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GEOBOTANICAL RESEARCH ON MOUNT PISANO
(TUSCANY, ITALY), VIII.
A PRELIMINARY CHECKLIST OF THE VASCULAR FLORA.

Riassunto — *Studi geobotanici sul Monte Pisano (Toscana, Italia), VIII. Lista preliminare della flora vascolare.* — Viene presentato un elenco delle piante vascolari appartenenti alla Flora del M. Pisano. Tale elenco è basato su ampie indagini di campagna e sulla catalogazione e revisione di tutti i dati bibliografici disponibili. Attualmente la flora del Monte Pisano è costituita da 874 entità accertate. Altre 340 riportate in passato dai vari autori, non sono state per ora ritrovate. 42 taxa erroneamente indicati, sono definitivamente da escludersi per la zona.

Abstract — An inventory of the vascular flora of Mount Pisano based on published information and on extensive recent field work is given. Data from widely scattered and mostly very old sources have been brought together, and mostly verified in the field by the Authors. At present the Mount Pisano flora results to be represented by 874 entities. Other 340 specific or infraspecific taxa were previously listed for Mount Pisano in past years but not collected or verified by the present Authors in recent times. 42 taxa wrongly mentioned or misinterpreted have to be definitively rejected for the area. Further investigations are in progress.

Key words — Mount Pisano (Tuscany) - Flora.

INTRODUCTION

Mount Pisano arises lonely between Serchio and Arno valleys, separating the plain of Lucca from that of Pisa; although it appears like a hill system — the top does not attain 1000 m — it shares the characters of a mountain massif.

M. Pisano extends for 15.000 ha ca. (BENVENUTI, 1975) and is limited of North-West by part of the lower course of the Serchio river, on

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West and South-West by the alluvial plain of the lower Arno (formerly the Asciano marsh): on North and North-East by the plains originated by land reclamations of Bientina lake and Massa Macinaia marsh.

The main ridge is NW-SE oriented and its summit demarcates the border between Lucca and Pisa provinces. Along this main ridge the highest tops are disposed, i.e. Spuntone di S. Allago (m 870), M. Faeta (m. 820), M. Verruchino (m 766). Other lower heights are either in Pisa (M. Cascetto, M. Cimone, M. Verruca, M. Maggiore) or in Lucca territories (M. Moriglion di Penna, M. Romagna, M. Cupola, M. del Carrara, M. Zano, M. S. Giuliano, M. Cotrozzi).

The only table-lands i.e. those of S. Allago and Pianbello don't reach relevant altitude.

Large valleys engrave the orographic structure on both slopes: the largest are those of Guappero brook (catchment basin 16,40 Km²), of Vorno brook (10,63 Km²), of Visona di Compito brook (10,18 Km²) on the Lucca slopes; and those of Calci brook (16,40 Km²) and of Magno brook (11,00 Km²) on the Pisa side (BENVENUTI, 1975).

The Guappero valley is very important because it is placed at lower altitude than others and deeply penetrates into the massif, where the ridge does not reach 200 m of altitude. Thus it separates, on its left, an orographic complex, mainly composed by calcareous rocks, from another one, on its right, very extended and mostly constituted by siliceous soils (Verrucano). Moreover, the Guappero valley is characterized, interestingly enough, by a progressive increase of its area descending by height, thus neatly differing from other valleys that are not so wide and roughly flow into the plain.

All the above cited surface-waters are collected by a net of channels, that link to Serchio and Arno rivers and provides to drain the reclaimed lands in the surrounding plains.

An account of climate

In order to give some information on the climate climograms were done using data collected in the period 1978-1982 in the meteorological stations of Lucca (m 19,2 a.s.l.) Pisa (m 4 a.s.l.) and Montemagno (m 220 a.s.l.) (Figs. 1, 2, 3).

Data from other stations in the M. Pisano area were not used because lacking and discontinuous.

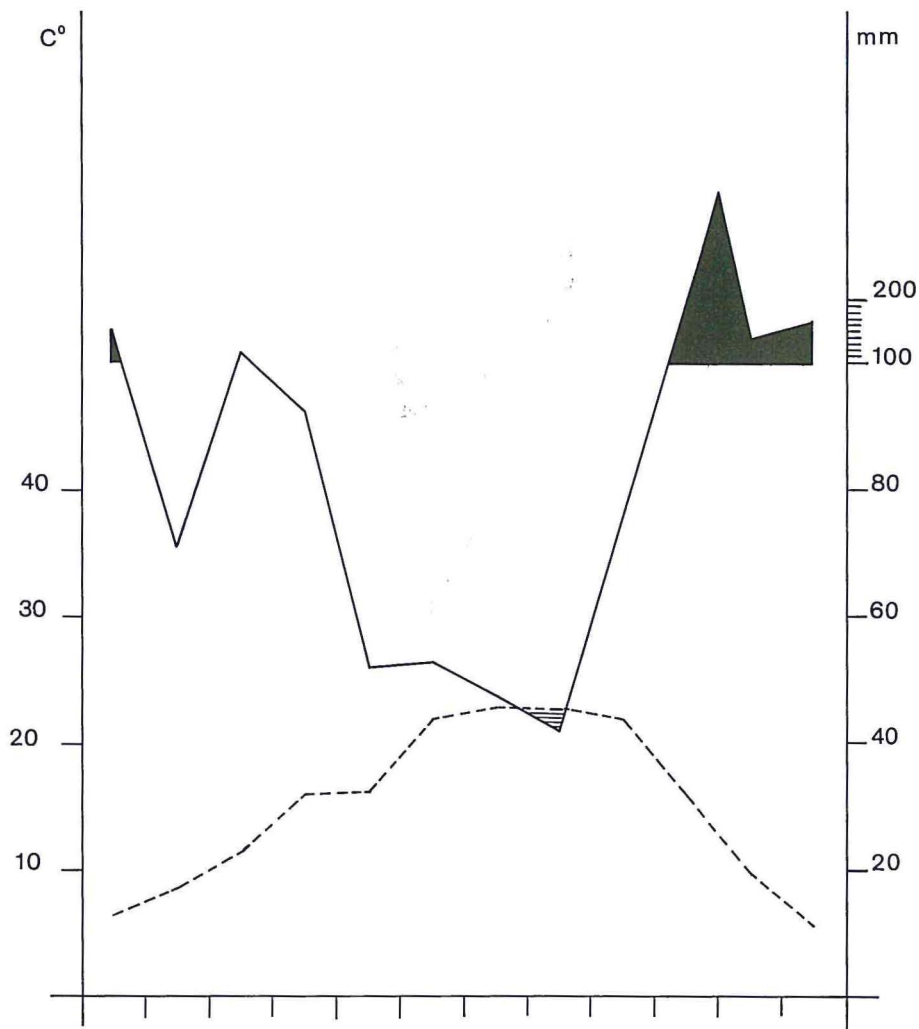


Fig. 1 - Climogram of Lucca (1978-1982), 19.2 m a.s.l.

An account of the floristic exploration

The botanical investigation of the area started before 1798, when

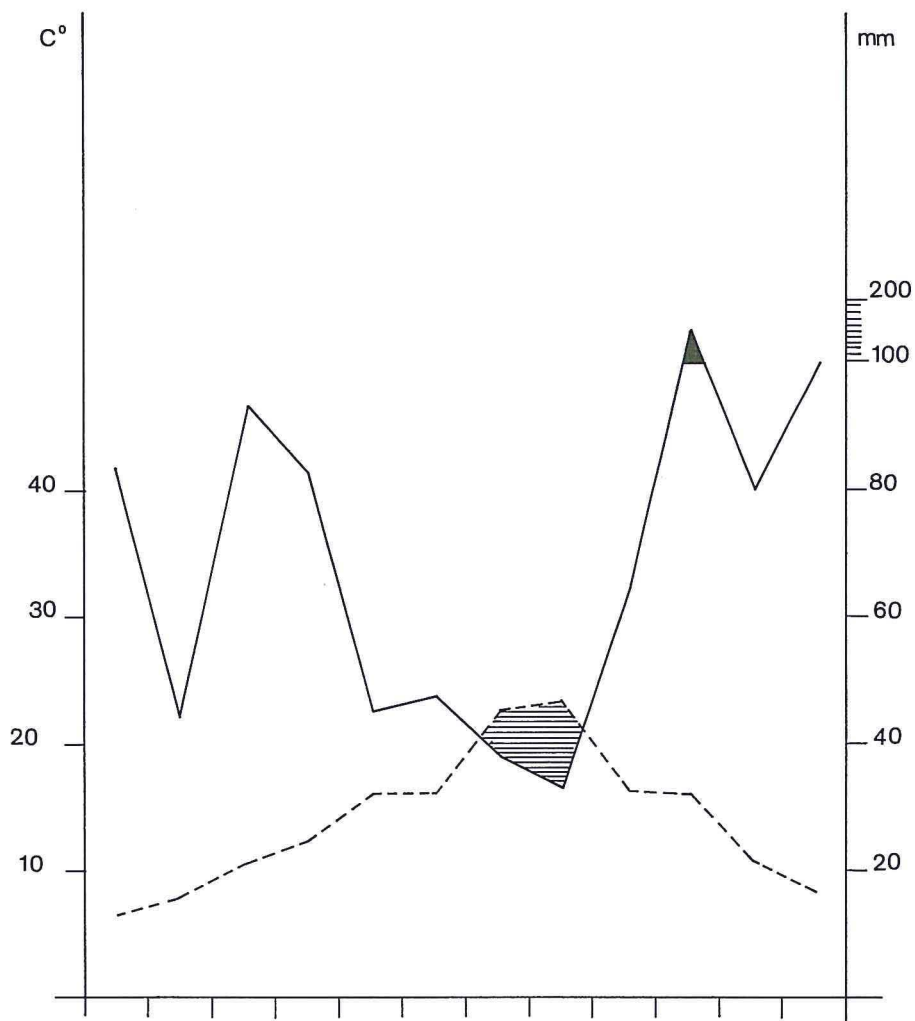


Fig. 2 - Climogram of Pisa (1978-1982), 4 m a.s.l.

SAVI published his «Flora Pisana», which contained many records and also some new species described from the M. Pisano area belonging to the Province of Pisa. Moreover SAVI (1808-1825) added data in his work

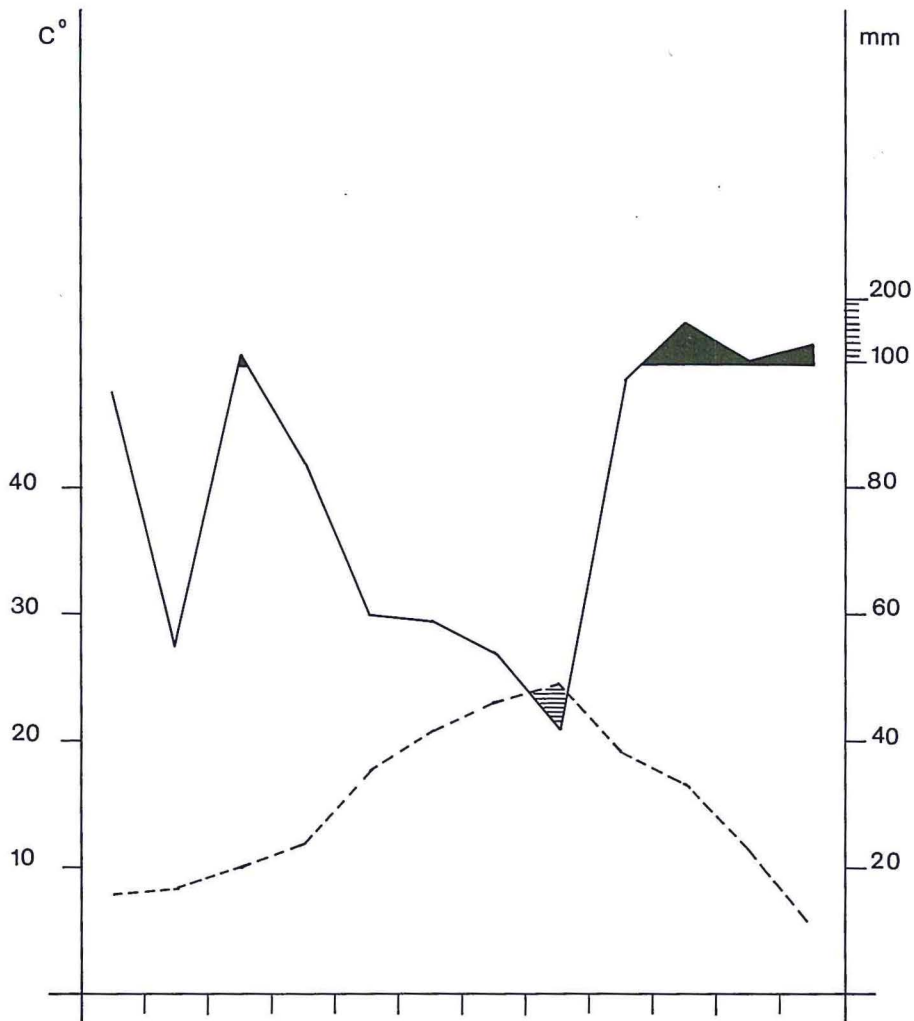


Fig. 3 - Climogram of Montemagno near Calci (1978-1982), 220 m a.s.l.

on the whole flora of Tuscany, «*Botanicon Etruscum*». Subsequently, data on the plants living in the part of M. Pisano actually included in the Province of Lucca were given by PUCCINELLI (1841-1848) in his

«Synopsis plantarum in Agro Lucensi sponte nascentium».

Scattered records of plants for Monte Pisano, due to a lot of Authors visiting this area, such as Beccari, Parlato, Levier, Sommier, Bicchi, Cittadella, Mezzetti, were collected in works of CARUEL (1860) «Prodrómo della Flora Toscana» (yet relevant to the whole Tuscany) and in subsequent updates given by Caruel himself (CARUEL, 1866; 1870) and by BARONI (1897-1908). Afterwards only very scattered records are available in the literature until a multipurpose research started in the Botanical Institute of the University of Pisa, concerning different subjects as fungi (MONTI, TOMEI, 1974; MONTI, 1979; MONTI, FICINI, 1980), medicinal and edible plants (CORSI, PAGNI, 1978; 1979; PAGNI, CORSI, 1979), *Orchidaceae* (DEL PRETE, CONTE, 1979), aquatic habitats (TOMEI, MARIOTTI, 1979) preservation problems (DEL PRETE, TOMEI, 1979). Simultaneously, intensive field-research and specimens collection were engaged, mostly in years from 1976 to 1985.

The source of the checklist

The following checklist originates from bibliographical references and field investigations. Taxa are listed and ordered according to PIGNATTI (1982) with only few exceptions quoted when occurring.

The names of taxa, definitely confirmed because collected by the present authors or by other in recent times and preserved in Pisa [PI] are marked !!; taxa which specimens are preserved only in the private herbarium of one of the Authors (F.B.) are marked !!*; taxa observed in nature but not collected are marked (!). All the mentioned taxa are printed in **boldface italics**. Names in *plain italics* without parentheses refer to literature records not yet confirmed but not definitely rejected. The relative high number of these last taxa is easily explained by the lot of place-names listed in literature that can be referred either to localities on the true M. Pisano area or in surroundings plains (many villages extend from hills to plain).

Alien (Advenae) plants are listed in square brackets []. For their classification, as not native, we refer to Viegi et Al. (1974a, 1974b), and to VIEGI and CELA RENZONI (1981).

Cultivated (and not established or escaped) plants are listed only if previously mentioned in literature.

Other exotic taxa are evaluated as proposed by VIEGI and CELA RENZONI (1981) i.e.:

Ac = Exotic not cultivated casual

An = Exotic not cultivated naturalized

Cs = Established or naturalized cultivated aliens.

If their status in the territory of M. Pisano is different from that proposed by VIEGI and CELA RENZONI (1981) for whole Tuscany, the checked position is listed in brackets.

The names in parenthesis { } have been definitely rejected as derived by misidentification and are listed (where possible) with cross references to the correct taxon.

Old references are restricted to those we have considered as basic (i.e. SAVI, 1798; 1808-1825; CARUEL, 1860; 1866; 1870; BARONI, 1897-1908) since they quote all the previous data. Other references after 1908 were checked and listed.

Whenever the names used in the cited papers cited differ from those adopted in this list they are quoted either as synonyms or as misapplied names with the Author's reference.

