



## COMITE SCIENTIFIQUE FRANCAIS DE LA DESERTIFICATION

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### INDICES

09 January 2009

**Items:** I: Institutional & Governancy; LCU: Land Cover & Land Use; SE: Socio-economics; VF: vegetation & Faune; WS: Water & Soil

**Scales:** G = Global; R = Regional; N = National; L = Local

*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 through 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 = Type 4: Indicators for decision-makers, enabling the assessment of trends, success and failures at different scales**

N°	Type UNCCD	Item	Indicators and units	Methodology	Primary data availability	Scales	Feasibility	Cost	Reference	Comments
1	S1; S2; S3; T4	SE	Indicator of the social development evolution	Children schooling (Variation of the ration [nb of schooled children/nb of children in age of schooling]; Variation of the percentage of girls' schooling); Nutritional state and sanitary improvement (Variation of the nutritional state of the children - of 5 years (WHO/OMS indicator); sanitary Improvement: variation of latrinesnumber and presence of waterborne sewage system (tout à l'égout)		N / L			Réquier-Desjardins & Bied-Charreton, 2002	
2	S1; S2; S3; T4	SE	Evolution of the standards of living (location attractivity)	Variation of the number of persons having access to electricity, drinking water, telephone network; housing improvement: ratio variation [number of solid built (oerpendes) / total number of		N / L			Réquier-Desjardins & Bied-Charreton, 2002	
3	S2; T4	SE	Well-being Index (number of people affected by inadequate ecosystem service supply)	To be developed	To be determined	R / N / L			Anonyme 2008 GEF	
4	S2; T4	SE	Human poverty indicator for developing countries (IPH-1)		GEODATABASE	N / L			<a href="http://geodata.grid.unep.ch/">http://geodata.grid.unep.ch/</a>	
5	S3; T4	SE	Potential production of food per person (tons/ha)		GEODATABASE	N / L			<a href="http://geodata.grid.unep.ch/">http://geodata.grid.unep.ch/</a>	

N°	Type UNCCD	Item	Indicators and units	Methodology	Primary data availability	Scales	Feasibility	Cost	Reference	Comments
6	S4	WS	Indicator of soil evolution	Surface state measure (to be defined)		L			Réquier-Desjardins & Bied-Charreton, 2002	
7	S4 ; S7	SE	Attractiveness indicator (herders, animals): on going year, previous year, mean, min, max	Survey on transhumance		L			Ickowicz et al. 2005,	Leads to sub-national cards; this type of survey could be completed by socioeconomic
8	S4; S5; S7; T4	SE; VF	Indicator of rangeland zone state evolution	Camp size (nb of settlements and herds)		N / L			Réquier-Desjardins & Bied-Charreton, 2002	
9	S4; S5; S7; T4	SE; VF	Degree of agropastoralism (pasture reserve state in farming lands)	Degree of integration between breeding and agriculture (fertilizer use, fattening practices): survey		L			Réquier-Desjardins & Bied-Charreton, 2002	
10	S4; S5; T4	VF	Vegetation characterisation	Field work: plant species richness measure; Herbaceous biomasse (volume); Plant cover (percentage of the surface); Nb of perennial/annual (quantity and quality)		N / L			Réquier-Desjardins & Bied-Charreton, 2002	
11	S4; S5; T4	VF	Indicator of the evolution of the vegetation state	Field work and remote sensing: woody species nb and evolution, bare soil rate (period and duration), biomass management		N / L			Réquier-Desjardins & Bied-Charreton, 2002	

