Title: STRUCTURAL STUDY OF PRUNUS AFRICANA MONODOMINANT FORMATION IN KAHUZI BIEGA NATIONAL PARK

Faculty of Agricultural Sciences, Department of Waters and Forests, Catholic University of Bukavu

Keywords : *Structure, Prunus africana, Dynamics, mountain forest, Conservation*

I. Abtract body

Prunus africana is classified as globally vulnerable by the international Union for the Conservation of Nature. It is recognized that *Prunus africana* is declining relative to its natural range, and has even disappeared from some localities due to habitat loss.

The results of the modeled distribution indicate that the species is expected to be negatively affected in the future and its rapid population depletion in an immediate need for conservation strategies for the remaining populations of *Prunus africana*.

This study evaluated the population structure of *Prunus africana* in Kahuzi Biega National Park. To do this, 5 plots of 50m x 50m each were installed in the high altitude part of PNKB. All DBH trees ≥ 10 cm were measured. To compute the dynamics of individuals of understory species within the stand, all individuals of all inventoried species with DBH ≥ 5 and < 10 were counted.

The results show that the average relative density of *Prunus africana* is 24,3%. In the undergrowth, its average relative is 13,4%. The average DBH of the species *Prunus africana* is 35,4 cm, with an average number of individuals of 22, its mean avarage basal area is 230,39 m², while its average relative dominance is 55,6% with importance value index 79,9. For the biomass, only *Prunus africana* average has an accumulation of 65,11 %.

II. Image



III. Reference

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IV. Biography

I'm studying to do the master's degree in environment and the management of natural resources. At the age of 25, I hold a degree in water and forest engineering from the Catholic University of Bukavu. I do research in management and protection of the environment by fighting the disappearance of biodiversity. In a short time, I will publish two articles dealing with the protection of natural resources.

V. Presenting author details



Full Name: KAMBALE KATSUVA GAEL
Contact number : +243978241285
Twitter account: -
Linked In account: KAMBALE KATSUVA
Session name/ number : Agroforestery and environement/7
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