

FOLIAR PIGMENTS AND THEIR DYNAMICS DURING DIFFERENT VEGETATION PHENOPHASES IN FIVE CULTIVARS OF *CANNABIS SATIVA* L.

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Abstract

The pigments dynamics of leaves were analyzed in five cultivars of *Cannabis sativa* L. during different growth phases. The photosynthetic and flavonoid pigments content were appreciated spectrophotometrically by light absorption of the acetone pigment extract (1%). During intense growth the middle floor leaves play an important role in light absorption and assimilates synthesis, although a certain cultivar from the five studied presents a different behavior. In the dioecious cultivars light absorption and photosynthesis intensity is higher than in the studied monoecious hemp cultivars. The leaves under the inflorescence have an important role in light absorption from the beginning of flowering until fruit formation.

Key words: hemp, dioecious, monoecious, photosynthesis, chlorophyll, flavonoids