management practice 2	<b>21p</b>	(S) Socio cultural services: [(S1) Recreation(e.g tourism, sports)]
<b>131e</b>	Name of land management practice 3	<b>21q</b>	(S) Socio cultural services: [(S2) Cultural services(e.g maintaining traditional landscape)]
<b>131f</b>	WOCAT identifier of land management practice 3	<b>21r</b>	(S) Socio cultural services: [(S3) Conflict mitigation]
<b>131g</b>	Name of land management approach 1	<b>21s</b>	(S) Socio cultural services: [(S4) Others]
<b>131h</b>	WOCAT identifier of land management approach 1	<b>21t</b>	Specify/comment
<b>131i</b>	Name of land management approach 2	<b>211a</b>	2.1.1 Importance of services/functions [P Productive services:]
<b>131j</b>	WOCAT identifier of land management approach 2	<b>211b</b>	2.1.1 Importance of services/functions [E Ecological services :]

<b>Section 3</b>		<b>211c</b>	2.1.1 Importance of services/functions [S Socio-cultural services:]
<b>31a</b>	Unsustainable soil management	<b>211d</b>	2.1.1 Specify / comment on the importance of services/functions
<b>31b</b>	Change in the next 10 years (soil management)		
<b>31c</b>	Deforestation / removal of natural vegetation (incl. forest fires)	<b>32k</b>	Change in the next 10 years (energy price)
<b>31d</b>	Change in the next 10 years (deforestation)	<b>32i</b>	Presence of infrastructures (e.g. roads )
<b>31e</b>	Overgrazing	<b>32l</b>	Change in the next 10 years (infrastructure)
<b>31f</b>	Change in the next 10 years (overgrazing)	<b>32m</b>	Laws and regulations prescribing land management
<b>31g</b>	industrial activities and mining	<b>32n</b>	Change in the next 10 years (laws)
<b>31h</b>	Change in the next 10 years (industrial activity)	<b>32o</b>	Land tenure (specify if public, private or community owned)
<b>31i</b>	urbanisation and infrastructure development	<b>32p</b>	
<b>31j</b>	Change in the next 10 years (urbanisation)	<b>32q</b>	Change in the next 10 years (land tenure)
<b>31k</b>	discharges (point contamination of water)	<b>32r</b>	Cooperation and community organization
<b>31l</b>	Change in the next 10 years (discharges)	<b>32s</b>	Change in the next 10 years (Cooperation)
<b>31m</b>	disturbance of water cycle (infiltration / runoff)	<b>32t</b>	Other enabling factor (name)
<b>31n</b>	Change in the next 10 years (water cycle)	<b>32u</b>	Importance of other enabling factor
<b>31o</b>	Over abstraction of water (for irrigation, industry, etc.)	<b>32v</b>	Change in the next 10 years (other factor)
<b>31p</b>	Change in the next 10 years (over abstraction of water)	<b>32x</b>	Comment / Specify (enabling factors)
<b>31q</b>	Other pressure		Navigation
<b>31r</b>	Change in the next 10 years (other pressure)	<b>33a</b>	Present state of services/functions provided by the system
<b>31s</b>	Comment / Specify (pressures)	<b>33b</b>	Future evolution of the provision of services/function
<b>32a</b>	Subsidies for land use activity (agriculture, farming, tourism and others)	<b>33c</b>	Present state of the effectiveness of management
<b>32b</b>	Change in the next 10 years (land use subsidies)	<b>33d</b>	Future evolution of the effectiveness of land management
<b>32c</b>	Subsidies for land management or nature conservation	<b>33e</b>	Comment / Specify (3.3)
<b>32d</b>	Change in the next 10 years (land management subsidies)	<b>33f</b>	The land management system will provide adequate services/functions if:

