



United Nations
Environment
Programme



Distr.
RESTRICTED
UNEP/IG.20/INF.10
2 July 1980
Original: ENGLISH

Intergovernmental Meeting on
Mediterranean Specially
Protected Areas

Athens, 13-17 October 1980

**List of Rare and Threatened Plants
of the States of the Mediterranean Basin**

IN CO-OPERATION WITH:



LIST OF RARE AND THREATENED PLANTS OF THE
STATES OF THE MEDITERRANEAN BASIN

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And in collaboration with

The Commission for Plant Resources
and Conservation of the Organization for
Phyto-taxonomic Research in the
Mediterranean Area (OPTIMA)

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I N T R O D U C T I O N

To conserve plants effectively, governments and non-governmental conservation bodies need to know which plants are in danger and where they still occur. IUCN set up its Threatened Plants Committee in 1974 to provide this information for all the floras of the world.

The first stage is to list the threatened species. This is no small task, but through the generous support of the World Wildlife Fund TPC has developed a programme to undertake major screenings of floras, region by region. At present Europe, North Africa and the Middle East have TPC lists, programmes for tropical Africa, the Caribbean and Central & South America are underway, and programmes for the Pacific and South East Asia are planned. (This complements existing national lists for South Africa, Australia, New Zealand, U.S.A. & U.S.S.R.).

Europe was the first region to be tackled and a succession of lists was produced in 1975, 1976 and 1978. The data is regularly updated as information comes in on taxonomy and conservation status of individual species. The large number of botanists working on the European flora, and the completion of a uniform taxonomic base in the 'Flora Europaea', have made the lists reasonably comprehensive and complete. Only about 500 species remain whose conservation status is still unknown, out of a total flora of 12-15,000 species. In North Africa and the Middle East, however, there are many fewer botanists working on the area and the lack of up-to-date botanical treatments for much of the region, in particular North Africa, made the results so far very incomplete. Nevertheless TPC was able to issue the first tentative lists for the region in January 1980; these have been circulated to as many botanists as possible in the region and it is hoped the comments received back will enable a more complete list to be published later in the year. At present many thousands of species are still listed as candidates with no real data on conservation status. Lengthy lists of them are given in the January report and are available from the TPC Secretariat on request. Sadly no conservation data at all has yet been received for the floras of Tunisia, Syria, Lebanon and Turkey. This is particularly serious for Turkey which has at least 2000 endemic plant species (i.e. species confined to Turkey).

The list presented here was abstracted from the computer file of the data which made up the European and North African reports. As such it is as up-to-date as possible and incorporates changes and modifications for European species made in 1979.

As the table below shows, there are great differences in the diversity of the floras of individual countries. By far the richest flora is that of Turkey. Next are Greece, Morocco and Spain, in that order. The table, then, gives a valuable indication of the conservation priorities at international level. Due, however, to lack of data for the North African and the Middle Eastern countries, the figures for these countries are very tentative and liable to be altered considerably as the picture is built up. In particular the numbers of endemics listed for Tunisia, Libya, Israel, Syria and Lebanon will rise as further parts of their Floras are written. In this respect it is most encouraging to see the work of the team on the new Flora of Libya project.

It is well known that the narrowly endemic species of Europe are overwhelmingly concentrated in the countries of southern Europe bordering on

the Mediterranean Sea. For example Greece has over 670 endemic species of plants compared with 15 in the United Kingdom. These narrowly endemic species are then a major international priority. Many are chasmophytes (plants adapted to growing on cliffs or steep rocky surfaces) or mountain plants, if not both, whose habitats are not in general so urgently or widely threatened as the lowland and coastal habitats, which are considered below. Floristically the Mediterranean basin is a natural unit, emphasized by the strong pan-Mediterranean ruderal element and by the relationships of the endemics. The closest relatives of the rich Moroccan flora, for example, are not in tropical Africa but in the Iberian Peninsula and to a lesser extent in the Canary Islands. As is to be expected, therefore, the conservation action needed is similar for all the countries in the region, and so the resolution on plant conservation adopted by the the Council of Europe is applicable to all the Mediterranean countries. Three aspects of this resolution may be emphasized here:

- (1) The need to "ensure adequate legal protection (i.e. against picking and uprooting) for all plants identified as Endangered ... with provision for licences to be issued for collection purposes".
(The 119 such species for Europe now comprise Appendix I of the Council of Europe's Convention on the Conservation of European Wildlife and Natural Habitats under which they will receive legal protection from picking and uprooting as well as protection of their habitats.)
- (2) The need to "establish nature reserves and designate areas in which vegetation and flora are protected by law ... with the long-term aim of ensuring all species on the list are found in such areas ..."
- (3) The need to "incorporate safeguards in future planning strategies to protect all species on the list, as the major threat to plants is created by changing land use".

The resolution also emphasizes the importance of continuing research into plant taxonomy and plant distributions, and for detailed ecological studies on individual threatened plants. It also stresses the vital importance of data-gathering both at national level, especially for national Red Data Books, and through TPC, at international level to provide the overview essential in stimulating action, highlighting priorities and filling gaps in the national coverage.

The list itself only provides the starting point. With funding from the European Science Foundation, the TPC is now embarking on a project to put together more detailed information on each of the listed European species, in close collaboration with the botanic community. Further support would be required to undertake a similar exercise for the whole Mediterranean region.

In addition, a Botanic Gardens Conservation Co-ordinating Body was set up by the Threatened Plants Committee to act as a focus for collaboration among botanic gardens in their conservation activities. One objective is to find out which species known to be threatened are in which botanic gardens, so as to assist botanic garden managers in planning their collections and in their acquisition policy, and at the same time remove the need for further depredation on wild populations of these species.

The list covers all the threatened plants known to occur within the countries which border on the Mediterranean Sea. Therefore it should include all the threatened species of the Mediterranean coast itself; unfortunately however it is not possible at present to estimate which of these species are in fact coastal, partly because of the fundamental difficulty of defining precisely what is a coastal plant.

Of all the plant habitats in the Mediterranean countries, the coast is most under threat. The rapid growth of tourism, with the associated building of roads and hotels, and the continuing development of industry, have made coastal habitats increasingly rare and in need for formal protection.

Fortunately most of the coastal species in the Mediterranean are not narrowly endemic and may occur both in North Africa and in Europe. The coastal habitats most rich in plants are sand dunes and maritime cliffs. Those endemics of sand dunes are nearly all threatened while those of maritime cliffs are often reduced to critically low populations, and hence at great risk from genetic collapse. Several examples of threatened plants from both types of habitats are given below.

In future TPC hopes to be able to identify some of the most important coastal sites in need of protection. A pilot project to do this for one area in the East Mediterranean is nearing completion and a preliminary report for distribution to specialists has been issued. One particular need is to pinpoint the maritime cliff areas in the Aegean Sea rich in rare and endemic plants, so that if possible the monk seal reserves proposed can include some of these sites. The list of proposed localities for reserves and of the rare and endemic species they contain shows that by protecting relatively few and comparatively small areas, a majority of the important species can be protected. Many are in areas unsuitable for agriculture.

As the data base on sites and localities for all threatened species builds up in TPC's continuing programme, more detailed information on the threatened coastal species will become available. In addition to the report mentioned above, information on such plants has been prepared for Corsica and Malta; the results of this are given below. Following these two sections we reprint the eight sheets from 'The IUCN Plant Red Data Book' (1978) that refer to Mediterranean coastal species and highlight some of the major problems: *Carlina diae*, *Linaria hellenica*, *Myosotis ruscinonensis*, *Naufraga balearica*, *Palaeocyanus crassifolius*, *Phoenix theophrasti*, *Primula palinuri*, *Silene holzmannii*.

MEDITERRANEAN COUNTRIES
ENDEMIC SPECIES

	EXTINCT	ENDANGERED	VULNERABLE	RARE	INDETER- MINATE	INSUFFICIENTLY KNOWN	NEITHER RARE NOR THREATENED	T O T A L
ALBANIA	0	1	2	11	7	2	2	25
ALGERIA	0	32	22	66	6	9	38	173
CYPRUS	0	11	10	22	5	23	48	119
EGYPT	2	12	6	39	6	4	2	71
FRANCE	3	6	11	34	4	18	23	99
GREECE	3	23	36	339	39	45	209	694
ISRAEL	0	3	1	5	1	5	1	16
ITALY	0	19	27	76	7	21	86	236
LEBANON	-	-	-	-	-	39	-	39
LIBYA	0	2	18	18	5	16	21	80
MALTA	0	0	0	1	0	0	1	2
MOROCCO	0	1	3	163	22	51	293	533
SPAIN	2	18	24	177	4	38	288	551
SYRIA	-	-	-	-	-	80	-	80
TUNISIA	0	0	0	0	0	3	0	3
TURKEY	-	-	-	-	-	-	-	over 2000
YUGOSLAVIA	1	1	5	86	4	20	19	136
TOTALS	11	129	165	1037	110	374	1031	2857*

* Excluding Turkey
Total number of single-country endemic species listed as rare or threatened is 1452.

DEFINITIONS OF THE IUCN RED DATA BOOK CATEGORIES

The following categories are used by IUCN to indicate the degree of threat in individual species.

Extinct (Ex)

Endangered (E)

Taxa in danger of extinction and whose survival is unlikely if the causal factors continue operating

Included are taxa whose numbers have been reduced to a critical level or whose habitats have been so drastically reduced that they are deemed to be in immediate danger of extinction.

Vulnerable (V)

Taxa believed likely to move into the Endangered category in the near future if the causal factors continue operating.

Included are taxa of which most or all the populations are *decreasing* because of over-exploitation, extensive destruction of habitat or other environmental disturbance; taxa with populations that have been seriously *depleted* and whose ultimate security is not yet assured; and taxa with populations that are still abundant but are *under threat* from serious adverse factors throughout their range.

Rare (R)

Taxa with small world populations that are not at present Endangered or Vulnerable, but are at risk.

These taxa are usually localized within restricted geographical areas or habitats or are thinly scattered over a more extensive range.

Indeterminate (I)

Taxa *known* to be Extinct, Endangered, Vulnerable or Rare but where there is not enough information to say which of the four categories is appropriate.

Insufficiently known (K)

Taxa that are suspected but not definitely known to belong to any of the above categories, because of the lack of information.

N.B. In practice, Endangered and Vulnerable categories may include, temporarily, taxa whose populations are beginning to recover as a result of remedial action, but whose recovery is insufficient to justify their transfer to another category.

For species which are neither rare nor threatened, the symbol 'nt' is used.

PREAMBLE TO THE LIST

The list which follows includes all species known to be rare or threatened (IUCN categories Extinct, Endangered, Vulnerable, Rare, Indeterminate - see p. 5) on a regional or world scale. National rarities common elsewhere are omitted.

For species confined to one country - single country endemics - the country name is placed further to the right than with other species. For these other species, the national categories, where known, are placed in brackets after the name of each country in which the plant occurs. Of the two columns, the first gives the regional category, the second the world category. Due to the more developed state of knowledge on threatened plants in Europe than in North Africa, there are a number of species known to be threatened in Europe but whose status in North Africa and the Middle East is unknown at present. These species are included on the list which follows; for each the world category has been left blank and the regional category refers to Europe rather than to the Mediterranean region as a whole; the countries given for these species only cover the European parts of their range.

For European species, an asterisk denotes a departure from 'Flora Europaea', the taxonomic base for the work.

