

TALL FESCUE VARIETY (*FESTUCA ARUNDINACEA* SCHREBER) TRANSILVANIA 6

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Abstract

This paper aims to highlight the most important characters of Festuca arundinacea Schreber Transilvania 6. Festuca arundinacea is a valuable forage crop and valuable for turf, given the characteristics it has in agriculture and landscape: high perenniality, winter hardiness, resistant to disease and ironing and a high capacity of production. There were used three synthetic varieties of tall fescue: the variety of perspective Syn J-6 and registered breeds VIO JUCU and JUCU 5 taken as witness on production capacity for forage and as for turf characteristics was used as witness only JUCU 5 variety. It was sown in five Centers of varieties testing (in different climatic conditions), using field randomized block method in three repetitions. Following the results of testing the synthetic variety Syn J-6, it was registered under the name of TRANSILVANIA 6-the variety has midsize plant waist, very good foliage richness, suitable for lawn and establishment of sown meadows used as hayfields or pastured, with a dark green color of leaves.

Keywords: tall fescue, variety, lawn, synthetic.

INTRODUCTION

Festuca arundinacea is a valuable forage crop and valuable for turf, given the characteristics it has in agriculture and landscape: high perenniality, winter hardiness, resistant to disease and ironing and a high capacity of production. In the past years in Romania were created new varieties of tall fescue and TRANSILVANIA 6 variety created by the researchers at USAMV Cluj Napoca is highlighted by the suitability for production of forage and turf in landscaping. Tall Fescue

synthetic variety Syn J-6 was created between 2009-2012 in five Centers of variety testing (Simleul Silvaniei, Dej, Satu Mare, Sibiu and Radauti) within I.S.T.I.S. Bucharest. The testing was done on fodder production as well as for the characteristics of sod namely: growth vigor, general aspect, the density of the vegetal carpet, land coverage degree, ironing tolerance, dryness resistance, disease resistance, leaves finesse and the color of the leaves.

MATERIAL AND METHOD

There were used three synthetic varietic of tall fescue: the variety of perspective Syn J-6 and registered breeds VIO JUCU and JUCU 5 taken as witness on production capacity for forage and as for turf

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RESULTS AND DISCUSSIONS

Analysing the production results of dry substance obtained in the first year of vegetation (Fig. 1) to the three studied varieties we ascertain a big production of dry substance

obtained at CTS Sibiu where were enough precipitations, Transilvania 6 variety surpassed the other two only at Simleul Silvaniei, Satu Mare and Rădăuți.

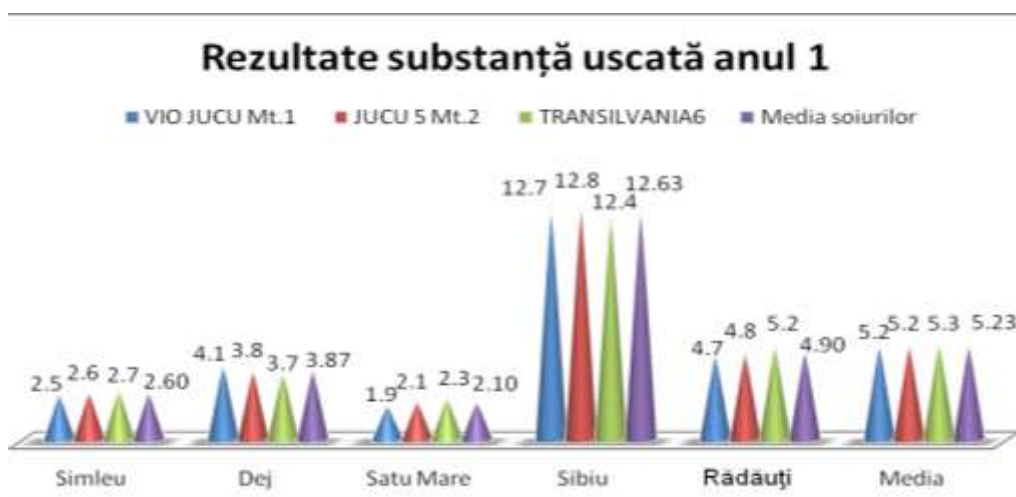


Fig. 1. The obtained production of dry substance in the first year of vegetation for the three varieties of tall fescue in I.S.T.I.S.-2009 network.

In the second year of vegetation the highest productions of dry matter were accomplished at CTS Sibiu(over 20 t S.U Ha),

Transilvania 6 variety exceeding Jucu 5 variety in CTS sites of Sibiu and Dej, and Vio Jucu in CTS sites from Simleu, Satu Mare and Sibiu.