Most recurring references are shortened as follows:

BAR = BARONI, 1897-1908

BS = BIASOLETTO, SAVI, 1840

CAR = CARUEL, 1860

CAR I = CARUEL, 1866

CAR II = CARUEL, 1870

CP I = CORSI, PAGNI, 1978

CP II = CORSI, PAGNI, 1979

DPC = DEL PRETE, CONTE, 1979

FIORI = FIORI, 1933

MT = MONTI, TOMEI, 1974

MF = MONTI, FICINI, 1980

PC = PAGNI, CORSI, 1979

POS = POSOCCO, 1966

PUCC = PUCCINELLI, 1841-1848

SAVI = SAVI, 1798

SAVI II = SAVI, 1808-1825

TM = TOMEI, MARIOTTI, 1979

VCR = VIEGI, CELA RENZONI, 1981

PTERIDOPHYTA

The species are arranged according to FERRARINI *et Al.* (1986).

SELAGINELLACEAE

Selaginella P. Beauv.

{*S. helvetica* (L.) Spring} - CAR II; BAR [Listed on the basis of one only specimen collected by Micheli and fide Caruel once upon a time preserved in PI]. According to FIORI (1943) this record is erroneous and descends by misidentification.

!!*S. denticulata* (L.) Spring - CAR II; BAR; FIORI; POS

ISÖETACEAE

Isöetes L.

!!*I. duriei* Bory - CAR II; BAR; FIORI

EQUISETACEAE

Equisetum L.

!!**E. ramosissimum* Desf.

!!*E. palustre* L. - CAR II; BAR; FIORI

!!*E. telmateia* Ehrh. - CAR II [sub *E. maximum*]; BAR [*idem*]; FIORI [*idem*]

!!*E. arvense* L. - FIORI

OPHIOGLOSSACEAE

Ophioglossum L.

!!*O. lusitanicum* L. - CAR II; BAR; FIORI

!!*O. vulgatum* L. - SAVI; CAR II; BAR; FIORI; CHIAPPINI, 1969

!!*O. azoricum* K. Presl - FIORI [sub *O. vulgatum* L. f. *ambiguum* Coss. et Germ.]

OSMUNDACEAE

Osmunda L.

!!*O. regalis* L. - CAR II; BAR; FIORI; CESCA, 1961; MT; TM; TOMEI and GARBARI, 1979

POLYPODIACEAE

Polypodium L.

!!**P. cambricum* L. subsp. *serrulatum* (Sch. ex Arcang.) Pic. Ser. - FIORI [sub *P. vulgare* L. var. *serratum* Willd.; MF [sub *P. australe* Fee] [*P. vulgare* L.] - SAVI; CAR II; BAR; FIORI [sub *P. vulgare* var. *typicum* et f. *commune*]; CESCA, 1961; MT. All the records for this species have

to be referred - *pro maxima parte* - to *P. interjectum* and perhaps to *P. cambricum* (cf. NARDI and TOMMEI, 1976)

!!*P. interjectum* Shivas

SINOPTERIDACEAE

Cheilanthes Swartz

C. acrostica (Balb.) Tod. - FIORI [sub *C. fragrans* Webb et Berth. var. *acrostica* Tod.]; FERRARINI *et Al.*, 1986]

!!C. tinaei* Tod.** - CAR II [sub *C. odora*]; BAR [*idem*]; FIORI [sub *C. fragrans* Webb et Berth. var. *commutata* (Trevis.) Fiori]; NARDI *et Al.*, 1978 [sub *C. corsica* Reichst. et Vida]; FERRARINI *et Al.*, 1986

PTERIDACEAE

Pteris L.

!!P. cretica* L.**

ADIANTACEAE

Adiantum L.

!!A. capillus-veneris* L.** - CAR II; BAR; FIORI; TONGIORGI, 1936; MT

HEMIONITIDACEAE

Anogramma Link

!!A. leptophylla* (L.) Link** - SAVI II [sub *Grammitis leptophylla* Willd.]; CAR II [sub *Grammitis leptophylla* Swartz]; BAR [sub *Gymnogramme leptophylla* Desv.]; FIORI [*idem*]

HYMENOPHYLLACEAE

Hymenophyllum Sm.

H. tunbrigense (L.) Sowerby - PICHI SERMOLLI (1936; 1937); FIORI; FERRARINI *et Al.*, 1986 [!Puccinelli Coll. LUCCA, PI]. Last records refer to XIX century: the species needs confirmation.

HYPOLEPIDACEAE

Pteridium Gled. ex Scop.

!!P. aquilinum* (L.) Kuhn subsp. *aquilinum*** - SAVI [sub *Pteris aquilina* L.]; CAR II [*idem*]; BAR [*idem*]; FIORI [*idem*]; GIORDANO, 1953; MT; GEL-LINI, 1979

THELYPTERIDACEAE

Phegopteris (K. Presl.) Fèe

P. connectilis (Michx.) Watt - FIORI [sub *Polypodium phegopteris* L.]

Thelypteris Smidel

!!**T. palustris* Schott - CAR II [sub *Aspidium thelypteris* Swartz]; FIORI [sub *Dryopteris thelypteris* A. Gray]

ASPLENIACEAE

Asplenium L.

!!*A. onopteris* L. - SAVI [sub *A. adiantum-nigrum* L.]; CAR II [*idem*]; BAR [*idem*]; FIORI [*idem*]; MT [*idem*]. All the records of *A. adiantum-nigrum* for the M. Pisano have to be referred here.

{*A. adiantum-nigrum* L.} see *A. onopteris*

A. obovatum Viv. - FIORI [sub *A. fontanum* var. *obovatum* Fiori]; CESCO, 1961 [*Idem*]

!!**A. billotii* F.W. Schultz - CAR II [sub *A. lanceolatum* Huds.]; BAR [*idem*]; FERRARINI *et Al.*, 1986

{*A. fontanum* (L.) Bernh.} - FIORI - The old records to this species s.l. have to be referred to *A. billotii* and perhaps to *A. obovatum*.

A. foreziense Legrand et Magnier - FIORI [sub *A. fontanum* var. *foresiacum* (Legrand) Ray-Pahilade]; FERRARINI *et Al.*, 1986 [Doubtfully]

!!*A. trichomanes* L. subsp. *trichomanes* - CAR II; BAR; FIORI [sub *A. trichomanes* L. f. *inciso-crenato* Aschers.]; TONGIORGI, 1936; MT; MF

!!*A. trichomanes* L. subsp. *quadrivalens* D.E. Meyer - FERRARINI *et Al.*, 1986

!!*A. ruta-muraria* L. subsp. *ruta-muraria* - SAVI; CAR II; BAR; FIORI; MT

!!*A. septentrionale* (L.) Hoffm. subsp. *septentrionale* - CAR II; BAR; FIORI

Ceterach Willd.

!!*C. officinarum* Willd. subsp. *officinarum* - CAR II; BAR; FIORI; TONGIORGI, 1936

Phyllitis Hill

!!**P. scolopendrium* (L.) Newman subsp. *scolopendrium* - SAVI [sub *Asplenium scolopendrium* L.]; CAR II [sub *Scolopendrium officinale* Sm.]; BAR [sub *Scolopendrium vulgare* Sm.]; CESCO, 1961 [*idem*]; MT

ATHYRIACEAE

Athyrium Roth

!!***A. filix-femina (L.) Roth** - SAVI [sub *Polypodium filix-foemina* L.]; CAR II; BAR [sub *Asplenium filix-foemina* Bernh.]; FIORI [*idem*]; CESCA, 1961 [*idem*]; MT

ASPIDIACEAE

Dryopteris Adans.

!!***D. dilatata (Hoffm.) A. Gray** - FERRARINI *et Al.*, 1986

[*D. filix-mas* (L.) Schott] - SAVI [sub *Polypodium filix-mas* L.]; CAR II [sub *Aspidium filix-mas* Swartz]; BAR [sub *Nephrodium filix-mas* Strep.]; FIORI; MT; MF; All the references to this species have to be referred to *D. affinis*.

!!**D. affinis (Lowe) Fras.-Jenk. subsp. affinis var. disjuncta (Fomin) Fras.-Jenk.** - FERRARINI *et Al.*, 1986. Cfr. also under *D. filix-mas*.

Polystichum Roth

!!**P. setiferum (Förssk.) T. Moore ex Woynar** - FIORI [sub *Dryopteris aculeata* O. Kuntze var. *setifera* Guadagno], see also sub *P. aculeatum* [*P. aculeatum* (L.) Roth] - CAR II [sub *Aspidium aculeatum* Doell]; BAR [sub *A. aculeatum* Sw.]; CESCA, 1961. All the references to this species have to be referred to *P. setiferum*.

BLECHNACEAE

Blechnum L.

!!* **B. spicant (L.) Roth** - CAR II; BAR; FIORI; CESCA, 1961; MT

SALVINIACEAE

Salvinia Seguiet

!!**S. natans (L.) All.** - BS; CAR II; BAR; FIORI. Widespread in Fosso dell'Acquacalda in the plain near S. Giuliano Terme.

Azolla Lam. in Lam. et Poir.

[*A. caroliniana* Willd.] An - BAR; SAVELLI, 1915 [sub *A. filiculoides* Lam.]; FIORI

PINOPHYTA

PINACEAE

Cedrus Trew.

! [**C. atlantica** (Endl.) **Carriere**] Cultivated - MT

! [**C. libani** A. Rich.] Cultivated - MT

Pinus L.

!! **P. pinaster** Aiton - BS; CAR; GIORDANO, 1953; CP I; PC; TM; MF; MT; GELLINI, 1979

! **P. laricio** Poir. - SAVI [sub *P. resinosa*]; BAR [sub *P. silvestris* L.]; LONGO, 1922; GELLINI et CAVALLI, 1978; GELLINI, 1979

{*P. sylvestris* L.} - BAR [cf. sub *P. laricio*]

! [**P. pinea** L.] Cs - CAR; MF

CUPRESSACEAE

Cupressus L.

!! [**C. sempervirens** L.] Cs (widely naturalized) - DPT; MF

Thuja

! [**T. orientalis** L.] Cs (Cultivated) - MT

Juniperus L.

!! **J. communis** L. - SAVI; GIORDANO, 1953; MT; CP I; PC; MF

!! **J. oxycedrus** L. subsp. **macrocarpa** (Sibth. et Sm.) Ball - SAVI; MT; MF

TAXACEAE

Taxus L.

! [**T. baccata** L.] - VCR (in the M. Pisano only cultivated)

MAGNOLIOPHYTA - DICOTYLEDONES

MAGNOLIACEAE

Magnolia L.

! [**M. grandiflora** L.] Cultivated - MT

! [**M. obovata** Willd.] Cultivated - MT

SALICACEAE

Salix L.

! **S. alba** L. subsp. **alba** - MT

!! [**S. alba** L. subsp. **vitellina** (L.) Arcang.] Cultivated - CAR [sub *S. alba* var. *vitellina* L.]

! **S. cinerea** L. - PUCC; CAR

Populus L.

!!*P. alba* L. - CP I; MT
 ![*P. nigra* L.] Cultivated

JUGLANDACEAE

Juglans L.

!![*J. regia* L.] Cs (in the territory only cultivated) - CP I; PC

BETULACEAE

Alnus Miller

!!*A. glutinosa* (L.) Gaertner - CESCA, 1961; CP I; PC; TM; MT; GELLINI, 1979

CORYLACEAE

Carpinus L.

!*C. betulus* L. - SAVI; CAR

Ostrya Scop.

!!*O. carpiniifolia* Scop. - SAVI [sub *Carpinus ostrya* L.]; PUCC [sub *Ostrya vulgaris* L.]; CAR

Corylus L.

!!*C. avellana* L. - SAVI; CAR; MT; MF

FAGACEAE

Fagus L.

!!*F. sylvatica* L.

Castanea Miller

![*C. sativa* Miller] Widespread, but perhaps not autoctonous - SAVI; GELLINI, 1979

Quercus L.

!*Q. cerris* L. - SAVI [sub *Q. crinita*]; CAR

!!*Q. ilex* L. - SAVI; CAR; MF

{*Q. suber* L.} - CAR [Perhaps the records of this species have to be attributed to *Q. x morisii*]

Q. petraea (Mattuschka) Liebl. - CAR [sub *Q. sessiflora* Sal. var. *pubescens* Savi]

Q. robur L. - SAVI, [etiam sub *Q. racemosa*]; CAR [sub *Q. pedunculata* Ehr. var. *pubescens*]

!!*Q. pubescens* Willd. - CP I; PC; MF

{*Q. pseudosuber* Santi} - PUCC; MF; TC [The records for this species have to be referred to the following one]

!!**Q. x morisii** Borzi - PUCC; MF; [sub *Q. pseudosuber* Santi] TC [*idem*]

ULMACEAE

Ulmus L.

!**U. minor** Miller - CAR [sub *U. campestris* L. var. *suberosa* Koch]; MT

Celtis L.

!**C. australis** L. - BAR; DPT

Morus L.

!**[M. alba** L.] Cs - VCR

Ficus L.

!!**F. carica** L. - TM; MF

CANNABACEAE

Humulus L.

!!**H. lupulus** L. - CP II

URTICACEAE

Urtica L.

!**U. dioica** L.

!**U. urens** L. - PUCC; CAR

!!**U. membranacea** L. - CP I; CP II; PC [sub *U. dubia* Förssk.]

Parietaria L.

!!**P. diffusa** Waldst. et Kit. - CP I; PC [sub *P. judaica* L.]; MF

SANTALACEAE

Osyris L.

!!**O. alba** L. - SAVI; BS; PUCC; CAR

Thesium L.

{*T. linophyllum* L.} SAVI; PUCC [CAR attributes these records to *T. divaricatum*]

!!**T. divaricatum** Jan - PUCC; CAR

ARISTOLOCHIACEAE

Aristolochia L.

This genus is arranged according to NARDI, 1984

!**A. clematitis** L. - SAVI; NARDI, 1984

!!**A. rotunda** L. - NARDI, 1984

RAFFLESIACEAE

Cytinus L.*C. hypocistis* (L.) L. - PUCC; CAR

CACTACEAE

Opuntia Miller!***O. ficus-indica*** (L.) Miller] Cs - BAR; VCR[*O. intermedia* S. Dyck] Cs - ARCANGELI, 1904; FIORI, 1923-1929; VCR

POLYGONACEAE

Polygonum L.!!***P. aviculare*** L. - PC*P. minus* Hudson - CAR I!***P. hydropiper*** L.!***P. lapathifolium*** L.!***P. persicaria*** L.*Fallopia* Adanson*F. dumetorum* (L.) Holub - CAR [sub *Polygonum dumetorum* L.]; BAR
[idem]*Rumex* L.*R. acetosella* L - SAVI!!***R. acetosa*** L. - CAR[*R. patientia* L.] Cs - SAVI; CAR; According to VCR it is probably extinct.!!***R. crispus*** L. - CP I; CP II; PC*R. obtusifolius* L. subsp. *obtusifolius* - CAR!!***R. pulcher*** L. - SAVI

CHENOPODIACEAE

Polycnemum L.*P. arvense* L. - CAR*Beta* L.!![***B. vulgaris*** L. subsp. *vulgaris*] Cult - PC*Chenopodium* L.!!***C. botrys*** L.!!***C. vulvaria*** L.!***C. murale*** L.!***C. album*** L.

AMARANTHACEAE

Amaranthus! [**A. retroflexus** L.] An - VCR[*A. albus* L.] Cs - BAR; VCR!! [**A. deflexus** L.] An! [**A. caudatus** L.] Cs

PHYTOLACCACEAE

Phytolacca L.! [**P. americana** L.] Cs - VCR

PORTULACACEAE

Montia L.*M. fontana* L. - CAR

CARYOPHYLLACEAE

Arenaria L.*A. serpyllifolia* L. - CAR*Moehringia* L.*M. trinervia* (L.) Clairv. - CAR*Minuartia* L.*M. hybrida* (Vill.) Schischkin - SAVI [sub *Arenaria tenuifolia* L.]; PUCC [idem]; CAR [sub *Alsine tenuifolia* Crantz]*Stellaria* L.*S. nemorum* L. - SAVI!! **S. media** (L.) Vill. subsp. **media**! **S. pallida** (Dumort) Pirè*S. graminea* L. - BAR*Holosteum* L.*H. umbellatum* L. - CAR I; BAR*Cerastium* L.{*C. tomentosum* L.} - SAVI (but very likely erroneously; CAR referred this record to *C. arvense*)!!* **C. arvense** L. - SAVI [sub *C. tomentosum* and *C. latifolium*]; CAR [*C. alpinum* L.] - PUCC (but very likely erroneously; probably has to be referred to *C. arvense*){*C. latifolium* L.} - SAVI (but very likely erroneously; CAR referred this record to *C. arvense*)

!!**C. sylvaticum** Waldst. et Kit.