N°	Type UNCCD	Item	Indicators and units	Methodology	Primary data availability	Scales	Feasibility	Cost	Reference	Comments
12	S4; S7	SE	Indicator of the range management evolution	Institution in charge of range uses; existence of access rules to pastures, control and taxes; limitation of the herd size; mechanism of conflict management		L			Réquier-Desjardins & Bied-Charreton, 2002	
13	S4; S7; T4	SE	Landscape diversity			L			Réquier-Desjardins & Bied-Charreton, 2002	
14	S4; T4	VF	Indicator of fallow evolution	Presence of postcultural facies; Presence of transient species; number of fallow (per age group); Ratio variation: fallow area/cultivated area		N / L			Réquier-Desjardins & Bied-Charreton, 2002	
15	S4; T4	WS	Index of soil water state	Field works: maximum soil moisture storage available for vegetation; primary runoff coefficient of the soil during rainy years; Relative decrease of natural plant production during rainy years		L			Réquier-Desjardins et Bied-Charreton, 2002	
16	S4; T5	WS	Criminality index			N			WG CSFD, 2008	
17	S7	I	Access to knowledge and tools (incl. SLM techniques)	Scorecard or Tracking Tool ; survey	To be determined	G / R / N / L			Anonyme 2008 GEF	To be developed: number of trainings, technicians (cf GTD), structures of dissemination, role of women, innovations...

N°	Type UNCCD	Item	Indicators and units	Methodology	Primary data availability	Scales	Feasibility	Cost	Reference	Comments
18	S7	I	Endodromy zone (Herders, cattle): connected zones, historic axes of transhumance, mobility indicator, current year, previous year	Surveys on transhumance		N / L			Ickowicz et al. 2005,	
19	S7	I	Model parameters: transhumance effort (herders, cattle); General theory of movement	Surveys on transhumance		N			Ickowicz et al. 2005,	
20	S7	I	Breeding equipment index by habitat type (Presence / absence of veterinarian office, veterinary clinic and pharmacy, drilling, antenna, wells, managed pools, vaccination area, slaughterhouses, cattle market, louma ...)		City and municipality maps	N / L			Ickowicz et al. 2005,	
21	S7	SE	Indicator of the evolution of livestock food practices	Inventory of herd food habits; access to the various types of food supply, transhumance and common land (vaine pature) (residues); relative part of the various cattle food supply; marketing of agricultural residues (village or zone scale) for animal breeding		L			Réquier-Desjardins & Bied-Charreton, 2002	

N°	Type UNCCD	Item	Indicators and units	Methodology	Primary data availability	Scales	Feasibility	Cost	Reference	Comments
22	S7	SE	Indicator of the evolution of breeder insertion into livestock trade	Cattle marketing rate; cattle price; fattening practice (embouche)		L			Réquier-Desjardins & Bied-Charreton, 2002	
23	S7	SE	Socio-economic advantages from cattle possession			N / L			Carrière & Toutain (1995)	
24	S7; S9	I	Official participation of the populations in the actions of the support structures through local organizations	Inventory of local organisations		N / L			Ickowicz et al. 2005,	
25	S7; T4	I	Participation indicators (collective management of the proposed management)	Nb of persons participating to the initiative/total number of persons in the same (institutional) space; Nb of interested and participating women/total nb of women, Number of ethnic groups represented in the project / total number of ethnic groups on the same (institutional) space of the project; real beneficiaries / forecasted beneficiaries (number or by category); decision-making types; Number of meetings; Number and types of conflict; types of proposed animation: training...		N / L			Réquier-Desjardins et Bied-Charreton, 2002	

N°	Type UNCCD	Item	Indicators and units	Methodology	Primary data availability	Scales	Feasibility	Cost	Reference	Comments
26	S7; T4	I	Evolution of irrigated perimeter management	Type of irrigation decision, type of water distribution between plots of land, Costs of irrigation		L			Réquier-Desjardins & Bied-Charreton, 2002	
27	S8; S9	I	Medias and commuication activities Indicators			N			CSFD WG, 2008	
28	S9	I	Institutional and human capacities	Scorecard or Tracking Tool	to be determined	G / R / N / L			Anonyme 2008 GEF	Qualitative indicator
29	S9	I	Conflict management indicators	To be determined		N / L			CSFD WG 2008	Qualitative indicator
30	S9	I	Decentralisation indicators	To be determined		N / L			CSFD WG, 2008	Qualitative indicator
31		I	Grass root indicators	Constructed from local population knowledge		L			CSFD WG, 2008	To be developed