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Horticultural Science

Testing the divergence of selected taxa of genus *Cotoneaster*, *Juniperus*, *Picea* and *Viburnum* – the influence of climate changes on intensive roof gardens

Krajčovičová D.:

Hort. Sci. (Prague), 34 (2007): 72-76

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The research has been conducted in several phases for 10 years on existing intensive roof gardens in the Trenčín district. The first phase was carried out within the GP 1/4419/47 Adaptability of Cultural Vegetation in Consequence of Global Draining and Warming. Roof

gardens are a good place for simulating natural phytocenose sites that are able to accumulate rainfall without taking it to drainage. The second phase of research was conducted within a continuation of GP 1/1316/04, verifying xeric plants for conditions of changing climate in a urbanized environment on different construction systems. For a statistical evaluation it was necessary to select taxa in at least three roof gardens. The basic hypothesis was that all plants are conditionally suitable for roof gardens. Another assumption was that the maintenance of all roof gardens is uniform. Results have shown that some plants are more adaptable and drought-tolerant even if the maintenance of roof garden is not appropriate.

Keywords:

test divergence; humidity; aridity;
intensive roof gardens; growths;
Cotoneaster, *Juniperus*; *Picea*; *Viburnum*

[[fulltext](#)]

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