LIST OF RARE AND THREATENED PLANTS OF THE COUNTRIES OF THE MEDITERRANEAN BASIN

		<u>REGIONAL</u> <u>CATEGORY</u>	<u>WORLD</u> <u>CATEGORY</u>
<u>PTERIDOPHYTA</u>			
<u>ASPIDIACEAE</u>			
* <i>Diplazium caudatum</i> (Cav.) Jermy	Spain (E)	E	
<u>ASPLENIACEAE</u>			
<i>Asplenium adulterinum</i> Milde	Yugoslavia (R)	R	R
* <i>Asplenium aegaeum</i> Lovis & al.	Greece (R)	R	
<i>Asplenium bourgaei</i> Milde	Greece (R)	R	
* <i>Asplenium creticum</i> Lovis, Reichst. & Zaffran	Greece	R	R
<i>Asplenium jahandiezii</i> (Litard.) Rouy	France	V	V
<i>Phyllitis hybrida</i> (Milde) Christensen	Yugoslavia	R	R
<u>HYMENOPHYLLACEAE</u>			
<i>Trichomanes speciosum</i> Willd.	France; Spain (I)	V	
<u>ISOETACEAE</u>			
* <i>Isoetes boryana</i> Durieu	France (V); Spain (R)	I	I
* <i>Isoetes bronchii</i> Motelay	France; Spain (V)	V	V
<i>Isoetes heldreichii</i> Wettst.	Greece	I	I
<i>Isoetes malinverniana</i> Ces. & De Not.	Italy	V	V
<i>Isoetes tenuissima</i> Bor.	France	V	V
<u>LYCOPODIACEAE</u>			
<i>Diplazium issleri</i> (Rouy) Holub	France (E); Yugoslavia (R)	V	V
<u>MARSILEACEAE</u>			
<i>Marsilea minuta</i> L.	Algeria (I); Egypt (I) Israel (Ex)	I	
<i>Marsilea quadrifolia</i> L.	Albania; France (V) Italy (V); Spain Yugoslavia (V)	V	
<i>Marsilea strigosa</i> Willd.	France (E); Italy Spain (?)	V	
* <i>Pilularia globulifera</i> L.	France; Italy (E) Spain (V); Yugoslavia (E)	V	V
<i>Pilularia minuta</i> Durieu ex A. Braun	France; Italy Spain (?)	V	
<u>OPHIOGLOSSACEAE</u>			
* <i>Botrychium lanceolatum</i> (S.G.Gmelin) Angstrom	France (E); Italy (V)	V	
* <i>Botrychium matricariifolium</i> A. Braun ex Koch	Albania; France (E) Italy (V); Yugoslavia (R)	V	
<i>Botrychium multifidum</i> (S.G.Gmelin) Rupr.	France (E); Italy (V) Yugoslavia (R)	V	
* <i>Botrychium simplex</i> Hitchc.	France; Italy (V) Yugoslavia (R)	V	
<i>Botrychium virginianum</i> (L.) Swartz	Yugoslavia (R)	V	
<u>PTERIDACEAE</u>			
* <i>Pteris serrulata</i> Forssk.	Spain (E)	E	
<u>THELYPTERIDACEAE</u>			
* <i>Cyclosorus dentatus</i> (Forssk.) Ching	Greece (E); Spain (E)	E	

GYMNOSPERMAE

CUPRESSACEAE

Cupressus atlantica Gaussen	Morocco	I	I
Cupressus dupreziana A.Camus	Algeria	E	E

EPHEDRACEAE

Ephedra ciliata Fischer & C.A.Meyer	Egypt (I)	I	
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PINACEAE

Abies nebrodensis (Lojac.) Mattei	Italy	E	E
Abies numidica de Lannoy	Algeria	V	V
* Abies pinsapo Boiss.	Spain (V)	V	V
Cedrus libani A.Rich.			
ssp. brevifolia (Hook.f.) Meikle	Cyprus	R	R
Picea omorika (Pancic) Purkyne	Yugoslavia	R	R

ANGIOSPERMAE

AIZOACEAE

Glinus runkewitzii Tackh. & Boulos	Egypt	I	I
Mesembryanthemum gausсенii Leredde	Algeria	E	E

ALISMATACEAE

Caldesia parnassifolia (L.) Parl.	France (V); Italy (V) Yugoslavia (Ex)	V	
Damasonium alisma Miller	France; Greece (V) Italy; Malta (E) Spain (nt)	V	
Damasonium minimum Lange	Spain (V)	V	
Luronium natans (L.) Raf.	France (nt); Italy Spain (R); Yugoslavia	V	V

AMARYLLIDACEAE

Galanthus ikariae Baker	Greece	R	R
Galanthus reginae-olgae Orph.	Greece	V	V
Leucojum fontianum Maire	Morocco	R	R
Leucojum longifolium (Gay ex Roemer) Gren. & Godron	France	R	R
Leucojum nicaeense Ard.	France (V); Italy (?)	V	V
Leucojum roseum Martin	France (R); Italy (R)	R	R
Narcissus broussonetii Lag.	Morocco	I	I
Narcissus longispatus Pugsley	Spain	I	I
Narcissus viridiflorus Schousboe	Spain (V)	V	

ANACARDIACEAE

Rhus pentaphylla (Jacq.) Desf.	Italy (R)	R	
Rhus tripartita (Ucria) Grande	Italy (R)	R	

APOCYNACEAE

Rhazya greissii Tackh. & Boulos	Egypt	I	I
Rhazya orientalis (Decaisne) A.DC.	Greece (V)	V	

ARACEAE

Biarum davisii Turrill	Greece	R	R
Biarum dispar (Schott) Talavera	Algeria (R)	R	
Biarum spruneri Boiss.	Greece	R	R

ARISTOLOCHIACEAE

Aristolochia sicula Tineo	Italy	R	R
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ASCLEPIADACEAE

Caralluma aaronis (Hart.) N.E.Brown	Egypt (R)	R	R
Caralluma europaea (Guss.) N.E.Brown	Italy (E); Spain (R)	V	

Caralluma joannis Maire		Morocco	I	I
Caralluma munbyana (Decaisne)	Spain (I)		I	
N.E.Brown				
Caralluma sinaica (Decaisne)	Egypt (E); Israel (R)		V	V
A.Berger				
Caralluma venenosa Maire		Algeria	V	V
Glossonema boveanum (Decaisne)	Egypt (R)		R	
Decaisne ssp. nubicum (Decaisne)	Bullock			
* Vincetoxicum creticum Browicz		Greece	R	R
BERBERIDACEAE				
Epimedium perralderianum Coss.		Algeria	V	V
* Gymnospermium altaicum (Pallas)	Greece (E)		I	
Spach				
BORAGINACEAE				
Alkanna calliensis Heldr. ex Boiss.		Greece	R	R
Alkanna methanaea Hausskn.		Greece	I	I
Alkanna noneiformis Griseb.		Yugoslavia	R	R
Alkanna pelia (Halacsy) Rech.f.		Greece	R	R
Alkanna pulmonaria Griseb.		Yugoslavia	R	R
Alkanna sandwithii Rech.f.		Albania	R	R
Alkanna sartoriana Boiss. & Heldr.		Greece	I	I
Alkanna sieberi DC.		Greece	R	R
Alkanna stribrnyi Velen.	Yugoslavia (R)		R	R
Anchusa aggregata Lehm.	Greece (R); Italy (E)		V	
Anchusa cespitosa Lam.		Greece	R	R
Anchusa crispa Viv.	France (E); Italy (E)		E	E
Anchusa macrosyrinx Rech.f.		Greece	R	R
* Anchusa phocidica L.-A.Gustavsson		Greece	R	R
* Anchusa rechingeri Riedl		Greece	R	R
Anchusa sartorii Heldr. ex Gusul.		Greece	R	R
Anchusa serpentinicola Rech.f.	Greece (R); Yugoslavia (R)		R	R
Anchusa spruneri Boiss.		Greece	I	I
* Buglossoides gastonii (Benth.)	France (V); Spain		V	V
I.M.Johnston				
Cynoglossum sphacioticum Boiss. & Heldr.		Greece	R	R
Cynoglossum troodi Lindb.f.		Cyprus	V	V
Echium canum Emberger & Maire		Morocco	R	R
Echium scaettae Pampan.		Libya	R	R
Elizaldia calycina (Roemer	Spain (I)		I	
& J.A.Schultes) Maire				
Halacsya sendtneri (Boiss.)	Albania; Yugoslavia (R)		I	I
Doerfler				
Lithodora nitida (H.Ern) R.Fernandes		Spain	R	R
Lithodora oleifolia (Lapeyr.) Griseb.		Spain	V	V
Lithodora zahnii (Heldr.) I.M.Johnston		Greece	R	R
* Lithospermum goulandrionum Rech.f.		Greece	R	R
Moltkia doerfleri Wettst.		Albania	I	I
Myosotis ambigens (Beguinot) Grau		Italy	R	R
Myosotis corsicana (Fiori) Grau		France	R	R
Myosotis gallica Vestergren		France	R	R
Myosotis macrosiphon Font Quer & Maire		Morocco	R	R
Myosotis rehsteineri Wartm.	Italy (I)		E	E
Myosotis ruscinonensis Rouy		France	Ex	Ex
Myosotis soleirolii Gren. & Godron		France	R	R
* Omphalodes gallaecica		Spain	V	V
Omphalodes littoralis Lehm.		France	E	E

* <i>Omphalodes pavoniana</i> Boiss.	Spain	I	I
<i>Onosma bubanii</i> Stroh	Spain	R	R
<i>Onosma caespitosum</i> Kotschy	Cyprus	R	R
<i>Onosma cyrenaicum</i> E.Dur. & G.Barratte	Libya	R	R
<i>Onosma elegantissima</i> Rech.f. & Goulimy	Greece	I	I
<i>Onosma euboica</i> Rech.f.	Greece	R	R
<i>Onosma leptantha</i> Heldr.	Greece	R	R
* <i>Onosma psammophila</i> Rech.f. & Riedl	Greece	V	V
<i>Onosma rhodopea</i> Velen. Greece (R)		R	R
<i>Onosma taygetea</i> Boiss. & Heldr.	Greece	I	I
<i>Onosma troodi</i> Kotschy	Cyprus	R	R
<i>Procopiana circinalis</i> (Runemark) Pawl.	Greece	R	R
<i>Procopiana insularis</i> Pawl.	Greece	R	R
<i>Rindera graeca</i> (A.DC.) Boiss. & Heldr.	Greece	R	R
<i>Rindera gymnandra</i> (Coss.) Gurke	Algeria	R	R
<i>Solenanthus albanicus</i> (Degen Albania (R); Greece (E) et al) Degen & Baldacci		R	R
<i>Solenanthus atlanticus</i> Pitard	Morocco	R	R
* <i>Solenanthus pindicus</i> Alden	Greece	R	R
<i>Solenanthus reverchonii</i> Degen	Spain	R	R
<i>Solenanthus scardicus</i> Bornm. Albania (R); Yugoslavia (R)		R	R
<i>Symphytum cycladense</i> Pawl.	Greece	E	E
<i>Symphytum davisii</i> Wickens	Greece	R	R
<i>Symphytum gussonei</i> F.W.Schultz	Italy	R	R
<i>Symphytum icaricum</i> Pawl.	Greece	R	R
<i>Symphytum naxicola</i> Pawl.	Greece	R	R
CALLITRICHACEAE			
<i>Callitriche pulchra</i> Schotsman Greece (V)		V	
CAMPANULACEAE			
<i>Asyneuma comosiforme</i> Hayek & Janchen	Albania	R	R
<i>Asyneuma giganteum</i> (Boiss.) Bornm.	Greece	V	V
* <i>Campanula aizoides</i> Zaffran	Greece	R	R
* <i>Campanula aizoon</i> Boiss. & Spruner	Greece	V	V
<i>Campanula antiatlantica</i> Maire, M.Weiller & Wilczek	Morocco	R	R
<i>Campanula apennina</i> (Podlech) Podlech	Italy	R	R
<i>Campanula aursiaca</i> (Battand. & Trabut) Ozenda	Algeria	I	I
<i>Campanula barborensis</i> Quezel	Algeria	E	E
<i>Campanula beckiana</i> Hayek Yugoslavia (R)		I	I
<i>Campanula carpatha</i> Halacsy	Greece	R	R
* <i>Campanula columnaris</i> Contandr. et al	Greece	R	R
<i>Campanula constantini</i> Beauverd & Topali	Greece	R	R
* <i>Campanula creutzburgii</i> Greuter	Greece	R	R
<i>Campanula cymaea</i> Phitos	Greece	R	R
<i>Campanula elatinoides</i> Moretti	Italy	R	R
<i>Campanula euboica</i> Phitos	Greece	R	R
* <i>Campanula fenestrellata</i> Feer	Yugoslavia	R	R
<i>Campanula forsythii</i> (Arcang.) Podlech	Italy	V	V
<i>Campanula goulimy</i> Turrill	Greece	R	R
<i>Campanula hagielia</i> Boiss.	Greece	R	R
<i>Campanula hercegovina</i> Degen & Fiala	Yugoslavia	V	V
* <i>Campanula heterophylla</i> L.	Greece	R	R
<i>Campanula hierapetrae</i> Rech.f.	Greece	R	R
* <i>Campanula incurva</i> Aucher ex A.DC.	Greece	R	R

