

**COMPLEX STUDYING AND EVALUATION OF VARIETIES OF NEW AND
NEWEST VARIETIES OF IRIS HYBRIDA HORT. IN THE FOOTHILL ZONE
OF CRIMEA**

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One of the main tasks of the introduction work with flower-decorative plants is the allocation of species, varieties and forms, the most promising for introduction into the practice of green building and further use in breeding.

In the botanical garden of Crimean Federal V. I. Vernadsky University studied 38 new and new tall varieties of iris hybrid on decorative and economic-valuable traits. To determine the decorative and economic-biological qualities of new and new varieties, the commonly used methods of variety evaluation and sorting of ornamental plants were used, as well as the scale of the 100-point complex assessment, modified by us. The sum of points scored by varieties when characterizing them for all indicators was used to determine the group of prospects. When assessing varieties for the purpose of forming a perspective assortment and depending on its use in landscaping, the most significant features were: the shape of the flower, the density of the perianth stakes, the strength and height of the peduncle, the productivity and the duration of flowering.

As a result of our comprehensive assessment of new and new varieties of garden bearded irises. The entire assortment studied for perspective use in ornamental floriculture was divided into 3 groups. To the unpromising (less than 65 points) for cultivation in the conditions of the foothill zone of the Crimea are 8 varieties.

18 varieties of medium perspective (65–79 points) are recommended, which we recommend for use in landscaping and floral decoration of this region.

12 highly prospective varieties (80 or more points) from the assortment studied are characterized by a complex of valuable features: bright coloring, original flower shape, abundant and prolonged flowering, high coefficient of vegetative reproduction and comparatively low incidence of diseases and pests.

Based on the assessment of decorative and valuable characteristics of the formed assortment for use in breeding and gardening in the region.

Keywords: *Iris hybrida* hort., grade, plant introduction, phenology, reproduction, breed appraisal, collection, promising assortment.

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