SEED PRODUCTION OF BIOLOGICAL CATEGORIES AT TOP OF
SOYBEAN CULTIVARS AND THEIR BEHAVIOR TO SOIL AND
CLIMATIC CONDITIONS AT ARDS SECUIENI

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Abstract  Seed production is a very important activity for agricultural production, the quality
of biological material depends largely cultivated production level obtained. A good
organization of seed production must not only satisfy the production of seeds with higher
seminal qualities, but to ensure a seed productivity, what can’t be achieved without knowing
the nature of plants and their requirements to the conditions of existence. Plant with high fat
and protein content soybean is grown on large areas worldwide, the total amount of biomass
being used, especially seeds with high protein substances (27.0 - 50.0%) and fats (17.2 - 26 ,
9%). Mature seeds can be used in human nutrition (in various recipes), to obtain compound
and for fat extraction. As a leguminous plant, which enters into symbiotic relationship with
nitrogen fixing bacteria, soy is a valuable preplant crop rotation. Given the multiple uses of
biomass soybean, it is considered „gold plant’’ of people, „extraordinary plant’’or „plant of
the future’’. During 2008 - 2010, in the Seed Production Laboratory of Agricultural Research
and Development Station Secuieni, Neamț, had been grown three soybean varieties, Granat,
Onix and Eugen, created by ARDS Turda. These varieties have performed very well in
ARDS Secuieni soil and climate conditions realizing production up to 3000 kg / ha. Due to
the results obtained in 2011, ARDS Secuieni became the maintainer of variety of soybean
varieties Onix and Eugen, establishing maintenance field and future expansion plans for seed
production area for superior biological categories. Key words: seed production, soybean,
varieties