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List of floristic composition of the dendroflora of the Vashlovani Protected Areas

GYMNOSPERMS

Cupressaceae

Juniperus excelsa M. Bieb. (*J. isophyllos* K. Koch) – Mediterranean–South-West Asian (East Mediterranean–South-West Asian)

Juniperus foetidissima Willd. – Mediterranean (East Mediterranean)

Juniperus communis var. *saxatilis* Pall. (*J. oblonga* M. Bieb.; *J. communis* subsp. *oblonga* (M. Bieb.) Galushko] – Holarctic

Juniperus oxycedrus L. (*J. rufescens* Link.) – Mediterranean

Juniperus polycarpos K. Koch [*Juniperus excelsa* subsp. *polycarpos* (K. Koch) Takht.] – South-West Asian

Ephedraceae

Ephedra distachya L. – Mediterranean–Eurasian steppe

Ephedra procera C.A. Mey. [*Ephedra major* subsp. *procera* (C.A. Mey.) Bornm.] – Mediterranean–South-West Asian (East Mediterranean–South-West Asian)

ANGIOSPERMS

DICOTS

***Amaranthaceae* (*Chenopodiaceae*)**

Halostachys caspica (M. Bieb.) C.A. Mey. [*Halostachys belangeriana* (Moq.) Botsch.] –

South-West Asian–Turanian–Central Asian (Irano–Turanian–Central Asian)

Kalidium caspicum (L.) Urg.-Sternb. – South-West Asian–Turanian (Irano–Turanian)

Suaeda dendroides (C.A. Mey.) Moq. – Caspian (with irradiation)

Suaeda microphylla Pall. – South-West Asian–Turanian–Central Asian (Irano–Turanian–Central Asian)

Anacardiaceae

Cotinus coggygria Scop. – Palearctic (South Palearctic)

Pistacia atlantica Desf. [*Pistacia mutica* Fisch. & C.A. Mey.; *Pistacia atlantica* subsp. *mutica* (Fisch. & C.A. Mey.) Rech. f.] – Mediterranean–South-West Asian

Rhus coriaria L. – Mediterranean–South-West Asian

Araliaceae

Hedera helix L. – European–Mediterranean

Hedera pastuchovii Woronow – Caucasian–Hyrcanian (East Caucasian–Hyrcanian)

***Apocynaceae* (*Asclepiadaceae*)**

Periploca graeca L. – Euxino–Hyrcanian (with East Mediterranean irradiation)

Berberidaceae

Berberis iberica (DC.) Sweet – Caucasian (endemic of Caucasus)

Berberis vulgaris L. – European–Mediterranean

Betulaceae

Alnus glutinosa subsp. ***barbata*** (C.A. Mey.) Yalt. (*Alnus barbata* C.A. Mey.) – Euxino–Hyrceanian (endemic of Caucasus)

Caprifoliaceae

Lonicera iberica M. Bieb. – Caucasian–South-West Asian

Celastraceae

Euonymus verrucosus Scop. – European–Caucasian

Cistaceae

Fumana arabica (L.) Spach – Mediterranean (with South-West Asian irradiation)

Fumana procumbens (Dunal) Gren. & Godr. – European–Mediterranean (Central European–Mediterranean with South-West Asian irradiation)

Cornaceae

Cornus mas L. – Submediterranean

Cornus sanguinea subsp. ***australis*** (C. A. Mey.) Jav. [*C. australis* C. A. Mey.; *Swida australis* (C.A. Mey.) Pojark. ex Grossh.; *S. koenigii* (C. K. Schneid.) Pojark. ex Grossh.] – European–Caucasian (conditionally)

***Corylaceae* (*Betulaceae*)**

Carpinus betulus L. (*Carpinus caucasica* Grossh.) – European–Caucasian

Carpinus orientalis Mill. – Submediterranean (East Submediterranean)

Elaeagnaceae

Elaeagnus angustifolia L. – Palearctic (South Palearctic)