<b>32e</b>	Market prices of goods produced from the land (e.g. wood, cheese or meat, honey, energy, etc.)	<b>33g</b>	3.3.2. What activities /changes in land management could improve the state and functionality of the system?
<b>32f</b>	Change in the next 10 years (market prices)	<b>Section 4</b>	
<b>32g</b>	A specific land use activity(new):	<b>41a</b>	Impact of droughts
<b>32h</b>	importance of land use activity	<b>41b</b>	Frequency of shock or disturbance (drought)
<b>32i</b>	Change in the next 10 years (land use activity)	<b>41c</b>	Year of last shock (drought)
<b>32j</b>	Affordable energy price	<b>41d</b>	Impact of fires
<b>41h</b>	Frequency of shock or disturbance (Pests/diseases)	<b>41e</b>	Frequency of shock or disturbance (Fire)
<b>41i</b>	Year of last shock (Pests/diseases)	<b>41f</b>	Year of last shock (fire)
<b>41j</b>	Impacts of torrential rainfall	<b>41g</b>	Impact of pests / diseases
<b>41k</b>	Frequency of shock or disturbance (Torrential rainfall)	<b>411i</b>	Specify / comment (permanent change)
<b>41l</b>	Year of last shock (Torrential rainfall)	<b>412a</b>	Type of shock or disturbance (1)
<b>41m</b>	Impacts of floods	<b>412b</b>	Threshold conditions for permanent change (1)
<b>41n</b>	Frequency of shock or disturbance (Flood)	<b>412c</b>	Type of shock or disturbance (2)
<b>41o</b>	Year of last shock (Flood)	<b>412d</b>	Threshold conditions for permanent change (2)
<b>41p</b>	Impacts of windstorms	<b>412e</b>	Type of shock or disturbance (3)
<b>41q</b>	Frequency of shock or disturbance (Wind storm)	<b>413a</b>	Threshold conditions for permanent change (3)
<b>41r</b>	Year of last shock (Wind storm)	<b>413b</b>	Type of shock or disturbance (1)
<b>41s</b>	Other shock or disturbance 1 (Specify)	<b>413c</b>	Change in productive services (1)- decrease
<b>41t</b>	Impacts of other shocks 1	<b>413d</b>	Change in productive services (1)- increase
<b>41u</b>	Frequency of shock or disturbance (other 1)	<b>414e</b>	Change in ecological services (1) decrease
<b>41v</b>	Year of last shock (other 1)	<b>414f</b>	Change in ecological services (1) increase
<b>41w</b>	Other shock or disturbance 2 (Specify)	<b>414h</b>	Change in socio-cultural services (1) decrease
<b>41x</b>	Impacts of other shocks 2	<b>414i</b>	Change in socio-cultural services (1) increase
<b>41y</b>	Frequency of shock or disturbance (other 2)	<b>414j</b>	Type of shock or disturbance (2)

<b>41z</b>	Year of last shock (other 2)	<b>414k</b>	Change in productive services (2)- decrease
	Navigation	<b>414l</b>	Change in productive services (2)- increase
<b>411a</b>	Can fires cause permanent change in the land management system?	<b>414m</b>	Change in ecological services (2) decrease
<b>411b</b>	Can droughts cause permanent change in the land management system?	<b>414n</b>	Change in ecological services (2) increase
<b>411c</b>	Can Pests / diseases cause permanent change in the land management system?	<b>414o</b>	Change in socio-cultural services (2) decrease
<b>411d</b>	Can Torrential rainfalls cause permanent change in the land management system?	<b>414p</b>	Change in socio-cultural services (2) increase
<b>411e</b>	Can Floods cause permanent change in the land management system?	<b>414q</b>	Type of shock or disturbance (3)
<b>411f</b>	Can Wind storms cause permanent change in the land management system?	<b>414r</b>	Change in productive services (3)- decrease
<b>411g</b>	Can other shocks and disturbances (1) cause permanent change in the land management system?	<b>414s</b>	Change in productive services (3)- increase
<b>411h</b>	Can other shocks and disturbances (2) cause permanent change in the land management system?	<b>414t</b>	Change in ecological services (3) decrease
<b>414w</b>	Change in socio-cultural services (3) increase	<b>414u</b>	Change in ecological services (3) increase
		<b>414v</b>	Change in socio-cultural services (3) decrease
<b>4211a</b>	Type of shock or disturbance	<b>4311a</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Drought]
<b>4211b</b>	Influence of land management practices on probability of shock or disturbance	<b>4311b</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Fire]
<b>4211c</b>	Specify / Comment	<b>4311c</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Pests/diseases]
<b>4211d</b>	Type of shock or disturbance	<b>4311d</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Torrential rainfall]
<b>4211e</b>	Influence of land management practices on probability of shock or disturbance	<b>4311e</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Flood]
<b>4211f</b>	Specify / Comment	<b>4311f</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Wind storm]
<b>4211g</b>	Type of shock or disturbance	<b>4311g</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Other (specify)]
<b>4211h</b>	Influence of land management practices on probability of shock or disturbance	<b>4311h</b>	Specify / comment (4.3.1)
<b>4211i</b>	Specify / Comment	<b>4212a</b>	Type of shock or disturbance
<b>4221a</b>	Type of shock or disturbance	<b>4212b</b>	Influence of land management practices on probability of shock or disturbance
<b>4221b</b>	Influence of land management practices on the degradation associated with a shock or disturbance	<b>4212c</b>	Specify / Comment
<b>4221c</b>	Specify / Comment	<b>4212d</b>	Type of shock or disturbance