!!**C. glomeratum** Thuill. - PUCC [sub *C. viscosum* L.]; CAR

!!**C. ligusticum** Viv. - CAR [sub *C. campanulatum* Viv.]

C. glutinosum Fries - CAR

!!**C. semidecandrum** L.

Moenchia Ehrh.

!!**M. erecta** (L.) Gaertner - PUCC; CAR [sub *Cerastium glaucum* Gren. var. *quaternellum* Gren.]; BAR [sub *C. quaternellum* Fenzl]

M. mantica (L.) Bartl. - CAR [sub *Cerastium glaucum* Gren. var. *manticum* Gren.]

Sagina L.

S. subulata (Swartz) Presl - CAR

!!**S. saginoides** (L.) Karsten - SAVI [sub *Spergula saginoides*]

S. procumbens - PUCC; CAR

S. apetala Ard. - BAR

Scleranthus L.

S. annuus L. - PUCC; CAR

Corrigiola L.

C. litoralis L. - CAR I; BAR

Illecebrum L.

I. verticillatum L. - PUCC; CAR

Spergula L.

S. arvensis L. - PUCC; CAR

Spergularia (Pers.) Presl

!!**S. rubra** (L.) Presl - PUCC [sub *Arenaria rubra* L.]; CAR [sub *Lepigonum rubrum* Wahlb.]

Lychnis L.

!!**L. flos-cuculi** L.

Silene L.

!!**S. italica** (L.) Pers. subsp. *nemoralis* (Waldst. et Kit.) Nym. - CAR

!!**S. otites** (L.) Wibel - CAR; POS

!!**S. vulgaris** (Moench) Garke subsp. *vulgaris* -SAVI [sub *Cucubalus behen* L.]; CAR [sub *S. inflata* Smith]

S. armeria L. - SAVI; CAR

!!**S. alba** (Miller) Krause - CAR [sub *Lychnis alba* Mill.]

!!**S. conica** L. - CAR

Saponaria L.

!!**S. ocymoides** L. - SAVI; CAR; POS

!S. officinalis L. - PUCC*Petrorhagia* (Ser.) Link**!!P. prolifera (L.) P.W. Ball et Heywood** - SAVI [sub *Dianthus prolifera* L.]; CAR [*idem*]; BAR [*idem*]*P. velutina* (Guss.) P.W. Ball et Heywood - CAR [sub *Dianthus velutinus* Guss.]*Dianthus* L.**!!D. sylvestris Wulfen in Jacq. subsp. sylvestris** - SAVI [sub *Dianthus virgineus* L.]; CAR**!!D. carthusianorum L. subsp. carthusianorum** - SAVI; CAR; BAR [etiam sub var. *sassiniana* Arc.]; POS*D. armeria* L. - SAVI; CAR

CERATOPHYLLACEAE

Ceratophyllum L.*C. demersum* L. - CAR

RANUNCULACEAE

Helleborus L.**!!H. foetidus L.** - SAVI; CAR{*H. viridis* L.} - SAVI; CAR; MF (cf. sub *H. odoratus*)**!!H. odoratus Waldst. et Kit. subsp. laxus (Host.) Merxm. et Podl.** - SAVI [sub *H. viridis* L.]; CAR [*idem*]; MF [*idem*]; None specimen corresponding to *H. viridis* s.s. has been found in the M. Pisano.*Nigella* L.**!!N. damascena L.** - POS*Delphinium* L.*D. halteratum* Sibth. et Sm. - BAR*Consolida* (DC.) S.F. Gray**!C. ajacis (L.) Schur** - CAR; CAR I [sub *Delphinium ajacis* L.]; BAR [*idem*]*C. regalis* S.F. Gray subsp. *regalis* - CAR I [sub *Delphinium consolida* L.]; BAR [*idem*][*C. orientalis* (Gay) Schroedinger] Cultivated and according to BAR one only time escaped - BAR*Anemone* L.**!!A. nemorosa L.** - CAR; CESA, 1961; MT; TM**!!A. hortensis L.** - SAVI [sub *A. stellata* DC.]; CAR; POS; MF**!!A. pavonina Lam.** - CAR

!!*A. coronaria* L. - PUCC; BAR

Clematis L.

!!*C. flammula* L. - MT

!!*C. vitalba* L. - CP II; PC

Adonis L.

!!*A. annua* L. subsp. *cupaniana* (Guss.) Steinberg

Ranunculus L.

!!*R. lanuginosus* L. - PUCC; CAR; CAR I; BAR

!!*R. velutinus* Ten.

!!*R. repens* L.

!!*R. nemorosus* DC. - CAR; BAR

!!*R. bulbosus* L. subsp. *bulbosus*

R. sardous Crantz - CAR [sub. *R. philonotis* Retz]; BAR

R. muricatus L. - CAR

!*R. arvensis* L.

R. parviflorus L. - CAR

R. flabellatus Desf - CAR [sub *R. chaerophyllos* L.]; BAR

!!*R. ficaria* L. subsp. *ficaria* - CP II

R. flammula L. - CAR

R. ophioglossifolius Vill. - CAR; BAR

R. trichophyllus Chaix - CAR [sub *R. trychophyllus* Chaix var. *terrestris* Caruel]

Myosurus L.

M. minimus L. - CAR

Aquilegia L.

!*A. vulgaris* L. - SAVI; CAR

Thalictrum L.

!*T. aquilegifolium* L. - SAVI II

GUTTIFERAE

Hypericum L.

H. montanum L. - SAVI II; CAR

H. humifusum L. - CAR; BAR

!*H. tetrapterum* Fries - CAR [sub *H. quadrangulum* L.]

!!*H. perforatum* L. subsp. *perforatum* - SAVI; POS

!![*H. mutilum* L.] An - CAR; BAR; MT; VCR

!*H. androsaemum* L. - SAVI; CAR

LAURACEAE

Laurus L.

!L. nobilis L.

PAPAVERACEAE

*Papaver L.***![P. somniferum L.] Cs (cultivated) - VCR***P. setigerum DC.* - CAR I; BAR [sub *P. somniferum L.* var. *setigerum DC.*]**!!P. rhoeas L. subsp. rhoeas****!!P. argemone L.** - CP I; CP II; PC**!P. hybridum L.** - PUCC; CAR*Chelidonium L.***!!C. majus L.** - CP I; PC*Fumaria L.**F. muralis Boiss. et Sonder* - CAR; BAR [sub *F. media Loisel.*]**!!F. capreolata L.** - PUCC; MF**!!F. officinalis L.** - CP I; MF

CAPPARIDACEAE

*Capparis L.***!!C. spinosa L.** - CAR [sub *C. rupestris Sibth. et Sm.*]

CRUCIFERAE

*Sisymbrium L.***!!S. officinale (L.) Scop.***Alliaria Scop.***!!A. petiolata (Bieb.) Cavara et Grande** - CAR [sub *Sisymbrium alliaria Scop.*]*Arabidopsis (DC.) Heynh.***!!A. thaliana (L.) Heynh.***Bunias L.***!!B. erucago L.** - CP II*Erysimum L.*{*E. repandum L.*} - SAVI{*E. cheiranthoides L.*} - SAVI**!E. pseudorhaeticum Polatschek** - SAVI [sub *Cheiranthus alpinus L.*];
CAR [sub *E. cheiranthus Pers.*]**![E. cheiri (L.) Crantz] Cs***Barbarea R. Br.***!!B. vulgaris R. Br.** - PUCC; CAR

B. verna (Miller) Aschers. - CAR [sub *B. praecox* R. Br.]

Nasturtium R. Br.

!N. **officinale** R. Br.

Cardamine L.

!!C. **bulbifera** (L.) Crantz - PUCC [sub *Dentaria bulbifera* L.]; CAR [*idem*]

!!C. **heptaphylla** (Vill.) Schulz - PUCC [sub *Dentaria pinnata* Lam.]; CAR [*idem*]

!C. **pratensis** L. - CAR

C. parviflora L. - CAR

C. impatiens L. - SAVI; CAR

!!C. **hirsuta** L.

Arabis L.

!!A. **sagittata** (Bertol.) DC.

!!A. **hirsuta** (L.) Scop. - CAR

!!A. **collina** Ten. - SAVI II [sub *A. muralis* Bert.]; CAR [*idem*]

!!A. **turrita** L. - PUCC; CAR

!!A. **alpina** L. subsp. **caucasica** (Willd.) Briq.

Alyssum L.

A. montanum L. - CAR

Lobularia Desv.

!L. **maritima** (L.) Desv. - SAVI [sub *Alyssum maritimum* L.]; CAR

Draba L.

!!D. **muralis** L.

Erophila DC.

!!E. **verna** (L.) Chevall.

Neslia Desv. - CAR

N. paniculata (L.) Desv. - CAR

Capsella Medicus

!!C. **bursa-pastoris** (L.) Medicus

!!C. **rubella** Reuter

Hornungia Reichenb.

!!H. **petraea** (L.) Reichenb. - CAR [sub *Hutchinsia petraea* R. Br.]; BAR [*idem*]

Iberis L.

!!I. **umbellata** L. - SAVI; PUCC; CAR

Biscutella L.

!!B. **cichoriifolia** Loisel. - PUCC [sub *B. hispida* DC.]; CAR; [etiam sub *B. hispida*]; CAR I [*idem*]; POS; DPT

{*B. auriculata* L.} - CAR I; BAR. All the records for this species have to be referred to *B. cichoriiifolia*, cf. BAR.

Lepidium L.

!!*L. graminifolium* L.

!!*L. campestre* (L.) R. Br.

Cardaria Desv.

!!*C. draba* (L.) Desv.

Diplotaxis DC.

!!*D. eruroides* (L.) DC.

D. muralis (L.) DC. - BAR

Brassica L.

!![*B. oleracea* L. subsp. *oleracea*] Cult - CP I; PC

!![*B. rapa* L.] Cs - CAR [sub *B. campestris* L.]; PC

Sinapis L.

!!*S. arvensis* L. - PUCC

Rapistrum Crantz

!!*R. rugosum* (L.) All - PUCC

Calepina Adanson

!*C. irregularis* (Asso) Thell. in Schinz et Keller - CAR [sub *C. corvini* Desv.]; BAR [*idem*]

Raphanus L.

!!*R. raphanistrum* L. subsp. *raphanistrum* - PUCC; CAR

!*R. raphanistrum* L. subsp. *landra* (Moretti) Bonnier

Ochrodium DC.

[*O. aegyptiacum* DC.] Ac - BAR; VCR. Observed only once in 1877 (Cf. BAR)

RESEDACEAE

Reseda L.

R. luteola L. - PUCC

!!*R. lutea* L. - BAR

DROSERACEAE

Drosera L.

!!*D. rotundifolia* L. - PUCC; CAR; TM; TOMEI and GARBARI, 1979; FICINI et Al., 1980

!!*D. intermedia* Hayne in Dreves - PUCC [sub *D. longifolia* Bertol.]; CAR;

TOMEI and GARBARI, 1979; FICINI *et Al.*, 1980

CRASSULACEAE

Crassula

C. tillaea Lester-Garland - CAR II [sub *Tillaea muscosa* L.]; BAR [*idem*]

Umbilicus DC.

!!*U. rupestris* (Salisb.) Dandy - CAR [sub *U. pendulinus* DC.]; CP I; PC

U. erectus DC. - MF

Sedum L.

[*S. telephium* L.] - SAVI. This record has probably to be referred to *S. maximum*

!!*S. sediforme* (Jacq.) Pam.

S. maximum (L.) Suter - SAVI [sub *S. telephium* L.]; BAR

!!*S. rupestre* L. subsp. *rupestre* - CAR; MT

!!*S. sexangulare* L.

!!*S. dasyphyllum* L.

S. monregalense Balbis - CAR I; BAR

S. cepaea L. - PUCC [sub *S. gallioides* Latour.]

!*S. stellatum* L. - CAR; POS

S. rubens L. - BAR

!!*S. reflexum* L. - MF

SAXIFRAGACEAE

Saxifraga L.

!!*S. tridactylites* L. - PUCC

!*S. bulbifera* L. - PUCC; CAR

ROSACEAE

Filipendula Miller

!*F. vulgaris* Moench - PUCC [sub *Spiraea filipendula* L.]; CAR [*idem*]

Rubus L.

!!*R. fruticosus* L. - MT; CP I; PC

R. canescens DC. - PUCC [sub *R. tomentosus* Willd.]; CAR [sub *R. tomentosus* Borkh.]

R. hirtus Waldst. et Kit. - CAR [sub *R. glandulosus* Bellardi]

R. caesius L. - SAVI; CAR [sub *R. coryfolius* Sm. var. *spinosissimus*]

Rosa L.

R. seraphini Viv. - PUCC; BAR; NEPI, 1989

!!**R. agrestis** Savi - SAVI; NEPI, 1989

!!**R. canina** L. - SAVI

R. rubiginosa L. - SAVI; CAR

R. micrantha Sm. - CAR

!!**R. gallica** L. - CAR [sub *R. gallica* var. *pumila* Lindl.]; NEPI, 1989

!!**R. sempervirens** L. - SAVI; CAR; CP I; PC; NEPI, 1989

Agrimonia L.

!!**A. eupatoria** L. - CP I

Sanguisorba L.

!!**S. minor** Scop. subsp. *minor* - SAVI [sub *Poterium sanguisorba* L.];

CAR [*idem*]; MT [*idem*]; CP II

Geum L.

!!**G. urbanum** L. - SAVI; PUCC; CAR

Potentilla L.

!!**P. hirta** L. - CAR

!!**P. reptans** L. - MF

P. tabernaemontani Asch. - CAR [sub *P. verna* L.]

!!**P. erecta** (L.) Rauschel - SAVI [sub *P. tormentilla* Savi]; PUCC [sub *Tormentilla erecta* L.]; CAR [sub *P. tormentilla* Sibth. and sub *P. procumbens* Smith]

{*P. anglica* Laicharding} - CAR [sub *P. procumbens* Smith]; Species excludenda, etiam a tota flora italica, cf. PIGNATTI, 1982.

!!**P. micrantha** Ramond - SAVI II [sub *Fragaria sterilis* L.]; PUCC [sub *P. fragariastrum* Ehr.]; CAR [*idem*]

Fragaria L.

!!**F. vesca** L. - SAVI; PUCC; CAR; CESCO, 1961; MF

F. viridis Duchesne - PUCC [sub *F. collina* Ehr.]; CAR [*idem*]

Pyrus L.

!!**P. communis** L. - PUCC; CAR; MT; MF

Malus Miller

!!**M. domestica** Borkh. - MT; CP I; MF

Pyracantha M.J. Roemer

!!**P. coccinea** M.J. Roemer - PUCC [sub *Mespilus pyracantha* L.]

Mespilus L.

!!**[M. germanica** L.] Cs - PUCC; CAR; VCR

Crataegus L.

!!**C. monogyna** Jacq. subsp. *monogyna* - CP I; PC

Prunus L.

[*P. dulcis* (Miller) D.A. Webb] Cs - VCR

!*P. spinosa* L.

!!*P. avium* L. - CAR; MT; CP I; PC

! [*P. cerasus* L. subsp. *cerasus*] Cs - VCR

!!*P. mahaleb* L. - PUCC; CAR; DPT

Sorbus L.

!*S. aucuparia* L. - MT

!*S. torminalis* (L.) Crantz - GELLINI, 1979

LEGUMINOSAE

Laburnum Fabr.

!!*L. anagyroides* Medicus - SAVI [sub *Cytisus laburnum* L.] CAR [*idem*]

Calycotome Link

C. spinosa (L.) Link - SAVI II [sub *Spartium spinosum* L.]; PIGNATTI, 1982

Cytisus L.

C. sessilifolius L. - PUCC; CAR

!!*C. villosus* Pourret - SAVI [sub *C. triflorus* L'Her.]; CAR [*idem*]

!!*C. scoparius* (L.) Link - SAVI [sub *Genista scoparia*]; MF [sub *Sarothamnus scoparius* Wimmer]

Chamaecytisus Link

!!*C. hirsutus* (L.) Link - CAR [sub *Cytisus prostratus*]

Teline

!!*T. monspessulana* (L.) Koch - CAR [sub *Genista candicans* L.]; TM

Genista L.

