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Social and Private Profitability of the Tunisian Forest

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Background

- The importance economic of the forest is calculated in most cases, on the basis of the financial values of the market goods.
- The full exploitation of the numerous assets of the Tunisian forest is handicapped by the absence of suitable mechanisms to take into account their value.
- These goods and non market services, are not integrated in the national accounting and in the economic analyses.

→ Under-valorization of the forest sector on the economic plan

- The valuation of the contribution of the forest sector to the agricultural economy and to the national economy is not an easy task.
- In the national report of assessment of the forest resources (FRA, 2005), the direct contribution to the GDP while posting the industrial wood, the wood of energy and the NWFP is 160 millions of dinars in 2005, corresponding to 0,42% of the GDP and to about 3% of the agricultural GDP.

- Other evaluations encode TEV of the forest to 152 MTD in 1998 (Daly, 2005) and the global value of the NWFP extracted to 125 millions dinars in 2005 (Helal, 2005).
- These rates just give a partial idea of the importance of the forest sector.

**What has already
done**

done

Cesaro et al., 1998

World Bank, 2009.

Daly et Ben Mansoura (2005)

Helal, 2005

Tableau . Marginal value of afforestation attribute

Attributs	CAP (DT 2009/an/ personne)	Unité
Biodiversité	11,09	Augmentation des espèces végétales et animales de 1%
Fixation de Carbone	0,11	Quantité du Carbone séquestré équivalente à celle produite par 1000 personnes et par an
Réduction de l'érosion	1,93	réduction de la sédimentation des barrages et autres impacts liés à l'érosion de 1%
Incendie des forêts	-13,31	1% de la surface de la forêt brûlée par les incendies durant les 50 années à venir
Récréation	12,18	Accès à la nouvelle forêt pour les activités de loisirs et de récréation
Accessibilité pour les habitants locaux	4,09	Accès de la population locale à la nouvelle forêt

Tableau . Marginal value of combined attribute

Attributs	CAP (DT 2009/an/personne)
BIOEDU2	-9,23
BIOSC	-16,95
CARURB	0,06
CARTUN	-0,25
ACCNW	12,75
FIRSCN	12,33
INCRE	-7,44

OBJECTIVES

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- The surface of the forests in Jendouba is estimated to 120.000 ha (30% of the total surface of the region).
- 58% of the population of the region.

These forests provide a yearly production of about:

- 70.000 m³ wood,
- 70.000 quintals cork (90% of the national production),
- 3.600 kg of myrtle oil (80% of the national production),
- 56 millions of fodder units and 35 tons of mushrooms.
- National Park d'El Feyja (Ghardimaou).
- Protection of the environment : subsidies of investment: 20% of the cost of the project

- This study presents a Cost-Benefit Analysis of the afforestation programme in Jendouba (Tunisia)
- The main objective of the proposed project is to find out if afforestation measures were justified in terms of their economic efficiency. The assessment includes the analysis of profitability of afforestation measures from the private and social perspective
- Analyze and improve the profitability of the Tunisian forestry so the costs of provision of the different market and non market forest goods and services
- Develop new models of planning forest multi-resources (including the NWFP and non market services)

- lead a survey for the analysis of the financial value of the goods and services provided by Tunisian forests
- formulate a concrete propositions concerning the revision of the tariffs of the products.
- Define the norms of internalization of the values of non market goods and services.
- Set up of a system of payment of environmental services (biodiversity, sequestration of carbon, recreation..).
- "To have a cost- benefit balance, that constitutes an important help to the decision makers for the public policies, so much concerning regulation that of choice of projects.

Step 1

- Identification and literature review

Step 2

- Field survey in Jendouba region

Step 3

- CBA

Step 4

- Policy measures proposal

THANK YOU