

Abstract

Kohat was explored for the purpose of taxonomic studies of freshwater algae. Algae was collected from nine different sites during October 2016- June 2017. A total of 54 species belonging to three kingdoms Monera, Protista and Protoctista were identified and observed. Kingdom Protista was found to be the most abundant including two phyla Volvocophycota and Bacillariophycota. Phylum Volvocophycota comprises of 1 class, 1 order, 1 family, 1 genus and 2 species i.e. *Cosmarium constrictum* and *C. granatum*. Phylum Bacillariophycota comprises of 1 class, 2 orders, 10 family, 14 genus and 21 species. i.e. *Cocconies placentula*, *Denticula crassula*, *Diatoma anceps*, *Cymbella gracilis*, *C. naviculiformis*, *C. ventricosa*, *Nitzschia hungarica*, *Anomoeoneis sphaerophora*, *Navicula bacillum*, *Pinnularia appediculata*, *P. globiceps*, *Gyrosigma scalproides*, *G. kuetzingii*, *G. spencerii*, *Fragilaria capucina*, *Synedra tabulate*, *S. ulna* var. *amphirhynchus*, *Gomphonema ghosea*, *G. olivaceum*, *Gomphoneis herculeana* and *Cyclotella michiganiana*. Kingdom Protoctista include 1 phylum, 3 Classes, 3 orders, 3 families, 5 genera and 21 Species. i.e. *Microspora crassior*, *Mougeotiopsis calospora*, *Spirogyra aequinoctialis*, *S. borgeana*, *S. circumlineata*, *S. condensate*, *S. fluviatilis*, *S. fuellebornei*, *S. gratiana*, *S. insignis*, *S. micropunctata*, *S. mirabilis*, *S. pratensis*, *S. punctiformis*, *S. rectangularis*, *S. scrobiculata*, *S. varians*, *S. weberi*, *Cladophora glomerata*, *Rhizoclonium crassipellitum* and *R. hookeri*. Kingdom Monera included 1 Phylum, 2 classes, 3 orders, 3 families, 4 genera and 10 species. i.e. *Chroococcus minutus*, *Osillatoria curviceps*, *O. formosa*, *O. nigra*, *O. prolifica*, *O. quadripunctulata*, *O. tenuis*, *O. tenuis* var. *natans*, *Spirulina subsalsa* and *Stigonema minutum*.