!!*G. tinctoria* L. - SAVI; CAR

G. januensis Viv. - SAVI [sub *G. j. Bertol.*]; SAVI II [*idem*] PUCC [sub

G. genevensis Bert.]; CAR

!!*G. pilosa* L. - SAVI II; BS; CAR

!!*G. germanica* L. - SAVI; CAR

Spartium L.

!!*S. junceum* L. - SAVI [sub *Genista juncea*]; DPT; MF; MT

Ulex L.

!!*U. europaeus* L. - SAVI; CAR; GIORDANO, 1953; CESCA, 1961; TM; MF;

GELLINI, 1979

Lupinus L.

!! [*L. albus* L.] Cultivated and sometimes escaped - CP I; PC

Robinia L.

!! [*R. pseudacacia* L.] Cs, widely naturalized - BAR; MT; GELLINI, 1979

Colutea L.

C. arborescens L. - SAVI; CAR

Astragalus L.

!***A. glycyphyllos*** L.

!!***A. monspessulanus*** L. subsp. ***monspessulanus*** - CAR

!!***A. muelleri*** Steud. et Hochst - PUCC [sub *A. argenteus* Vis.]; CAR [sub *A. argenteus* Bertol.]; FIORI, 1923-1929 [sub *A. vegliensis* Sedler]

Cicer L.

[*C. arietinum* L.] Cs - VCR

Vicia L.

!***V. cracca*** L.

V. incana Gouan - CAR [sub *V. gerardii* All.]

V. ervilia (L.) Willd. - PUCC [sub *Ervum ervilia* L.]; CAR [*idem*]

V. hirsuta (L.) S.F. Gray - CAR [sub *Ervum hirsutum* L.]

!!***V. disperma*** DC.

!!***V. tenuissima*** (Bieb.) Schinz et Thell. - CAR [sub *Ervum gracile* L.]

V. tetrasperma (L.) Schreber - SAVI [sub *Ervum tetraspermum* L.]; SAVI II [*idem*]; CAR [*idem*]

V. pubescens (DC.) Link - CAR [sub *Ervum pubescens* DC.]

V. sepium L. - SAVI; CAR

!!***V. sativa*** L. subsp. ***sativa***

!!***V. sativa*** L. subsp. ***cordata*** (Wulfen) Asch. et Graeb.

!***V. lathyroides*** L. subsp. ***lathyroides*** - SAVI II; CAR

!***V. peregrina*** L. - CAR

!***V. lutea*** L. subsp. ***lutea***

!!***V. hybrida*** L. - PUCC; CAR

!!***V. bithynica*** L.

!!***V. narbonensis*** L. - PUCC; CAR

!![***V. faba*** L.] Cs

Lens Miller

L. ervoides (Brign.) Grande - BAR [sub *Ervum uniflorum* Ten.]

Lathyrus L.

!!***L. vernus*** (L.) Bernh. subsp. ***vernus*** - SAVI [sub *Orobus vernus* L.]; PUCC [*idem*]

!!***L. venetus*** (Miller) Wohlf. - BAR [sub *L. variegatus* Gren. et Godr.]

L. niger (L.) Bernh. - CAR

!!***L. montanus*** Bernh. - CAR [sub *L. machrorrhizus* Wimmer]

!!***L. pratensis*** L. - CAR

!!***L. tuberosus*** L.

!!*L. sylvestris* L. - CAR [sub *L. silvester* L.]

!!*L. latifolius* L.

!!*L. sphaericus* Retz. - SAVI II; PUCC; CAR

!!*L. setifolius* L. - SAVI II; CAR; POS

L. cicera L. - CAR

!!*L. hirsutus* L.

!*L. ochrus* (L.) DC.

!*L. aphaca* L.

Ononis L.

!!*O. reclinata* L. - SAVI; SAVI II; CAR

!!*O. spinosa* L. subsp. *spinosa*

!!*O. natrix* L.

Melilotus Miller

!*M. officinalis* (L.) Pallas - SAVI

!!*M. sulcata* Desf. - PUCC; CAR

Medicago L.

!!*M. lupulina* L.

! [*M. sativa* L. subsp. *sativa*] Cs - VCR

M. orbicularis (L.) Bartal. - BAR [sub *M. orbicularis* L. var. *marginata* Willd.]

M. rigidula (L.) All. - PUCC [sub *M. gerardii* Waldst.]; CAR [sub *M. gerardii* Willd.]

M. truncatula Gaertn. var. *tribuloides* (Desr.) Burnat CAR [sub *M. tribuloides* Desr.]

M. tuberculata (Retz.) Willd. - BAR

M. murex Willd. - CAR [sub *M. sphaerocarpos* Bert.]

!!*M. arabica* (L.) Hudson

!!*M. minima* (L.) Bartal.

Trifolium L.

!*T. repens* L. - CAR

T. hybridum L. subsp. *elegans* (Savi) Aschers. et Graebn. - SAVI [sub *T. elegans* Savi]; CAR [*idem*]

!!*T. nigrescens* Viv. subsp. *nigrescens*

T. glomeratum L. - SAVI; CAR

T. soffocatum L. - CAR I

T. resupinatum L. - CAR

T. tomentosum L. - BAR

!!*T. campestre* Schreber - POS

T. micranthum Viv. - PUCC [sub *T. filiforme* L.]; CAR [*idem*]

T. striatum L. - CAR

!T. arvense L.

T. bocconei Savi - SAVI II [sub *T. boccone* (sic!) Savi]; BS [sub *T. bocconi* Savi]; CAR [*idem*]

T. ligusticum Balbis - SAVI II; CAR

!T. scabrum L. - PUCC; CAR; POS

!!T. stellatum L. - CAR; POS

!!T. incarnatum L. subsp. incarnatum - CAR

!!T. incarnatum L. subsp. molinerii (Balbis) Syme

!!T. pratense L. subsp. pratense

T. pallidum Waldst. et Kit. - CAR

T. lappaceum L. - CAR

T. rubens L. - CAR

!!T. angustifolium L. subsp. angustifolium - SAVI; CAR

T. ochroleucum Huds. - CAR; BAR

T. echinatum M.-Bieb. - BAR

T. maritimum Huds. - PUCC; CAR [lists doubtfully the record of PUCC]; BAR

T. squarrosum L. - BAR [sub *T. dipsaceum* Thuill.]

!T. subterraneum L. - SAVI; CAR

Dorycnium Miller

!!D. hirsutum (L.) Ser. - SAVI [sub *Lotus hirsutus* L.]; SAVI II [*idem*]; CAR; MT

D. rectum (L.) Ser. - SAVI [sub *Lotus rectus*]

!!D. pentaphyllum Scop. subsp. herbaceum (Vill.) Rouy - SAVI [sub *D. parviflorum* Savi]; CAR [sub *D. herbaceum* Vill.]

Lotus L.

L. subbiflorus Lag. - BAR [sub *L. hispidus* Desf.]

L. angustissimus L. - CAR

!!L. corniculatus L. - POS

L. edulis L. - CAR

!!L. ornithopodioides L.

Tetragonolobus Scop.

T. maritimus (L.) Roth subsp. *siliquosus* (L.) Roth - BAR [sub *T. siliquosus* Roth]

Hymenocarpus Savi

H. circinnatus (L.) Savi - SAVI; SAVI II [sub *Medicago circinnata* L.]

Anthyllis L.

!!A. vulneraria L. subsp. praepropera (Kerner) Bornm. - SAVI

!!A. tetraphylla L. - SAVI; SAVI II; PUCC; CAR; BAR

Ornithopus L.

!**O. compressus** L. - SAVI II; CAR

O. perpusillus L. - PUCC; CAR

O. pinnatus (Miller) Druce - PUCC [sub *Astrolabium ebracteatum* DC.];

CAR [sub *O. ebracteatus* Brot.]; FIORI 1923-1929

Coronilla L.

!!**C. emerus** L. subsp. **emerus** - SAVI; BAR

!!**C. varia** L.

Hyppocrepis L.

!!**H. comosa** L. - SAVI

Scorpiurus L.

!!**S. muricatus** L. - POS [sub *S. muricatus* var. *subvillosa* (L.)]

S. vermiculatus L. - SAVI; CAR

Hedysarum L.

!!**[H. coronarium** L.] cultivated and sometimes escaped

Onobrychis L.

!**O. viciifolia** Scop.

OXALIDACEAE

Oxalis L.

!**O. corniculata** L.

!!**O. acetosella** L. - SAVI; PUCC; CAR; CESCA, 1961

!!**[O. violacea** L.] Cs

GERANIACEAE

Geranium L.

!!**G. sanguineum** L. - CAR

!**G. nodosum** L. - SAVI; CAR

!!**G. rotundifolium** L. - PUCC; MF

!!**G. molle** L.

!!**G. pusillum** L.

G. columbinum L. - CAR

!!**G. dissectum** L.

!!**G. lucidum** L. - CAR

!!**G. robertianum** L. - SAVI; POS

!!**G. purpureum** Vill.

Erodium L' Her.

!!**E. malachoides** (L.) L' Her. - SAVI [sub *Geranium malachoides* L.]; CAR

- E. botrys* (Cav.) Bertol. - BAR
E. ciconium (L.) L'Her. - SAVI [sub *Geranium ciconium* L.]; CAR
E. moschatum (L.) L'Her. - CAR
E. cicutarium (L.) L'Her. - CAR
!!*E. acaule* (L.) Becherer et Th.

LINACEAE

Linum L.

!L. bienne Miller

!![L. usitatissimum L.] Cs - CP I; PC

!!L. tenuifolium L. - SAVI; PUCC; CAR

!L. trigynum L. - SAVI II [sub *L. gallicum* L.]; BAR [*idem*]

L. strictum L. subsp. *corymbulosum* (Reichenb.) Rouy - SAVI; PUCC; CAR

!L. catharticum L. subsp. *catharticum* - SAVI; PUCC; CAR

Radiola Hill

!!R. linoides Roth - SAVI [sub *Linum Radiola* L.]; SAVI II [sub *R. millegrana* Smith]; PUCC [sub *R. millegrana* Pers.]; CAR

EUPHORBIACEAE

Mercurialis L.

!!M. annua L.

!!M. perennis L. - PUCC; CAR; CAR I; BAR

Euphorbia L.

[*E. humifusa* Willd.] Cs - BAR; VCR

E. chamaesyce L. subsp. *chamaesyce* - BAR

[*E. maculata* L.] Cs - BAR; VCR

[*E. prostrata* Aiton] Cs - BAR; VCR

!E. dulcis L. - CAR

!!E. spinosa L. subsp. *spinosa* - SAVI; BS; CAR

!!E. helioscopia L.

E. lathyris L. - PUCC; CAR

!!E. exigua L. - POS

!E. falcata L.

!!E. peplus L.

!!E. cyparissias L.

!!E. amygdaloides L. - PUCC; CAR

!!E. characias L. - SAVI; BS; PUCC; CAR; MF

[*E. thymifolia* Burm.] An - VCR

RUTACEAE

Ruta L.!***R. angustifolia*** Pers. - CAR!!***R. chalepensis*** L. - CAR [sub *R. bracteosa* DC.]; POS; CP I; PC; DPT*R. graveolens* L. - SAVI

SIMAROUBACEAE

Ailanthus Desf.! [***A. glandulosa*** Desf.] Cs - MT; VCR

POLYGALACEAE

Polygala L.! ***P. chamaebuxus*** L. - CAR I; BAR*P. monspeliaca* L. - BAR!! ***P. flavescens*** DC. - SAVI II; CAR!! ***P. nicaensis*** Risso subsp. *mediterranea* Chodat - CAR!! ***P. vulgaris*** L. - SAVI; SAVI II [sub *P. amara* L.]; CAR [etiam sub *P. amara* cf. CAR II]; CAR II{*P. amara* L.} - CAR, the references to this species have to be attributed to *P. vulgaris*, cf. CAR II; POS

ANACARDIACEAE

Cotinus Miller! [***C. coggygria*** Scop.] Cs*Pistacia* L.!! ***P. terebinthus*** L. - PUCC; CAR[*P. vera* L.] Cs - VCR!! ***P. lentiscus*** L. - SAVI; BS; CAR; POS; MF

HIPPOCASTANACEAE

Aesculus L.!! [***A. hippocastanum*** L.] Cs, very rarely and only young plants - PC

ACERACEAE

Acer L.! ***A. campestre*** L.

AQUIFOLIACEAE

Ilex L.**!I. aquifolium** L. - SAVI; CAR; CESCO, 1961; MT; MF; GELLINI, 1979

CELASTRACEAE

Euonymus L.**!E. europaeus** L. - MT

BUXACEAE

Buxus L.**!B. sempervirens** L.

RHAMNACEAE

Ziziphus Miller**![Z. jujuba** Miller] Cult and sometimes escaped. - PUCC [sub *Z. vulgaris* Willd.]*Rhamnus* L.**!!R. alaternus** L. - SAVI; PUCC; CAR*{R. catharticus* L.} - SAVI; According to PUCC the presence of this species is very doubtful and also all the localities listed by CAR come out from bibliographical references not supported by herbarium specimens.*Frangula* Miller**!!F. alnus** Miller - CAR [sub *Rhamnus frangula* L.]; MT; TM

VITACEAE

Vitis L.**![V. vinifera** L.] Widely cultivated and sometimes escaped*Parthenocissus* Planchon**![P. quinquefolia** (L.) Planchon] Cultivated and sometimes escaped

TILIACEAE

Tilia L.**!![T. tomentosa** Moench] Cultivated - PC

MALVACEAE

Malva L.

!!*M. sylvestris* L. - CP I; CP II; PC

M. nicaeensis All. - CAR

M. neglecta Wallr. - CAR [sub *M. rotundifolia* L.]

Lavatera L.

!!*L. punctata* All.

Althaea L.

!!*A. hirsuta* L. - SAVI; PUCC; CAR; POS

Abutilon Miller

!!*[A. theophrasti Medicus]* - Cs

THYMELAEACEAE

Daphne L.

!!*D. gnidium* L. - SAVI; BS; PUCC; CAR

!!*D. laureola* L. - SAVI; CAR

Thymelaea Miller

!!*T. passerina* (L.) Coss. et Germ.

VIOLACEAE

Viola L.

!!*V. odorata* L. - CAR

!!*V. reichenbachiana* Jordan ex Boreau - BAR [sub *V. sylvestris* Lam.]

!!*V. hirta* L. - CAR

!!*V. canina* L. - CAR

!!*Viola tricolor* L. subsp. *subalpina* Gaudin

CISTACEAE

Cistus L.

!!*C. incanus* L. - SAVI; BS; CAR; MT

!!*C. monspeliensis* L. - SAVI; BS; PUCC; CAR; POS; CP I; DPT

!!*C. salvifolius* L. x *C. monspeliensis* L.

!!*C. salvifolius* L. - SAVI; BS; CAR; DPT; MT

Tuberaria (Dunal) Spach

!!*T. lignosa* (Sweet) Samp. - SAVI II [sub *Cistus tuberaria* L.]; PUCC [sub *Helianthemum tuberaria* Willd.]; CAR [*idem*]

Helianthemum Miller

!!*H. nummularium* (L.) Miller subsp. *obscurum* (Celak.) Holub - SAVI [sub *Cistus barbatus* DC. et *C. helianthemum* L.]; CAR [sub *H. vulgare* Gaertn. var. *tomentosum* Gr. et Godr.]

!!*H. apenninum* (L.) Miller - PUCC [sub *H. polifolium* Hook.]; CAR [*idem*]

!!*H. oelandicum* (L.) DC. subsp. *italicum* (L.) Font-Quer et Rothm. - PUCC [sub *H. alpestre* Coll.]; CAR [sub *H. italicum* L.]; BAR [*idem*]

Fumana (Dunal) Spach

!!*F. arabica* (L.) Spach - CAR [sub *Helianthemum savii* Bertol.]; BAR [sub *Helianthemum arabicum* Pers.]

!!*F. procumbens* (Dunal) Gren. et Godr. - SAVI [sub *Cistus fumana* L.]; PUCC [sub *Helianthemum fumana* Willd.]; CAR [*idem*]

F. ericoides (Cav.) Gand. - SAVI II [sub *Cistus fumana* var. *ericoides*]

F. thymifolia (L.) Spach ex Webb - CAR [sub *Helianthemum glutinosum* Pers.]

CUCURBITACEAE

Bryonia L.

!*B. dioica* Jacq. - SAVI; CAR

LYTHRACEAE

Lythrum L.

!*L. salicaria* L.