Hippophae rhamnoides L. – European–Mediterranean–South-West Asian–Central Asian (with irradiations)

Fagaceae

Quercus petraea subsp. ***iberica*** (Steven ex M.Bieb.) Krassiln. (*Q. iberica* Steven ex M. Bieb.) – Caucasian–South-West Asian

Quercus robur subsp. ***pedunculiflora*** (K. Koch) Menitsky [*Quercus pedunculiflora* K. Koch] – Mediterranean (East Mediterranean)

Fabaceae

Amorpha fruticosa L. – North American

Astracantha caucasica (Pall.) Podlech (*Astragalus caucasica* Pall.) – Caucasian (endemic of Caucasus)

Astracantha microcephala (Willd.) Podlech (*Astragalus microcephalus* Willd.) –
Caucasian–South-West Asian (South Caucasian–South-West Asian)

Caragana grandiflora (M. Bieb.) DC. – Caucasian–South-West Asian (with irradiations)

Colutea cilicica Boiss. & Balansa – Mediterranean (East Mediterranean)

Colutea orientalis Mill. – Mediterranean (East Mediterranean; Caucasian–Crimean)

Eversmannia subspinosa (Fisch. ex DC.) B. Fedtsch. – South-West Asian–Turanian

Juglandaceae

Juglans regia L. – South-West Asian (conditionally)

Pterocarya fraxinifolia (Poir.) Spach [*Pterocarya pterocarpa* (Michx.) Kunth; *Juglans fraxinifolia* Poir.; *Juglans fraxinifolia* Lam.] – Euxino–Hyrcanian

Lorantaceae (*Santalaceae*, *Viscaceae*)

Arceuthobium oxycedri (DC.) M. Bieb. – Mediterranean–South-West Asian

Viscum album L. – Palearctic (conditionally)

Lythraceae

Punica granatum L. – South-West Asian

Moraceae

Ficus carica L. – South-West Asian

Morus alba L. – Central Asian (Central and North China)

***Nitrariaceae* (Zygophyllaceae)**

Nitraria schoberi L. – South-West Asian–Turanian–Central Asian (conditionally)

Oleaceae

Fraxinus excelsior subsp. ***coriariifolia*** (Scheele) A. E. Murray (*Fraxinus coriariifolia* Scheele) – Euxino–Hyrcanian

Fraxinus excelsior L. subsp. ***excelsior*** – European–Caucasian

Chrysojasminum fruticans (L.) Banfi (*Jasminum fruticans* L.) – European–Mediterranean–South-West Asian

Ligustrum vulgare L. – European–Mediterranean

Plumbaginaceae

Acantholimon fominii Kusn. – Caucasian (South Caucasian with South-West Asian irradiation)

Polygonaceae

Atraphaxis caucasica (Hoffm.) Pavlov – Caucasian–Middle Asian

Atraphaxis spinosa L. – South-West Asian–Turanian–Central Asian (South-West Asian–Turanian–Jungaro-Kashgarian)

Ranunculaceae

Clematis vitalba L. – European–Mediterranean

Rhamnaceae

Frangula alnus Mill. – Euro–Siberian

Paliurus spina-christi Mill. – Mediterranean–South-West Asian

Rhamnus cathartica L. – Palearctic

Rhamnus erythroxylodes subsp. ***erythroxylodes*** (*Rhamnus pallasii* Fisch. & C.A. Mey.) – Caucasian–South-West Asian (with irradiations)

Rhamnus spathulifolia Fisch. & C.A. Mey. – Caucasian (with North Iranian irradiation)

Rosaceae

Cotoneaster integerrimus Medic. – European–Mediterranean–South-West Asian–Central Asian–East Asian (conditionally; with disjunctive area)

Cotoneaster niger (Ehrh.) Fr. (*Cotoneaster melanocarpus* Fisch. ex A. Blytt.) – Euro–Siberian–Central Asian (conditionally)

