

## ABSTRACT

### RESEARCH ON MALE FLOWER STRUCTURE OF CHESTNUT (*Castanea sativa* Mill.) GENOTYPES IDENTIFIED BY SELECTION

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This study aims to analyze the structures of male flowers of chestnut (*Castanea sativa* Mill.) genotypes selected as a result of selection study in the district of Aydın Province Nazilli. The catkin length, the number of male flower cluster according to tepal male organs, height, number of flower clusters on the catkin, the male organ in the number of flowers, anthers on features such as size measurements of male flowers selected among the stamen during the blooming period in 2012 were measured and the related study was carried out under a microscope.

This study shows that the genotypes N- 2-5, N-3-4 and N-23-1 are defined as no-stamen genotypes as they do not form any anthers and owing to this fact they do not have the ability of duster since they are sterile. The microscopic study showed that the genotype N-7-3 has a mesostaminate and the genotype N-20-2 has a longstaminate.

**Keywords:** Chestnut, stamen, sterility, anther.