Campanula isophylla Moretti		Italy	R	R
Campanula jaubertiana Timb.-Lagr.	France (R); Spain	(R)	R	R
Campanula justiniana Witasek		Yugoslavia	R	R
Campanula laciniata L.		Greece	I	I
Campanula lavrensis (Tocl & Rohl.) Phitos		Greece	R	R
Campanula longisepala Podlech		France	R	R
Campanula merxmulleri Phitos		Greece	I	I
Campanula morettiana Reichenb.		Italy	V	V
Campanula nisyria Papatsou & Phitos		Greece	R	R
Campanula numidica Durieu		Algeria	R	R
Campanula papillosa Halacsy		Greece	R	R
Campanula petraea L.	France (V); Italy	(E)	V	V
* Campanula pindicola Alden		Greece	R	R
Campanula portenschlagiana J.A.Schultes		Yugoslavia	R	R
Campanula poscharskyana Degen		Yugoslavia	R	R
Campanula pseudostenocodon Lacaita		Italy	R	R
Campanula raineri Perp.		Italy	R	R
Campanula rechingeri Phitos		Greece	R	R
Campanula reiseri Halacsy		Greece	R	R
Campanula rupestris Sibth. & Smith		Greece	R	R
Campanula rupicola Boiss. & Spruner		Greece	R	R
Campanula sabatia De Not.		Italy	E	E
Campanula sartorii Boiss. & Heldr.		Greece	R	R
Campanula saxatilis L.		Greece	R	R
Campanula sciathia Phitos		Greece	R	R
Campanula scopelia Phitos		Greece	R	R
Campanula secundiflora Vis. & Pancic		Yugoslavia	E	E
Campanula sporadum Feer		Greece	R	R
Campanula willkommii Witasek		Spain	R	R
Edraianthus dalmaticus (A.DC.) A.DC.		Yugoslavia	R	R
Edraianthus dinaricus (A.Kerner) Wettst.		Yugoslavia	R	R
Edraianthus pumilio (Portenschlag) A.DC.		Yugoslavia	V	V
Edraianthus wettsteinii	Albania (R); Yugoslavia	(R)	R	R
Halacsy & Baldacci				
Jasione penicillata Boiss.		Spain	R	R
Physoplexis comosa (L.) Schur	Italy (V); Yugoslavia	(R)	V	V
Phyteuma gallicum R.Schulz		France	R	R
Phyteuma humile Schleicher	France (?); Italy	(R)	R	R
ex Gaudin				
Phyteuma pseudorbiculare	Albania; Yugoslavia	(R)	R	R
Pantocsek				
Specularia juliani Battand.		Algeria	I	I
* Symphyandra cretica A.DC.		Greece	R	R
Symphyandra hofmannii Pantocsek		Yugoslavia	R	R
* Symphyandra samothracica (Degen) Halacsy		Greece	V	V
* Symphyandra sporadum Halacsy		Greece	R	R
Symphyandra wanneri (Rochel)	Yugoslavia	(R)	R	R
Heuffel				
Trachelium asperuloides Boiss. & Orph.		Greece	V	V
* Trachelium jacquinii (Sieber) Boiss.		Greece	R	R
Wahlenbergia bernardi Leredde		Algeria	E	E
CAPRIFOLIACEAE				
Lonicera arborea Boiss.	Spain	(R)	R	
Lonicera biflora Desf.	Spain	(R)	R	
Lonicera kabylica Rehder		Algeria	R	R
CARYOPHYLLACEAE				
Arenaria capillipes Boiss.		Spain	R	R
Arenaria cinerea DC.		France	R	R
Arenaria conica Boiss.		Spain	R	R

* <i>Arenaria controversa</i> Boiss.	France (Y); Spain (R)	Y	Y
<i>Arenaria fragillima</i> Rech.f.	Greece	R	R
* <i>Arenaria gionae</i> L.-A.Gustavsson	Greece	R	R
<i>Arenaria guicciardii</i> Heldr. ex Boiss.	Greece	R	R
<i>Arenaria halacsyi</i> Baldacci	Yugoslavia	R	R
<i>Arenaria hispida</i> L.	France (Y); Spain (I)	V	V
<i>Arenaria huteri</i> A.Kerner	Italy	R	R
<i>Arenaria lithops</i> Heywood ex McNeill	Spain	E	E
* <i>Arenaria litoralis</i> Phitos	Greece	I	I
<i>Arenaria luschanii</i> McNeill	Greece (R)	R	
<i>Arenaria nevadensis</i> Boiss. & Reuter	Spain	R	R
* <i>Arenaria oxypetala</i> Sibth. & Smith	Greece (R)	R	
* <i>Arenaria peloponnesiaca</i> Rech.f.	Greece	R	R
<i>Arenaria provincialis</i> Chater & Halliday	France	V	V
<i>Arenaria pungens</i> Clemente ex Lag.	Spain (R)	R	
<i>Arenaria saponarioides</i> Boiss. & Balansa	Greece (I)	I	
<i>Arenaria tomentosa</i> Willk.	Spain	R	R
* <i>Bolanthus creutzburgii</i> Greuter	Greece	R	R
<i>Bolanthus fruticulosus</i> (Bory & Chaubard) Barkoudah	Greece	R	R
<i>Bolanthus laconicus</i> (Boiss.) Barkoudah	Greece	R	R
<i>Bufonia chevallieri</i> Battand.	Algeria	V	V
<i>Bufonia multiceps</i> Decaisne	Egypt	R	R
<i>Bufonia perennis</i> Pourret	France	R	R
<i>Bufonia tuberculata</i> Loscos	Spain	R	R
<i>Cerastium runemarkii</i> Moschl & Rech.f.	Greece	I	I
<i>Cerastium soleirolii</i> Ser. ex Duby	France	R	R
* <i>Cerastium vourinense</i> Moschl & Rech.f.	Greece	R	R
* <i>Dianthus aciphyllus</i> Sieber ex Ser.	Greece	R	R
<i>Dianthus anticarius</i> Boiss. & Reuter	Spain	R	R
<i>Dianthus arpadianus</i> Ade & Bornm.	Greece (R)	R	
* <i>Dianthus cinnamomeus</i> Sibth. & Smith	Greece (R)	R	
<i>Dianthus costae</i> Willk.	Spain	R	R
<i>Dianthus cyprius</i> A.K.Jackson & Turrill	Cyprus	V	V
<i>Dianthus freynii</i> Vandas	Yugoslavia	I	I
* <i>Dianthus fruticosus</i> L.	Greece	R	R
* <i>Dianthus gallicus</i> Pers.	France (I); Spain (V)	V	V
<i>Dianthus graniticus</i> Jordan	France	R	R
* <i>Dianthus gratianopolitanus</i> Vill.	France (R)	R	R
<i>Dianthus guessfeldtianus</i> Muschler	Egypt	E	E
* <i>Dianthus juniperinus</i> Smith	Greece	R	R
<i>Dianthus knappii</i> (Pantocsek) Aschers. et al	Yugoslavia	R	R
<i>Dianthus mercurii</i> Heldr.	Greece	I	I
<i>Dianthus myrtinervius</i> Griseb.	Greece (R); Yugoslavia (R)	R	R
<i>Dianthus nardiformis</i> Janka	Yugoslavia (?)	V	V
* <i>Dianthus pulviniformis</i> Greuter	Greece	V	V
* <i>Dianthus pungens</i> L.	France (R); Spain (V)	V	V
<i>Dianthus rhodius</i> Rech.f.	Greece	R	R
<i>Dianthus rupicola</i> Biv.	Italy (Y); Spain (R)	V	
<i>Dianthus sinaicus</i> Boiss.	Egypt (E); Israel (R)	V	V
<i>Dianthus sphacioticus</i> Boiss. & Heldr.	Greece	R	R
* <i>Dianthus stamatiadae</i> Rech.f.	Greece	R	R
<i>Dianthus stefanoffii</i> Eig	Greece	R	R
<i>Dianthus xylorizus</i> Boiss. & Heldr.	Greece	I	I
<i>Gypsophila achaia</i> Bornm.	Greece	R	R
<i>Gypsophila macedonica</i> Vandas	Yugoslavia	R	R
<i>Gypsophila papillosa</i> P.Porta	Italy	E	E
<i>Herniaria baetica</i> Boiss. & Reuter	Spain	R	R

Herniaria micrantha A.K.Jackson & Turrill	Greece (R)	R	
Lychnis lagrangei Coss.	Morocco	I	I
Minuartia grignensis (Reichenb.) Mattf.	Italy	I	I
Minuartia handelii Mattf.	Yugoslavia	R	R
Minuartia olonensis (Bonnier) P.Fourn.	France	Ex	Ex
Minuartia pichleri (Boiss.) Maire & Petitm.	Greece	R	R
Minuartia senneniana Maire & Mauricio	Morocco	R	R
Minuartia velenovskyi (Rohl.) Hayek	Albania; Yugoslavia (R)	R	R
Minuartia wettsteinii Mattf.	Greece	R	R
Moehringia dielsiana Mattf.	Italy	R	R
Moehringia fontqueri Pau	Spain	R	R
Moehringia markgrafii Merxm. & Guterm.	Italy	R	R
Moehringia minutiflora Bornm.	Yugoslavia	R	R
Moehringia papulosa Bertol.	France (R); Italy (V)	V	V
Moehringia stellarioides Coss.	Algeria	R	R
Moehringia tommasinii Marches.	Italy (I); Yugoslavia (R)	R	R
* Moehringia villosa (Wulfen) Fenzl	Italy; Yugoslavia (R)	R	R
* Paronychia bornmuelleri Chaudhri	Greece	R	R
Paronychia carica Chaudhri	Greece (R)	R	
* Paronychia rechingeri Chaudhri	Greece	R	R
* Petrocoptis lagascae (Willk.) Willk.	Spain	R	R
Petrorhagia dianthoides (Sibth. & Smith) P.W.Ball & Heywood	Greece	R	R
Petrorhagia rhiphaea (Pau & al) P.W.Ball & Heywood	Morocco	R	R
Petrorhagia rupestris Brullo & Furnari	Libya	R	R
Pteranthus dichotomus Forssk.	Malta (Ex)	Ex	
Sagina nevadensis Boiss. & Reuter	Spain	R	R
* Saponaria chlorifolia Kunze	Greece (V)	V	
Saponaria cypria Boiss.	Cyprus	R	R
Silene aegyptiaca (L.) L.f.	Greece (Ex)	Ex	
Silene almolae Gay	Spain	R	R
Silene ammophila Boiss. & Heldr.	Greece	R	R
Silene aristidis Pomel	Algeria	R	R
Silene articulata Viv.	Libya	V	V
Silene barbara Humbert & Maire	Morocco	R	R
Silene barbeyana Heldr. ex Boiss.	Greece	R	R
Silene brachypoda Rouy	France	R	R
Silene campanula Pers.	France (R); Italy (R)	R	R
Silene cirtensis Pomel	Algeria	E	E
Silene claryi Battand.	Algeria	R	R
Silene cordifolia All.	France (R); Italy (R)	R	R
Silene cyrenaica Maire & M.Weiller	Libya	I	I
Silene cythnia (Halacsy) Walters	Greece	R	R
Silene diclinis (Lag.) M.Lainz	Spain	V	V
Silene dictaea Rech.f.	Greece	R	R
* Silene dionysii Stoy. & Jordanov	Greece	R	R
Silene dissecta Litard. & Maire	Morocco	R	R
Silene echinosperma Boiss. & Heldr.	Greece	R	R
Silene echinospermoides Huber-Mor.	Greece (R)	R	R
Silene elisabetha Jan	Italy	R	R
Silene falcata Sibth. & Smith	Greece (R)	R	
Silene fraudatrix Meikle	Cyprus	R	R
* Silene gaditana	Spain	R	R
Silene ghiarensis Battand.	Algeria	R	R