Cotoneaster meyeri Pojark. – Caucasian (endemic of Caucasus)

Cotoneaster morulus Pojark. – Caucasian–South-West Asian

Crataegus caucasica K. Koch – Caucasian (endemic of Caucasus)

Crataegus kyrtostyla Fingerh. – European–Caucasian (conditionally)

Crataegus pentagyna Waldst. & Kit. ex Willd. – Euxino–Hyrcanian

Cydonia oblonga Mill. – Caucasian–South-West Asian

Mespilus germanica L. [(*Crataegus germanica* (L.) Kuntze)] – Euxino–Hyrcanian

Prunus cerasifera Ehrh. (*Prunus divaricata* Ledeb.) – Mediterranean–South-West Asian (East Mediterranean–South-West Asian) (with irradiations)

Prunus incana (Pall.) Batsch [*Cerasus incana* (Pall.) Spach] – Caucasian–South-West Asian

Prunus microcarpa C.A. Mey. [*Cerasus microcarpa* C.A. Mey. (Boiss.)] – South-West Asian

Prunus spinosa L. – European–Mediterranean

Pyracantha coccinea M. Roem. – Euxino–Hyrcanian (with irradiation)

Pyrus communis subsp. ***caucasica*** (Fed.) Browicz (*Pyrus caucasica* Fed.) – Caucasian

Pyrus georgica Kuth. – Caucasian (endemic of Caucasus)

Pyrus oxyprion Woronow – Caucasian–South-West Asian

Pyrus sachokiana Kuth. – Caucasian (endemic of Caucasus)

Pyrus salicifolia Pall. – Caucasian–South-West Asian

Rosa canina L. – European–Mediterranean–South-West Asian

Rosa corymbifera Borkh. – European–Mediterranean–South-West Asian

Rubus anatolicus Focke – Mediterranean–South-West Asian (East Mediterranean–South-West Asian)

Sorbus torminalis (L.) Crantz [*Torminalis glaberrima* (Gand.) Sennikov & Kurtto] – European–Mediterranean

Salicaceae

Populus canescens (Aiton) Sm. – European (with irradiations)

Populus euphratica Oliver – South-West Asian–Turanian–Central Asian (with Mediterranean irradiation)

Populus nigra L. – Palearctic (West Palearctic)

Salix alba L. – Palearctic (West Palearctic)

Salix caprea L. – Euro–Siberian

Salix wilhelmsiana M. Bieb. – Irano–Turanian–Central Asian (Jungaro-Kashgarian)

Sapindaceae

Acer campestre L. – European–Caucasian

Acer ibericum M. Bieb. [*Acer monspessulanum* subsp. *ibericum* (M. Bieb. ex. Willd.) Yalt.]

– Caucasian (endemic of Caucasus)

Solanaceae

Lycium ruthenicum Murray – South-West Asian–Turanian–Central Asian (Irano–Turanian–Central Asian)

Tamaricaceae

Tamarix ramosissima Ledeb. – South-West Asian–Turanian–Central Asian (Irano–Turanian–Central Asian)

Tamarix smyrnensis Bunge – Mediterranean–South-West Asian–Turanian (East Mediterranean–South-West Asian–Turanian)

Ulmaceae

Celtis caucasica Willd. [*C. australis* subsp. *caucasica* (Willd.) C.C.Towns.] – Caucasian–South-West Asian–Middle Asian

Celtis glabrata Steven ex Planch. (*C. planchoniana* K.L.Khr.) – Submediterranean (East Submediterranean)

Ulmus minor Mill. – European–Mediterranean

Vitaceae

Vitis vinifera L. [*V. sylvestris* C.C. Gmel.; *V. vinifera* subsp. *sylvestris* C.C. Gmel.) Hegi] –

Mediterranean–South-West Asian

MONOCOTS

Smilacaceae

Smilax excelsa – Euxino–Hyrcanian