L. borysthenicum (Schrank) Litv. - CAR [sub *Peplis erecta* Req. in Benth.]

L. portula (L.) D.A. Webb - SAVI II [sub *Peplis portula* L.]; CAR [*idem*]

TRAPACEAE

Trapa L.

T. natans L. - BS

MYRTACEAE

Myrtus L.

!!*M. communis* L. - SAVI; BS; CIESCA, 1961; POS; MT; CP I; PC; MF

Eucalyptus L'Her.

!![*E. camaldulensis* Dehnh.] Cultivated - CP I; PC

Punica L.

!![*P. granatum* L.] Cs (observed only in cultivation) - PC; VCR

ONAGRACEAE

Circaea L.

!*C. lutetiana* L. - PUCC

Oenothera L.

!**O. biennis** L.

Epilobium L.

E. dodonaei Vill. - BAR [sub *E. angustissimus* Weber]

E. montanum L. - SAVI

!**E. lanceolatum** Seb. et Mauri - CAR II; BAR

E. obscurum Schreber - CAR [sub *E. virgatum* Fries]; BAR [*idem*]

HALORAGACEAE

Myriophyllum L.

M. verticillatum L. - CAR

M. spicatum L. - CAR

CORNACEAE

Cornus L.

!**C. sanguinea** L. - TM

!**C. mas** L. - SAVI; PUCC; CAR

ARALIACEAE

Hedera L.

!**H. helix** L. subsp. *helix* - MT; CP I; PC

UMBELLIFERAE

Hydrocotyle L.

!**H. ranunculoides** L. fil. - CAR [sub *H. natans* Cyr.]; TOMEI *et Al.*, 1985

!**H. vulgaris** L. - SAVI; CAR; TOMEI *et Al.*, 1985

Sanicula L.

!**S. europaea** L. - SAVI; PUCC; CAR

Scandix L.

S. australis L. - POS

!**S. pecten-veneris** L.

Bifora L.

B. testiculata (L.) Roth - PUCC; CAR [sub *B. flosculosa* M - Bieb.]

Smyrniium L.

!**S. olusatrum** L. - CAR

Pimpinella L.

!**P. peregrina** L.

P. major (L.) Huds. - CAR [sub *P. saxifraga* L. var. *nigra* Spreng.]; BAR
[sub *P. saxifraga* L. var. *major* Wallr.]

Aegopodium L.

!!**A. podagraria** L.

Berula Koch

B. erecta (Hudson) Coville - SAVI II [sub *Sium angustifolium* L.]; BAR
[*idem*]

Seseli L.

S. tortuosum L. - CAR; BAR

Oenanthe L.

!!**O. pimpinelloides** L. - CAR; CP II

Foeniculum Miller

!!**F. vulgare** Miller subsp. *vulgare* - POS; CP I; CP II; PC

Bupleurum L.

!!**B. lancifolium** Hornem.

B. baldense Turra subsp. *baldense* - PUCC [sub *B. aristatum* Bartl.]; CAR
[*idem*]

Trinia L.

T. glauca (L.) Dum. subsp. *glauca* - PUCC [sub *T. vulgaris* DC.]; CAR [*idem*]

Apium L.

A. graveolens L. - BAR

!!**A. nodiflorum** (L.) Lag. - CP I; CP II; PC

[*Apium leptophyllum* (Pers.) F. Müller] Ac - VCR

Petroselinum Hill

!![**P. sativum** Hoffm.] Cs Cultivated and very rarely escaped - CAR; BAR;
PC [sub *P. hortense* Hoffm.]

Sison L.

S. amomum L. - PUCC; CAR

Angelica L.

!!**A. sylvestris** L. - SAVI; CAR

Peucedanum L.

!**P. cervaria** (L.) Lapeyr. - SAVI [sub *Selinum cervaria* Savi]; CAR

Tordylium L.

!!**T. apulum** L. - PUCC; CAR; POS; MF

Torilis Adanson

!**T. arvensis** (Hudson) Link - PUCC [sub *T. infesta* Smith]

Orlaya Hoffm.

!!*O. grandiflora* (L.) Hoffm. - PUCC [sub *Caucalis grandiflora* L.]; CAR; POS [sub *Daucus grandiflorus* Scop.]

!!*O. kochii* Heyw.

Daucus L.

!!*D. broteri* Ten. - CAR [sub *D. michelii* Caruel]

!!*D. carota* L. subsp. *carota* - CP II

ERICACEAE

Erica L.

!!*E. arborea* L. - SAVI; CAR; GIORDANO, 1953; CESCA, 1961; MF; MT

!!*E. scoparia* L. - BS; GIORDANO, 1953; CESCA, 1961; MT; TM; MF

Calluna Salisb.

!!*C. vulgaris* (L.) Hull - SAVI [sub *Erica vulgaris* L.]; TM

Arbutus L.

!!*A. unedo* L. - SAVI; CAR; TM; MF; MT; GELLINI, 1979

Vaccinium L.

!!*V. myrtillus* L. - BAR

PRIMULACEAE

Primula L.

!!*P. vulgaris* Hudson - CAR; BAR; PC [sub *P. acaulis* Hills]

Cyclamen L.

!!*C. hederifolium* Aiton - POS [sub *C. neapolitanum* Ten.]; MF

{*C. purpurascens* Miller} - SAVI [sub *C. europaeum* L.]; PC [*idem*]; According to PIGNATTI, 1982 this species does not live in Tuscany.

!!*C. repandum* Sibth. et Sm. - PUCC [sub *C. vernum* Reich.]; CAR

Lysimachia L.

!!*L. nemorum* L. - BAR

!!*L. nummularia* L.

!!*L. vulgaris* L.

L. punctata L. - PUCC; CAR

Asterolinon Hoffmg. et Link

!!*A. linum-stellatum* (L.) Duby in DC. - SAVI [sub *Lysimachia linum-stellatum* L.]; SAVI II [*idem*]; PUCC [*idem*]; CAR [sub *A. stellatum*]

Anagallis L.

A. minima (L.) Krause - SAVI II [sub *Centunculus minimus* L.]; PUCC [*idem*]; CAR [*idem*]

!!*A. arvensis* L. - SAVI [sub *A. monelli* L.]; PUCC [sub *A. coerulea* Schrab.];

POS.

{*A. monelli* L.} - SAVI; this record refers to *A. arvensis* var. *coerulea*,
cf. also CAR

PLUMBAGINACEAE

Armeria Willd.

A. plantaginea (All.) Willd. - SAVI [sub *Statice armeria* L.]; CAR [doubtfully listed fide SAVI]

OLEACEAE

Fraxinus L.

!!***F. ornus* L.** - CAR; CIESCA, 1961; TM; MF

Ligustrum L.

!!***L. vulgare* L.**

Olea L.

!![***O. europaea* L. var. *europaea***] Cultivated - MT; CP I; PC; MF

!!***O. europaea* L. var. *sylvestris* Brot.** - SAVI

Phyllirea L.

!!***P. angustifolia* L.** - BS [etiam sum *P. media* L.]; PUCC [*idem*]: CAR [sub *P. vulgaris* Caruel]

!!***P. latifolia* L.** - PUCC; CAR [sub *P. vulgaris* Caruel]; DPT; MF

GENTIANACEAE

Blackstonia Huds.

!!***B. perfoliata* (L.) Huds. subsp. *perfoliata*** - POS [sub *Chlora perfoliata* L.]

Centaurium Hill

!!***C. erythraea* Rafn subsp. *erythraea*** - CP I

!!***C. pulchellum* (Swartz) Druce**

C. maritimum (L.) Fritsch - SAVI [sub *Gentiana maritima* L.]; CAR [sub *Erythraea maritima* Pers.]

Gentiana L.

!!***G. asclepiadea* L.** - BAR; CP I; PC

!!***G. pneumonanthe* L.** - TM; TOMEI and GARBARI, 1979; AMADEI *et Al.*, 1982; TOMEI *et Al.*, 1985; GARBARI, 1988

APOCYNACEAE

Nerium L.

!![***N. oleander* L.**] Cultivated and rarely escaped

Vinca L.

!!**V. minor** L. - SAVI; PUCC; CAR

V. major L. - SAVI; CAR

!**V. difformis** Pourret

ASCLEPIADACEAE

Vincetoxicum N.M. Wolf.

{*V. nigrum* (L.) Moench} - SAVI [sub *Asclepias nigra* L.] species excludenda, cf. sub *V. hirundinaria*

!!**V. hirundinaria** Medicus subsp. **hirundinaria** - SAVI [sub *Asclepias nigra* L., cf. also CAR]; CAR [sub *V. officinale* Moench]

RUBIACEAE

Sherardia L.

!!**S. arvensis** L. - CAR

Asperula L.

!!**A. aristata** L. subsp. **scabra** (Presl) Nym. - CAR [sub *A. longiflora* Waldst. et Kit.]

!**A. cynanchica** L. - SAVI; PUCC; CAR

A. laevigata L. - SAVI; SAVI II; CAR; BAR

Galium L.

!**G. rotundifolium** L. - PUCC; CAR; BAR

!**G. palustre** L. - CAR

!**G. verum** L. subsp. **verum** - SAVI

!!**G. album** Miller

!!**G. corrudifolium** L.

!!**G. lucidum** All. - BAR; POS [sub *G. mollugo* var. *lucidum*]

!!**G. spurium** L.

!!**G. aparine** L.

G. parisiense L. - CAR [sub *G. parisiense* L. var. *lejocarpum* Tausch]

Cruciata Miller

C. laevipes Opiz - SAVI [sub *Valantia cruciata* L.]; PUCC; CAR [sub *Galium cruciata* Scop.]

!**C. glabra** (L.) Ehrend. - PUCC [sub *G. vernum* Scop.]; CAR [*idem*]; CES-CA, 1961 [*idem*]

Rubia L.

!!**R. peregrina** L.

{*R. tinctorum* L.} - SAVI; MF; VCR; listed by several authors but none specimen is preserved in PI, FI, LU; it may be once upon a time culti-

vated and sometimes escaped.

CONVOLVULACEAE

Calystegia R. Br.

!!**C. sepium** (L.) R. Br. - CP I

Convolvulus L.

!!**C. cantabrica** L. - SAVI; CAR; POS

!**C. arvensis** L.

!!**C. althaeoides** L.

Cuscuta L.

!!**C. epithymum** L. - SAVI

BORAGINACEAE

Buglossoides Moench

!**B. purpureocoerulea** (L.) Johnston - SAVI [sub *Lithospermum purpureocoeruleum* L.]; CAR [*idem*]

Cerithe L.

!!**C. major** L.

Echium L.

!!**E. italicum** L.

!**E. vulgare** L. - POS [sub *E. vulgare* var. *pustulatum* S. et S.]

!**E. plantagineum** L.

Pulmonaria L.

{*P. officinalis* L.} - PUCC; CAR. Species a tota flora Etruriae excludenda, cf. PIGNATTI, 1982

!!**P. vallarsae** Kerner

Symphytum L.

S. officinale L. - SAVI; CAR

!!**S. tuberosum** L. subsp. *tuberosum* - SAVI; CAR; PC

Anchusa L.

!**A. hybrida** Ten.

!**A. italica** Retz.

Borago L.

!!**B. officinalis** L. - PUCC; CP I; CP II; PC

Myosotis L.

!**M. arvensis** (L.) Hill - BAR [sub *M. intermedia* Link ex Schulz]

M. ramosissima Rochel in Schultes - CAR [sub *M. hispida* Schlecht]

!!M. scorpioides L.

Cynoglossum L.

!!C. creticum Miller

VERBENACEAE

Verbena L.

!!V. officinalis L. - CP I; PC

LABIATAE

Ajuga L.

!A. reptans L.

A. iva (L.) Schreber - BAR

!!A. chamaepitys (L.) Schreber

Teucrium L.

T. botrys L. - PUCC; CAR

!!T. chamaedrys L. - CP I; PC

!T. flavum L. - SAVI; SAVI II; PUCC; CAR

!!T. montanum L. - PUCC; CAR

!!T. polium L. subsp. capitatum (L.) Arcang. - SAVI; PUCC; CAR; POS

Scutellaria L.

S. columnae All. - CAR

Marrubium L.

M. vulgare L. - SAVI; CAR

Sideritis L.

S. montana L. - CAR; POS

!!S. romana L. - SAVI

Melittis L.

!!M. melissophyllum L. - SAVI; PUCC; CAR

Lamium L.

!L. maculatum L. - MF

!L. purpureum L.

!L. amplexicaule L.

Lamiastrum Fabr.

!!L. galeobdolon (L.) Ehrend. et Polatschek - CAR [sub *Lamium galeobdolon* Crantz]; BAR [*idem*]

Ballota L.

!!B. nigra L. subsp. uncinata (Fiori et Beg.) Patzak

Stachys L.

!!**S. officinalis** (L.) Trevisan subsp. **officinalis** - SAVI [sub *Betonica officinalis* L.]

!!**S. germanica** L. - SAVI; CAR

!!**S. recta** L. subsp. **recta** - CAR

!**S. annua** (L.) L.

!**S. arvensis** (L.) L. - SAVI II; CAR; POS

Nepeta L.

{*N. nepetella* L.} - MF; cf. sub *Calamintha nepeta*

Glechoma L.

!!**G. hederacea** L. - CAR [sub *Nepeta glechoma* Benth.]

Prunella L.

!!**P. laciniata** (L.) L. - SAVI

!**P. vulgaris** L.

Melissa L.

!!**M. romana** Miller - CP I; PC [sub *M. officinalis* subsp. *altissima* (Sibth. et Smith) Arc.]; CORSI *et Al.*, 1979

Satureja L.

!!**S. montana** L. subsp. **montana** - SAVI; BS; PUCC; CAR; POS

S. hortensis L. - SAVI; CAR

Micromeria Benth

!!**M. juliana** (L.) Benth - SAVI [sub *Satureja juliana* L.]; SAVI II [*idem*]; BS [*idem*]; CAR; POS [*idem*]

!**M. graeca** (L.) Benth - POS [sub *Satureja graeca* L.]

Calamintha Miller

!**C. sylvatica** Bromf. - PUCC [sub *C. officinalis* Moench]; CAR [sub *C. montana* Lam.]

!!**C. nepeta** (L.) Savi subsp. **nepeta** - CP I; CP II; PC; MF [sub *Nepeta nepetella*]

Acinos Miller

A. arvensis (Lam.) Dandy - CAR [sub *Calamintha arvensis*]

Clinopodium L.

!!**C. vulgare** L. - SAVI

Origanum L.

!!**O. vulgare** L. - SAVI; CAR; POS; CP II

Thymus L.

!![**T. vulgaris** L.] Cs - not observed in nature: all the records can belong to cultivated or escaped plants; MT; CP I; CP II; PC

!**T. serpyllum** L. - SAVI

!!**T. longicaulis** Presl

Lycopus L.

L. exaltatus L. fil. - PUCC

Mentha L.

!!**M. pulegium** L. - CP II; PC

!!**M. aquatica** L.

!**M. suaveolens** Ehrh. - CAR [sub *M. rotundifolia* L.]

!!**M. longifolia** (L.) Hudson - PUCC [sub *M. sylvestris* L.]

!!**M. spicata** L. - CP I

Rosmarinus L.

!!**R. officinalis** L. - CP I; PC found always as cultivated plant

Lavandula L.

!!**L. stoechas** L. - SAVI; SAVI II; PUCC; CAR

!!**L. angustifolia** Miller - SAVI [sub *L. spica* L.]; CAR [sub *L. officinalis* Chaix]; CP I

Salvia L.

!![**S. officinalis** L.] Cultivated - CP I; PC

!!**S. pratensis** L. subsp. *haematodes* (L.) Briq.

!!**S. verbenaca** L.

S. multifida Sibth. et Sm. - PUCC; CAR

S. verticillata L. - CAR I

SOLANACEAE

Hyoscyamus L.

H. niger L. - CAR

Physalis L.

!**P. alkekengi** L. - SAVI; PUCC; CAR

Solanum L.

!!**S. nigrum** L. subsp. *nigrum* - CP I

!!**S. dulcamara** L. - SAVI; PC

!![**S. tuberosum** L.] Cs (only cultivated) - PC

!![**S. melongena** L.] - only cultivated - CP I

Lycopersicon Miller

!![**L. esculentum** Miller] Cs - PC

SCROPHULARIACEAE

Verbascum L.