Silene giraldii Guss.		Italy	R	R
Silene glaberrima Faure & Maire		Algeria	V	V
* Silene goulimyi Turrill		Greece	R	R
Silene guicciardii Boiss. & Heldr.		Greece	I	I
* Silene haussknechtii Heldr. ex Hausskn.		Greece	V	V
Silene hifacensis Rouy ex Willk.		Spain	V	V
* Silene holzmannii Heldr. ex Boiss.		Greece	V	V
Silene hussonii Boiss.	Egypt (R); Israel (R)		R	R
Silene insularis Barbey		Greece	R	R
Silene laconica Boiss. & Orph.		Greece	R	R
Silene leucophylla Boiss.		Egypt	R	R
Silene linicola C.C.Gmelin	France (E); Italy (I)		E	
Silene macrantha (Pancic)	Albania (R); Yugoslavia (R)		R	R
Neumayer				
* Silene macrodonta Boiss.	Greece (R)		R	
Silene macrorhiza Gay & Durieu	Spain (R)		R	R
ex Lacaita				
Silene marmarica Beguinot & Vaccari		Libya	I	I
Silene niederi Heldr. ex Boiss.		Greece	R	R
* Silene oligantha Boiss. & Heldr.		Greece	R	R
Silene orphanidis Boiss.		Greece	E	E
Silene pentelica Boiss.		Greece	R	R
Silene physalodes Boiss.	Israel (E); Syria (?)		E	E
Silene pindicola Hausskn.		Greece	R	R
Silene pinetorum Boiss. & Heldr.		Greece	R	R
Silene pseudovestita Battand.		Algeria	E	E
Silene reeseana Maire		Morocco	E	E
* Silene retzdorffiana (K.Maly) Walters		Yugoslavia	R	R
Silene reverchoni Battand.		Algeria	V	V
Silene rhiphaena Pau & Font Quer		Morocco	R	R
Silene rosulata Soy.-Will. & Godron		Algeria	R	R
Silene schimperiana Boiss.		Egypt	R	R
Silene schmuckeri Wettst.		Yugoslavia	R	R
Silene sessionis Battand.		Algeria	E	E
* Silene stockenii Chater		Spain	R	R
* Silene tempskyana Freyn & Sint.		Greece	R	R
Silene urvillei Schott	Greece (R)		R	
* Silene velutina Pourret ex Loisel.		France	E	E
Silene velutinoides Pomel		Algeria	R	R
Silene vidaliana Pau & Font Quer		Morocco	R	R
Silene viscariopsis Bornm.		Yugoslavia	R	R
Silene volubilitana Braun-Blanquet & Maire		Morocco	I	I
* Spergularia fimbriata Boiss.	Spain (R)		R	
Spergularia pycnorrhiza (Maire) Monnier		Algeria	R	R
Spergularia tenuifolia Pomel		Algeria	R	R
Spergularia sp. (=Spergula fontenellei Maire)		Algeria	V	V
CHENOPODIACEAE				
Anabasis articulata (Forssk.) Moq.	Spain (R)		R	
* Bassia hirsuta (L.) Aschers.	France; Italy Yugoslavia (V)		V	
Beta nana Boiss. & Heldr.		Greece	R	R
Chenopodium moquinianum Aellen		Egypt	V	V
* Corispermum nitidum Kit.	Yugoslavia		V	
Halopeplis amplexicaulis (Vahl) Ung.-Sternb.	Italy (R); Spain (E)		V	
Kochia saxicola Guss.		Italy	E	E

Microcnemum coralloides (Loscos & Pardo) Font Quer	Spain (V)		V	
* Noaea mucronata (Forssk.) Aschers. & Schweinf.	Greece (R)		R	
* Salicornia veneta Pignatti & Lausi		Italy	E	E
Salsola webbii Moq.	Spain (I)		I	
CISTACEAE				
* Cistus albanicus E.F.Warb. ex Heywood	Albania (I); Greece (R)		R	R
Cistus heterophyllus Desf.	Spain (I)		I	
Cistus varius Pourret	France (I)		I	
* Fumana paphlagonica Bornm. & Janchen	Greece (R)		R	
Fumana paradoxa Heywood		Spain	R	R
* Helianthemum almeriense Pau		Spain	R	R
* Helianthemum alypoides Losa & Rivas Goday		Spain	R	R
Helianthemum cyrenaicum (Grosser) Brullo & Furnari		Libya	R	R
Helianthemum eriocephalum Pomel		Algeria	R	R
Helianthemum geniorum Maire		Algeria	R	R
Helianthemum grosii Pau & Font Quer		Morocco	I	I
Helianthemum maritimum Pomel		Algeria	R	R
Helianthemum sancti-antonii Schweinf. ex Boiss.	Egypt (R); Israel		R	R
Helianthemum sphaerocalyx Gauba & Janchen		Egypt	E	E
* Helianthemum stipulatum (Forssk.) Christensen	Greece (V)		V	
Helianthemum viscarium Boiss. & Reuter	Spain (R)		R	
COMMELINACEAE				
Commelina rupicola Font Quer		Morocco	R	R
COMPOSITAE				
Achillea absinthoides Halacsy		Greece	R	R
Achillea ambrosiaca (Boiss. & Heldr.) Boiss.		Greece	R	R
Achillea barbeyana Heldr. & Heimerl		Greece	R	R
Achillea maura Humbert		Morocco	I	I
Achillea ochroleuca Ehrh.	Yugoslavia (R)		V	
* Achillea taygetea Boiss. & Heldr.		Greece	R	R
Anacyclus alboranensis Esteve Chueca & Varo		Spain	E	E
Anacyclus capillifolius Maire		Morocco	R	R
Anacyclus exalatus Murb.		Morocco	I	I
Andryala nigricans Poiret		Algeria	R	R
Anthemis abrotanifolia (Willd.) Guss.		Greece	R	R
Anthemis filicaulis (Boiss. & Heldr.) Greuter		Greece	R	R
Anthemis gerardiana Jordan		France	V	V
Anthemis glaberrima (Rech.f.) Greuter		Greece	E	E
Anthemis hydruntina Groves		Italy	R	R
Anthemis ismelia Lojac.		Italy	R	R
Anthemis meteorica Hausskn.	Greece (R); Yugoslavia (R)		R	R
Anthemis panachaica Halacsy		Greece	R	R
Anthemis pindicola Heldr. ex Halacsy		Greece	R	R
Anthemis rhodensis Boiss.		Greece	I	I
Anthemis tuberculata Boiss.	Spain (R)		R	
Anthemis wernerii Stoy. & Acht.		Greece	I	I
Anvilleina platycarpa Maire		Morocco	R	R

Artemisia atrata Lam.	France (R); Italy (R) Yugoslavia (R)	R	R
* Artemisia cantabrica (M.Lainz) M.Lainz	Spain	R	R
Artemisia flahaultii Emberger & Maire	Morocco	R	R
Artemisia granatensis Boiss.	Spain	E	E
Artemisia insipida Vill.	France	I	I
* Artemisia legionensis	Spain	R	R
Artemisia molinieri Quezel, Barbero & Loisel	France	R	R
Artemisia nitida Bertol.	Italy (R); Yugoslavia (R)	R	R
Artemisia pancicii (Janka) Ronn.	Yugoslavia (R)	V	V
Aster albanicus Degen	Albania (V); Yugoslavia (R)	V	V
Aster pyrenaicus Desf. ex DC.	France	E	E
Asteriscus pinifolius Maire & Wilczek	Morocco	R	R
Asteriscus schimperi Boiss.	Egypt	R	R
Atractylis boulosii Tackh.	Egypt	R	R
Atractylis caerulea Battand.	Algeria	I	I
Atractylis tutinii Franco	Spain	R	R
Bellis bernardii Boiss. & Reuter	France	R	R
Berardia subcaulis Vill.	France (R); Italy (R)	R	R
Bubonium longiradiatum Maire	Morocco	R	R
Bupthalmum inuloides Moris	Italy	V	V
Calendula suffruticosa Vahl ssp. maritima (Guss.) Meikle	Italy	E	E
Calendula vidalii Pau	Morocco	I	I
Carduncellus ilicifolius Pomel	Algeria	E	E
Carduncellus strictus (Pomel) Hanelt	Algeria	R	R
Carduus aurosicus Vill.	France	R	R
Carduus myriacanthus Salzm. ex DC.	Spain (I)	I	
Carduus ramosissimus Pancic	Albania; Yugoslavia (R)	R	R
Carlina diae (Rech.f.) Meusel & Kastner	Greece	V	V
Carlina fiumensis Simonkai	Yugoslavia	R	R
* Carlina sitiensis Rech.f.	Greece	R	R
Carthamus rhiphaeus Font Quer & Pau	Morocco	R	R
Centaurea achaia Boiss. & Heldr.	Greece	R	R
Centaurea aegialophila Wagenitz	Greece (V)	V	
Centaurea amplifolia Boiss. & Heldr.	Albania (?); Greece	I	I
Centaurea argecillensis Gredilla	Spain	R	R
Centaurea baldaccii Degen ex Baldacci	Greece	V	V
Centaurea balearica J.D.Rodriguez	Spain	E	E
Centaurea biokovensisa Teyber	Yugoslavia	R	R
Centaurea bombycina Boiss. ex DC.	Spain	R	R
Centaurea candelabrum Hayek & Kosanin	Albania	R	R
Centaurea carractracensis Lange	Spain	R	R
Centaurea chalcidicaea Hayek	Greece	R	R
Centaurea clementei Boiss. ex DC.	Spain	R	R
Centaurea corymbosa Pourret	France	V	V
Centaurea crithmifolia Vis.	Yugoslavia	R	R
Centaurea cuspidata Vis.	Yugoslavia	R	R
Centaurea cyrenaica Beguinot & Vaccari	Libya	V	V
Centaurea cytherea Rech.f.	Greece	R	R
Centaurea dalmatica A.Kerner	Yugoslavia	R	R
Centaurea diluta Aiton	Spain (R)	R	
Centaurea ducellieri Battand.	Morocco	R	R
Centaurea ebenoides Heldr. ex S.Moore	Greece	R	R
Centaurea eriosiphon Emberger & Maire	Morocco	R	R
Centaurea exarata Boiss. ex Coss.	Spain (R)	R	R

