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## A CONTRIBUTION TO THE FLORA OF TIJARICA IN SOUTHERN CROATIA

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The paper describes the floristics of Tjjarica in the karst zone of southern Croatia. The commonest plants belong to the families of *Asteraceae*, *Poaceae*, *Fabaceae*, *Rosaceae* and *Lamiaceae*. Twenty eight species and subspecies with the different degree of endemism have been registered. A list of 597 taxa occurring in the area is provided.

**Keywords:** flora, Tjjarica, Croatia.

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U radu se prikazuje flora Tjjarice koja se nalazi u krškom području južne Hrvatske. Najčešće su biljke iz porodica *Asteraceae*, *Poaceae*, *Fabaceae*, *Rosaceae* i *Lamiaceae*. Zabilježeno je 28 vrsta i podvrsta s različitim stupnjem endemizma. Popis obuhvaća 597 biljnih svojti do sada pronađenih na ovom području.

**Ključne riječi:** flora, Tjjarica, Hrvatska.

### INTRODUCTION

Tjjarica is a calcareous plain in the south-eastern part of Cetinska krajina (Cetina region), situated on the outermost southern hillsides of Mt. Kamešnica named Tovarnica. It lies circa 25 km as the crow flies from the Adriatic Sea at co-ordinates 43° 27' – 43° 33' N, 16° 48' – 16° 59' E, MTB unit 2367, UTM plot XJ 53. On the whole, it covers an area of about 50 km<sup>2</sup>, at altitudes between 600 and 950 m. Besides Tovarnica on the north, the conspicuous surrounding hills of the Tjjarica plateau are Orlovača (Gradina) on the east, Gorčina (Jaram, Ševardovo brdo) on the southeast, Ribnica and Pečun on the south, Kuki on the southwest and Jelinak on the west (Fig. 1).

The morphological features of these hills and plateau surface are formed of mesozoic limestones that are known as Karst (BOŽIČEVIĆ, 1992; GRUND, 1910; HERAK, 1991; MAGAŠ, 1980; MARINČIĆ *et al.*, 1977; MILOJEVIĆ, 1932; NOPCSA, 1921; REGNER, 1938; ROGLIĆ, 1958; 1965; SCHUBERT, 1909).

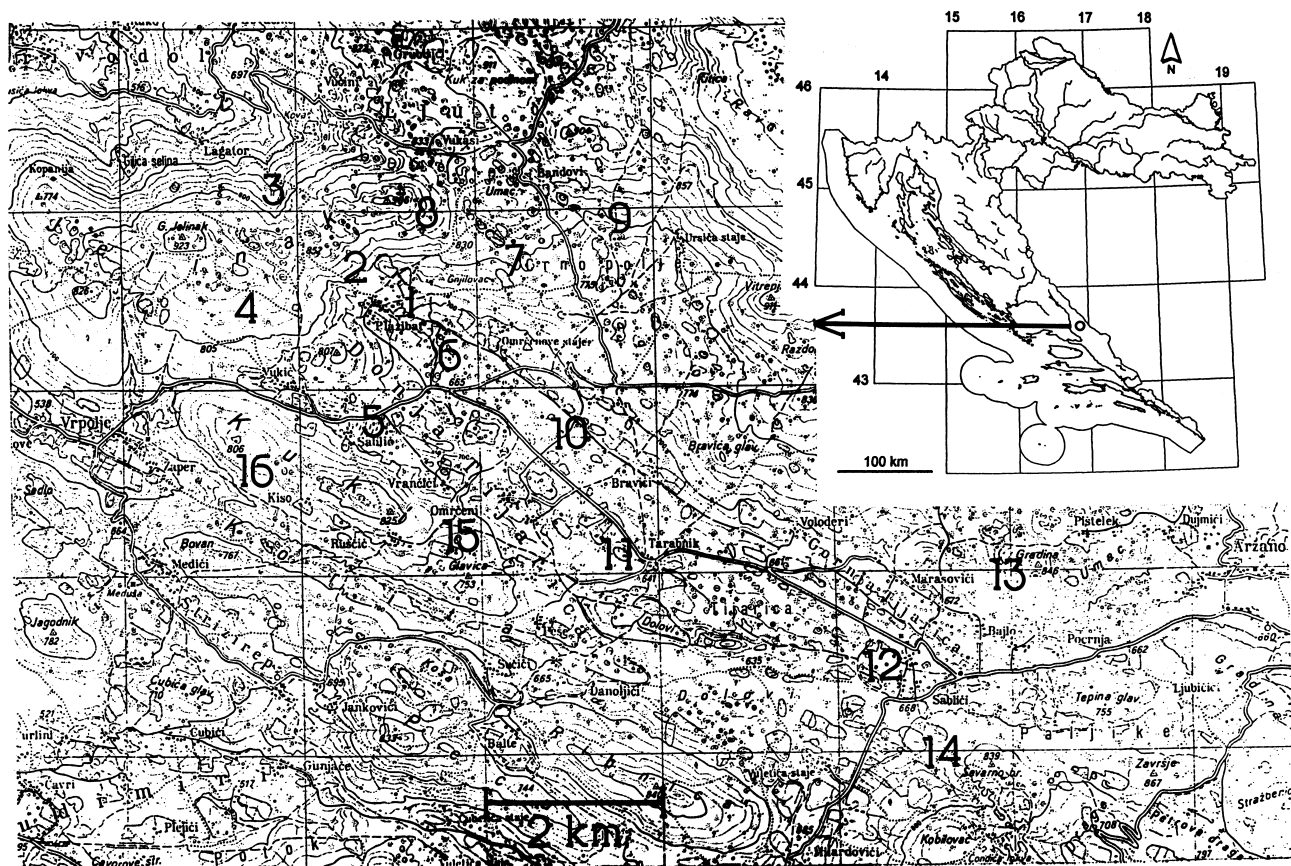


Fig. 1. Localities of species on Tjitarica, Croatia

1 – Plazibat, 2 – Pleća, 3 – Varadin, 4 – Jelinak, 5 – Čajer, 6 – Seline, 7 – Jasenovina, 8 – Torine, 9 – Crnopolje, 10 – Alanjska Kosa, 11 – Tarabnik, 12 – Gornja Tjitarica, 13 – Orlovača, 14 – Gorčina, 15 – Vrandolac, 16 – Kuki

The climate of Tijařica is greatly influenced by mountains and yet has a typical Mediterranean climate with a mild winter and warm dry summer with occasional rainfall and long dry period. Rains are frequent in autumn, winter and early spring. The volume of rainfall is variable so that in a few days of any season more rain may fall than in several months together. The plateau is without any running water so there are only a couple of small springs that do not run dry, like the one beside the hamlet of Vuko. In the strata of chalk there are heterogenous crevices and cavities through which the water disappears into the subterranean passages of the limestone formations (BAHUN & FRITZ, 1987; GAVAZZI, 1929; GOLUBIĆ, 1958; OPPITZ, 1936; PETRIK, 1976; ROGLIĆ, 1974; ŠEGOTA, 1988).