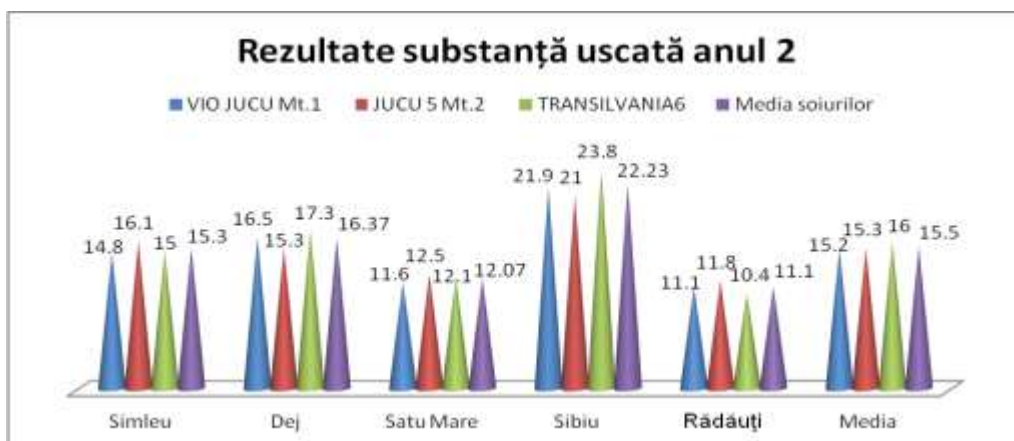


Fig. 2. Dry matter production obtained in the second year of vegetation at three tall fescue varieties in I.S.T.I.S-2010 network.

In the third year of vegetation Transilvania 6 variety exceeded Jucu 5 variety in CTS sites of

Simleul Silvaniei, Sibiu and Dej, and Vio Jucu in all five CTS sites studied.

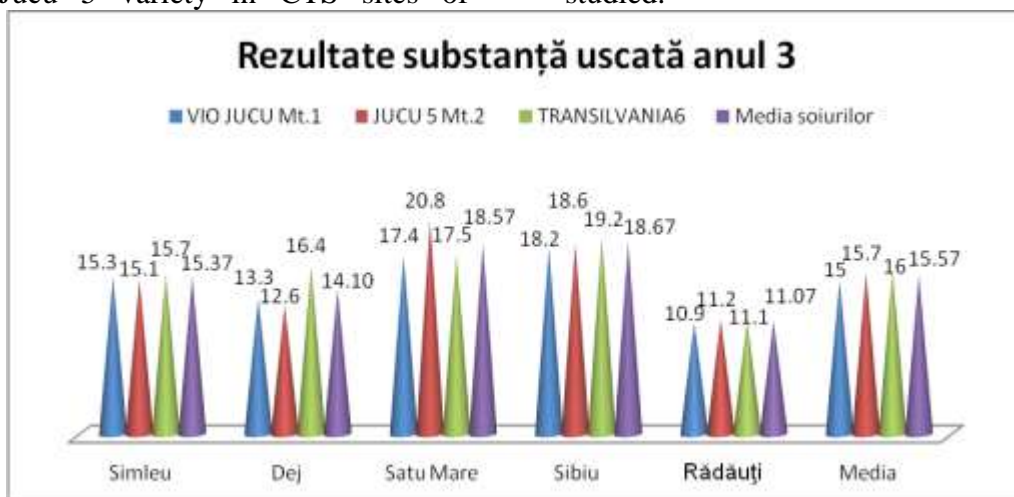


Fig. 3: Dry substance production obtained in the third year of vegetation at the three tall fescue varieties in I.S.T.I.S-2011 network.

Considering the production results registered in the three year average of vegetation we find out the big capacity of production of dry matter of the three tall fescue varieties

created at U.S.A.M.V Cluj-Napoca, especially Transilvania 6 variety which in conditions of CTS Sibiu it achieved over 18 t SU/ha in a three year average.