<i>Centaurea friderici</i> Vis.		Yugoslavia	R	R
<i>Centaurea glaberrima</i> Tausch		Yugoslavia	R	R
<i>Centaurea grbavacensis</i> (Rohl.) Stoy. & Acht.		Yugoslavia	R	R
<i>Centaurea guilhelmi</i> (Pau & Sennen) Maire		Morocco	R	R
<i>Centaurea haenseleri</i> (Boiss.) Boiss.		Spain	R	R
* <i>Centaurea heldreichii</i> Halacsy		Greece	E	E
<i>Centaurea horrida</i> Badaro		Italy	E	E
* <i>Centaurea huljakii</i> Wagner		Greece	R	R
<i>Centaurea incompta</i> Vis.		Yugoslavia	R	R
<i>Centaurea ipsaria</i> Stoy. & Kit.		Greece	R	R
<i>Centaurea kalambakensis</i> Freyn & Sint.		Greece	E	E
<i>Centaurea kartschiana</i> Scop.	Italy (V); Yugoslavia (R)		V	V
<i>Centaurea kosaninii</i> Hayek		Albania	V	V
<i>Centaurea laconica</i> Boiss.		Greece	R	R
<i>Centaurea lactiflora</i> Halacsy		Greece	E	E
<i>Centaurea lactucifolia</i> Boiss.		Greece	R	R
<i>Centaurea lainzii</i>		Spain	R	R
<i>Centaurea laureotica</i> Heldr. ex Halacsy		Greece	R	R
<i>Centaurea leucophaea</i> Jordan				
ssp. <i>pseudocoerulea</i> (Briq.) Dostal		France	V	V
<i>Centaurea linaresii</i> Lazaro		Spain	E	E
<i>Centaurea loscosii</i> Willk.		Spain	R	R
<i>Centaurea macrorrhiza</i> Willk.		Spain	R	R
<i>Centaurea maireana</i> Emberger		Morocco	R	R
* <i>Centaurea megarensis</i> Halacsy & Hayek		Greece	E	E
<i>Centaurea micracantha</i> Dufour		Spain	R	R
<i>Centaurea monticola</i> Boiss. ex DC.		Spain	R	R
<i>Centaurea murbeckii</i> Hayek		Yugoslavia	R	R
<i>Centaurea musarum</i> Boiss. & Orph.		Greece	R	R
<i>Centaurea nicolai</i> Baldacci	Albania; Yugoslavia (R)		R	R
<i>Centaurea nicopolitana</i> Bornm.		Greece	R	R
<i>Centaurea niederi</i> Heldr.		Greece	E	E
<i>Centaurea olivierana</i> DC.		Greece	R	R
* <i>Centaurea ossaea</i> Halacsy		Greece	I	I
<i>Centaurea parlatoris</i> Heldr.	Italy (V)		V	
* <i>Centaurea parnonia</i> Halacsy		Greece	I	I
* <i>Centaurea pawlowskii</i> Phitos & Damboldt		Greece	R	R
<i>Centaurea peucedanifolia</i> Boiss. & Orph.		Greece	E	E
<i>Centaurea phaeolepis</i> Coss.		Algeria	R	R
* <i>Centaurea poculatoris</i> Greuter		Greece	V	V
<i>Centaurea polymorpha</i> Lag.		Spain	R	R
* <i>Centaurea prespana</i> Rech.f.		Greece	R	R
* <i>Centaurea princeps</i> Boiss. & Heldr.		Greece	E	E
<i>Centaurea procumbens</i> Balb.	France (R); Spain		R	R
* <i>Centaurea pseudocadmea</i> Wagenitz		Greece	I	I
<i>Centaurea psilacantha</i> Boiss. & Heldr.		Greece	R	R
* <i>Centaurea ptarmicifolia</i> Halacsy ex Hayek		Greece	R	R
* <i>Centaurea pumilio</i> L.	Greece (V)		V	
<i>Centaurea rechingeri</i> Phitos		Greece	R	R
<i>Centaurea redempta</i> Heldr.		Greece	R	R
<i>Centaurea rufidula</i> Bornm.		Yugoslavia	R	R
<i>Centaurea schousboei</i> Lange	Spain (R)		R	R
<i>Centaurea soskae</i> Hayek ex Kosanin		Yugoslavia	V	V
* <i>Centaurea spinosociliata</i> Seenus		Yugoslavia	R	R
<i>Centaurea subsericans</i> Halacsy		Greece	I	I
<i>Centaurea tananica</i> Maire		Morocco	R	R
<i>Centaurea tauromenitana</i> Guss.		Italy	R	R
<i>Centaurea theryi</i> Emberger & Maire		Morocco	R	R

Centaurea transiens Halacsy		Greece	R	R
* Centaurea triamularia Alden		Greece	R	R
Centaurea tuntasia Heldr. ex Halacsy		Greece	R	R
Centaurea wettsteinii Degen & Doerfler		Yugoslavia	R	R
Centaurea xylobasis Rech.f.		Greece	R	R
Chlamydophora tridentata	Greece (R)		R	
(Delile) Ehrenb. ex Less.				
Chrysanthemum nivellei Braun-Blanquet		Morocco	R	R
Cirsium bourgaeaeum Willk.		Spain	R	R
Cirsium brachycephalum Juratzka	Yugoslavia (R)		V	V
Cirsium ducellieri Maire		Morocco	R	R
* Cirsium epiroticum Petrak		Greece	R	R
Cirsium kirbense Pomel		Algeria	R	R
Cirsium mairei Halacsy		Greece	R	R
Cirsium morinifolium Boiss. & Heldr.		Greece	R	R
Crepis albanica (S.Javorka) Babc.	Albania (R); Yugoslavia (R)		R	R
Crepis athoa Boiss.		Greece	R	R
Crepis auriculifolia Sieber ex Sprengel		Greece	R	R
Crepis baldaccii Halacsy	Albania (R); Greece (R)		R	R
Crepis bertisceae S.Javorka		Albania	R	R
Crepis claryi Battand.		Algeria	E	E
Crepis crocifolia Boiss. & Heldr.		Greece	E	E
Crepis faureliana Maire		Algeria	E	E
Crepis fontiana Babc.		Morocco	R	R
Crepis guioliana Babc.		Greece	R	R
* Crepis heldreichiana (Kuntze) Greuter		Greece	R	R
Crepis hookeriana Ball		Morocco	R	R
Crepis libyca (Pampan.) Babc.	Egypt (I); Libya (V)		V	V
Crepis litardierei Emberger		Morocco	R	R
Crepis macedonica Kitanoff	Albania; Yugoslavia (R)		R	R
Crepis pantocsekii (Vis.)	Albania; Yugoslavia (R)		R	R
A.Latzel				
* Crepis pawlowskii Strid		Greece	R	R
Crepis sibthorpiana Boiss. & Heldr.		Greece	R	R
Crepis suffreniana (DC.) Lloyd	France (I); Italy (R)		I	I
Crepis tingitana Ball	Spain (R)		R	
Crepis tybakiensis Vierh.		Greece	R	R
Echinops spinosus L.	Italy (R)		R	
Erigeron major (Boiss.) Vierh.		Spain	R	R
Evacidium discolor (DC.) Maire	Italy (V)		V	
Evax longilanata Maire & Wilczek		Morocco	I	I
Evax rotundata Moris	France (I); Italy (R)		V	V
Filago bolivari Caballero		Morocco	I	I
Filago duriaei Coss. ex Lange	Spain (I)		I	
Filago eriosphaera (B. & H.)	Greece (R)		R	
Chrtek & Holub				
Filago evaciformis Maire & G.Samuelsson		Morocco	I	I
Filago mareotica Delile	Spain (R)		R	
Fontquera paui (Font Quer) Maire		Morocco	R	R
Helichrysum amorginum Boiss. & Orph.		Greece	R	R
Helichrysum doerfleri Rech.f.		Greece	R	R
Helichrysum heldreichii Boiss.		Greece	R	R
Helichrysum sibthorpii Rouy		Greece	I	I
Hymenostemma pseudanthemis (Kunze) Willd.		Spain	R	R
Hyoseris taurina (Pampan.) Martinoli		Italy	R	R
Hypochoeris claryi Battand.		Algeria	V	V
Hypochoeris saldensis Battand.		Algeria	R	R
Hypochoeris tenuiflora (Boiss.) Boiss.		Greece	R	R
Inula helvetica Weber	France (I); Italy (R)		V	V
	Spain			

* <i>Inula oxylepis</i> Hausskn.	Greece	R	R
* <i>Inula pseudolimonella</i> (Rech.f.) Rech.f.	Greece	R	R
* <i>Inula rotundifolia</i> (Halacsy) Greuter	Greece	R	R
* <i>Inula serpentica</i> Rech.f. & Goulimy	Greece	R	R
<i>Inula subfloccosa</i> Rech.f.	Greece	R	R
<i>Jasonia hesperia</i> Maire & Wilczek	Morocco	R	R
<i>Jurinea cypria</i> Boiss.	Cyprus	V	V
<i>Jurinea fontqueri</i> Cuatrec.	Spain	R	R
<i>Jurinea taygetea</i> Halacsy	Greece (R)	R	R
<i>Kleinia mandralisca</i> Tineo	Italy (R)	R	
<i>Lactuca livida</i> Boiss. & Reuter	Spain	R	R
<i>Lactuca longidentata</i> Moris ex DC.	Italy	R	R
<i>Lactuca tetrantha</i> B.L.Burtt & P.H.Davis	Cyprus	V	V
<i>Lamyropsis microcephala</i> (Moris) Dittrich & Greuter	Italy	E	E
<i>Lasiopogon muscoides</i> (Desf.) DC.	Spain (V)	V	
<i>Lasioospermum brachyglossum</i> DC.	Egypt (R)	R	
<i>Launaea anomala</i> (Battand.) Maire	Algeria	V	V
<i>Launaea viminea</i> (Battand.) Maire	Morocco	I	I
<i>Leontodon berinii</i> (Bartl.) Roth	Italy; Yugoslavia (R)	R	R
<i>Leontodon boryi</i> Boiss. ex DC.	Spain	V	V
<i>Leontodon eriopus</i> Emberger & Maire	Morocco	R	R
<i>Leontodon garnironii</i> Emberger & Maire	Morocco	R	R
<i>Leontodon microcephalus</i> (Boiss. ex DC.) Boiss.	Spain	V	V
<i>Leontodon siculus</i> (Guss.) Finch & Sell	Italy	E	E
<i>Leucanthemum arundanum</i> (Boiss.) Cuatrec.	Spain (R)	R	
<i>Leucanthemum chloroticum</i> A.Kerner & Murb.	Yugoslavia	R	R
<i>Leucanthemum corsicum</i> (Less.) DC.	France	R	R
<i>Leucanthemum hosmariense</i> (Ball) Font Quer	Morocco	R	R
<i>Leuzea rhapsodicoides</i> Graells	Spain (R)	R	R
<i>Logfia neglecta</i> (Soy.-Will.) Holub	France	E	E
<i>Matricaria macrotis</i> Rech.f.	Greece (I)	I	
<i>Mecomischnus pedunculatus</i> (Coss. & Durieu) Maire	Algeria	E	E
<i>Nananthea perpusilla</i> (Loisel.) DC.	France (R); Italy (R)	R	R
<i>Nolletia chrysocomoides</i> (Desf.) Cass. ex Less.	Spain (I)	I	
<i>Onopordum algeriense</i> (Munby) Pomel	Algeria	E	E
<i>Onopordum cyrenaicum</i> Maire & M.Weiller	Libya	E	E
<i>Onopordum mesatlanticum</i> Emberger & Maire	Morocco	R	R
<i>Onopordum rhodense</i> Boiss. ex Rech.f.	Greece	I	I
<i>Ormenis flahaultii</i> Emberger	Morocco	R	R
<i>Palaeocyanus crassifolius</i> (Bertol.) Dostal	Malta	V	V
<i>Pegolettia dubiefiana</i> Quezel	Algeria	R	R
* <i>Petasites doerfleri</i> Hayek	Albania	R	R
<i>Phagnalon garamantum</i> Maire	Algeria	I	I
<i>Phagnalon iminouakense</i> Emberger	Morocco	R	R
<i>Phagnalon latifolium</i> Maire	Morocco	R	R
<i>Phagnalon metlesicsii</i> Pignatti	Italy	R	R
<i>Phagnalon sinaicum</i> Bornm. & Kneucker	Egypt	R	R
<i>Phalacrocarpum hoffmannseggii</i> (G.Samp.) M.Lainz	Spain (R)	R	R
<i>Picris cyrenaica</i> (Pampan.) Lack	Libya	R	R
<i>Picris pitardiana</i> Gandoger	Morocco	R	R