The characteristic north-eastern wind bora is more frequent in winter than in other seasons by reason of the temperature amplitudes between the Adriatic Sea and neighbouring Bosnian mountains. The south wind, the sirocco, is warm and wet, and accompanies the rain (MAKJANIĆ, 1967; MARAKOVIĆ, 1913; SEIDL, 1932; 1934; 1935).

Different types of soils, such as rugged naked karst, terra rossa, rendzina and anthropogenic soils can be found near every hamlet (ĆIRIĆ *et al.*, 1988; MARTINOVIĆ, 1997).

The vegetation shows degradation stages of forests of Pubescent Oak, Eastern Hornbeam and European Hophornbeam characterized by shrubs of *Quercus pubescens*, *Carpinus orientalis*, *Ostrya carpinifolia*, *Fraxinus ornus*, *Acer monspessulanum*, *A. campestre*, *Corylus avellana*, *Cotinus coggygria*, *Cotoneaster nebrodensis*, *Crataegus monogyna*, *Euonymus verrucosa*, *Prunus spinosa*, *Rosa canina* and *Ulmus minor* with some other deciduous woody plants and associated herbs.

The phytogeographical position of this area has often been the subject of scientific discussion in the frame of wider accounts of the whole of Dalmatia, the Dinaric Karst or wider (ADAMOVIĆ, 1912; 1913; BLONDEL & ARONSON, 1999; ĐIKIĆ, 1970; FUKAREK & JOVANOVIĆ, 1983; HORVAT *et al.*, 1974; HORVATIĆ 1928; 1957; 1964; KUŠAN, 1956; MEUSEL & JÄGER, 1989; POLDINI, 1988).

Floristic data on Tijařica region exist in only one phytosociological work (TRINAJSTIĆ & PAVLETIĆ, 1988) but there are more numerous data on the neighbouring mountains (BECK, 1897; JANCHEN, 1908; JANCHEN *et al.*, 1908; MAZZOLENI, 1845; MURBECK, 1891; PROTIĆ, 1900; 1908; VOLARIĆ-MRŠIĆ, 1972; 1976a; 1976b) which are more attractive than smaller hills, rock-shelters, dolines, naked karst and thickets, the flora of which is still incomplete.

## MATERIALS AND METHODS

Numerous field trips were taken by the author at intervals between May 1990 and August 2000 to collect the plants which were later dried, identified and deposited in the Herbarium Croaticum (ZA). The specimens were identified with the aid of DOMAC (1994), HAYEK (1927–1933), JAVORKA & CSAPODY (1975), PIGNATTI (1982) and TUTIN *et al.* (1964–1980, 1993).

The nomenclature followed here is that of TUTIN *et al.* (1964–1980; 1993) and GREUTER *et al.* (1984–1986). Abbreviations of authors' names are given in the plant list according BRUMMIT & POWELL (1992). Families, genera and species have been placed in alphabetical order and organised according to higher system units. The localities of the species are marked by numbers (Fig. 1), with T besides species reported from Tjajica as a whole by TRINAJSTIĆ & PAVLETIĆ (1988) and with cult. for cultivated plants.

## RESULTS

### Plant list

#### POLYPODIOPHYTA

##### POLYPODIOPSIDA

###### ASPLENIACEAE

- Asplenium ceterach* L. subsp. *bivalens* (D. E. Mey.) Greuter et Burdet; 1, 4
- A. ceterach* L. subsp. *ceterach*; 13
- A. ruta-muraria* L. subsp. *ruta-muraria*; 1, 3, 4, 13
- A. trichomanes* L. subsp. *trichomanes*; 3, 4, 12
- A. trichomanes* L. subsp. *pachyrachis* (H. Christ) Lovis et Reichst; 1

###### DRYOPTERIDACEAE

- Dryopteris villarii* (Bellardi) Woy. et Schinz; 4, 13

#### PINOPHYTA

##### PINOPSIDA

###### CUPRESSACEAE

- Juniperus communis* L. subsp. *communis*; 1, 8

###### PINACEAE

- Pinus nigra* J. F. Arnold subsp. *nigra*; cult., 11, 12, 14

#### MAGNOLIOPHYTA

##### MAGNOLIOPSIDA

###### ACANTACEAE

- Acanthus balcanicus* Heywood et I. Richardson; 1

###### ACERACEAE

- Acer campestre* L.; 1, 4, 13
- A. monspessulanum* L.; 9
- A. monspessulanum* L. f. *genuinum* Pax; 9

- A. monspessulanum* L. f. *illyricum* Tsch.; 1  
*A. obtusatum* Waldst. et Kit. ex Willd.; 9, 15, 16

## AMARANTHACEAE

- Amaranthus retroflexus* L.; 1, 15

## ANACARDIACEAE

- Cotinus coggygria* Scop.; 8, 9, 13

## APIACEAE

- Bunium alpinum* Waldst. et Kit. subsp. *montanum* (Koch) P. W. Ball; 1, 13, T  
*Bupleurum baldense* Turra subsp. *baldense*; 4  
*Bupleurum baldense* Turra subsp. *gussonei* (Arcang.) Tutin; 1, 4, 7, 9  
*Chaerophyllum aureum* L.; 13  
*C. bulbosum* L. subsp. *bulbosum*; 1  
*C. coloratum* L.; 1  
*Daucus carota* L. subsp. *carota*; 10  
*D. carota* L. subsp. *major* (Vis.) Arcang.; 4  
*D. carota* L. subsp. *sativus* (Hoffm.) Arcang.; cult.  
*Eryngium campestre* L.; 6, 7  
*E. amethystinum* L.; T  
*Ferulago campestris* (Besser) Grec.; 1  
*Huetia cynapioides* (Guss.) P. W. Ball; 3  
*Laserpitium siler* L. subsp. *siler*; 8  
*Myrrhoides nodosa* (L.) Cannon; 1, 15  
*Orlaya daucorlaya* Murb.; 13  
*O. grandiflora* (L.) Hoffm.; 12  
*Peucedanum cervaria* (L.) Lapeyr.; 1, 6, 7, 13  
*P. longifolium* Waldst. et Kit.; 14  
*P. oreoselinum* (L.) Moench; 3, 6, 15  
*Seseli libanotis* (L.) Koch subsp. *libanotis*; 6  
*S. montanum* L. subsp. *tommasinii* (Rchb. f.) Arcang.; 4, T  
*Smyrniium perfoliatum* L.; 4  
*Tordylium maximum* L.; 1  
*Torilis arvensis* (Huds.) Link subsp. *arvensis*; 1, 9, 10  
*T. japonica* (Houtt.) DC.; 1, 14  
*T. nodosa* (L.) Gaertn.; 1, 4

## ARALIACEAE

- Hedera helix* L. subsp. *helix*; 1, 13

## ASCLEPIADACEAE

- Vincetoxicum hirundinaria* Medik. subsp. *adriaticum* (Beck) Markgr.; 1, 4, 9, T

## ASTERACEAE

- Achillea millefolium* L. subsp. *millefolium*; 4  
*A. nobilis* L. subsp. *nobilis*; 13