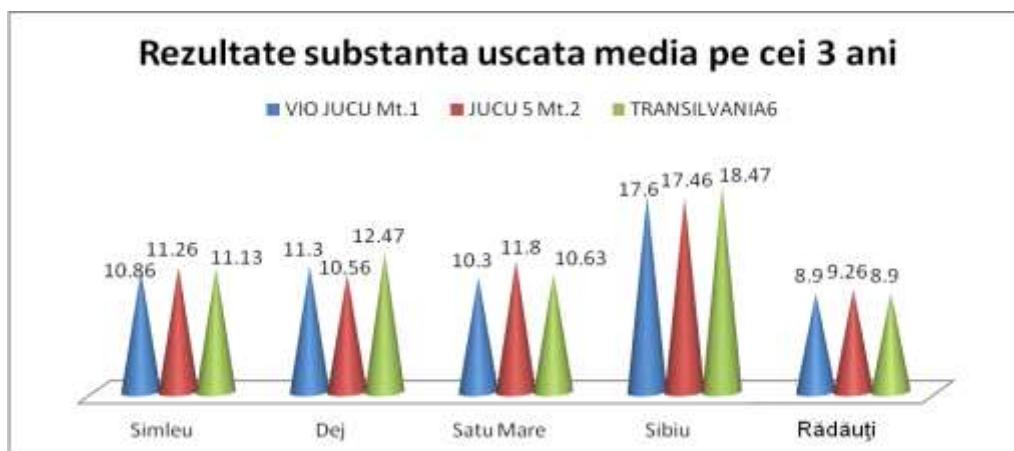


Fig. 4. Dry matter production obtained in the three-year average of three varieties of vegetation in tall fescue network I.S.T.I.S. - 2009-2011

The tall fescue variety was studied in five CTS sites of I.S.T.I.S. Bucharest and in terms of trails for lawn namely: vigor of growth, general appearance, the density of the vegetal carpet, land coverage degree, ironing tolerance, dryness resistance, disease resistance, leaves finesse and the color of leaves. The obtained results (average of the

three years of study) are presented in Tab. 1 and Fig. 5. In these studies, the witness was tall fescue Jucu 5 variety registered previously with special qualities as variety for lawn establishment. Considering the results, Transilvania 6 variety was noted considering the density of the vegetal carpet and the degree of land cover.

Table 1

Results for lawn appropriation (note- average of years 2010-2012)

Variety	Growth vigor	Gen. Aspect	Dens. Of Veg. Carpet	Gr. Acop. teren	Ironing To		Dryness tolerance	Disease tolerance	Leaves Finesse	Color of leaves
					Summer-	winter				
JUCU 5 Mt.	8,0	7,0	7,0	7,0	7,3	8,0	7,0	8,0	7,0	green
TRANSILVANIA A 6	8,0	7,0	8,0	8,0	7,3	8,0	7,0	8,0	6,0	Dark Green

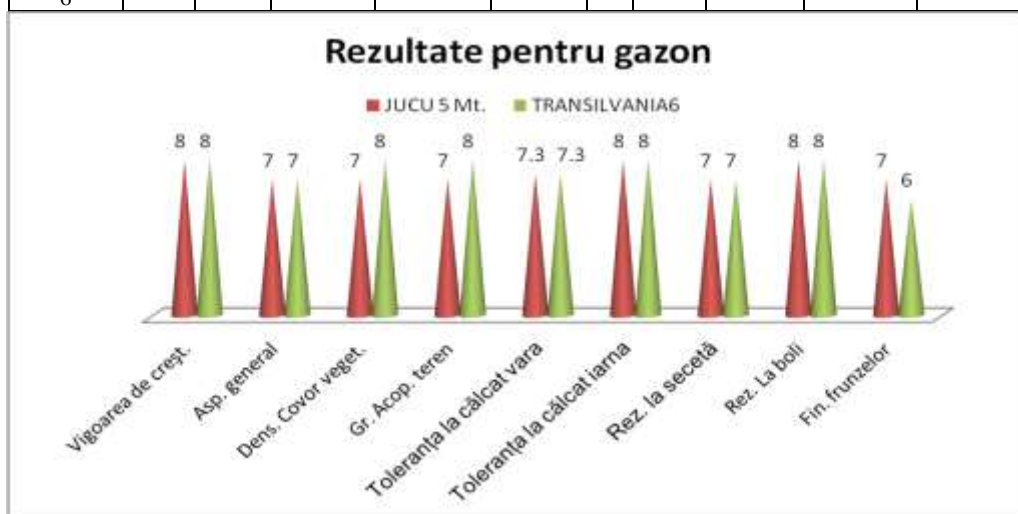


Fig. 5. Testing results to two tall fescue varieties in I.S.T.I.S. network (average of years 2010-2012)

It should be noted that tall fescue varieties for lawn created at U.S.A.M.V.

Cluj Napoca have very good

perenniality (7-8 years in comparison with varieties for lawn of perennial ryegrass which needs to be reseeded after only three years).

CONCLUSIONS

Following the results of testing the synthetic variety Syn J-6, it was registered under the name of TRANSILVANIA 6-the variety has

midsize plant waist, very good foliage richness, suitable for lawn and establishment of sown meadows

used as hayfields or pastured, with a dark green color of leaves.

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