Description of Agronomic Characteristics for Wild Everbearing Diploid
Fragaria vesca Semperflorens

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SUMMARY

More than a third of Fragaria species produce edible fruits, but just only three of them are grown for commercially purposes: F. x ananassa, Fragaria vesca semperflorens and Fragaria moschata (Darrow, 1966; Gunter, 1999). First of them is a permanent subject of sustained research programs. Wild ever bearing diploid F. vesca var vesca ssp. semperflorens, although known to be highly susceptible to virus diseases, remain a potential source of valuable genes for breeding programs. Some selections are able to produce appreciable yield of fruits with unrivaled flavor. In order to have the most suitable results a study has been started in 1996 during on 10 years, in 3 different areas and take into consideration a large number of selections. The trial was carried out as follows: at the Buzău Research Station for Fruit Growing, at Moara Domneasca Didactic Farm, Ilfov and Pitesti Research Institute for Fruit Growing. Observations, measurement and determination have been done in the each of the three experimental places. Following characteristics were determinat: plant vigor, high of inflorescence, number of inflorescences, fruit quality parameters (size, shape, weight of fruit, skin and flash fruit color, taste, position and number of achenes, SU), yield per plant per harvest and yield per plant per year. The differences between selections were made in term of characteristics related to the vigor of growth and fertility, in terms of fruit characteristics and in terms of productivity. The investigation had as result 7 valuable selections of F. vesca ssp.semperflorens f. alba and 10 valuable selections of F. vesca ssp. semperflorens f. rubra. Some of these selections showed an exceptionally high plant vigor (265 mm – sel.F.s.a.97-14, 296 mm – sel.F.s.r.97-2), high fertility measured in number of inflorescences (31 – sel. F.97-16, 47 – sel. F.s.a.97-2), an impressive yielding potential (491g/plant/year – sel. F.a.97-14), and produced very uniform fruits in shape, color of the skin and flash, up to 4 g weight. Because of the fact that all parameters measured are related to productivity (yield per plat per harvest and yield per plant per year) and fruit quality (subglobose, slightly conical to fusiform fruit, with skin shiny wine red to oriental red - f. rubra and yellowish white or cream white, seldom pure white - f. alba, exceptionally fruit flavor), were noted as statistical very significant positive two selections: sel. F.s.a. 97-14 and sel. F.s.r. 97-5. The present survey recommends more investigations, starting on the fact that some selections produce runners – one of most valuable agronomic characteristic.

Keywords: Fragaria vesca ssp.semperflorens, selection, characteristics

REFERENCES