- A. setacea* Waldst. et Kit.; 4, 7  
*A. virescens* (Fenzl) Heimerl; 1  
*Arctium nemorosum* Lej.; 12  
*Artemisia absinthium* L.; 1, 4  
*A. alba* Turra; 4  
*A. vulgaris* L.; 4  
*Bombycilaena erecta* (L.) Smoljan.; 1, 6, 16  
*Calendula officinalis* L.; cult.  
*Carduus candicans* Waldst. et Kit. subsp. *candicans*; 1  
*C. micropterus* (Borbás) Teyber subsp. *micropterus*; 1, 6  
*Carlina acaulis* L. subsp. *simplex* (Waldst. et Kit.) Nyman; 4  
*C. corymbosa* L. subsp. *graeca* (Boiss.) Nyman; 1  
*C. lanata* L.; 4  
*Centaurea bracteata* Scop.; 5  
*C. deusta* Ten. subsp. *concolor* (DC.) Hayek; 7  
*C. fritschii* Hayek; 9  
*C. haynaldii* Borbás ex Vuk. subsp. *haynaldii*; 1  
*C. jacea* L.; 10  
*C. rupestris* L. subsp. *rupestris*; 8, 9, T  
*C. spinosociliata* Seenus subsp. *cristata* (Bartl.) Dostál; 1, 4, 9  
*C. spinosociliata* Seenus subsp. *tommasinii* (A. Kern.) Dostál; T  
*C. triumfetti* All. subsp. *triumfetti*; 6  
*C. tuberosa* Vis.; 9  
*Chamomilla recutita* (L.) Rauschert; 16  
*Cichorium intybus* L.; 1, 4  
*Cirsium acaule* Scop. subsp. *acaule*; 4  
*C. vulgare* (Savi) Ten.; 4  
*Conyza canadensis* (L.) Cronquist; 4  
*Crepis chondrilloides* Jacq.; 4, 7, 9  
*C. foetida* L. subsp. *foetida*; 1  
*C. foetida* L. subsp. *rhoeadifolia* (M. Bieb.) Čelak.; 1, 14  
*C. neglecta* L. subsp. *neglecta*; 1, 4  
*Echinops ritro* L. subsp. *ruthenicus* (M. Bieb.) Nyman; 1  
*Erigeron acris* L. subsp. *acris*; 1, 4, 15  
*Filago pyramidata* L.; 1  
*Helichrysum italicum* (Roth) G. Don f. subsp. *italicum*; 1, 4  
*Hieracium caespitosum* Dumort subsp. *brevipilum* (Nägeli et Peter) P. D. Sell; 1  
*H. echioides* Lumn.; 4  
*H. glaucum* All.; 10  
*H. heterogynum* (Froel.) Gutermann; 13  
*H. hoppeanum* Schult. subsp. *pilisquamum* Nägeli et Peter; 10, 13  
*H. hoppeanum* Schult. subsp. *troicum* Zahn; 1, 4, 9  
*H. piloselloides* Vill. subsp. *piloselloides*; 6  
*H. praealtum* Vill. ex Gochnat subsp. *bauchinii* (Besser) Petunnikov; T  
*H. praealtum* Vill. ex Gochnat subsp. *thaumasium* (Peter) P. D. Sell; 13

- H. villosum* Jacq.; 2, 9, T  
*Inula ensifolia* L.; 4, 9, 10  
*I. germanica* L.; 1  
*I. spiraeifolia* L.; 1, 13  
*I. verbascifolia* (Willd.) Hausskn. subsp. *verbascifolia*; 4, 12  
*Lactuca sativa* L.; cult.  
*L. serriola* L.; 1  
*L. viminea* (L.) J. Presl et C. Presl subsp. *viminea*; 1, 4  
*Lapsana communis* L. subsp. *communis*; 1, 15  
*Leontodon crispus* Vill. subsp. *crispus*; 9, 13, T  
*L. hispidus* L. subsp. *hispidus*; 4  
*Leucanthemum atratum* (Jacq.) DC. subsp. *platylepis* (Borbás) Heywood; 1  
*L. praecox* Horvatić; 4  
*L. vulgare* Lam.; 1, 7, 15  
*Onopordum acanthium* L. subsp. *acanthium*; 9  
*O. illyricum* L.; 1  
*Picris hieracioides* L. subsp. *spinulosa* (Bertol. ex Guss.) Arcang.; 1, 4  
*Scorzonera austriaca* Willd. subsp. *austriaca*; 8  
*S. austriaca* Willd. subsp. *austriaca* f. *platyphylla* Beck; 7  
*S. austriaca* Willd. subsp. *bupleurifolia* (Pouzolz) Bonnier; 1, 13  
*S. villosa* Scop. subsp. *villosa*; 1, 6, 7, 9,  
*Senecio vulgaris* L.; 15  
*Serratula radiata* (Waldst. et Kit.) M. Bieb. subsp. *cetingensis* (Rohlena) Hayek; 1,  
 4, 7, 9, 13  
*Solidago canadensis* L.; 12  
*S. gigantea* Aiton; cult., 1  
*Tanacetum corymbosum* (L.) Sch. Bip. subsp. *corymbosum*; 4  
*Taraxacum hoppeanum* Griseb.; 1  
*T. officinale* Weber; 9  
*Tragopogon balcanicus* Velen.; 15  
*T. dubius* Scop.; 1  
*T. porrifolius* L. subsp. *porrifolius*; 1, 9  
*T. pratensis* L.; 4  
*Tussilago farfara* L.; 4

#### BORAGINACEAE

- Anchusa arvensis* (L.) M. Bieb. subsp. *arvensis*; 1  
*Buglossoides purpureocaerulea* (L.) I. M. Johnst.; 1, 9  
*Cynoglossum columnae* Ten.; 1  
*Echium vulgare* L.; 15  
*Myosotis arvensis* (L.) Hill subsp. *arvensis*; 1, 9, 15  
*Onosma stellulata* Waldst. et Kit.; 5, 15  
*O. visianii* Clementi; 14

#### BRASSICACEAE

- Aethionema saxatile* (L.) R. Br. subsp. *saxatile*; 1, 4, 6, 9, 10, 13, 14

- Alyssum alyssoides* (L.) L.; 1, 4, 5, 6, 10, 11, 12, 16  
*A. montanum* L. subsp. *montanum*; 1, 4, 5, 7, 8, 9, 10, 15, 16  
*A. simplex* Rudolphi; 1, 3, 4, 6, 9, 12  
*A. murale* Waldst. et Kit.; 4  
*Arabis hornungiana* Schur; 13  
*A. sagittata* (Bertol.) DC.; 1, 13  
*A. turrata* L.; 1, 14  
*Armoracia rusticana* P. Gaertn., B. Mey. et Scherb.; 15  
*Berteroa mutabilis* (Vent.) DC.; 1  
*Brassica oleracea* L. subsp. *acephala* (DC.) O. Schwarz; cult.  
*B. oleracea* L. subsp. *capitata* (L.) Duchesne; cult.  
*B. oleracea* L. subsp. *gemmifera* (DC.) O. Schwarz; cult.  
*Capsella bursa-pastoris* (L.) Medik.; 1, 12  
*Rorippa lippizensis* (Wulfen) Rchb.; 9  
*R. sylvestris* (L.) Besser; 1, 5  
*Sisymbrium officinale* (L.) Scop.; 1, 12, 15  
*Thlaspi perfoliatum* L. subsp. *perfoliatum*; 9  
*T. praecox* Wulfen subsp. *praecox*; 4