- !!*V. thapsus* L. subsp. *thapsus* - PUCC; CAR; CP I; PC
 !!*V. thapsus* L. subsp. *crassifolium* (Lam. et DC.) Murb. - BAR [sub *V. montanum* Schrad.]
 !*V. sinuatum* L.
 !*V. blattaria* L.
V. phoeniceum L. - BAR
Scrophularia L.
 !*S. peregrina* L. - CAR
 !*S. nodosa* L. - CAR
 !*S. auriculata* L.
 !!*S. canina* L. - SAVI; PUCC; CAR; POS
Antirrhinum L.
 !!*A. latifolium* Miller - CAR; BAR
 !*A. majus* L. - SAVI; PUCC
Misopates Rafin
 !!*M. orontium* (L.) Rafin.
Linaria Miller
 !!*L. pelisseriana* (L.) Miller - PUCC; CAR
 !!*L. vulgaris* Miller
Cymbalaria Hill
 !*C. muralis* Gaertn. - MT [sub *Linaria cymbalaria* Miller]
Kickxia Dumort
 !!*K. elatine* (L.) Dumort.
K. spuria (L.) Dumort. - PUCC [sub *Linaria spuria* Mill.]
Digitalis L.
 !*D. lutea* L. - SAVI
Veronica L.
 !*V. arvensis* L.
V. acinifolia L. - CAR
 !!*V. agrestis* L. - CAR [sub *V. pulchella* Bart.]
 ![*V. persica* Poiret] An - VCR
 !!*V. cymbalaria* Bodard - PUCC; CAR
 !!*V. chamaedrys* L. - SAVI; CAR
V. montana L. - SAVI II; CAR
 !*V. urticifolia* Jacq. - CAR
 !!*V. officinalis* L. - CAR
V. anagalloides Guss. - CAR [sub *V. anagallis-aquatica* L. and *V. anagalloides* Guss.]; BAR
 !*V. beccabunga* L.

Euphrasia L.

!!*E. officinalis* L. - SAVI; CAR

Odontites Ludwig

!!*O. lutea* (L.) Clairv.

!!*O. rubra* (Baumg.) Opiz

Parentucellia Viv.

!!*P. latifolia* (L.) Caruel - CAR [sub *Euphrasia latifolia* Gris.]

OROBANCHACEAE

Orobanche L.

O. ramosa L. - CAR [sub *Phelipaea ramosa* C.A. Mey.]

O. alba Stephan ex Willd. - CAR [sub *O. epithymum* DC.]

O. loricata Reichenb. - CAR

O. minor Sm. in Sowerby - CAR

!!*O. pubescens* D'Urv.

!!*O. gracilis* Sm. - BAR

GLOBULARIACEAE

Globularia L.

!!*G. punctata* Lapeyr. - PUCC [sub *G. vulgaris* L.]; CAR [*idem*]

LENTIBULARIACEAE

Utricularia L.

!!*U. minor* L. - CAR; BAR; TM

PLANTAGINACEAE

Plantago L.

!!*P. major* L. s.l. - CP I; PC

!!*P. coronopus* L. subsp. *coronopus*

!!*P. lanceolata* L. - CP I

P. bellardii All. - PUCC; CAR

!!*P. afra* L. - CAR I [sub *P. psyllium* L.]; BAR [*idem*]

CAPRIFOLIACEAE

Viburnum L.

!!*V. tinus* L. - SAVI; CAR; MT

Sambucus L.

!S. ebulus L.

!!S. nigra L. - MT; CP I; PC

Lonicera L.

!!L. implexa Aiton - CAR

L. caprifolium L. - SAVI

!!L. etrusca G. Santi

!!L. periclymenum L. - SAVI; PUCC; CAR

ADOXACEAE

Adoxa L.

!A. moschatellina L. - PUCC; CAR

VALERIANACEAE

Valerianella Miller

V. puberula (Bertol.) DC. - BAR [sub *V. microcarpa* Loisel. var. *puberula* DC.) Arc.]

V. rimosa Bast in Desv. - CAR [sub *V. auricula* DC.]

!!V. locusta (L.) Laterrade - CAR [sub *V. olitoria* Poll.]; CP II

V. carinata Lois. - CAR

Centranthus DC.

!!C. ruber (L.) DC. in Lam.

DIPSACACEAE

Cephalaria Schrader

[*C. syriaca* (L.) Schrad.] Ac - BAR; VCR

!!C. transsylvanica (L.) Schrader

Dipsacus L.

!!D. fullonum L.

Knautia L.

!!K. drymeia Heuffel subsp. centrifrons (Borbás) Ehrend.

!!K. arvensis (L.) Coulter - SAVI [sub *Scabiosa arvensis* L.]; CAR

Scabiosa L.

!!S. columbaria L. - CAR

!!S. uniseta Savi - SAVI

Pterocephalus Vaill.

!![P. plumosus (L.) Coulter] Ac - BARSALI, 1909 [sub *Scabiosa plumosa* Sibth. et Sm.]; SAVELLI, 1915 [*idem*]; VCR [*idem*]

CAMPANULACEAE

Legousia Durand!!*L. speculum-veneris* (L.) Chaix!!*L. falcata* (Ten.) Fritsch - SAVI [sub *Campanula hybrida*, cf. CAR]; CAR
[sub *Specularia falcata* A. DC.]*L. hybrida* (L.) Delarbre - CAR [sub *Specularia hybrida* A. DC.]*Trachelium* L.!!*T. coeruleum* L.] Cs - PUCC; CAR; VCR*Campanula* L.!!*C. rapunculus* L. - SAVI; CP II!*C. persicifolia* L. - CAR I; BAR!!*C. medium* L. - SAVI; CAR*C. cervicaria* L. - CAR!!*C. erinus* L. - CAR; POS!*C. trachelium* L. - CAR*Phyteuma* L.{*P. michelii* All.} - CAR!*P. scorzonrifolium* Vill. - PUCC; CAR [sub *P. michelii* All.]*Jasione* L.!!*J. montana* L. - PUCC*Laurentia* Adanson!*L. gasparrinii* (Tineo) Strobl - SAVI II [sub *Lobelia laurentia* L.]; CAR
[sub *L. michelii* DC.]

COMPOSITAE

Eupatorium L.!!*E. cannabinum* L.*Solidago* L.!!*S. virgaurea* L. subsp. *virgaurea*!!*S. gigantea* Aiton] Cs*Aster* L.!!*A. novi-belgi* L.] Cs[*A. salignus* Willd.] Cs - BAR!!*A. squamatus* (Sprengel) Hieron] An - VCR!!*A. sedifolius* L. - CAR [sub *A. acris* L.]; MONTI *et Al.*, 1978*Erigeron* L.!!*[E. karvinskyanus* DC.] Cs!*E. acer* L. subsp. *acer* - SAVI [sub *Solidago acris* (L.) Savi]; CAR

Bellis L.

B. annua L. - SAVI; CAR

!***B. perennis*** L.

!!***B. sylvestris*** Cyr. - SAVI II [sub *B. s.* Willd.]; BS; CAR; POS

Micropus L.

M. erectus L. subsp. *erectus* - CAR I; BAR

Evax Gaertner

E. pygmaea (L.) Brot. - BAR

Oglifa Cass.

O. minima (Sm.) Reichenb. - BAR [sub *Filago minima* Fries]

Antennaria Gaertner

A. dioica (L.) Gaertner - CAR

Gnaphalium L.

G. sylvaticum L. - SAVI; CAR

G. luteo-album L. - CAR

Phagnalon Cass.

!***P. sordidum*** (L.) Reichenb. - BAR

Helichrysum Miller

!!***H. italicum*** (Roth) G. Don subsp. *italicum* - CAR [sub *H. angustifolium* DC.]; POS; MF

H. stoechas (L.) Moench - SAVI [sub *Gnaphalium stoechas* L.]

Inula L.

I. salicina L. - CAR

!!***I. spiraeifolia*** L. - CAR [sub *I. squarrosa* L.]

!***I. hirta*** L. - BAR

I. montana L. - SAVI; CAR

!***I. conyza*** DC.

!!***I. viscosa*** (L.) Aiton - MT

[*I. germanica* L.] Ac - SAVI; VCR. Known only from SAVI's record, doubtful or extinct.

Pulicaria Gaertn.

P. sicula Mor. - CAR

!!***P. dysenterica*** (L.) Bernh.

P. odora (L.) Reichenb. - CAR

Pallenis Cass.

!!***P. spinosa*** (L.) Cass. - CAR [sub *Asteriscus spinosus* Gren. et Godr.]

Bidens L.

[*B. frondosa* L.] Cs - CAR; VCR

Helianthus L.

!**[H. tuberosus L.]** Cs

Xanthium L.

!**[X. spinosum L.]** An - CAR; VCR

Santolina L.

!!**S. marchii Arrigoni** - SAVI [sub *S. chamaecyparissus* L.]; CP I
[*S. chamaecyparissus* L.] - SAVI (cf. sub *S. marchii*)

Anthemis L.

!!**A. arvensis L. subsp. arvensis** - CAR

A. altissima L. - CAR [sub *A. cota* L.]

!**A. tinctoria L.** - SAVI; CAR

Achillea L.

A. ligustica All. - CAR

!**A. millefolium L.** - SAVI

Matricaria L.

!!**M. chamomilla L.** - CP I; PC [sub *Chamomilla recutita* (L.) Rauschert]

Chrysanthemum L.

!**C. segetum L.** - CAR

Coleostephus Cass.

!!**C. myconis (L.) Cass.**

Leucanthemum Miller

!**L. vulgare Lam.** - SAVI [sub *Matricaria leucanthemum*]; CAR

L. ceratophylloides (All.) Nym. subsp. *ceratophylloides* - CAR [sub *L. montanum* DC.]

Tanacetum L.

!!**T. parthenium (L.) Sch- Bip.** - CAR [sub *Pyrethrum parthenium* Smith];
CP I; CP II [sub *Tanacetum parthenium* (L.) Schulz Bip.]

T. corymbosum (L.) Sch-Bip. - SAVI [sub *Matricaria corymbosa*]; PUCC
[sub *Pyrethrum achilleae* DC.]; CAR [*idem*]

T. vulgare L. - SAVI II; SAVI; CAR

Artemisia L.

!!**A. vulgaris L.** - CP I

!**[A. verlotorum Lamotte]** Cs - VCR

[*A. abrotanum* L.] Cs - SAVI; VCR

!!**A. alba Turra** - POS [etiam sub *A. camphorata* Vill.]

Tussilago L.

!!**T. farfara L.** - PUCC; CP I

Petasites Miller

- !!***P. hybridus*** (L.) P. Gaertn., B. Meyer et Scherb. - CAR [sub *P. officinalis* Moench]; PC
 !!***P. fragrans*** (Vill.) C. Presl - CP I
Senecio L.
 !!***S. nemorensis*** L. - PUCC; CAR
 !!***S. erraticus*** Bertol. - BS; CP II
 !!***S. vulgaris*** L.
Calendula L.
 !!***C. officinalis*** L.] Cs - PUCC; CAR; MF
 !!***C. arvensis*** L. subsp. *arvensis*
Arctium L.
 !!***A. lappa*** L. - PC
Stachelina L.
 !!***S. dubia*** L. - PUCC; CAR
Carduus L.
 !!***C. nutans*** L. subsp. *macrolepis* (Peterm.) Kazmi - CAR
 !!***C. pycnocephalus*** L.
Cirsium Miller
 !!***C. italicum*** (Savi) DC.
 !!***C. vulgare*** (Savi) Ten.
 !!***C. arvense*** (L.) Scop.
C. creticum (Lam.) D'Urv. subsp. *creticum* - BAR [sub *C. polyanthemum* DC.]
Cynara L.
 !!***C. cardunculus*** L. subsp. *scolymus* (L.) Hayek] Cultivated - PC [sub *C. scolymus* L.]
Galactites Moench
 !!***G. tomentosa*** Moench - BS; PUCC; CAR; POS
Crupina Pers.
C. vulgaris Cass. - PUCC; CAR
 !!***C. crupinastrum*** (Moris) Vis. - CAR; BAR; POS
Serratula L.
 !!***S. tinctoria*** L. - TM
Centaurea L.
C. paniculata L. - PUCC
C. maculosa Lam. - CAR This species is recorded in Tuscany very doubtfully
 !!***C. deusta*** Ten. subsp. *deusta* - PUCC [sub *C. splendens* L.]; CAR [sub

C. alba var. *deusta* DC.]

!*C. bracteata* Scop.

C. jacea L. - SAVI; CAR [sub *C. amara* L.]

C. calcitrapa L. - BAR [sub *C. calcitrapa* L. var. *myacantha* DC.]

!*C. cyanus* L.

!!*C. solstitialis* L. subsp. *solstitialis* - BS

Carthamus L.

!*C. lanatus* L.

Xeranthemum L.

[*X. annuum* L.] Cs - PUCC [sub *X. radiatum* Lam.]; CAR [*idem*]; FIORI, 1923-1929; VCR

Carlina L.

!!*C. corymbosa* L. - CAR

!*C. vulgaris* L. - SAVI; CAR

!*C. acaulis* L. - BAR

Scolymus L.

!*S. hispanicus* L.

Cichorium L.

!!*C. intybus* L. - CP I; CP II; PC

Lapsana L.

!!*L. communis* L. - SAVI; CAR; CP II

Tolpis Adanson

!*T. umbellata* Bertol. - CAR; BAR

!*T. virgata* (Desf.) Bertol. subsp. *virgata* - SAVI II; CAR

Hyoseris L.

!!*H. radiata* L. - SAVI; PUCC; CAR; MF

Arnoseris Gaertner

A. minima (L.) Schw. et Koerte - CAR [sub *A. pusilla* Gaertn.]

Rhagadiolus Scop.

!!*R. stellatus* (L.) Willd. - SAVI [sub *Lapsana stellata* L.]; SAVI II; CAR

R. edulis Gaertner - PUCC

Tragopogon L.

!!*T. pratensis* L. subsp. *pratensis* - CP II

T. dubius Scop. - CAR [sub *T. majus* Jacq.]

!*T. porrifolius* L. - SAVI; CAR

Hypochoeris L.

!!*H. radicata* L. - CP II

H. maculata L. - CAR

!!**H. achyrophorus** L. - CAR [sub *Seriola aethnensis* L.]; BERUTI, 1961 [sub *Hypochoeris aethnensis* L.]; POS [*idem*]

Urospermum Scop.

!!**U. picroides** (L.) Scop. ex F.W. Schmidt - PUCC; CAR; POS

!!**U. dalechampii** (L.) Scop. ex F.W. Schmidt - SAVI [sub *Tragopogon dalechampii* L.]; CP II

Leontodon L.

L. leysseri (Walbr.) Beck - CAR [sub *Thrinicia hirta* Roth]

!!**L. tuberosus** L. - SAVI [sub *Hyoseris tuberosa* Savi]; CAR [sub *Thrinicia tuberosa* DC.]; BS [*idem*]; CP II

Picris L.

!!**P. hieracioides** L. - PC

!!**P. echioides** L. - CP I; CP II; PC [sub *Helminthia echioides* (L.) Gaertner]

Andryala L.

A. sinuata L. - CAR

Taraxacum Weber

!!**T. officinale** Weber - PUCC [sub *Leontodon laevigatum* Willd.]; CAR; CP II; PC

Sonchus L.

!!**S. asper** (L.) Hill subsp. *asper*

!!**S. oleraceus** L. - CP II

S. tenerrimus L. - PUCC; CAR; POS

Lactuca L.

!**L. serriola** L.

L. saligna L. - BAR

L. perennis L. - PUCC; CAR

Mycelis Cass.

!**M. muralis** (L.) Dumort. - PUCC [sub *Prenanthes muralis* L.]; CAR [sub *Lactuca muralis* Fresen]

Reichardia Roth

!!**R. picroides** (L.) Roth - SAVI [sub *Sonchus picroides*]; CAR [sub *Picridium vulgare* Desf.]; POS; CP II

Aetheorrhiza Cass.

!**A. bulbosa** (L.) Cass. - PUCC; CAR [sub *Crepis bulbosa* Froel.]; POS [*idem*]

Crepis L.

