

## RESULTS OBTAINED IN FIELD TRIALS FOR WHEAT CULTIVARS IN 3 DIFFERENT REGION OF ROMANIA

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### Abstract

The aim of the research was undertaken to obtain information on the production capacity of wheat cultivars offered by the Romanian company Saaten Union Romania (Genius E, Mulan B, Petur, Katarina and Joker) in comparison with Romanian cultivars Dropia and Glosa. Observations were made in the agricultural years 2012-2013, 2013-2014 and 2014-2015, at Lugoj, Secuieni and Draşna (only in the agricultural years 2012-2013 and 2014-2015, due to unexpected mice attack in the agricultural year 2013-2014), the behaviour of tested wheat cultivars. Are presented the main cultural characteristics of cultivars. In case registered in the agricultural year 2012-2013 at Secuieni, witness cultivar Glosa, was superior to witness cultivar Dropia and average yield obtained in the experiment. On the whole experiment of this year, cultivar Joker was superior to cultivar Glosa (with 5.5%, Mulan B and Genius cultivars are under the control cultivar Glosa without exceed difference of 11.2% respectively 5.4%. Katarina cultivar proved to be inferior to other cultivars taken into considerations. In agricultural year 2013-2014 (exceptional year for wheat crops due to increased humidity) witness Glosa was superior to cultivar Dropia, but lower than cultivars Petur and Katarina. The Joker cultivar ranked first followed by Mulan B cultivar and Genius E. In this year cultivar Joker was on the first place at Secuieni and Lugoj, but on the last place was Dropia (at Lugoj) and Glosa (at Secuieni). In the agricultural year 2013-2014, the situation keeps classification of witnesses (but at Lugoj cultivar Glosa was superior to Dropia, instead at Secuieni Dropia was superior to Glosa, productions of cultivars Joker, Genius E and Mulan B are superior to witness Glosa followed, with no significant differences by Petur and Katarina cultivars, cultivar Dropia is the least competitive in the experiment. In case registered in the agricultural year 2014-2015 at Secuieni, witness cultivar Izvor, was superior to witness cultivar Dropia and average yield obtained in the experiment. On the whole experiment of this year, cultivar Izvor (the newest cultivar registered was superior to cultivar Dropia (average relative yield trial by location %) with 16.1%, Genius cultivars are under the control cultivar Dropia with a difference of 0.2%. Katarina and Petur cultivars proved to be superior to average relative yield trial by location % and Mulan B and Joker were inferior to this average taken into considerations. It is also discussed cultural behaviour of the tested cultivars and to pest and disease attack. In general, from the data obtained in considered test fields, the cultivars proposed by Union Romania Saaten company have a great ecological plasticity and were in average yield, above witnesses, in the years studied.

**Key words:** testing wheat cultivars, production.