#### CAMPANULACEAE

- Campanula glomerata* L. subsp. *elliptica* (Kit. ex Schult.) O. Schwarz; 3, 7, 9, 13  
*C. glomerata* L. subsp. *glomerata*; 4, 13  
*C. latifolia* L.; 2  
*C. pyramidalis* L.; 6, 13  
*C. rapunculus* L.; 3, 7, 10  
*C. trachelium* L. subsp. *trachelium*; 1, 4, 7, 9  
*Edraianthus dalmaticus* (A. DC.) A. DC.; 4  
*E. tenuifolius* (Waldst. et Kit.) DC.; 4, 5, 12, 13, 15

#### CAPRIFOLIACEAE

- Lonicera caerulea* L. subsp. *caerulea*; 1  
*L. etrusca* Santi; 3, 4, 12, 13  
*L. xylosteum* L.; 1, 3, 12  
*Sambucus nigra* L.; 1

#### CARYOPHYLLACEAE

- Arenaria serpyllifolia* L. subsp. *leptoclados* (Rchb.) Nyman; 1  
*A. serpyllifolia* L. subsp. *serpyllifolia*; 1, 13  
*Cerastium brachypetalum* Pers. subsp. *brachypetalum*; 1  
*C. brachypetalum* Pers. subsp. *roeseri* (Boiss. et Heldr.) Nyman; 1  
*C. brachypetalum* Pers. subsp. *tauricum* (Spreng.) Murb.; 13  
*C. fontanum* Baumg. subsp. *vulgare* (Hartm.) Greuter et Burdet; 4  
*C. glomeratum* Thuill.; 4  
*C. grandiflorum* Waldst. et Kit.; 13  
*Dianthus ferrugineus* Mill. subsp. *liburnicus* (Bartl.) Tutin; 1  
*D. sylvestris* Wulfen subsp. *nodosus* (Tausch) Hayek; 9



- D. sylvestris* Wulfen subsp. *sylvestris*; 8, 9, 13  
*D. sylvestris* Wulfen subsp. *tergestinus* (Rchb.) Hayek; 13, T  
*Herniaria incana* Lam.; 1, 4  
*Lychnys flos-cuculi* L.; 15  
*Minuartia capillacea* (All.) Graebn.; 13  
*M. rubra* (Scop.) McNeill; 4, 10, 13  
*Paronychia kapela* (Hacq.) A. Kern. subsp. *kapela*; 1, 7, 9  
*Petrorhagia saxifraga* (L.) Link; 1, 6, 7, 9, 10, 13  
*Silene conica* L. subsp. *conica*; 13  
*S. dioica* (L.) Clairv.; 4, 10, 12  
*S. italica* (L.) Pers. subsp. *italica*; 4, 9  
*S. latifolia* Poir. subsp. *alba* (Mill.) Greuter et Burdet; 1, 9  
*S. vulgaris* (Moench) Garcke subsp. *vulgaris*; 1, 4, 7, 10

#### CELASTRACEAE

- Euonymus europaeus* L.; 1, 10  
*E. verrucosus* Scop.; 1, 2

#### CHENOPODIACEAE

- Beta vulgaris* L. subsp. *maritima* (L.) Arcang.; 1  
*B. vulgaris* L. subsp. *vulgaris*; cult., 4  
*Chaenopodium album* L.; 12  
*C. vulvaria* L.; 1, 16

#### CISTACEAE

- Cistus incanus* L. subsp. *incanus*; 1  
*Fumana procumbens* (Dunal) Gren. et Godr.; 1, 4, 13, 15, T  
*Helianthemum nummularium* (L.) Mill. subsp. *glabrum* (Koch) Wilczek; 1  
*H. nummularium* subsp. *obscurum* (Čelak.) J. Holub; 1, 7, T  
*H. oelandicum* (L.) DC. subsp. *italicum* (L.) Font Quer et Rothm.; T

#### CLUSIACEAE

- Hypericum perforatum* L.; 6, 7, 9, 10, 16

#### CONVOLVULACEAE

- Convolvulus arvensis* L.; 1, 4, 9, 12  
*C. cantabrica* L.; 4  
*Cuscuta epithimum* L.; 4, 7, 12, 15  
*C. monogyna* Vahl; 1

#### CORNACEAE

- Cornus mas* L.; 1, 2, 3  
*C. sanguinea* L.; 1, 4, 14

#### CORYLACEAE

- Carpinus orientalis* Mill.; 1-16  
*Corylus avellana* L.; 10, 15  
*Ostrya carpinifolia* Scop.; 4, 7, 8, 9, 13

## CRASSULACEAE

- Sedum acre* L.; 1, 9  
*S. ochroleucum* Chaix; 9, 13  
*S. sexangulare* L.; 3, 7, 9, T  
*Sempervivum tectorum* L.; 15, 16

## CUCURBITACEAE

- Cucumis sativus* L.; cult.  
*Cucurbita pepo* L.; cult.

## DIOSCOREACEAE

- Tamus communis* L.; 1, 15

## DIPSACACEAE

- Cephalaria leucantha* (L.) Roem. et Schult.; 13  
*Knautia arvensis* (L.) Coult.; 4, 7, 9, 13  
*K. purpurea* (Vill.) Borbás; T  
*Scabiosa triandra* L.; 15

## EUPHORBIACEAE

- Euphorbia cyparissias* L.; 4, 7  
*E. falcata* L.; 1, 15  
*E. fragifera* Jan; 9, 13  
*E. peplus* L.; 7  
*E. triflora* Schott, Nyman et Kotschy; 5, 15  
*Mercurialis ovata* Sterb. et Hoppe; 1, 15

## FABACEAE

- Anthyllis montana* L. subsp. *jacquinii* (A. Kern.) Hayek; 13  
*A. vulneraria* L. subsp. *weldeniana* (Rchb.) Cullen; 7, 9, 10, 12  
*Astragalus glycyphyllos* L.; 1, 4  
*Cicer arietinum* L.; cult.  
*Coronilla coronata* L.; 15  
*C. emerus* L. subsp. *emeroides* (Boiss. et Spruner) Hayek; 14  
*C. scorpioides* (L.) Koch; 4, 6  
*C. varia* L.; 1, 4, 7, 9  
*Cytisus procumbens* (Waldst. et Kit. ex Willd.) Spreng.; 9  
*Dorycnium pentaphyllum* Scop. subsp. *herbaceum* (Vill.) Rouy; 4, 7  
*Genista pulchella* Vis.; 5, 15  
*G. sylvestris* Scop. subsp. *dalmatica* (Bartl.) H. Lindb.; 1, T  
*G. sylvestris* Scop. subsp. *dalmatica* (Bartl.) H. Lindb. var. *dinarica* (Janch.) Hayek; 7, 10  
*Hippocrepis comosa* L.; 7  
*Lathyrus latifolius* L.; 1, 4, 12  
*L. montanus* Bernh. var. *tenuifolius* (Roth.) Garcke; 9  
*L. pannonicus* (Jacq.) Garcke subsp. *varius* (C. Koch) P. W. Ball; 6, 7  
*L. tuberosus* L.; 1, 13