* <i>Picris willkommii</i> (Schultz Bip.) Nyman	Spain	I	I
<i>Ptilostemon abylenis</i> (Maire) Greuter	Morocco	R	R
<i>Ptilostemon leptophyllus</i> (Pau & Font Quer) Greuter	Morocco	R	R
<i>Ptilostemon niveus</i> (C.Presl) Greuter	Italy	R	R
<i>Pulicaria filaginoides</i> Pomel	Algeria	E	E
<i>Pulicaria glandulosa</i> Caball.	Morocco	I	I
<i>Rothmaleria granatensis</i> (Boiss. ex DC.) Font Quer	Spain	R	R
<i>Santolina ascensionis</i> Sennen	Morocco	R	R
<i>Santolina elegans</i> Boiss. ex DC.	Spain	V	V
<i>Santolina oblongifolia</i> Boiss.	Spain	V	V
<i>Santolina viscosa</i> Lag.	Spain	R	R
<i>Scorzonera doria</i> Degen & Baldacci Albania; Greece (R) Yugoslavia (R)		R	R
<i>Scorzonera drarii</i> Tackh.	Egypt	E	E
<i>Scorzonera idaea</i> (Gandoger) Lipsch.	Greece	R	R
* <i>Scorzonera rhodantha</i> Hausskn.	Greece	R	R
<i>Scorzonera scyria</i> M.Gustafsson & Snogerup	Greece	R	R
* <i>Scorzonera serpentinica</i> Rech.f.	Greece	R	R
<i>Senecio alboranicus</i> Maire	Spain	E	E
<i>Senecio auricula</i> Borgeau ex Coss. Spain (V)		V	
<i>Senecio chalureau</i> Humbert	Morocco	R	R
<i>Senecio elodes</i> Boiss. ex DC.	Spain	R	R
<i>Senecio eriopus</i> Willk.	Spain	R	R
<i>Senecio eubaeus</i> Boiss. & Heldr.	Greece	R	R
* <i>Senecio fruticulosus</i> Sibth. & Smith	Greece	R	R
<i>Senecio gallerandianus</i> Coss. & Durieu	Algeria	R	R
* <i>Senecio gnaphalodes</i> Sieber	Greece	R	R
<i>Senecio kebdanicus</i> Maire & Sennen	Morocco	R	R
<i>Senecio lopezii</i> Boiss. Spain (R)		V	V
<i>Senecio persoonii</i> De Not.	Italy	R	R
<i>Senecio petraeus</i> Boiss. & Reuter	Spain	R	R
<i>Senecio quinquerradiatus</i> Boiss. ex DC.	Spain	R	R
<i>Senecio sículus</i> All.		R	
<i>Serratula lycopifolia</i> (Vill.) A.Kerner France (V); Yugoslavia (R)		V	V
* <i>Solidago macrorrhiza</i> Lange France (I); Spain (I)		I	I
<i>Sonchus pustulatus</i> Willk. Spain (R)		R	
<i>Stachelina fruticosa</i> (L.) L. Greece		R	R
* <i>Streptorhamphus singularis</i> (Wilmott) Fernandes Casas Spain		R	R
<i>Telekia speciosissima</i> (L.) Less. Italy		R	R
<i>Tragopogon collinus</i> DC. Egypt (R); Israel (R)		R	R
<i>Tragopogon floccosus</i> Waldst. & Kit. Yugoslavia (R)		V	V
<i>Tragopogon lassithicus</i> Rech.f. Greece		R	R
<i>Volutaria belouini</i> (Humbert) Maire Morocco		R	R
<i>Volutaria saharae</i> (A.Chev.) Quezel & Santa Algeria		R	R
<i>Wagenitzia lancifolia</i> (Sieber ex Sprengel) Dostal Greece		V	V
CONVOLVULACEAE			
* <i>Convolvulus argyrothamnos</i> Greuter Greece		E	E
<i>Convolvulus durandoi</i> Pomel Algeria (E); Morocco (?)		E	E
<i>Convolvulus libanoticus</i> Boiss. Greece (R)		R	
<i>Convolvulus maireanus</i> Pampan. Libya		I	I
<i>Cuscuta atrans</i> Feinbrun Greece		I	I
<i>Cuscuta maroccana</i> Trabut Morocco		R	R

<i>Cuscuta triumvirati</i> Lange	Spain (R)	R	
<i>Ipomoea sinaica</i> Tackh. & Boulos	Egypt	E	E
* <i>Ipomoea stolonifera</i> (Cyr.) J.F.Gmelin	Greece (V); Italy (E)	V	
CRASSULACEAE			
<i>Jovibarba allionii</i> (Jordan & Fourr.) D.A.Webb	France (R); Italy (R)	R	R
<i>Kalanchoe faustii</i> Font Quer	Morocco	R	R
* <i>Sedum aetnense</i> Tineo	Albania (?); Italy (E) Spain (R); Yugoslavia	V	
<i>Sedum barcense</i> Maire & M.Weiller	Libya	R	R
<i>Sedum bracteatum</i> Viv.	Libya	R	R
<i>Sedum cyprium</i> A.K.Jackson & Turrill	Cyprus	R	R
<i>Sedum cyrenaicum</i> Brullo & Furnari	Libya	R	R
<i>Sedum gattefossei</i> Battand.	Morocco	R	R
<i>Sedum hierapetrae</i> Rech.f.	Greece	V	V
<i>Sedum lampusae</i> (Kotschy) Boiss.	Cyprus	R	R
<i>Sedum maurum</i> Humbert & Maire	Morocco	R	R
<i>Sedum microstachyum</i> (Kotschy) Boiss.	Cyprus	R	R
<i>Sedum multiceps</i> Coss. & Durieu	Algeria	R	R
<i>Sedum serpentini</i> Janchen	Albania (R); Greece (R)	R	R
* <i>Sedum stefco</i> Stef.	Bulgaria (R); Yugoslavia (?)	R	R
* <i>Sedum tymphaeum</i> Quezel & Contandr.	Greece	R	R
<i>Sedum wilczekianum</i> Font Quer	Morocco	R	R
<i>Sempervivum arboreum</i> L.	Morocco	I	I
<i>Sempervivum ballsii</i> Wale	Greece	R	R
<i>Sempervivum calcareum</i> Jordan	France (R); Italy (?)	R	R
<i>Sempervivum ciliosum</i> Craib	Greece (R); Yugoslavia (R)	R	R
<i>Sempervivum kindingeri</i> Adamovic	Greece (R); Yugoslavia (R)	R	R
<i>Sempervivum kosaninii</i> Praeger	Yugoslavia	R	R
<i>Sempervivum macedonicum</i> Praeger	Yugoslavia	R	R
<i>Sempervivum octopodes</i> Turrill	Yugoslavia	R	R
<i>Sempervivum thompsonianum</i> Wale	Yugoslavia	R	R
* <i>Sempervivum</i> sp. nov. (Strgar)	Yugoslavia	V	V
CRUCIFERAE			
<i>Aethionema orbiculatum</i> (Boiss.) Hayek	Greece	R	R
<i>Aethionema polygaloides</i> DC.	Greece (R)	R	
* <i>Aethionema retsina</i> Phitos & Snogerup	Greece	R	R
* <i>Aethionema thomasianum</i> Gay	Italy	R	R
<i>Alyssum akamasicum</i> B.L.Burt	Cyprus	E	E
<i>Alyssum antiatlanticum</i> Emberger & Maire	Morocco	R	R
<i>Alyssum chondrogynum</i> B.L.Burt	Cyprus	R	R
<i>Alyssum densistellatum</i> T.R.Dudley	Greece	R	R
* <i>Alyssum doerfleri</i> Degen	Greece (R); Yugoslavia (R)	R	R
<i>Alyssum euboicum</i> Halacsy	Greece	R	R
<i>Alyssum fallacinum</i> Hausskn.	Greece	R	R
<i>Alyssum fastigiatum</i> Heywood	Spain	E	E
<i>Alyssum flahaultianum</i> Emberger	Morocco	R	R
<i>Alyssum fragillimum</i> (Baldacci) Rech.f.	Greece	R	R
<i>Alyssum heldreichii</i> Hausskn.	Greece	R	R
<i>Alyssum idaeum</i> Boiss. & Heldr.	Greece	R	R
<i>Alyssum lassiticum</i> Halacsy	Greece	R	R
<i>Alyssum lesbiacum</i> (Candargy) Rech.f.	Greece	R	R
<i>Alyssum leucadeum</i> Guss.	Italy (V); Yugoslavia (R)	V	V
<i>Alyssum markgrafii</i> O.E.Schulz	Albania (R); Yugoslavia (R)	R	R
<i>Alyssum moellendorffianum</i> Aschers. ex Beck	Yugoslavia	R	R
<i>Alyssum robertianum</i> Bernard ex Gren. & Godron	France; Italy (V)	V	V
<i>Alyssum smolikanum</i> Nyar.	Albania (R); Greece (R)	R	R

Alyssum sphacioticum Boiss. & Heldr.		Greece	R	R
Alyssum taygeteum Heldr.		Greece	R	R
* Alyssum tenium Halacsy		Greece	R	R
Alyssum wulfenianum Bernh.	Yugoslavia (R)		R	R
Arabidopsis kneuckeri (Bornm.) O.E.Schulz		Egypt	V	V
Arabis cebennensis DC.		France	R	R
Arabis doumetii Coss.		Algeria	R	R
Arabis kennedyae Meikle		Cyprus	E	E
Arabis subflava B.M.G.Jones	Greece (R); Yugoslavia (R)		R	R
Arabis wernerii Emberger & Maire		Morocco	R	R
Aubrieta erubescens Griseb.		Greece	R	R
Aubrieta scyria Halacsy		Greece	R	R
* Aubrieta thessala Boissieu		Greece	R	R
Barbarea bosniaca Murb.		Yugoslavia	R	R
Barbarea conferta Boiss. & Heldr.		Greece	R	R
* Barbarea sicula C.Presl	Greece; Italy (V)		V	V
Berberoa gintlilii Rohl.		Yugoslavia	R	R
Biscutella brevicaulis Jordan		France	R	R
Biscutella cuneata (Font Quer) Font Quer ex M.-Laur.		Spain	R	R
Biscutella divionensis Jordan		France	V	V
Biscutella elbensis Chrtek		Egypt	V	V
Biscutella foliosa Mach.-Laur.		Spain	R	R
Biscutella gredensis Guinea		Spain	V	V
Biscutella megacarpaea Boiss. & Reuter		Spain	R	R
Biscutella neustriaca Bonnet		France	E	E
Biscutella rotgesii Foucaud		France	R	R
Biscutella sclerocarpa Revel		France	R	R
Biscutella variegata Boiss. & Reuter		Spain	R	R
Boleum asperum (Pers.) Desvoux		Spain	V	V
Bornmuellera dieckii Degen		Yugoslavia	R	R
Brassica balearica Pers.		Spain	R	R
Brassica cadmea Heldr. ex O.E.Schulz		Greece	R	R
Brassica desnottesii Emberger & Maire		Morocco	R	R
Brassica dimorpha Coss. & Durieu		Algeria	R	R
* Brassica glabrescens Poldini		Italy	V	V
Brassica gravinae Ten.	Italy (R)		R	
Brassica hilarionis Post		Cyprus	V	V
Brassica insularis Moris	France (V); Italy (R)		V	V
Brassica macrocarpa Guss.		Italy	E	E
Brassica souliei (Battand.) Battand.	Italy (V)		V	
Brassica spinescens Pomel		Algeria	V	V
Brassica villosa Biv.		Italy	R	R
* Cardamine maritima Portenschlag ex DC.	Italy; Yugoslavia (R)		R	R
Cochlearia aragonensis Coste & Soulie		Spain	R	R
Coronopus navasii Pau		Spain	E	E
Crambe tataria Sebeok	Yugoslavia		V	
Crambella teretifolia (Battand.) Maire		Morocco	R	R
Degenia velebitica (Degen) Hayek		Yugoslavia	V	V
Diplotaxis siettiana Maire		Spain	E	E
* Draba bruniifolia Steven	Greece (R)		R	
Draba loiseleurii Boiss.		France	R	R
* Drabopsis verna C.Koch	Greece (R)		R	
* Enarthrocarpus pterocarpus DC.	Malta (E)		E	
Erucastrum palustre (Pirona) Vis.		Italy	V	V
* Erysimum candicum Snogerup		Greece	R	R
* Erysimum naxense Snogerup		Greece	R	R

