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**Selection after consultation with EDN members (*European DesertNet*)**

**23/04/2009**

**LOCAL LEVEL**

**Nota Bene: These indicators listed below are exclusively local. This means that national indicators that can be used at local level are not listed below.**

**UNCCD Types 1: Global indicators for assessment of the implementation of strategic objectives**

**STRATEGIC OBJECTIVE 1: To improve the living conditions of affected populations**

- S1: Decrease in numbers of people impacted by desertification/land degradation and droughts
- S2: Increase in numbers of people living above poverty line
- S3: Decrease in numbers of people below the minimum level of dietary energy consumption in affected areas

**STRATEGIC OBJECTIVE 2: To improve the condition of affected ecosystems**

- S4: Decrease in affected areas
- S5: Increase in net primary productivity

**STRATEGIC OBJECTIVE 3: To generate global benefits throught UNCCD**

- S6: Increase in carbon stocks in affected areas
- S7: Areas of forest, agricultural and aquaculture under sustainable management

**STRATEGIC OBJECTIVE 4: To increase available funds for combating desertification and drought adaptation**

- S8: Increase in available funds
- S9: Development of policies addressing desertification

**T4 : UNCCD Types 4. Indicators for decision-makers, enabling the assessment of trends, success and failures at different scales**

#	Indicators	UNCCD Objectives									T4
		S1	S2	S3	S4	S5	S6	S7	S8	S9	
1	Change of incomes and goods	X	X								
2	Schooling rate (%)	X	X								
3	Global activity rate (%)	X	X								
4	Land ownership (on farm, off farm)	X	X	X							
5	Satisfaction rate of farm needs (agricultural, animal husbandry, general) (%)	X						X			
6	Net income from agriculture (on going year only) (US\$)		X								
7	Change of forest income		X								
8	Effective activity rate (%)		X								
9	Income per inhabitant (US\$)		X								
10	Income per worker (US\$)		X								
11	Income proportion from the main activity in the farm economy (%)		X								
12	Ratio between family labor force and external labor force (%)		X					X			
13	Total agricultural area per inhabitant (ha, km2)		X					X			
14	Auto-consumption rate of farming products (agricultural, animal husbandry, general) (%)		X					X			
15	Mechanization rate (agricultural, livestock farming, general) (%)		X					X			
16	Land cover (%) at local scale				X			X			X
17	Sensitivity index/Plant association				X						
18	Carrying capacity evolution				X			X			
19	Animal productivity evolution				X			X			
20	Animal density (UB/km2)				X			X			
21	Managed areas compared to initial goal (zaï, compost ...) (ha)				X			X			X
22	Wood density evolution/species/every 10 years				X						
23	Global botanical composition				X						
24	Species richness (global, perennial vs. annual)				X						
25	Plant cover evolution				X						
26	Biological types				X						
27	Physiognomy change: plant association area (per facies and agrosystems)				X						
28	Physiognomy change: ratio between ecosystems / agrosystems				X						

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		S1	S2	S3	S4	S5	S6	S7	S8	S9	
29	Biotope diversity				X						
30	Rain use efficiency for production (kg MS/ha/an/mm)				X						
31	Phytomass (Kg MS/ha)				X	X					
32	Pastoral value				X			X			
33	Potential evapotranspiration (mm, cm)				X						X
34	Evolution of the natural vegetation per hectare (number of seedlings) on protected and unprotected plots				X						
35	Drought resistance (capacity of the vegetation to resist to serious or moderate water stress)				X						X
36	Water infiltration capacity (mm/hour)				X						X
37	Soil retention capacity				X						X
38	Organic C				X						X
39	N, P and K				X						X
40	Cationic exchange capacity				X						X
41	Soil biological indicators (soil microbiological biomass, breathing, enzymes, biomass N, microbiological species diversity)				X						X
42	Fluctuation in water table level (m)				X						X
43	Surface water and water table quality				X						X
44	Measures of water tables controlling aquifer characteristics; climatic variations ; drainage volume				X						X
45	Longitudinal data on intra and inter annual variations of soil humidity by controlling climatic variability				X						X
46	Ravines (m/km2)				X						X
47	Superficial crusting rate				X						X
48	Sand Silted surface Rate				X						X
49	Slope length				X						
50	Slope steepness				X						
51	Rock fragment (%)				X						
52	Soil depth (cm)				X						
53	Rain erosivity (mm/hour)				X						
54	Wind erosivity (m3/hour)				X						

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		S1	S2	S3	S4	S5	S6	S7	S8	S9	
55	Stability of the surface horizon				X						
56	Evolution of soil profile (humus, organic matter)				X						
57	Access radius for collecting firewood (duration)							X			
58	Herd composition by animal species							X			
59	Ratio between actual and possible carrying capacity							X			
60	Herd composition (sex and age classes)							X			
61	Food complements (fodder...)							X			
62	Date of the transhumance start (current year, previous year, mean, min, max)							X			
63	Location and density of firebreaks							X			
64	Density of decision centers (nb/km <sup>2</sup> )							X			
65	Density of water point: nb/km <sup>2</sup>							X			
66	Housing density (nb/km <sup>2</sup> )							X			
67	Population growth rate (%)							X			
68	Farming activities rate (sensu lato) (%)							X			
69	Agricultural working population (%)							X			
70	Distribution of main and secondary activities (farming, pastoralism, forestry, marketing, handicraft...): diagram							X			
71	Distribution of farm size (total arable land or livestock size classes): diagram							X			
72	Equipment rate (%)							X			
73	Total agricultural area (ie cultivated-annual or perennials- or fallow)							X			
74	Rate of multiple jobholding (%)							X			
75	Rate of agriculture spread (%)							X			
76	Livestock increase rate (%)							X			
77	Livestock extensivity rate (%)							X			
78	Index of natural vegetation collection due to farming activities							X			
79	Index of natural vegetation collection due to pastoral activities (according to pastoral activities)							X			
80	Fire wood collection (kg of dry matter / day / season)							X			
81	Fraction of farmers using alternative farming techniques (other than traditional)							X			X
82	Evolution of investment level							X			X

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		S1	S2	S3	S4	S5	S6	S7	S8	S9	
83	Irrigated perimeter drainage							X			X
84	Number of treated gully erosion										X
85	Number of rehabilitated hectares into farmed, pastured and wooded land (ha)										X
86	Yields per hectare on treated plots compared to untreated plots										X
87	Number of planted seedling										X
88	Forest recover rate after 3 years										X
89	Afforested areas in hectares										X
90	Evolution of the mean family income (inc. The part due to actions to combat desertification)										X
91	Evolution of migratory flow on a territory (rural exodus, population maintain, return) and link with the actions done to combat desertification										X
92	Evolution of the natural vegetation per hectare (number of seedlings) on protected and unprotected plots										X