- Lotus corniculatus* L. f. *hirsutus* Koch; 1, 4, 7, 9, 13, T  
*L. corniculatus* L. f. *vulgaris* Koch; 1  
*Medicago lupulina* L.; 1, 4  
*M. prostrata* Jacq.; 1, 10, 13, T  
*M. sativa* L. subsp. *falcata* (L.) Arcang.; 13  
*M. sativa* L. subsp. *sativa*; cult., 3, 13  
*Melilotus officinalis* (L.) Pall.; 1, 6, 9  
*Onobrychis arenaria* (Kit.) DC. subsp. *tommasinii* (Jord.) Asch. et Graebn.; 6  
*Ononis pusilla* L.; 4  
*O. spinosa* L. subsp. *antiquorum* (L.) Arcang.; 4, 12, 15  
*Phaseolus vulgaris* L.; cult.  
*Pisum sativum* L. subsp. *sativum*; cult.  
*Trifolium alpestre* L.; 1, 4, 6, 7, 13  
*T. angustifolium*; 1  
*T. arvense* L. subsp. *arvense*; 4, 9, 12, 13  
*T. arvense* L. subsp. *gracile* (Thuill.) Nyman; 7  
*T. campestre* Schreber; 3  
*T. dalmaticum* Vis.; 1, 10  
*T. diffusum* Ehrh.; 1  
*T. dubium* Sibth.; 1  
*T. incarnatum* L. subsp. *molinerii* (Balbis ex Hornem.) Syme; 1  
*T. medium* L. subsp. *medium*; 1  
*T. montanum* L.; 7  
*T. nigrescens* Viv. subsp. *nigrescens*; 1  
*T. ochroleucon* Huds.; 1, 2, 6, 7  
*T. pallidum* Waldst. et Kit.; 1, 4, 6  
*T. pannonicum* Jacq.; 6  
*T. scabrum* L.; 1  
*T. striatum* L.; 1, 13  
*Trigonella corniculata* (L.) L.; 1  
*Vicia cracca* L.; 1, 6, 13  
*V. incana* Gouan; 13  
*V. sativa* L. subsp. *cordata* (Wulfen ex Hoppe) Asch. et Graebn.; 9, 13  
*V. tetrasperma* (L.) Schreb.; 13

#### FAGACEAE

- Fagus sylvatica* L.; 14  
*Quercus cerris* L.; 16  
*Q. cerris* L. f. *pseudocerris* Boiss.; 16  
*Q. pubescens* Willd. subsp. *pubescens*; 1–16

#### GENTIANACEAE

- Centaurium erythraea* Rafn subsp. *erythraea*; 4, 8, 9  
*C. erythraea* Rafn subsp. *rhodense* (Boiss. et Reut.) Melderis; 9  
*C. tenuiflorum* (Hoffmans. et Link) Fritsch subsp. *tenuiflorum*; 13, 15  
*Gentiana utriculosa* L.; 7

## GERANIACEAE

- Geranium columbinum* L.; 1, 4, 6, 7  
*G. lucidum* L.; 1, 14  
*G. molle* L.; 4, 15  
*G. robertianum* L.; 1  
*G. sanguineum* L.; 2, 7

## GLOBULARIACEAE

- Globularia cordifolia* L.; 10, T  
*G. meridionalis* (Podp.) O. Schwarz; 9, 13

## JUGLANDACEAE

- Juglans regia* L.; cult.

## LAMIACEAE

- Acinos arvensis* (Lam.) Dandy; 1, 4, 6, 7  
*Ajuga genevensis* L.; 1, 9, 15  
*Ballota nigra* L. subsp. *foetida* Hayek; 1  
*Calamintha grandiflora* (L.) Moench; 1  
*Clinopodium vulgare* L. subsp. *vulgare*; 4, 7  
*Galeopsis pubescens* Besser; 15  
*Lamium album* L.; 12  
*Leonurus cardiaca* L.; 1, 12  
*Melissa officinalis* L. subsp. *officinalis*; 1, 15  
*Mentha longifolia* (L.) Huds.; 4, 12  
*Nepeta cataria* L.; 12  
*N. nuda* L. subsp. *nuda*; 7  
*Ocimum basilicum* L.; cult.  
*Origanum vulgare* L.; 1, 7, 12  
*Prunella laciniata* (L.) L.; 7, 9  
*P. vulgaris* L.; 4, 7  
*Salvia officinalis* L.; 10  
*S. pratensis* L.; 1, 3  
*S. verticillata* L.; 1  
*Satureja montana* L. subsp. *montana*; 1–16  
*S. montana* L. subsp. *illyrica* Nyman; 4, 7, 13  
*Stachys officinalis* (L.) Trevisan subsp. *officinalis*; 9, 13, 14, T  
*S. recta* L. subsp. *subcrenata* (Vis.) Briq.; 1, 8  
*S. recta* L. subsp. *subcrenata* (Vis.) Briq. var. *hyssoipifolia* Ten.; 4  
*Teucrium arduini* L.; 13, 14  
*T. chamaedrys* L.; 1, 3, 4  
*T. chamaedrys* L. var. *glanduliferum* Haussk.; 13  
*T. chamaedrys* L. f. *illyricum* Borbás et Bornm.; 7  
*T. montanum* L.; 9, T  
*T. montanum* L. var. *parnassicum* Čelak. f. *lineare* Hal.; 7, 13  
*T. polium* L. subsp. *capitatum* (L.) Arcang.; 12

- Thymus bracteosus* Vis. ex Benth.; 1, 4, 7, 9  
*T. longicaulis* C. Presl; 1, 4, 6, 9, T  
*T. praecox* Opiz subsp. *polytrichus* (A. Kern. ex Borbás) Jalas; 1

## LINACEAE

- Linum austriacum* L. subsp. *austriacum*; 7, 9, 13  
*L. bienne* Mill.; 9  
*L. catharticum* L.; T  
*L. tenuifolium* L.; 6, 7, 9, 13

## LORANTHACEAE

- Loranthus europaeus* Jacq.; 15

## LYTHRACEAE

- Lythrum salicaria* L.; 12

## MALVACEAE

- Malva silvestris* L.; 1, 4

## MORACEAE

- Broussonetia papyrifera* (L.) Vent.; cult.  
*Ficus carica* L.; cult.  
*Morus alba* L.; cult.  
*M. nigra* L.; cult

## OLEACEAE

- Fraxinus ornus* L.; 1–16  
*Syringa vulgaris* L.; cult.