Erysimum olympicum Boiss.		Greece	R	R
Erysimum rechingeri S.Javorka		Greece	I	I
Erysimum rhodium Snogerup	Greece (R)		R	R
Euzomodendron bourgaeum Coss.		Spain	V	V
Guiraoa arvensis Coss.		Spain	V	V
Hemicrambe fruticulosa Webb		Morocco	R	R
Hesperis inodora L.	France (?); Italy (V)		V	V
Hesperis macedonica Adamovic	Yugoslavia		V	V
* Hesperis rechingeri Dvorak		Greece	R	R
Hesperis theophrasti Borbas	Greece (R); Yugoslavia		R	R
* Hesperis verroiana Dvorak		Greece	R	R
* Hormathophylla cadevalliana (Pau)		Spain	R	R
T.R.Dudley				
Hutera leptocarpa Gonz.-Albo		Spain	V	V
Hutera rupestris P.Porta		Spain	E	E
Iberis arbuscula Runemark		Greece	E	E
Iberis fontqueri Pau		Spain	R	R
* Iberis hegelmaierei Willk.		Spain	R	R
Iberis semperflorens L.		Italy	R	R
Ionopsidium albiflorum Durieu	Italy (V)		V	
Ionopsidium savianum (Caruel) Ball		Italy	V	V
ex Arcang.				
Isatis athoa Boiss.		Greece	R	R
Lepidium alluaudii Maire		Morocco	R	R
Lepidium cardamines L.		Spain	R	R
Lunaria telekiana S.Javorka		Albania	I	I
Lycocarpus fugax (Lag.) O.E.Schulz		Spain	R	R
Malcolmia heterophylla Caball.		Morocco	R	R
Maresia malcolmioides (Coss. & Durieu)		Algeria	V	V
Pomel				
Matthiola masguindalii Pau		Morocco	R	R
Moricandia foetida Bourg. ex Coss.		Spain	R	R
Moricandia foleyi Battand.		Algeria	V	V
* Murbeckiella boryi (Boiss.)	Spain (R)		R	R
Rothm.				
Otocarpus virgatus Durieu		Algeria	E	E
* Ptilotrichum cadevallianum (Pau) Heywood		Spain	R	R
Ptilotrichum macrocarpum (DC.) Boiss.		France	R	R
Ptilotrichum pyrenaicum (Lapeyr.) Boiss.		France	E	E
Ptilotrichum reverchonii Degen & Hervier		Spain	R	R
Rhizobotrya alpina Tausch		Italy	R	R
Rhynchosinapis granatensis (O.E.Schulz)		Spain	R	R
Heywood				
Rhynchosinapis nivalis (Boiss. & Heldr.)		Greece	R	R
Heywood				
Ricotia isatoides (Barbey) B.L.Burt		Greece	R	R
Robeschia schimperii (Boiss.) O.E.Schulz		Egypt	R	R
Rorippa icarica Rech.f.		Greece	R	R
Rytidocarpus moricandioides Coss.		Morocco	I	I
Schivereckia doerfleri (Wettst.)	Yugoslavia (R)		R	
Bornm.				
Sinapis allionii Jacq.		Egypt	R	R
Sinapis aucheri (Boiss.) O.E.Schulz		Egypt	I	I
Sinapis turgida Delile		Egypt	R	R
Sisymbrium matritense P.W.Ball & Heywood		Spain	E	E
Sisymbrium maurum Maire		Morocco	R	R
Sisymbrium supinum L.	France (E); Spain (?)		V	
* Thlaspi bulbosum Spruner ex Boiss.		Greece	R	R

<i>Thlaspi epirotum</i> Halacsy	Greece	R	R
<i>Torularia aculeolata</i> (Desf.) O.E.Schulz	Egypt	V	V
<i>Trachystoma aphanoneurum</i> Maire & M.Weiller	Morocco	R	R
<i>Vella pseudocytisus</i> L.	Spain	V	V
CYPERACEAE			
<i>Carex baldensis</i> L.	Italy (nt)	V	V
<i>Carex camposii</i> Boiss. & Reuter	Spain (V)	V	V
<i>Carex cretica</i> Gradstein & Kern	Greece	R	R
<i>Carex durieui</i> Steudel	Spain (V)	V	V
<i>Carex fimbriata</i> Schkuhr	France (R); Italy	R	R
<i>Carex grioletii</i> Roemer	France (V); Italy (I)	V	
	Spain (Ex); Yugoslavia		
<i>Carex phyllostachys</i> C.A.Meyer	Yugoslavia (R)	R	
<i>Carex trinervis</i> Degl. ex Loisel.	France; Spain (?)	V	V
<i>Cyperus papyrus</i> L.			
ssp. <i>hadidii</i> Chrtek & Slavikova	Egypt	E	E
<i>Eleocharis carniolica</i> Koch	Italy (E); Yugoslavia (V)	V	
<i>Eriophorum gracile</i> Koch	France (I); Italy (E)	V	
	Yugoslavia		
DIPSACACEAE			
<i>Knautia albanica</i> Briq.	Albania (R); Yugoslavia (R)	R	R
<i>Knautia baldensis</i> A.Kerner ex Borbas	Italy	I	I
<i>Knautia basaltica</i> Chass. & Szabo	France	I	I
<i>Knautia dalmatica</i> Beck	Yugoslavia	R	R
<i>Knautia foreziensis</i> Chass. & Szabo	France	R	R
<i>Knautia godetii</i> Reuter	France (R)	I	I
<i>Knautia lucana</i> Lacaita & Szabo	Italy	R	R
<i>Knautia magnifica</i> Boiss. & Orph.	Greece	R	R
<i>Knautia nevadensis</i> (M.Winkler ex Szabo) Szabo	Spain (R)	R	R
<i>Knautia pancicii</i> Szabo	Yugoslavia	R	R
<i>Knautia persicina</i> A.Kerner	Italy	I	I
<i>Knautia rupicola</i> (Willk.) Szabo	Spain	R	R
<i>Knautia sarajevensis</i> (Beck) Szabo	Yugoslavia	R	R
<i>Knautia travnicensis</i> (Beck) Szabo	Yugoslavia	R	R
* <i>Knautia velutina</i> Briq.	Italy (I)	V	V
<i>Pteroccephalus brevis</i> Coulter	Greece (V)	V	
<i>Scabiosa albocincta</i> Greuter	Greece	R	R
<i>Scabiosa camelorum</i> Coss. & Durieu	Algeria	R	R
<i>Scabiosa cartenniana</i> Pons & Quezel	Algeria	R	R
<i>Scabiosa cyprica</i> Boiss.	Cyprus	R	R
<i>Scabiosa epirota</i> Halacsy & Baldacci	Albania; Greece (R)	R	R
<i>Scabiosa fumarioides</i> Vis. & Panic	Yugoslavia	R	R
<i>Scabiosa limonifolia</i> Vahl	Italy	R	R
<i>Scabiosa minoana</i> (P.H.Davis) Greuter	Greece	R	R
<i>Scabiosa pulsatilloides</i> Boiss.	Spain	R	R
<i>Scabiosa turolensis</i> Pau ex Willk.	Spain (I)	I	
<i>Scabiosa variifolia</i> Boiss.	Greece (R)	R	
<i>Succisella petteri</i> (J.Kerner & Murb.) Beck	Albania; Yugoslavia (R)	R	R
DROSERACEAE			
* <i>Aldrovanda vesiculosa</i> L.	France (E); Italy (Ex)	V	
	Yugoslavia (V)		

ELATINACEAE

* <i>Elatine alsinastrum</i> L.	France; Greece Italy; Spain Yugoslavia (E)	V	
<i>Elatine brochonii</i> Clavaud	France (I)	I	

ERICACEAE

<i>Arbutus pavarii</i> Pampan.		Libya	V	V
<i>Erica sicula</i> Guss.	Italy (I)		I	

EUPHORBIACEAE

<i>Euphorbia bivonae</i> Steudel	Italy (R); Malta (I)		R	
<i>Euphorbia briquetii</i> Emberger & Maire		Morocco	R	R
<i>Euphorbia clementei</i> Boiss.	Spain (R)		R	
<i>Euphorbia cypria</i> Boiss.		Cyprus	I	I
<i>Euphorbia duvalii</i> Lecoq & Lamotte		France	R	R
<i>Euphorbia gasparrinii</i> Boiss.		Italy	R	R
* <i>Euphorbia gibelliana</i> Peola		Italy	R	R
<i>Euphorbia gregersenii</i> K.Maly ex Beck		Yugoslavia	R	R
<i>Euphorbia hieroglyphica</i> Coss. & Durieu		Algeria	V	V
<i>Euphorbia malvana</i> Maire		Morocco	R	R
<i>Euphorbia maresii</i> Knoche		Spain	R	R
<i>Euphorbia mazicum</i> Emberger & Maire		Morocco	R	R
<i>Euphorbia medicaginea</i> Boiss.	Spain		R	
<i>Euphorbia nereidum</i> Jahand. & Maire		Morocco	I	I
<i>Euphorbia nevadensis</i> Boiss. & Reuter		Spain	R	R
<i>Euphorbia obovata</i> Decaisne		Egypt	R	R
<i>Euphorbia orphanidis</i> Boiss.		Greece	R	R
<i>Euphorbia parvula</i> Delile	Egypt (R); Libya (R)		R	R
<i>Euphorbia pseudo-apios</i> Maire & M.Weiller		Libya	V	V
<i>Euphorbia punctata</i> Delile		Egypt	R	R
* <i>Euphorbia rechingeri</i> Greuter		Greece	R	R
<i>Euphorbia ruscinonensis</i> Boiss.		France	E	E
<i>Euphorbia veneris</i> Khan		Cyprus	R	R
<i>Mercurialis reverchonii</i> Rouy	Spain (R)		R	

FAGACEAE

<i>Quercus sicula</i> Borzi		Italy	I	I
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GENTIANACEAE

<i>Centaurium barrelieroides</i> Pau		Morocco	R	R
<i>Centaurium chloodes</i> (Brot.) G. Samp.	France (I); Spain (R)		I	I
* <i>Centaurium enclusense</i> O.Bolos et al.		Spain	R	R
* <i>Centaurium limoniiforme</i> Greuter		Greece	R	R
<i>Centaurium malzacianum</i> Maire		Egypt	V	V
<i>Centaurium rigualii</i> Esteve Chueca		Spain	R	R
<i>Centaurium triphyllum</i> (W.L.E.Schmidt) Melderis		Spain	R	R
<i>Gentiana dinarica</i> Beck	Albania; Italy (I) Yugoslavia (R)		I	I
<i>Gentiana ligustica</i> R. de Vilm. & Chopinet	France (R); Italy (V)		I	I
<i>Gentiana tornezyana</i> Litard. & Maire		Morocco	R	R
<i>Gentianella uliginosa</i> (Willd.) Borner	France (?)		V	V
<i>Lomatogonium carinthiacum</i> (Wulfen) Reichenb.	Italy (V)		V	

GERANIACEAE

Biebersteinia orphanidis Boiss.	Greece (Ex)		Ex	
Erodium alpinum L'Herit.		Italy	R	R
Erodium astragaloides Boiss. & Reuter		Spain	R	R
Erodium atlanticum Coss.		Morocco	R	R
Erodium battandieranum Rouy		Algeria	R	R
Erodium boissieri Coss.		Spain	R	R
* Erodium cazorlanum Heywood		Spain	R	R
Erodium chrysanthum L'Herit. ex DC.		Greece	V	V
Erodium guicciardii Heldr. ex Boiss.	Albania; Greece (R)		R	R
Erodium gussonii Ten.		Italy	I	I
Erodium guttatum (Desf.) Willd.	Spain (I)		I	
* Erodium hirtum (Forssk.) Willd.	Greece (R)		R	
Erodium masquindalii Pau		Morocco	R	R
Erodium rodiei (Braun-Blanquet) Poirion		France	R	R
Erodium rupestre (Pourret ex Cav.) Guittonn.		Spain	R	R
Erodium rupicola Boiss.		Spain	R	R
Erodium sanguis-christi Sennen		Spain	R	R
Erodium sibthorpiatum Boiss.	Greece (R)		R	R
Erodium subintegrifolium Eig		Israel	R	R
Geranium cataractarum Coss.	Spain (R)		R	
* Geranium cazorlense Heywood		Spain	R	R
Geranium humbertii Beauverd		Greece	E	E
Monsonia densiflora Tackh. & Boulos	Egypt (R)		R	

GESNERIACEAE

Jankaea heldreichii (Boiss.) Boiss.		Greece	V	V
* Ramonda nathaliae Pancic & Petrovic		Yugoslavia	I	I
Ramonda serbica Pancic	Albania (R); Greece (V) Yugoslavia (R)		R	R

