**Determination of some agronomic and morphological characteristics of genotypes selected from sainfoin (*Onobrychis sativa* L.) population**

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**Summary**

This research was conducted to determine some agronomic and morphological characteristics of sainfoin genotypes selected from the sainfoin (*Onobrychis sativa* L.) populations. The materials derived from naturally vegetation areas in Konya and Karaman at the same time grown by farmers at the area in this experiment.

First flowering date, fruiting date, plant habitus, hairy, anthocyanin, leaflet form, fruit form, seed form, leaf length, leaflet number per leaf, leaflet density, leaflet length, leaflet width, leaflet index, plant height, number of main braches, cluster number on main branch, cluster length, flower number, fruit number, frutiing ratio, one fruit weight, one seed weight, seed –fruit ratio, plant residue yield, plant fruit yield were determined. It was very important to have seed and forage yield on growing sainfoin.

The highest plant residue yield was from the genotype 83 with 256.82 g, and the highest plant fruit yield was from the genotype 77 with 78.45g.

Key words: population, natural vegetation, sainfoin (*Onobrychis sativa* L.), agronomic characteristics, morphological characteristics