## OROBANCHACEAE

- Orobanche alba* Stephan ex Willd.; 15  
*O. caryophyllea* Sm.; 4, 9, 13  
*O. elatior* Sutton; 13  
*O. lutea* Baumg.; 12, 13  
*O. minor* Sm.; 6  
*O. ramosa* L. subsp. *mutelii* (F. W. Schultz) Coutinho; 1

## PAEONIACEAE

- Paeonia mascula* (L.) Mill.; 3

## PAPAVERACEAE

- Fumaria officinalis* L. subsp. *wirtgenii* (Koch) Arcang.; 1  
*Papaver rhoeas* L.; 1, 12  
*Pseudofumaria alba* (Mill.) Lidén; 16

## PLANTAGINACEAE

- Plantago altissima* L.; 4, 7  
*P. argentea* Chaix; 1, 7, 9

*P. holosteum* Scop.; 1, 6, 7, 9, 10, 13, T

*P. lanceolata* L.; 6

*P. media* L.; 1, 4, 6, 7, 10

#### POLYGALACEAE

*Polygala nicaeensis* Risso ex Koch subsp. *mediterranea* Chodat; 9

#### POLYGONACEAE

*Fallopia dumetorum* (L.) Holub; 1

*Polygonum patulum* M. Bieb.; 1

*Rumex acetosella* L. subsp. *acetosella*; 12

*R. acetosella* L. subsp. *acetosella* var. *tenuifolius* Wallr.; 12

*R. crispus* L. subsp. *crispus*; 1, 4

*R. pulcher* L. subsp. *pulcher*; 1, 4

*R. pulcher* L. subsp. *woodsii* (De Not.) Arcang.; 1

*R. sanguineus* L.; 4

#### PORTULACACEAE

*Portulaca oleracea* L. subsp. *oleracea*; 15

#### PRIMULACEAE

*Anagallis foemina* Mill.; 4

*Primula veris* L. subsp. *columnae* (Ten.) Lüdi; 2, 4, 6, 9

#### RANUNCULACEAE

*Aconitum anthora* L.; 2

*Clematis vitalba* L.; 15

*Consolida regalis* Gray subsp. *regalis*; 1, 6, 10, 12

*C. regalis* Gray subsp. *paniculata* (Host) Soó

*Ranunculus bulbosus* L. subsp. *bulbosus*; 2, 4

*R. millefoliatus* Vahl; 9

*R. neapolitanus* Ten.; 1

*Thalictrum aquilegiifolium* L.; 1, 5, 6

*T. minus* L. subsp. *minus*; 1, 4, 7

*T. minus* L. subsp. *olympicum* (Boiss. et Heldr.) Strid; 2, 4, 6, 9, 13, 14

#### RESEDACEAE

*Reseda lutea* L.; 1, 12, 15

#### RHAMNACEAE

*Frangula rupestris* (Scop.) Schur; 1, 5, 6, 13

*F. rupestris* (Scop.) Schur var. *cinerascens* Murb. f. *semiglabra* Beck; 7

*Rhamnus intermedius* Steud. et Hochst.; 13

#### ROSACEAE

*Agrimonia eupatoria* L. subsp. *eupatoria*; 4, 7, 9

*Cotoneaster integerrimus* Medik.; 1

*C. nebrodensis* (Guss.) Koch; 4, 13

- Crataegus laevigata* (Poir.) DC. subsp. *laevigata*; 13  
*C. monogyna* Jacq. subsp. *monogyna*; 1, 6, 7, 10, 13  
*Filipendula vulgaris* Moench; 7, 9,T  
*Fragaria moschata* Duchesne; 6, 9  
*F. vesca* L.; 4  
*F. viridis* Duchesne subsp. *viridis*; 2  
*Geum urbanum* L.; 1, 4  
*Malus domestica* Borkh.; cult.  
*M. sylvestris* Mill.; 15  
*Potentilla argentea* L.; 1, 12  
*P. australis* Krašan; 4, 6, 9, T  
*P. cinerea* Chaix ex Vill.; 1  
*P. recta* L.; 1, 6, 15  
*P. recta* L. var. *leucotricha* Borbás; 1, 7  
*P. reptans* L.; 12  
*Prunus avium* L.; cult.  
*P. cerasus* L.; cult.  
*P. domestica* L. subsp. *domestica*; cult.  
*P. domestica* L. subsp. *instititia* (L.) C. K. Schneid.; cult.  
*P. dulcis* (Mill.) D. A. Webb; cult.  
*P. mahaleb* L.; 1, 9  
*P. spinosa* L.; 1, 10  
*Pyrus communis* L.; cult.  
*P. pyrastrer* Burgsd.; 13  
*Rosa canina* L.; 4, 9, 10  
*R. subcanina* (Christ) Dalla Torre et Sarnth.; 13  
*Rubus fruticosus* L.; 1, 4  
*R. heteromorphus* Ripart. ex Genev.; 1  
*R. ulmifolius* Schott; 1  
*Sanguisorba minor* Scop. subsp. *muricata* Briq.; 1, T  
*Sorbus aria* (L.) Crantz subsp. *aria*; 1, 12  
*Spiraea media* Franz Schmidt; 13

## RUBIACEAE

- Asperula aristata* L. f. subsp. *condensata* (Heldr. ex Boiss.) Ehrend. et Krendl; 10, 15  
*A. aristata* L. f. subsp. *scabra* (J. Presl et C. Presl) Nyman; 1, 7, 9, 13, T  
*Cruciata glabra* (L.) Ehrend.; 2  
*C. laevipes* Opiz; 1, 6, 7  
*Galium aparine*; 1  
*G. corrudifolium* Vill.; 1  
*G. lucidum* All.; 1, 7, 9, 13  
*G. mollugo* L.; 12  
*G. verrucosum* Huds.; 12  
*G. verum* L. subsp. *verum*; 4, 12  
*Rubia tinctorum* L.; 15  
*Sherardia arvensis* L.; 1, 16

## RUTACEAE

- Dictamnus albus* L.; 15  
*Haplophyllum patavinum* (L.) G. Don f.; 4, 13

## SALICACEAE

- Populus nigra* L. subsp. *nigra* cv. »*Italica*«; cult.

