

13th International Conference on

Agriculture & Horticulture

September 10-12, 2018 | Zürich, Switzerland

Distribution and taxonomic composition of Rosaceae family genus and species in Azerbaijan Dendroflora in natural and cultural conditions

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Statement of the Problem: Since 2010, comprehensive monitoring of natural and cultural dendroflora of Azerbaijan has been conducted, and 92 family species and 266 species of 1116 species of trees and shrubs have been detected. In particular, the current status and classification of the *Rosaceae* family have been thoroughly investigated. The *Rosaceae* family includes over 120 species and over 3150 species. There are 128 species of this chapter in the Azerbaijani dendroflora in the 60s and 70s.

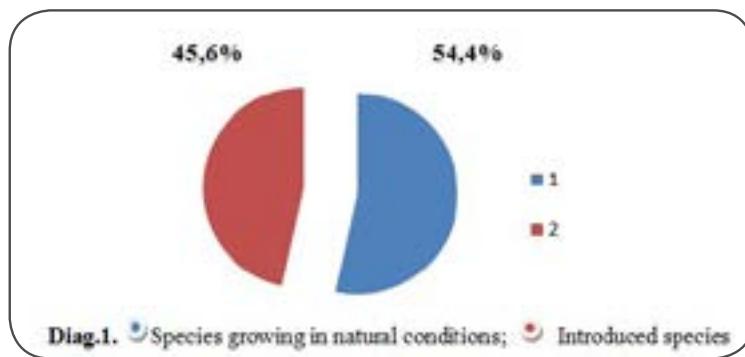
Purpose of this study: Study of the distribution range of the *Rosaceae* species in the Azerbaijani dendroflora the botanical description, the bioecological features of their *in situ* and *ex situ* conditions, the selection of the most promising and sustainable species.

Methodology & Theoretical Orientation: The taxonomic composition of 285 species of 25 genera is based on the Engler and APG III-IV systems (*Angiosperm Phylogeny Group*).

Findings: It turned out that 155 species belonging to the *Rosaceae* family were spread in natural conditions and 130 species were introduced in cultural conditions.

Conclusion & Significance: As a result, 285 species of tree-branch plants systematics, propagation switches, distribution areas, botanical description and ecology have been studied. Since some of these breeds are still in the formulation phase, their younger ones differ little from each other and form transitional forms (*Rosa*, *Malus*, *Rubus* etc.). Genuses and species belonging to this chapter are not of great importance in the formation of natural forests, but they are mainly the second floor. Here, the apple and pear sorts are social, as they sometimes occupy higher floors. This chapter includes food essential for human beings. Fruit plants are mainly representatives of this chapter. Many plants of the chapter are of great importance in ornamental gardens. Life forms and botanical signs differ from each other in terms of the shape of the egg in the flower, the shape and size of the fruits.

The biochemical features of these plants, their growth and development, the study of the relationships with the environment, the use of landscape architecture based on landscape architecture have great theoretical and practical significance.



Recent Publications:

1. The "Red Book" of the Republic of Azerbaijan. II edition, Baku, 2013, 667 p.
2. The trees and branches of Azerbaijan. Section III. Baku, "Science", 1970, p. 6-126.
3. Mammadov T.S. Absheron tree and branches. Baku, Science and Education, 2010. 468 p.

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4. Mammadov TS, Iskander E.O. Rare trees and bushes of Azerbaijan. Baku, "Science", 2014. 380 p.
5. Mammadov T.S. Azerbaijani dendroflo. Part IV, Baku, "Sada", 2017. 392 p.

Biography

Mammadov Tofiq Sadiq is a doctor of sciences in biology and ecology. He is a Corresponding member NAS of Azerbaijan. He has his expertise at the first time by scientific methods studied floristic structure, regular position, stability to ecological factors and industrial value trees-bushes plants from 87 families, 230 sorts and 660 species dendrofloras of Absheron, plants are grouped on evergreen, by deciduous, coniferous and height (2009). In present period in Azerbaijan dendroflora are revealed gymnospermae of trees and shrubs plants growing in a natural and cultural condition from 8 families, 26 sorts and 129 species, published I volume of the book "Dendroflora of Azerbaijan", Baku: Science, 2011, 311p.. Carried out monitoring on natural and cultural flora of Azerbaijan, collected herbariums from 40 families, 89 sort, 295 species grouped in system APG III, has been given attributive keys and illustrative drawings. Prepared II volume of the book "Dendroflora of Azerbaijan" (2013). Defined rare and being under the threat of disappearance trees-bushes plants from 42 families, 71 genus, 198 species in Azerbaijan flora, these species are grouped in categories of danger(2013). For study of biology science, uses by botanists, physiologists, specialists in agriculture at the first time published the book «Elucidational terms on anatomy and morphology of plants» (2014). He has 204 total number of printed scientific publications: his 80 number of scientific publications printed in abroad.

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