!!**C. leontodontoides** All. - SAVI II; CAR

[*C. tectorum* L.] - SAVI (According to PIGNATTI, 1982 this species doesn't belong to Flora of Tuscany, see also under *C. neglecta*)

- C. foetida* L. - SAVI [sub *Picris foetida* (L.) Savi]; CAR
C. biennis L. - SAVI II
!C. zacintha (L.) Babcock - SAVI [sub *Lapsana zacintha* L.]; PUCC [sub *Zacintha verrucosa* Gaertn.]; CAR [*idem*]
C. capillaris (L.) Wallr. - SAVI [sub *C. virens* L.]
C. neglecta L. - SAVI [sub *C. tectorum* L., fide CAR]
!C. versicaria L.
Prenanthes L.
!P. purpurea L. - CAR
Hieracium L.
!!H. pilosella L. - SAVI; CAR; PC
H. auricula Lam. et DC. - SAVI; CAR
H. praealtum Vill. - BS; CAR
H. x brachiatum Bertol. - PUCC [sub *H. bifurcum* M.-Bieb.]; CAR; CAR I; BAR
!!H. sylvaticum Smith - SAVI [sub *H. murorum* L.]; PUCC
H. umbellatum L. - CAR [sub *H. umbellatum* L. var. *lactaris* Froel.]
H. sabaudum L. - PUCC; CAR
H. crinitum Sibth. et Sm. - CAR; BAR

MONOCOTYLEDONES

ALISMATACEAE

Alisma L.

!A. plantago-aquatica L.

Baldellia Parl.

B. ranunculoides (L.) Parl. - CAR [sub *Alisma ranunculoides* L.]

POTAMOGETONACEAE

Potamogeton L.

{*P. gramineus* L.} - SAVI

!!P. oblongus Viv. - TM

P. pusillus L. - SAVI [sub *P. gramineus* L. cf. CAR]; CAR

!!P. polygonifolius Pourret - FICINI *et Al.*, 1980; FICINI *et Al.*, 1981

NAJADACEAE

Najas L.

[*N. gracillima* (A. Braun ex Engelm.) Magnus] An - VCR

LILIACEAE

Asphodelus L.

A. fistulosus L. - SAVI; CAR

Anthericum L.

!!**A. liliago** L. - CAR [sub *Phalangium liliago* Schreb.]; BAR [*idem*]

Tulipa L.

All the species of this genus, with the only exception of *T. sylvestris* have to be considered as aliens, because they results as regression of cultivated and escaped plants.

!!**T. sylvestris** L. - PUCC; CAR

[*T. saxatilis* Sieb.] Cs - CAR [sub *T. beccariana* Bicchi]

!![**T. maleolens** Reboul] Cs - PUCC; CAR

[*T. praecox* Ten.] Cs - PUCC; CAR

[*T. gesneriana* L.] Cs - PUCC [sub *T. spathulata* Bertol.]; CAR; VCR

!![**T. clusiana** DC.] Cs - PUCC; CAR; VCR

Erythronium L.

!!**E. dens-canis** L. - SAVI; SAVI II; CAR; CESCA, 1961

Lilium L.

!!**L. bulbiferum** L. subsp. **croceum** (Chaix) Baker - SAVI; CAR

!![**L. candidum** L.] Cs. Never seen in wilderness even if once upon a time very diffused - PUCC; CAR

Scilla L.

!![**S. hyacinthoides** L.] Cs - CAR

!!**S. bifolia** L. - SAVI II; PUCC; CAR

!!**S. autumnalis** L. - PUCC; CAR

Endymion Dumort.

!![**E. hispanicum** (Miller) Fourn.] Cs - CAR [sub *E. campanulatum* Parl.]; VCR [sub *Hyacinthoides hispanica* (Miller) Rothm.]

Urginea Steinh.

U. maritima (L.) Baker - CAR [sub *U. scilla* Steinh.]

Ornithogalum L.

!!**O. cf. umbellatum** L. - CAR; TORNADORE and GARBARI, 1971; 1979

{*O. collinum* Guss.} - CAR; BAR [*idem*]

!!**O. exscapum** Ten. - CAR

!!**O. narbonense** L. - CAR

!!**O. pyrenaicum** L. - PUCC; CAR

Hyacinthus L.

!![**H. orientalis** L.] Cs - PUCC; VCR

Bellevalia Lapeyr.

!!***B. romana*** (L.) Sweet

Muscari Miller

!!***M. atlanticum*** Boiss. et Reuter

!!***M. botryoides*** (L.) Miller - PUCC; GARBARI, 1966; 1984

Leopoldia Parl.

!!***L. comosa*** (L.) Parl. - GARBARI, 1966 [sub *Muscari comosum* Mill.]; GARBARI, 1973

Allium L.

!![***A. sativum*** L.] Cs - CP I; PC

!!***A. sphaerocephalon*** L. - PUCC; CAR; CELA RENZONI and GARBARI, 1971

!***A. vineale*** L.

!!***A. ampeloprasum*** L. - CP II

!!***A. cirrhosum*** Vandelli - SAVI [sub *A. carinatum* L. (fide CAR) and *A. paniculatum* L.]; CAR [sub *A. pulchellum* Don and var. *bulbilliferum*]; CELA RENZONI and GARBARI, 1971 [sub *A. pulchellum* G. Don]

!***A. dentiferum*** Webb et Berth. - SAVI [sub *A. paniculatum*]. The name replaces *A. paniculatum*, a species probably not native in the Mediterranean area according to BRULLO *et Al.*, 1989

{*A. carinatum* L.} - SAVI (cf. sub *A. cirrhosum*)

{*A. paniculatum* L.} - SAVI (cf. sub *A. dentiferum*)

!![***A. cepa*** L.] Cultivated - CP I

!!***A. nigrum*** L.

!!***A. neapolitanum*** Cyr.

!!***A. roseum*** L. - CAR [sub *A. roseum* L. var. *bulbilliferum*]

!***A. subhirsutum*** L. - POS

!!***A. triquetrum*** L. - SAVI; SAVI II; PUCC; CAR; BAR; CELA RENZONI and GARBARI, 1970

!***A. ursinum*** L. subsp. *ucrainicum* Kleopow et Oxner - CAR

A. chamaemoly L. - CAR; BAR

Asparagus L.

A. tenuifolius Lam. - CAR

!***A. acutifolius*** L. - CAR; POS; MT

Ruscus L.

!***R. aculeatus*** L. - SAVI; CAR; MT

!!****R. hypoglossum*** L.

Smilax L.

!!***S. aspera*** L. - SAVI; CAR [sub *S. aspera* var. *altissima* Moris et De Not.]

Ipheion Rafin.

!!**[*I. uniflorum* (R.C. Graham) Rafin.]** Cs

AGAVACEAE

Yucca L.

!!**[*Y. aloifolia*]** Cs - VCR

Agave L.

!***A. americana* L.** - BAR

AMARYLLIDACEAE

Sternbergia Waldst. et Kit.

S. lutea (L.) Ker-Gawl. - SAVI [sub *Amaryllis lutea* L.]; CAR

Leucojum L.

!***L. vernum* L.** - SAVI; SAVI II; CAR

Galanthus L.

!!***G. nivalis* L.** - SAVI II; PUCC; CAR

Narcissus L.

!!**[*N. pseudonarcissus* L.]** Cs, widely naturalized mostly in the var. *flore-plenus* - SAVI; CAR [sub *Ajax pseudonarcissus* Haw.]

!!**[*Narcissus odorus* L.]** Cs - PUCC; CAR [sub *Ajax odorus* Caruel]; VCR

!!**[*N. jonquilla* L.]** Cs - PUCC; CAR; VCR

!!***N. tazetta* L. subsp. *tazetta*** - CAR [etiam sub *N. patulus* Lois., *N. elatus* Guss., *N. canaliculatus* Guss., *N. vergellensis* Parl., *N. bicchianus* Parl., *N. papyraceus* Ker-Gawl.]

N. tazetta L. subsp. *bertolonii* (Parl.) Baker - PUCC; CAR [sub *N. bertolonii* Parl., *N. aureus* Lois., *Narcissus puccinellii* Parl.]

!!***N. radiiflorus* Salisb.**

!!***N. poeticus* L.** - SAVI; PUCC; CAR; DPT

!!**[*N. incomparabilis* Miller]** Cs - PUCC; CAR [sub *Ajax incomparabilis* Caruel]; VCR

!!***N. biflorus* Curtis** - PUCC; CAR

DIOSCOREACEAE

Tamus L.

!!***T. communis* L.** - SAVI; CAR [sub *T. communis* L. var. *subtriloba* Guss.]

IRIDACEAE

Hermodactylus Miller

!!***H. tuberosus* (L.) Miller** - PUCC [sub *Iris tuberosa* L.]; CAR

Iris L.

!!*I. chamaeiris* Bertol. - PUCC [sub *I. pumila* L.]; CAR [sub *I. olbiensis* Hen. et *I. chamaeiris* Bertol.]; COLASANTE, 1983 [sub *I. lutescens* Lam. s.l.]

!!*I. germanica* L.

!!*I. florentina* Mill. - SAVI [sub *I. alba* Savi]; CAR

!*I. pallida* Lam. - SAVI; CAR .

!*I. pseudoacorus* L.

!!*I. foetidissima* L.

Crocus L.

!!*C. napolitanus* Mord. et Loisel. - SAVI [sub *C. sativus* L.]

!!*C. albiflorus* Kit. ex Schultes - CESCO, 1961 [sub *C. vernus*]; MF [*C. sativus* L.] - SAVI (cf. sub *C. napolitanus*)

!!*C. biflorus* Miller - PUCC; CAR [sub *C. biflorus* var. *lineatus* (Jan.) Caruel]

Romulea Maratti

R. bulbocodium (L.) Seb. et Mauri - SAVI [sub *Ixia bulbocodium* L.]; SAVI II [*idem*]; PUCC; CAR

!!*R. columnae* Seb. et Mauri - PUCC; CAR

Gladiolus L.

!!*G. italicus* Miller

JUNCACEAE

Juncus L.

J. conglomeratus L. - SAVI

!!*J. effusus* L. - TM

J. inflexus L. - BAR [sub *J. glaucus* Ehrh.]

J. depauperatus Ten. - CAR; BAR

!!*J. subnodulosus* Schrank - CAR [sub *J. obtusiflorus* Ehrh.]; TM

!!*J. bulbosus* L. - CAR [sub *J. supinus* Moench]; FICINI *et Al.*, 1980

!*J. articulatus* L. *sensu stricto*

J. capitatus Weigel - CAR

J. acutiflorus Ehrh. - CAR [sub *J. sylvaticus* Reich.]

Luzula Lam. et DC.

L. pedemontana Boiss. et Reuter - CAR

L. forsteri (Sm.) DC. in Lam. et DC. - SAVI [sub *Juncus nemorosus*]; CAR

L. pilosa (L.) Willd. - SAVI II [sub *Juncus pilosus* L.]; PUCC; CAR [sub *L. vernalis* DC.]

!!*L. nivea* (L.) Lam. et DC. - SAVI II [sub *Juncus niveus* L.]; CAR

!!*L. campestris* (L.) DC. in Lam. et DC. - SAVI [sub *Juncus campestris*

L.] CAR

!L. *multiflora* Ehrh. - CAR [sub *L. erecta* Desv.]

GRAMINEAE

Cynosurus L.

!C. *cristatus* L.

!!C. *echinatus* L. - POS

Briza L.

!!B. *maxima* L. - POS

!!B. *media* L. - SAVI; CAR

!!B. *minor* L.

Dactylis L.

!!D. *hispanica* Roth

!!D. *glomerata* L. - POS

Poa L.

!P. *annua* L.

!P. *compressa* L. - SAVI

!P. *trivialis* L.

!!P. *bulbosa* L. - SAVI; CAR [sub *P. bulbosa* L. var. *vivipara* Auct.]

!P. *pratensis* L. - SAVI [sub *P. angustifolia* L.]

Vulpia Gmelin

!!V. *geniculata* (L.) Link

!V. *ligustica* (All.) Link

!!V. *ciliata* (Danth.) Link - POS

V. myuros (L.) Gmelin - SAVI [sub *Festuca myuros* L.]

Festuca L.

F. rubra L. - SAVI

{*F. ovina* L.} - SAVI (cf. sub *F. robustifolia*)

F. gigantea Vill. - PUCC [sub *Bromus giganteus* L.]; CAR

!!F. *pratensis* Hudson - PUCC [sub *F. elatior* L.]; CAR [*idem*]

!F. *arundinacea* Schreber - PUCC; CAR

F. spectabilis Jan. - CAR I; BAR

F. heterophylla Lam. - CAR

!!F. *robustifolia* Mgf.- Dbg - SAVI [sub *F. ovina* L., cf. CAR]; CAR [sub

F. duriuscula L.]

!!F. *circummediterranea* Patzke

Nardurus L.

N. halleri (Viv.) Fiori - SAVI II [sub *Triticum festucoides* Bertol.]; PUCC [*idem*]; CAR [sub *Catapodium halleri* Gris. var. *tenuiculum* Gris.]

Catapodium Link

!!**C. rigidum** (L.) Hubbard

Sesleria Scop.

S. autumnalis (Scop.) F. Schultz - SAVI II [sub *S. argentea* Savi]; CAR [sub *S. elongata* Host var. *cylindrica* Lois.]; UJHELYI, 1959

[*S. cylindrica* (Balbis) DC.] - CAR [sub *S. elongata* Host var. *cylindrica* Lois.] (cf. UJHELYI, 1959)

Melica L.

!!**M. ciliata** L. - SAVI; CAR

M. bahuinii All. - SAVI II; CAR

!**M. uniflora** Retz. - SAVI; PUCC; CAR

M. nutans L. - SAVI; CAR

!!**M. arrecta** O. Kuntze - CAR [sub *M. minuta* L. var. *latifolia* Coss.]

Psilurus Trin.

!**P. incurvus** (Gouan) Schinz. et Thell. - CAR [sub *P. nardoides* Trin.]

Lolium L.

!**L. perenne** L.

!**L. temulentum** L.

!!**L. rigidum** Gaudin

!**L. multiflorum** Lam.

Bromus L.

B. erectus Hudson - SAVI [sub *Festuca montana* Savi]; PUCC; CAR

!!**B. benekenii** Lange - PUCC [sub *B. asper* L. fil.]; CAR [*idem*]

!**B. rubens** L.

!**B. sterilis** L.

!!**B. madritensis** L.

!**B. rigidus** Roth

!**B. gussonei** Parl.

!**B. intermedius** Guss.

!**B. arvensis** L.

B. squarrosus L. - SAVI

!!**B. hordeaceus** L.

Brachypodium Beauv.

!!**B. sylvaticum** (Huds.) Beauv. - CAR

!!**B. ramosum** (L.) Roem. et Schultz - PUCC [sub *Festuca phoenicoides* L.]; CAR

B. pinnatum (L.) Beauv. - PUCC [sub *Bromus pinnatus* L.]; CAR

B. distachyum (L.) Beauv. - PUCC [sub *Festuca distachya* Willd.]; CAR

Hordeum L.

!**H. bulbosum** L.

!!**H. murinum** L.

Agropyron Gaertner

A. caninum (L.) Beauv. - PUCC [sub *Triticum caninum* L.]; CAR [*idem*]

!**A. repens** (L.) Beauv.

Dasypirum (Cass. et Dur.) Dur.

!!**D. villosum** (L.) Borbas

Triticum L.

!!**[T. aestivum** L.] Cs - PC; VCR

Aegilops L.

!!**A. geniculata** Roth subsp. *geniculata* - SAVI [sub *A. ovata* L.]; POS [*idem*]

Aegilops neglecta Req. - CAR [sub *A. triaristata* Willd.]

Avena L.

!!**A. barbata** Potter - POS [sub *A. fatua* L. var. *barbata* (Brot.)]

!!**A. fatua** L.

A. sterilis L. - PUCC

Arrhenatherum Beauv.

A. elatius (L.) Beauv. ex J. et C. Presl - SAVI [sub *Avena elatior* L.]; CAR [sub *A. avenaceum* Roem. et Schult. var. *nodosum* Parl.]

Danthonia DC.

D. alpina Vest. - SAVI II [sub *Avena spicata* var. *calycina*]; CAR [sub *D. provincialis* DC.]

!!**D. decumbens** (L.) DC. in Lam. et DC. - SAVI [sub *Poa decumbens* L.]; PUCC [sub *Triodia decumbens* Roem. et Schult.]; CAR; TM

Gaudinia Beauv.

!!**G. fragilis** (L.) Beauv.

Holcus L.

!!**H. lanatus** L.

Koeleria Pers.

K. splendens C. Presl - SAVI [sub *Poa cristata* L.]; CAR [sub *K. grandiflora* Bert. in Schultz]

Lophochloa Reichenb.

!**L. cristata** (L.) Hyl.

!!**L. hispida** (Savi) Pign. - SAVI [sub *Festuca hispida* Savi]; CAR [sub *Koeleria hispida* DC.]

Trisetum Pers.