<b>4221d</b>	Type of shock or disturbance	<b>4212e</b>	Influence of land management practices on probability of shock or disturbance
<b>4221e</b>	Influence of land management practices on the degradation associated with a shock or disturbance	<b>4212f</b>	Specify / Comment
<b>4221g</b>	Specify / Comment	<b>4212g</b>	Type of shock or disturbance
<b>4221h</b>	Type of shock or disturbance	<b>4212h</b>	Influence of land management practices on probability of shock or disturbance
<b>4221i</b>	Influence of land management practices on the degradation associated with a shock or disturbance	<b>4212i</b>	Specify / Comment
<b>4221j</b>	Specify / Comment	<b>4222a</b>	Type of shock or disturbance
<b>4231a</b>	Type of shock or disturbance	<b>4222b</b>	Influence of land management practices on the degradation associated with a shock or disturbance
<b>4231b</b>	Influence of land management practices on the recovery after a shock or disturbance	<b>4222c</b>	Specify / Comment
<b>4231c</b>	Specify / Comment	<b>4222d</b>	Type of shock or disturbance
<b>4231d</b>	Type of shock or disturbance	<b>4222e</b>	Influence of land management practices on the degradation associated with a shock or disturbance
<b>4231e</b>	Influence of land management practices on the recovery after a shock or disturbance	<b>4222g</b>	Specify / Comment
<b>4231f</b>	Specify / Comment	<b>4222h</b>	Type of shock or disturbance
<b>4231g</b>	Type of shock or disturbance	<b>4222i</b>	Influence of land management practices on the degradation associated with a shock or disturbance
<b>4231h</b>	Influence of land management practices on the recovery after a shock or disturbance	<b>4222j</b>	Specify / Comment
<b>4231i</b>	Specify / Comment	<b>4233e</b>	Influence of land management practices on the recovery after a shock or disturbance
<b>4232a</b>	Type of shock or disturbance	<b>4233f</b>	Specify / Comment
<b>4232b</b>	Influence of land management practices on the recovery after a shock or disturbance	<b>4233g</b>	Type of shock or disturbance
<b>4232c</b>	Specify / Comment	<b>4233h</b>	Influence of land management practices on the recovery after a shock or disturbance
<b>4232d</b>	Type of shock or disturbance	<b>4233i</b>	Specify / Comment
<b>4232e</b>	Influence of land management practices on the recovery after a shock or disturbance	<b>4313a</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Drought]
<b>4232f</b>	Specify / Comment	<b>4313b</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Fire]
<b>4232g</b>	Type of shock or disturbance	<b>4313c</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Pests/diseases]
<b>4232h</b>	Influence of land management practices on the recovery after a shock or disturbance	<b>4313d</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Torrential rainfall]
<b>4232i</b>	Specify / Comment	<b>4313e</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Flood]

<b>4312a</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Drought]	<b>4313f</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Wind storm]
<b>4312b</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Fire]	<b>4313g</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Other (specify)]
<b>4312c</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Pests/diseases]	<b>4313h</b>	Specify / comment (4.3.1)
<b>4312d</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Torrential rainfall]	<b>4213a</b>	Type of shock or disturbance
<b>4312e</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Flood]	<b>4213b</b>	Influence of land management practices on probability of shock or disturbance
<b>4312f</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Wind storm]	<b>4213c</b>	Specify / Comment
<b>4312g</b>	4.3.1. What is the impact of shocks and disturbances on the effectiveness of land management? [Other (specify)]	<b>4213d</b>	Type of shock or disturbance
<b>4312h</b>	Specify / comment (4.3.1)	<b>4213e</b>	Influence of land management practices on probability of shock or disturbance
<b>4223j</b>	Specify / Comment	<b>4213f</b>	Specify / Comment
<b>4233a</b>	Type of shock or disturbance	<b>4213g</b>	Type of shock or disturbance
<b>4233b</b>	Influence of land management practices on the recovery after a shock or disturbance	<b>4213h</b>	Influence of land management practices on probability of shock or disturbance
<b>4233c</b>	Specify / Comment	<b>4213i</b>	Specify / Comment
<b>4233d</b>	Type of shock or disturbance	<b>4223a</b>	Type of shock or disturbance
<b>432a</b>	Name or description of additional land management practice (1)	<b>Section 5</b>	
<b>432b</b>	Targeted shock(s) or disturbance(s) (1)	<b>511a</b>	5.1.1 Average annual rainfall
<b>432c</b>	WOCAT identifier (if available) (1)	<b>512a</b>	5.1.2 Agro-climatic zone:
<b>432d</b>	Aim (1)	<b>513a</b>	5.1.3 Landforms:
<b>432e</b>	Name or description of additional land management practice (2)	<b>514a</b>	5.1.4 Which land use type constitutes the land management system?
<b>432f</b>	Targeted shock(s) or disturbance(s) (2)	<b>514b</b>	land use type (2)
<b>432g</b>	Aim (2)	<b>514c</b>	land use type (3)
<b>432h</b>	WOCAT identifier (if available) (2)	<b>515a</b>	5.1.5 Previous land use type(s) in the last 100 year:
<b>432i</b>	Name or description of additional land management practice (3)	<b>515b</b>	Aproximate date of change
<b>432j</b>	Targeted shock(s) or disturbance(s) (3)	<b>515c</b>	Other previous land use type(s)
<b>432k</b>	Aim (3)	<b>515d</b>	Other previous land use type(s) (3)