## SANTALACEAE

- Thesium bavarum* Schrank; 2  
*T. divaricatum* Jan ex Mert. et Koch; 1, 2, 4, 9, 10, 13, T  
*T. humile* Vahl; 7  
*T. linophyllum* L.; 6

## SAXIFRAGACEAE

- Saxifraga tridactylites* L.; 7

## SCROPHULARIACEAE

- Chaenorhinum minus* (L.) Lange subsp. *litorale* (Willd.) Hayek; 4  
*Euphrasia illyrica* Wettst.; 4, 13  
*E. liburnica* Wettst.; 10, 13  
*E. salisburgensis* Funck; 7  
*Gratiola officinalis* L.; 15  
*Linaria vulgaris* Mill.; 1, 15  
*Melampyrum arvense* L.; 3, 9  
*M. fimbriatum* Vandas; 6, 9  
*Misopates orontium* (L.) Raf.; 12  
*Odontites lutea* (L.) Clairv.; 7  
*Rhinanthus freynii* (A. Kern. ex Sterneck) Fiori; 4  
*R. minor* L.; 1, 9  
*Scrophularia canina* L. subsp. *canina*; 4, 6, 9  
*S. heterophylla* Willd. subsp. *laciniata* (Waldst. et Kit.) Maire et Petitm.; 12, 14  
*Verbascum chaixii* Vill. subsp. *austriacum* (Schott ex Roem. et Schult.) Hayek; 1, 9  
*V. lychnitis* L.; 9  
*V. phlomoides* L.; 4  
*V. pulverulentum* Vill.; 1  
*Veronica arvensis* L.; 1, 2  
*V. austriaca* L. subsp. *austriaca*; 7, 9, 10  
*V. austriaca* L. subsp. *jacquinii* (Baumg.) K. Maly; 13, 15  
*V. chamaedrys* L. subsp. *chamaedrys*; 4, 7  
*V. officinalis* L.; 4  
*V. persica* Poir.; 4  
*V. praecox* All.; 13  
*V. spicata* L. subsp. *barrelieri* (Schott ex Roem. et Schult.) Murb.; 4  
*V. spicata* L. subsp. *spicata*; 7, 9, T

## SIMAROUBACEAE

- Ailanthus altissima* (Mill.) Swingle; 1



**SOLANACEAE**

- Datura stramonium* L.; 12  
*Lycopersicon esculentum* Mill.; cult.  
*Solanum nigrum* L. subsp. *schultesii* (Opiz) Wessely; 1, 16  
*S. tuberosum* L.; cult.

**ULMACEAE**

- Ulmus minor* Mill.; 1, 9

**URTICACEAE**

- Urtica dioica* L.; 1, 4, 9

**VALERIANACEAE**

- Valeriana tuberosa* L.; 9  
*Valerianella locusta* (L.) Laterrade; 9

**VERBENACEAE**

- Verbena officinalis* L.; 1, 4, 15

**VIOLACEAE**

- Viola adriatica* Freyn; 1  
*V. alba* Besser subsp. *denhardtii* (Ten.) W. Becker; 4  
*V. hirta* L.; 9

**VITACEAE**

- Vitis vinifera* L. subsp. *sylvestris* (C. C. Gmel.) Hegi; 4  
*V. vinifera* L. subsp. *vinifera*; cult.

**LILIOPSIDA****ALISMATACEAE**

- Alisma lanceolatum* With.; 15  
*A. plantago-aquatica* L.; 12

**CYPERACEAE**

- Carex distans* L.; 4  
*C. divulsa* Stokes subsp. *leersii* (Kneuck.) W. Koch; 12  
*C. echinata* Murray; 4, 7  
*C. humilis* Leyss.; 13, T  
*C. liparocarpos* Gaudin subsp. *liparocarpos*; 1  
*C. spicata* Huds.; 1, 10  
*C. supina* Willd. ex Wahlenb.; 4  
*C. tomentosa* L.; 4, 7  
*Eleocharis palustris* (L.) Roem. et Schult. subsp. *palustris*; 12, 15  
*Schoenus nigricans* L.; 3, 4

**IRIDACEAE**

- Gladiolus communis* L. subsp. *communis*; 1, 7, 9

*G. illyricus* W. D. J. Koch; 1, 8, 9, 10

*Iris illyrica* Tomm.; 8

*I. pallida* Lam. subsp. *pallida*; 9

## JUNCACEAE

*Juncus articulatus* L.; 3, 4

*Luzula campestris* (L.) DC.; 1, 6, 9

## LILIACEAE

*Allium ascalonicum* L.; cult.

*A. carinatum* L.; 1

*A. cepa* L.; cult.

*A. cirrhosum* Vand.; 1, 3, 4

*A. flavum* L. subsp. *flavum*; 1, 2, 4, 13, T

*A. guttatum* Steven subsp. *dalmaticum* (A. Kern. ex Janch.) Stearn; 7, 9, 10, 13

*A. pallens* L. subsp. *pallens*; 9

*A. sativum* L.; cult.

