Available on-line at http://dse.usab-tm.ro/en/bjb.html

Banat's Journal of Biotechnology

2011, II(3),

BIOCHEMICAL TRAITS AND CORRELATION ASSOCIATIONS BETWEEN CHEMICAL COMPOSITION AND SOME PARAMETERS YIELD IN BIRDSFOOT TREFOIL

Boryana Georgieva Churkova[1]

[1]*Institute of Mountain Stockbreeding and Agricultire, 281, Vasil Levski str., Troyan 5600, Bulgaria, e–mail: bchurkova@abv.bg*

Abstract. The field trial was conducted during the period 2002–2005 in the Experimental field of the IMSA Troyan for determination of the biochemical traits and correlation associations between chemical composition and some parameters yield in birdsfoot trefoil.

There were included for study varieties Targovishte 1–St (Bulgaria) and 4 specimens of birdsfoot trefoil: local population (Hungary). K–30 (Serbia), Pulavskii (Poland) and Viking (USA).

The studied accessions birdsfoot trefoil differed in chemical composition. The variety Viking (19.07%) was characterized with highest content of crude protein and lowest values of crude fibber (27.75%).

Was positive correlation between the height of stems (r = 0.6229) and dry mass yield (r= 0.5271) and weak strength of correlation between the content of crude protein and the height stems (r = 0.4238).

The registered quality traits a forage of birdsfoot trefoil formed under conditions of set on light grey pseudo podzolic are interest in the breeding.

Keywords*:* birdsfoot trefoil, varieties, populations, chemical composition, correlation associations