<b>432l</b>	WOCAT identifier (if available) (3)	<b>516a</b>	5.1.6. Who owns the land and what are the land and water use rights? [state]
		<b>516b</b>	5.1.6. Who owns the land and what are the land and water use rights? [company]
		<b>516c</b>	5.1.6. Who owns the land and what are the land and water use rights? [communal / village]
		<b>516d</b>	5.1.6. Who owns the land and what are the land and water use rights? [group]
		<b>516e</b>	5.1.6. Who owns the land and what are the land and water use rights? [individual, not titled]
		<b>516f</b>	5.1.6. Who owns the land and what are the land and water use rights? [individual, titled]
<b>516h</b>	Rights: [communal (organised)]	<b>5212a</b>	5.2.1 Short description of land management practice 2
<b>516i</b>	Rights: [leased]	<b>5222a</b>	Code of agronomic measures
<b>516j</b>	Rights: [individual]	<b>5222b</b>	Importance of agronomic measures
<b>516k</b>	[open access (unorganised)]	<b>5222c</b>	Code of vegetative measures
<b>516l</b>	[communal (organised)]	<b>5222d</b>	Importance of vegetative measures
<b>516m</b>	[leased]	<b>5222e</b>	Code of structural measures
<b>516n</b>	[individual]	<b>5222f</b>	Importance of structural measures
<b>517a</b>	5.1.7 Who is managing the land management system?	<b>5222g</b>	Code of management measures
<b>517b</b>	scale of land users	<b>5222h</b>	Importance of management measures
<b>517c</b>	privileged or unprivileged land users	<b>5222i</b>	comment / specify
<b>517d</b>	Gender of land users	<b>5312a</b>	Labour
<b>5211a</b>	5.2.1 Short description of land management practice 1	<b>5312b</b>	Tools:
<b>5221a</b>	Code of agronomic measures	<b>5312c</b>	Materials:
<b>5221b</b>	Importance of agronomic measures	<b>5312d</b>	Unit
<b>5221c</b>	Code of vegetative measures	<b>5322a</b>	Labour
<b>5221d</b>	Importance of vegetative measures	<b>5322b</b>	Tools:
<b>5221e</b>	Code of structural measures	<b>5322c</b>	Materials
<b>5221f</b>	Importance of structural measures	<b>5322d</b>	Frequency of maintenance activities

<b>5221g</b>	Code of management measures	<b>5222e</b>	Comment / Specify:
<b>5221h</b>	Importance of management measures	<b>5213a</b>	5.2.1 Short description of land management practice 3
<b>5221i</b>	comments to measures LM 1	<b>5223a</b>	Code of agronomic measures
<b>5311a</b>	Labour	<b>5223b</b>	Importance of agronomic measures
<b>5311b</b>	Tools:	<b>5223c</b>	Code of vegetative measures
<b>5311c</b>	Materials:	<b>5223d</b>	Importance of vegetative measures
<b>5311d</b>	Define unit	<b>5223e</b>	Code of structural measures
<b>5321a</b>	Labour	<b>5223f</b>	Importance of structural measures
<b>5321b</b>	Tools:	<b>5223g</b>	Code of management measures
<b>5321c</b>	Materials	<b>5223h</b>	Importance of management measures
<b>5321d</b>	Frequency of maintenance activities	<b>5223i</b>	comment /specify
<b>5321e</b>	Comment / Specify:		
<b>5313a</b>	Labour per unit		
<b>5313b</b>	Tools per unit:		
<b>5313c</b>	Materials per unit:		
<b>5313d</b>	Define unit		
<b>5323a</b>	Labour		
<b>5323b</b>	Tools:		
<b>5323c</b>	Materials		
<b>5321e</b>	Comment / Specify:		