

Galanthus nivalis in Slovenia and Observed Anomalies

Jože Bavcon & Alenka Marinček

Botanical Garden Ljubljana, Department of Biology,
Ižanska cesta 15, 1000 Ljubljana, Slovenia; joze.bavcon@guest.arnes.si

ABSTRACTS

Slovenia is very diverse in terms of climate, relief, geological and petrographic structures, and flora: Central European-Alpine, Submediterranean, Pannonic, and Illyric-Dinaric. Growing in Slovenia is just one species of *Galanthus nivalis* which is spread almost everywhere. The populations are extremely large. Due to mentioned factors, snowdrops has a relatively long period of bloom, which allows monitoring its populations. Examined closely, however, they reveal a relatively wide variety and anomalies specific of certain areas. As evident from the observations in nature and from the specimens brought to the Botanical Garden, some of these changes are hereditary, whereas the others depend on different environments.



MATERIAL AND METHODS

The plants have been collected from different parts of Slovenia. Every plant is first photographed, then dug out, potted and the pot dug into the soil in the Garden. It is described as to its specific features. Every pot is given its own reference number. The stability of the special features is checked in the course of the following year.



RESULTS AND DISCUSSION

The data as gathered so far show that some anomalies are almost completely stable, the others partly, still others are not stable or reappear but periodically (unstable).

STABLE ANOMALIES



Green tipped, spots, specks on the outer perianth segments, giant, floral shape (long blossoms, ovate, narrow perianth segments leaves), patterned inner perianth segments leaves (V- or U-shaped green mark on the inner perianth) "Flore Pleno" form.

PARTLY STABLE



Multiple floral formula ($P 2+2 A 2+2 \bar{G} 2$ to $P 7+7 A 7+7 \bar{G} 7$ up to biflorous plants; form with equally large perianth leaves - (Poculiformis)), green coloured inner perianth.

UNSTABLE



Malformation of flowers, additional white leaves above ovary, anomalies of outer and inner perianth segments, siamese flowers

Bibliography Aaron P. Davis, 1999. Reprint 2000. The Genus Galanthus. A Botanical Magazine Monograph. The Royal Botanic Gardens, Kew in association with Timber Press. V Bavcon J., 2003. Domači posebnosti med navadnimi zvončki. Vrtnar. Februar marec 2003, L. 12/1 pp. 14- 17. Bishop, M, A. Davis, J. Grimshaw, 2001. A Monograph of Cultivated Galanthus. The Griffin Press. Bourne, V. 1999. Gifts from Crimea. The Garden vol. 124 part 1 pp. 26-27. Maly K. 1904. Beiträage zu Kenntnis der Flora Bosniens und Herzegowina 54: pp. 302. McArdle C., 2002. The legacy of Lambrook Manor. The Garden vol. 127 part 1 pp. 18-23. Merljak L. 1995. Presenečenje v spomladanskem šopku. Proteus 57/9-10 (402). Prelc. M., 1994. Nenavadna zvonček. Proteus 56/9 (347). Rešetič M., 1995. Nenavadna trobentica in zvonček. Proteus 57/9-10 (402). Wraber T., 1994. Pojasnilo o nenavadnem malem zvončku. Proteus 56/9 (347).