Abstract

The study of flora and fauna under a micro-ecosystem "*Stipa tenacissima.* L " in the area of Bir el Ater (Tebessa province), allows us to determine the role of the species of Stipa tenacissima as a micro-ecosystem.

The objective of this work is the evaluation of plant diversity and characterization of vegetation associated with Stipa tenacissima ecologically and floristry, to determine the ecological and the biological role of this species and to take stock of wildlife land of the study area and it's relationship with it's micro-ecosystem.

In the methodological framework, we have collected floristic sample data by a subjective within inside and outside of the deferred grazing in the study area, through phytoecological and soil surveys, sampling was conducted during autumn and spring (November 2015 to April 2016).

While harvesting of faunal data was carried out by systematic sampling performed every 15 days of each month (from November to April of the year 2015/2016) by the barber pots method. The identification and enumeration of the species caught are performed in the laboratory under a binocular microscope and then we realized digital applications through the indices of biodiversity.

The flora and fauna study under a micro ecosystem "Stipa tenacissima. L "in the area of Bir el Ater Tebessa wilaya, which promotes the installation of a floristic (The floristic analysis in deferred grazing and off the deferred grazing in the study area, allows us identify two main types of vegetation.) and diversified fauna (the presence of a diverse terrestrial fauna associated to stipa tenacissima, consisting of 03 branches, which include 05 classes, 18 orders, 60 genera and species.) that protects the soil against erosion by its root system. Which acts as a natural and biological barrier against the movement of sand on the north by the phenomenon of silting.

Keywords :

Stipa tenacissima. L, micro-ecosystem, Flora, Fauna. Tebessa