Rastitelnye Resursy. 51 (1): 81–88, 2015

SEASONAL DYNAMICS OF VOLATIVE TERPENOID COMPOSITION IN THE LEAVES AND FLOWERS OF *RHODODENDRON LEDEBOURII* (ERICACEAE) UNDER THE INTRODUCTION (KRASNOYARSK)

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SUMMARY

The component composition of terpenoid compounds in leaves and flowers of *Rhododendron ledebourii* Pojark. during the growing season under the introduction conditions was investigated. 138 compounds were identified in total, 124 of them were in leaves and 37 in flowers.

The dynamics pattern of terpenoid proportion was detected: the diversity of volatile compounds increased since the beginning of vegetation period to the end of July, and gradually decreased since August to September; the maximal content of monoterpens was found in the beginning of growing season, the sesquiterpens dominated at the end of vegetation period both in leaves and flowers.

R. ledebourii was characterized by high individual variation of terpenoid carbohydrate composition, with alterations in individuals from 39 to 64 compounds during vegetation period.

Investigations demonstrated that the plants should be studied individually during vegetation period in order to estimate the chemical diversity in plants. The chemical form that was uncommon for the studied selection was found in the study of individual compound dynamics. Collection of material over all vegetative season resulted in the increase of numbers of terpenoid quantity by 52 compounds in comparison with single herborization in July that was the period of maximal leaf growth and the end of shoot growth.

In the case of single herborization, the middle up to the end of July could be the optimal period for collection, when the maximal diversity of compounds was noted in the leaves.

Key words: *Rhododendron ledebourii*, terpenoid composition, dynamics, vegetation period, introduction.