T. flavescens (L.) Beauv. - SAVI [sub *Avena flavescens* L.]; CAR

Trisetaria Försskal

!!***T. parviflora* Pers.**

Agrostis L.

{*A. alpina* L.} - SAVI (cf. sub *A. canina*)

A. canina L. - SAVI [sub *A. alpina*]; CAR

!***A. stolonifera* L.**

A. castellana Boiss. et Reuter - CAR II [sub *A. olivetorum* Gren. et Godr.];
BAR [*idem*]

A. tenuis Sibth. - CAR [sub *A. vulgaris* With. var. *pumila* Parl.]

Gastridium Beauv.

G. ventricosum (Gowan) Schinz et Thell. - SAVI [sub *Agrostis panicea* L.]; CAR [sub *G. australe* Pal.]

Periballia Trin.

!!***P. minuta* (L.) Asch. et Graebn.**

Aira L.

A. caryophyllea L. - SAVI; CAR

!!***A. elegans* Willd.** - SAVI [sub *A. capillaris* Savi]; CAR [sub *A. capillaris* Host. var. *cupaniana* (Guss.) Caruel]

Deschampsia Beauv.

D. caespitosa (L.) Beauv. - SAVI II [sub *Aira caespitosa* L.]

D. media (Gouan) Roemer et Schultes - CAR

Avenella Parl.

!***A. flexuosa* (L.) Parl.** - PUCC [sub *Aira flexuosa* L.]; CAR [sub *Deschampsia flexuosa* Trin.]

Molinia Schrank

!!***M. coerulea* (L.) Moench** - TM

Phragmites Adanson

!***P. australis* (Cav.) Trin.**

Arundo L.

!!**[*A. donax* L.]** Cs - PC; VCR

Cleistogenes Keng

C. serotina (L.) Keng - BS [sub *Festuca serotina* L.]; PUCC [*idem*]; CAR [sub *Molinia serotina* Mert. et Koch]

Phalaris L.

!***P. paradoxa* L.**

!***P. brachystachys* Link**

Typhoides Moench

!***T. arundinacea* (L.) Moench**

Anthoxanthum L.

!A. **odoratum** L. - SAVI

Alopecurus L.

!A. **utriculatus** Pers.

!!A. **pratensis** L.

!A. **myosuroides** Hudson

Phleum L.

!P. **subulatum** (Savi) Asch. et Graebn. - SAVI [sub *Phalaris subulata* Savi]; SAVI II [*idem*]

P. hirsutum Hankeny - SAVI [sub *Phalaris phleoides* L.]; CAR [sub *P. michelii* All.]

P. paniculatum Hudson - SAVI [sub *Phalaris aspera* L.]; CAR [sub *P. asperum* Jacq.]

!P. **pratense** L. - SAVI

Stipa L.

S. bromoides (L.) Doerfler - SAVI II [sub *Agrostis bromoides* L.]; PUCC [sub *Aristella bromoides* L.]; CAR [sub *Stipa aristella* L.]

Oryzopsis Michx.

O. miliacea (L.) Asch. et Schweinf. - CAR [sub *Milium multiflorum* Cav.]

O. coerulescens (Desf.) Richter - SAVI II [sub *Milium coerulescens* Desf.]; BS [*idem*]; CAR [*idem*]

Nardus L.

!N. **stricta** L. - SAVI; SAVI II; CAR

Eragrostis Host

E. pilosa (L.) Beauv. - SAVI [sub *Poa eragrostis* L.]

!!E. **megastachya** (Koeler) Link

Eleusine Gaertner

!E. **indica** (L.) Gaertner

Cynodon Rich.

!!C. **dactylon** (L.) Pers. - CP I; PC

Oryza L.

[*O. sativa* L.] Cult - CP I; PC

Echinochloa Beauv.

!E. **crus-galli** (L.) Beauv.

Digitaria Haller

!D. **sanguinalis** (L.) Scop.

D. ischaemum (Schreber) Mulh. - CAR [sub *D. filiformis* Koel.]

D. debilis Willd. - CAR

Paspalum L.[*P. dilatatum* Poir.] Cs - VCR!![*P. quadrifarium* Lam.] Ac - GARBARI, 1966c; VCR*Setaria* Beauv.!*S. glauca* (L.) Beauv.!*S. viridis* (L.) Beauv.!*S. ambigua* Guss.!*S. verticillata* (L.) Beauv.*Imperata* Cyr.*I. cylindrica* (L.) Beauv. - CAR [sub *I. arundinacea* Cyr.]*Sorghum* Moench!!*S. halepense* (L.) Pers.] Cs - BAR [sub *S. halepense* var. *pubescens* Vis.];

VCR

!!*S. bicolor* (L.) Moench] Cs*Botriochloa* Kuntze!!*B. ischaemon* (L.) Keng*Cymbopogon* Sprengel*C. hirtus* (L.) Janchen - SAVI II [sub *Andropogon hirtus* L.]; CAR [sub *Andropogon hirtus* Vis.]*Zea* L.!![*Z. mays* L.] cultivated - CP I; PC*Bambusa* Schreber!!*Bambusa mitis* Poir.] Cs

ARACEAE

Arum L.!!*A. italicum* Miller - PC*Dracunculus* Miller*D. vulgaris* Schott - SAVI II [sub *Arum dracunculus* L.]; CAR*Arisarum* Miller!!*A. vulgare* Targ.-Tozz - SAVI [sub *Arum arisarum* L.]; SAVI II; CAR; POS; MF; GARBARI, 1966b; GARBARI, 1967!!*A. proboscideum* L. Savi - GARBARI, 1966b

SPARGANIACEAE

Sparganium L.*S. erectum* L.*S. emersum* Rehm. - CAR [sub *S. simplex* Huds.]

TYPHACEAE

Typha L.**!Typha latifolia** L.

CYPERACEAE

Carex L.*C. distachya* Desf. - PUCC [sub *C. gynomanae* Bertol.]; CAR**!C. contigua** Hoppe - BAR [sub *C. echinata* Murray]**!!C. pairei** F. Schultz - TM*C. divulsa* Stokes in With subsp. *divulsa* - CAR [sub *C. muricata* L. var. *divulsa* Wahlemb.]*C. divisa* Hudson - BAR [sub *C. divisa* Huds. var. *setifolia* (Godr.)][*C. stellulata* Good.] - BAR [sub *C. echinata* Murray] - cf. sub *C. contigua**C. remota* L. - SAVI II; CAR**!!C. gracilis** Curtis**!C. caryophyllea** Latour - CAR [sub *C. praecox* Jacq.]*C. grioletii* Roemer in Schkuhr - CAR*C. hallerana* Asso - CAR*C. digitata* L. - CAR**!!C. olbiensis** Jordan - CAR; BAR**!C. sylvatica** Huds.*C. pallescens* L. - CAR**!!C. liparocarpos** Gaudin - CAR [sub *C. nitida* Host.]*C. punctata* Gaudin - CAR**!!C. distans** L. - TM**!C. flava** L. - PUCC; CAR; BAR**!!C. pendula** Hudson - BAR*C. vesicaria* L. - CAR*C. acutiformis* Ehrh. - BAR [sub *C. paludosa* Good.]**!!C. flacca** Schreber subsp. *flacca***!C. hirta** L.*Isolepis* R. Br.*I. cernua* (Vahl) Roem. et Schult. - PUCC; CAR [sub *Scirpus savii* Seb. et Maur.]*I. setacea* (L.) R. Br. - CAR [sub *Scirpus setaceus* L.]*Eleocharis* R. Br. CAR [sub *Heleocharis*]**!!E. acicularis** (L.) Roemer et Schultes - CAR; TM; FICINI *et Al.*, 1980*E. multicaulis* (Sm.) Desv. - BAR*E. palustris* (L.) Roem. et Schultes - CAR

Schoenus L.

!!**S. nigricans** L. - PUCC; CAR; TM; TOMEI and GARBARI, 1979

Rynchospora Vahl

!!**R. alba** (L.) Vahl - TM; TOMEI and GARBARI, 1979

Cyperus L.

!**C. longus** L.

C. rotundus L. - CAR

!**C. glaber** L.

C. serotinus Rothb. - CAR

C. flavescens L. - BAR

ORCHIDACEAE

This family is arranged according to DEL PRETE and TOSI, 1988

Ophrys L.

!!**O. vernixia** Brot. subsp. **ciliata** (Biv.-Bern.) Del Prete - DPC [sub *O. speculum* Link]

!!**O. sphegodes** Miller - PUCC [sub *O. aranifera*]; DEL PRETE and GIORDANI, 1978 [etiam sub subsp. *litigiosa* (E.G. Cam.) Becherer]; DPC [*idem* et sub subsp. *jeanpertii*]

!!**O. garganica** (E. Nelson) O. et E. Danesch - DPC [sub *O. sphegodes* subsp. *garganica*]

!!**O. holoserica** (N.L. Burm.) W. Greuter subsp. **holoserica** - SAVI [sub *O. arachnites* L.]; CAR [sub *O. arachnites* Host]; DPC [sub *O. fuciflora*]

!!**O. tenthredinifera** Willd. - DPC

!!**O. apifera** Huds. subsp. **apifera** - CAR; DPC

!!**O. bombyliflora** Link - PUCC [sub *O. hiulca* Mauri]; CAR; DPC

!!**O. exaltata** Ten. subsp. **tyrrhena** (Gözl et Reinh.) Del Prete - SAVI [sub *O. arachnites* var. β]; DEL PRETE and GIORDANI, 1978 [sub *O. arachnitiformis* Gren. et Phil.]; DPC [*idem*]

!!**O. saratoi** E.G. Cam.

Serapias L.

!!**S. vomeracea** (N.L. Burm.) Briq - CAR [sub *S. pseudocordigera* Moric.]; DEL PRETE, 1977; DPC

!!**S. neglecta** De Not. - PUCC [sub *S. cordigera* L.]; CAR; DPC

!!**S. cordigera** L. - SAVI [sub *S. lingua* L. var. β]; DPC

!!**S. parviflora** Parl. - DEL PRETE, 1977; DPC

!!**S. lingua** L. - SAVI; PUCC; CAR; DPC

Anacamptis L.C.M. Rich.

!!**A. pyramidalis** (L.) L.C.M. Rich. - DPC

Aceras R. Br. ex Aiton fil.

!!A. anthropophorum (L.) R. Br. ex Aiton fil. - CAR; DPC

Orchis L.

!!O. papilionacea L. subsp. papilionacea - SAVI II; PUCC; CAR; DPC

!!O. morio L. subsp. morio - PUCC; CAR; DPC

!!O. mascula (L.) L. subsp. mascula - CAR; DPC

!!O. provincialis Balbis ex Lam. et DC. - SAVI [sub *O. pallens* L.]; SAVI II; PUCC; CAR; DPC

{*O. pallens* L.}

!!O. pauciflora Ten. - PUCC [sub *O. provincialis* var. α]; CAR; BAR [sub *O. provincialis* var. *pauciflora*]; DPC

!!O. laxiflora Lam. - CAR; DPC

!!O. palustris Jacq. - ARCANGELI, 1882; BAR [sub *O. laxiflora* var. *palustris*]; DPC

{*O. coriophora* L.} - CAR

!!O. fragrans Pollini - CAR [sub *O. coriophora* L.]; DPC

!!O. tridentata Scop. - SAVI II [sub *O. globosa* L.]; CAR; DEL PRETE and GIORDANI, 1978; DPC

!!O. simia Lam. - PUCC [sub *O. tephrosanthos* Willd.]; CAR [*idem*]; CAR I [*idem*]; BAR [*idem*]; DPC

O. purpurea Huds. - SAVI II [sub *O. fusca* Willd.]

!!O. x gennari Reichenb.

Neotinea Reichenb.

!!N. maculata (Desf.) Stearn - SAVI II [sub *O. secundiflora* Bertol.]; PUCC [*idem*]; CAR [sub *Himantoglossum secundiflorum* Reichenb.]; DPC

Traunsteinera Reichenb.

{*T. globosa*} SAVI II [sub *Orchis globosa* L.] cf. sub *Orchis tridentata*

Dactylorhiza Necker ex Nevski

!!D. fuchsii (Druce) Soó subsp. fuchsii - SAVI II [sub *Orchis maculata* L.]; PUCC [*idem*]; CAR [*idem*]; CESCA, 1961 [*idem*]; DPC [sub *D. maculata* (L.) Soó]

{*D. maculata* (L.) Soó s. s.} - SAVI II [sub *Orchis maculata* L.]; PUCC [*idem*]; CAR [*idem*]; DPC

Gymnadenia R. Br. ex Aiton fil.

!!G. conopea (L.) R. Br. ex Aiton fil. - CAR; DPC

Platanthera L.C.M. Rich.

!!P. bifolia (L.) L.C.M. Rich. - SAVI [sub *Ophrys ovata* L.]; CAR; DPC

!!P. chlorantha (Custer) Reichenb. - CAR; DEL PRETE, 1977; DPC

Spiranthes (Poiret) L.C.M. Rich.

!!S. spiralis (L.) L.C.M. Rich. - CAR [sub *S. autumnalis*]; DPC

!!*S. aestivalis* (Poiret) L.C.M. Rich. - CAR; DPC

Listera R. Br. ex Aiton fil.

!!*L. ovata* (L.) R. Br. ex Aiton fil. - CAR; DPC

Neottia Guettard

!!*N. nidus-avis* (L.) L.C.M. Rich. - CAR; DPC

Limodorum Bohem. in Ludwig

!!*L. abortivum* (L.) Swartz - PUCC; CAR; DPC

Cephalanthera L.C.M. Rich.

!!*C. longifolia* (L.) Fritsch - CAR [sub *C. ensifolia*]; DPC

!!*C. rubra* (L.) L.C.M. Rich. - DPC

!!*C. damasonium* (Miller) Druce - DPC

Epipactis Zinn.

!!*E. helleborine* (L.) Crantz subsp. *helleborine* - PUCC [sub *E. latifolia* All.]; CAR [*idem*]; DPC

!!*E. microphylla* (Ehrh.) Swartz - CAR; DPC

CONCLUDING REMARKS

At present the M. Pisano flora results to be constituted by 872 verified entities. Other 341 specific and subspecific taxa, known from literature, were not collected or verified by the present Authors in recent time. 42 taxa wrongly mentioned or misinterpreted — such as *Poly-stichum aculeatum*, *Thesium linophyllum*, *Cerastium tomentosum*, *C. alpinum*, *Biscutella auriculata*, *Potentilla anglica*, *Cyclamen purpurascens*, *Crepis tectorum*, *Ornithogalum collinum*, *Agrostis alpina*, etc. — have to be definitively rejected from the area. Even if depauperated by human activities, fires, grazing and erosion, Mount Pisano still shows several important geobotanical aspects due to the presence of rare or phytogeographically relevant elements as the following list shows (? indicates entities which need further confirmations; ! means confirmation by the present authors):

Scattered distribution

? *Arnoseris minima*

? *Asplenium obovatum*

! *Aster sedifolius*

! *Biscutella cichoriifolia*

? *Cheilanthes acrostica*

? *Hymenophyllum tunbrigense*

- ? *Hypochoeris maculata*
- ! *Lamiastrum galeobdolon*
- ! *Lysimachia nemorum*
- ! *Ophioglossum azoricum*
- ! *Ophrys saratoi*
- ! *Ophrys vernixia* subsp. *ciliata*
- ? *Orobanche loricata*
- ! *Pinus laricio*
- ! *Prunus mahaleb*
- ? *Rosa seraphini*
- ? *Stellaria graminea*
- ? *Verbascum phoeniceum*

Heterotopic distribution

- ? *Antennaria dioica*

Italian endemics

- ! *Astragalus muelleri*
- ! *Centaurea deusta* subsp. *deusta*
- ? *Deschampsia media*
- ? *Festuca spectabilis*
- ! *Fumana arabica*
- ! *Hypericum mutilum*
- ? *Juncus depauperatus*
- ? *Narcissus bertolonii*
- ! *Polygala flavescens*
- ! *Pulmonaria vallarsae*

Eastern limit of distribution

- ? *Deschampsia media*
- ! *Lophochloa hispida*

Northern limit of distribution

- ? *Lens ervoides*
- ? *Scorpiurus vermiculata*

Southern limit of distribution

- ? *Antennaria dioica*
- ! *Drosera intermedia*
- ! *Drosera rotundifolia*

? *Luzula pedemontana*
! *Gentiana pneumonanthe*

Further investigations are in progress mainly in order to realize the reasons of the gradual floristic impoverishment of the area.

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