

Biomorphological Characteristics, Habitats, Role in Plant Communities and Raw Reserves of *Ayuga Turkestanica* (Regel) Briq. (Lamiaceae) In Uzbekistan

Authors : Akmal E. Egamberdiev, Alim M. Nigmatullaev, Trobjon Kh. Makhkamov

Abstract : The results of scientific research on the biomorphological features of *Ayuga turkestanica* (Regel) Briq., its role in plant communities, modern distribution areas, and raw material reserves are presented. Plant ontogeny is divided into 3 periods and 9 growth stages. Information on its seasonal and diurnal flowering and seed productivity is provided. As a result of the research, the participation of the studied species in plant communities, its place, the structure and floristic composition of communities were determined, and as a result, for the first time, the description of 11 new associations in 7 formations of *Ayuga turkestanica*, and a schematic map of the geolocation of formations and associations of plants in Uzbekistan is given. *A. turkestanica* (within the range) are divided into 3 categories and 21 massifs. Its current biological reserve is 93.5 ± 35.3 tons, its usable reserve is 46.2 ± 13.8 tons, and the reserve that can be prepared in 1 year is 28.4 ± 5.42 tons.

Keywords : ontogeny, seed productivity, seasonal flowering, formation, association, dominant, subdominant, areal, biological reserve, operational reserve, annual reserve, GIS map

Conference Title : ICAACS 2023 : International Conference on Agriculture, Agronomy and Crop Sciences

Conference Location : Rome, Italy

Conference Dates : March 06-07, 2023