*A. senescens* L. subsp. *montanum* (Fr.) Holub; 4

*A. sphaerocephalon* L. subsp. *sphaerocephalon*; 13, 15, T

*A. vineale* L.; 9

*Anthericum liliago* L.; 13

*A. ramosum* L.; 8, 9

*Colchicum autumnale* L.; 1, 7

*Fritillaria orientalis* Adams; 4, 6, 7, 9, 13

*Lilium carniolicum* Bernh. ex W. D. J. Koch; 1, 2, 13

*L. carniolicum* Bernh. ex W. D. J. Koch var. *jankaе* (A. Kern.) Beck; 7

*L. martagon* L.; 2, 4, 15

*Muscari botryoides* (L.) Mill.; 13

*M. comosum* (L.) Mill.; 1, 9, 13

*M. neglectum* Guss. ex Ten.; 2, 9

*Ornithogalum collinum* Guss.; 7

*O. comosum* L.; 1, 7

*O. orthophyllum* Ten. subsp. *kochii* (Parl.) Zahar.; T

## ORCHIDACEAE

*Anacamptis pyramidalis* (L.) Rich.; 7

*Cephalanthera damasonium* (Mill.) Druce; 13

*Gymnadenia conopsea* (L.) R. Br.; 14, 16

*Limodorum abortivum* (L.) Schwarz; 1, 4

*Orchis morio* L. subsp. *morio*; 8, 10

## POACEAE

*Agrostis capillaris* L.; 14

*A. castellana* Boiss. et Reut.; 4, 10, 13

*A. stolonifera* L.; 1, 4, 6, 7, 9, 10, 13, 15

*Aira elegantissima* Schur; 1, 12, 13, 15

*Anthoxanthum odoratum* L.; 1, 12, 13, 15

- Arrhenatherum elatius* (L.) P. Beauv. ex J. Presl et C. Presl subsp. *elatius*; 1, 12  
*Avena fatua* L.; 4, 13  
*A. sativa* L. subsp. *sativa*; cult.  
*Avenula pubescens* (Huds.) Dumort.; 1  
*Brachypodium pinnatum* (L.) P. Beauv. subsp. *pinnatum*; 4, 13  
*B. sylvaticum* (Huds.) P. Beauv. subsp. *sylvaticum*; 4  
*Bromus arvensis* L.; 1  
*B. erectus* Huds. subsp. *erectus*; 1, 4, 6, 13, T  
*B. hordeaceus* L. subsp. *hordeaceus*; 12  
*B. inermis* Leyss.; 1  
*B. japonicus* Thunb. subsp. *japonicus*; 4  
*B. squarrosus* L.; 1  
*B. sterilis* L.; 1, 15  
*Chrysopogon gryllus* (L.) Trin.; 4  
*Cynodon dactylon* (L.) Pers.; 4, 12  
*Dactylis glomerata* L. subsp. *glomerata*; 1, 6, 7, 9  
*D. glomerata* L. subsp. *glomerata* f. *aspera* Podp.; 1  
*Danthonia alpina* Vest; 9, 10  
*Desmazeria rigida* (L.) Tutin; 1, 16  
*Dichanthium ischaemum* (L.) Roberty; 1, 4  
*Echinochloa crus-galli* (L.) P. Beauv.; 4  
*Elymus repens* (L.) Gould; 1, 13, 15  
*Festuca dalmatica* (Hack.) K. Richt.; 6  
*F. heterophylla* Lam.; 1  
*F. nigrescens* Lam. subsp. *nigrescens*; 13  
*F. pseudovina* Hack. ex Wiesb.; 3, 4  
*F. rupicola* Heuff. subsp. *rupicola*; 3, 4, 14  
*F. valesiaca* Schleich. ex Gaudin; 1, 6, 9, 10, T  
*Helictotrichon convolutum* (C. Presl) Henrard subsp. *convolutum*; 15  
*Hordeum distichon* L.; cult.  
*H. murinum* L. subsp. *murinum*; 1, 16  
*H. vulgare* L.; cult.  
*Koeleria macrantha* (Ledeb.) Schult.; 13  
*K. pyramidata* (Lam.) P. Beauv.; 4, 7, 9, 13  
*K. splendens* C. Presl; 1, 9, 13, T  
*K. splendens* C. Presl var. *canescens* (Vis.) Beck; 9  
*K. splendens* C. Presl f. *pyramidata* Domin; 10  
*Lolium perenne* L.; 4, 9  
*L. rigidum* Gaudin subsp. *rigidum*; 6, 16  
*Melica ciliata* L. subsp. *ciliata*; 1, 4  
*Molinia caerulea* (L.) Moench subsp. *caerulea*; 15  
*Phleum pratense* L. subsp. *pratense*; 1, 4, 6, 7  
*Poa angustifolia* L.; 4  
*P. bulbosa* L.; 4  
*P. pratensis* L.; 1, 7, 10

- Psilurus incurvus* (Gouan) Schinz et Thell.; 1  
*Secale cereale* L.; cult., 12  
*Sesleria autumnalis* (Scop.) F. W. Schultz; 13  
*S. tenuifolia* Schrad. subsp. *tenuifolia*; 4, 13  
*Setaria viridis* (L.) P. Beauv.; 4  
*Stipa joannis* Čelak. subsp. *joannis*; 7, 13  
*S. pennata* L. subsp. *ericaulis* (Borbás) Martinovský et Skalický; 9  
*Triticum aestivum* L.; cult.  
*Vulpia myuros* (L.) C. C. Gmel.; 4  
*Zea mays* L.; cult.

## DISCUSSION

The important and prevalent tree and shrub flora which gives the area its general characteristics comprises *Quercus pubescens*, *Carpinus orientalis*, *Ostrya carpinifolia*, and *Fraxinus ornus*. The commonest and most successful plants belong to *Asteraceae*, *Poaceae*, *Fabaceae*, *Lamiaceae*, *Rosaceae*, *Scrophulariaceae*, *Apiaceae*, *Liliaceae*, *Caryophyllaceae* and *Brassicaceae*. Approximately one half of taxa of the indigenous flora appertain to five families: *Asteraceae*, *Poaceae*, *Fabaceae*, *Rosaceae* and *Lamiaceae*. Ferns, conifers and monocotyledons, leaving aside the *Poaceae* and *Liliaceae*, are poorly represented. The endemic and subendemic flora, among which the Illyrian floral element prevails, comprises the following taxa: *Achillea virescens*, *Anthyllis vulneraria* subsp. *weldeniana*, *Arabis hornungiana*, *Centaurea haynaldii* subsp. *haynaldii*, *C. spinoso-ciliata* subsp. *cristata*, *C. tuberosa*, *Chaerophyllum coloratum*, *Dianthus ferrugineus* subsp. *liburnicus*, *D. sylvestris* subsp. *nodosus*, *D. sylvestris* subsp. *tergestinus*, *Edraianthus dalmaticus*, *E. tenuifolius*, *Euphrasia illyrica*, *Genista sylvestris* subsp. *dalmatica*, *Iris illyrica*, *Leucanthemum atratum* subsp. *platylepis*, *Melampyrum fimbriatum*, *Onobrychis arenaria* subsp. *tommasinii*, *Onosma stellulata*, *Rhamnus intermedius*, *Rhinanthus freynii*, *Rorippa lippizensis*, *Serratula radiata* subsp. *cetingensis*, *Teucrium arduini*, *Thymus bracteosus*, *Trifolium dalmaticum*, *Vincetoxicum hirundinaria* subsp. *adriaticum* and *Viola adriatica*. The occurrence on Tjarica of several taxa which are thermophilous and rare in the mountain regions is also significant. These latter taxa include: *Cistus incanus* subsp. *incanus*, *Helichrysum italicum* subsp. *italicum*, *Inula verbascifolia* subsp. *verbascifolia*, *Salvia officinalis*, *Teucrium polium* subsp. *capitatum*, *Trifolium angustifolium*, *T. nigrescens* subsp. *nigrescens* and *T. scabrum*.

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## SAŽETAK

### Prilog flori Tijarice u južnoj Hrvatskoj

M. Plazibat

Tijarica se nalazi na krajnjem jugozapadnom dijelu planinskog lanca Dinare koji se ovdje završava s Kamešnicom, točnije s njenim još manjim segmentom zvanim Tovarnica. Krajolik ima izgled krške zaravni okružene brdima s površinom od oko 50 km<sup>2</sup> koja je obrasla, u velikoj mjeri, antropogeno utjecanom šumskom vegetacijom u kojoj prevladavaju hrast medunac, bijeli grab, crni grab i crni jasen. Flora ovog područja bila je gotovo potpuno neistražena osim što je određeni broj vrsta (38) naveden u jednoj fitocenološkoj snimci u radu koji se odnosi na pašnjake as. *Carici-Centaureetum rupestris* Ht. 1931 graničnih dijelova Hrvatske i Bosne (TRINAJSTIĆ & PAVLETIĆ, 1988). Dosadašnjim istraživanjima koja su se uglavnom odvijala u ljetnom razdoblju zabilježeno je 597 biljnih svojti koje su najbrojnije u porodicama *Asteraceae* (81), *Poaceae* (60), *Fabaceae* (53), *Rosaceae* (35) i *Lamiaceae* (33). Velikoj raznolikosti i bogatstvu flore ovog relativno malog područja pridonosi i 28 vrsta i podvrsta s različitim stupnjem endemizma te zastupljenost termofilnih, pretežno primorskih biljaka kao što su bušin (*Cistus incanus* subsp. *incanus*), smilje (*Helichrysum italicum* subsp. *italicum*), bilušina (*Inula verbascifolia* subsp. *verbascifolia*), ljekovita kadulja (*Salvia officinalis*), pustenasti dubačac (*Teucrium polium* subsp. *capitatum*), uskolisna, crnkasta i hrapava djetelina (*Trifolium angustifolium*, *T. nigrescens* subsp. *nigrescens*, *T. scabrum*).