GRAMINEAE

Aegilops umbellulata Zhuk.	Greece (R)		R	
Agropyron embergeri Maire		Morocco	R	R
Agropyropsis lolium (Balansa) A.Camus		Algeria	R	R
Aira provincialis Jordan	France		R	R
Ammochloa palaestina Boiss.	Spain (R)		R	
Antinoria insularis Parl.	France (R); Greece (I) Italy (V)		V	
Aristida brachyathera Coss. & Balansa		Algeria	R	R
Avena breviaristata G.Barratte		Algeria	I	I
Avena saxatilis (Lojac.) R.Afonso, in press		Italy	R	R
Avenula crassifolia (Font Quer) Holub		Spain	R	R
Avenula delicatula Franco	Portugal (R); Spain (?)		R	R
Brachypodium boissieri Nyman		Spain	R	R
Bromus garamas Maire		Algeria	R	R
Bromus maroccanus Pau & Font Quer		Morocco	R	R
Bromus sinaicus (Hackel) Tackh.		Egypt	R	R
Catapodium mamoraeum (Maire) Maire & M.Weiller		Morocco	R	R
Cenchrus ciliaris L.	Italy (R)		R	
Coleanthus subtilis (Tratt.) Seidl	France (E); Italy (Ex)		V	
Cornucopiae cucullatum L.	Greece (R); Italy (V) Malta (Ex)		V	
Corynephorus macrantherus Boiss. & Reuter	Spain (R)		R	

Cutandia stenostachya (Boiss.) Stace	Greece (R)		R	
Cymbopogon proximus (Hochst.) Stapf	Egypt (R)		R	
Deschampsia setacea (Huds.) Hackel	France (I); Spain (nt)		V	
Enneapogon persicus Boiss.	Spain (I)		I	
Eragrostis kneuckeri Hackel & Bornm.	Egypt		R	R
Eragrostis papposa (Dufour) Steudel	Spain (R)		R	
Festuca grandiaristata Markgraf-Dannenbergr	Greece		R	R
Festuca humbertii Litard. & Maire	Morocco		R	R
Festuca macedonica Vetter	Greece		R	R
Festuca olympica Vetter	Greece		R	R
Festuca oviniformis Vetter	Greece		R	R
Festuca pseudosupina Vetter	Greece		R	R
Festucopsis serpentini (C.E.Hubbard) Melderis	Albania		I	I
Helictotrichon petzense Melzer	Yugoslavia (R)		R	R
Holcus grandiflorus Boiss. & Reuter	Spain		R	R
Koeleria embergeri Quezel	Morocco		R	R
Leptochloa ginae Maire	Morocco		R	R
Libyella cyrenaica (E.Dur. & G.Barratte) Pampan.	Libya		I	I
Oropetium hesperidum Maire	Morocco		R	R
Poa feratiana Boiss. & Reuter	France (R); Spain (R)		R	R
Poa flaccidula Boiss. & Reuter	Spain (R)		R	
Poa pentapolitana H.Scholz	Libya		R	R
Poa trichophylla Heldr. & Sart. ex Boiss.	Greece		R	R
Saccharum spontaneum L.	Italy (V)		V	
Schmidta quinqueseta Benth. ex Ficalho & Hiern	Egypt		R	R
Sesleria doerfleri Hayek	Greece		R	R
Sesleria taygetea Hayek	Greece		R	R
Sorghum annuum Trabut	Algeria		R	R
Sporobolus lanuginellus Maire	Morocco		R	R
Stipa austroitalica Martinovsky	Italy		E	E
Stipa mayeri Martinovsky	Yugoslavia		R	R
Stipa novakii Martinovsky	Yugoslavia		R	R
Stipa rechingeri Martinovsky	Greece		R	R
Stipa sabulosa (Pacz.) Sljussarenko	Yugoslavia (R)		V	
Stipagrostis drarii (Tackh.) de Winter	Egypt		E	E
Trisetaria nitida (Desf.) Maire	Algeria		R	R
Ventenata macra (M.Bieb.) Boiss.	Greece (?)		R	
Vulpia obtusa Trabut	Algeria		E	E
GROSSULARIACEAE				
Ribes sardoum Martelli	Italy		E	E
HYDRANGEACEAE				
Philadelphus coronarius L.	Italy (I)		I	
HYPERICACEAE				
Hypericum aciferum (Greuter) N.K.B.Robson	Greece		E	E
* Hypericum amblycalyx Coust. & Gandoger	Greece		R	R
Hypericum andjerinum Font Quer & Pau	Morocco		R	R
Hypericum athoum Boiss. & Orph.	Greece		R	R
Hypericum caprifolium Boiss.	Spain		R	R
Hypericum delphicum Boiss. & Heldr.	Greece		R	R

<i>Hypericum fragile</i> Heldr. & Sart. ex Boiss.	Greece	R	R
<i>Hypericum haplophylloides</i> Halacsy & Baldacci	Albania	V	V
* <i>Hypericum hircinum</i> L. ssp. <i>cambessedesii</i> (Coss. ex Mares et al) Sauvage	Spain	V	V
* <i>Hypericum jovis</i> Greuter	Greece	V	V
* <i>Hypericum kelleri</i> Baldacci	Greece	R	R
<i>Hypericum metroi</i> Maire & Sauvage	Morocco	R	R
<i>Hypericum sinaicum</i> Hochst.	Egypt	R	R
<i>Hypericum taygeteum</i> Quezel & Contandr.	Greece	R	R
IRIDACEAE			
<i>Crocus boulosii</i> Greuter	Libya	V	V
<i>Crocus cyprius</i> Boiss. & Kotschy	Cyprus	E	E
<i>Crocus etruscus</i> Parl.	Italy	R	R
<i>Crocus goulimyi</i> Turrill	Greece	R	R
<i>Crocus hartmannianus</i> Holmboe	Cyprus	E	E
<i>Crocus imperati</i> Ten.	Italy	I	I
<i>Crocus olivieri</i> Gay	Greece (R)	R	
ssp. <i>balansae</i> (Gay) Mathew			
<i>Crocus oreocreticus</i> B.L.Burt	Greece	R	R
<i>Crocus robertianus</i> C.D.Brickell	Greece	V	V
<i>Iris helenae</i> Barbey	Egypt	R	R
<i>Iris humilis</i> Georgi	Yugoslavia (?)	V	
<i>Iris lortetii</i> Barbey	Israel (E); Lebanon (I)	E	E
<i>Iris marsica</i> Ricci & Colasante	Italy	R	R
<i>Iris serotina</i> Willk.	Spain	R	R
<i>Romulea antiatlantica</i> Maire	Morocco	R	R
<i>Romulea battandieri</i> Beguinot	Algeria	R	R
<i>Romulea penzigii</i> Beguinot	Algeria	R	R
<i>Romulea vaillantii</i> Quezel	Algeria	R	R
LABIATAE			
<i>Acinos corsicus</i> (Pers.) Getliffe	France	R	R
<i>Ajuga piskoi</i> Degen & Baldacci	Albania	R	R
<i>Ajuga tenorii</i> C.Presl	Italy	R	R
<i>Amaracus akhdarensis</i> (Ietsw. & al) Brullo & Furnari	Libya	R	R
<i>Amaracus cordifolius</i> Mont. & Aucher-Eley ex Benth.	Cyprus	E	E
<i>Amaracus pampaninii</i> Brullo & Furnari	Libya	R	R
<i>Ballota andreuzziana</i> Pampan.	Libya	V	V
<i>Ballota frutescens</i> (L.) Woods	France (R); Italy (V)	R	R
<i>Ballota wettsteinii</i> Rech.	Cyprus	R	R
<i>Calamintha cretica</i> (L.) Lam.	Greece	R	R
<i>Calamintha troodi</i> Post	Cyprus	R	R
<i>Dracocephalum austriacum</i> L.	France (E); Italy (I)	V	
<i>Euhesperida linearifolia</i> Brullo & Furnari	Libya	R	R
<i>Marrubium atlanticum</i> Battand.	Morocco	R	R
<i>Marrubium fontianum</i> Maire	Morocco	R	R
<i>Marrubium wernerii</i> Maire	Morocco	R	R
<i>Mentha gattefossei</i> Maire	Morocco	V	V
<i>Micromeria acropolitana</i> Halacsy	Greece	R	R
<i>Micromeria hispida</i> Boiss. & Heldr. ex Benth.	Greece	R	R
<i>Micromeria kernerii</i> Murb.	Yugoslavia	R	R
<i>Micromeria parviflora</i> (Vis.) Reichenb.	Albania; Yugoslavia (R)	R	R
<i>Micromeria serbaliana</i> Danin & Hedge	Egypt	R	R

Micromeria sinaica Benth.	Egypt (R); Israel (I)	I	I
* Micromeria tapeinantha Rech.f.	Greece	R	R
Micromeria taygetea P.H.Davis	Greece	E	E
Molucella spinosa L.	Greece (I); Italy (R) Spain (R)	R	
Nepeta beltranii Pau	Spain	R	R
Nepeta camphorata Boiss. & Heldr.	Greece	R	R
Nepeta cyrenaica Quezel & Zaffran	Libya	V	V
Nepeta dirphyia (Boiss.) Heldr. ex Halacsy	Greece	R	R
Nepeta foliosa Moris	Italy	R	R
Nepeta heldreichii Halacsy	Greece	R	R
Nepeta scordotis L.	Greece	R	R
Nepeta septemcrenata Ehrenb.	Egypt	R	R
* Nepeta sphaciotica P.H.Davis	Greece	E	E
Nepeta vivianii (Coss.) Beguinot & Vaccari	Libya	V	V
Origanum compactum Benth.	Spain (R)	R	
Origanum dictamnus L.	Greece	E	E
Origanum floribundum Munby	Algeria	R	R
Origanum isthmicum Danin	Egypt	R	R
Origanum liriium Heldr. ex Halacsy	Greece	V	V
* Origanum pau Martineze	Spain	I	I
Origanum scabrum Boiss. & Heldr.	Greece	V	V
Origanum tournefortii Aiton	Greece	R	R
Origanum vetteri Briq. & Barbey	Greece	R	R
Phlomis antiatlantica Peltier	Morocco	R	R
Phlomis aurea Decaisne	Egypt	R	R
Phlomis bovei de Noe	Algeria	R	R
Phlomis brevibracteata Turrill	Cyprus	R	R
Phlomis cypria Post	Cyprus	R	R
Phlomis floccosa D.Don	Greece (R)	R	
* Phlomis pichleri Vierh.	Greece	R	R
Pitardia nepetoides Battand.	Morocco	R	R
* Prunella cretensis Gandoger	Greece	R	R
Rosmarinus eriocalix Jordan & Fourr.	Spain (I)	I	
Salvia balansae de Noe	Algeria	R	R
Salvia blancoana Webb & Heldr.	Spain (R)	R	
Salvia brachyodon Vandas	Yugoslavia	R	R
Salvia candelabrum Boiss.	Spain	R	R
Salvia crassifolia Sibth. & Smith	Cyprus	R	R
Salvia gattefossei Emberger	Morocco	R	R
Salvia interrupta Schousboe	Morocco	R	R
Salvia jurisicii Kosanin	Yugoslavia	R	R
Satureja brivesii (Battand.) Murb.	Morocco	R	R
Satureja hispidula (Boiss. & Reuter) Maire	Algeria	V	V
Satureja monantha Font Quer	Morocco	R	R
Satureja peltieri Maire	Morocco	R	R
Satureja pomelii Briq.	Algeria	R	R
Satureja weilleri Maire	Morocco	R	R
Scutellaria balearica Barc.	Spain	R	R
* Scutellaria naxensis Bothmer	Greece	R	R
* Scutellaria rupestris Boiss. & Heldr.	Greece	R	R
Sideritis clandestina (Bory & Chaubard) Hayek	Greece	V	V
Sideritis cypria Post	Cyprus	R	R
Sideritis grandiflora Salzm. ex Benth.	Spain (I)	I	

<i>Sideritis imbricata</i> H.Lindb.	Morocco	R	R
<i>Sideritis javalambrensis</i> Pau	Spain	R	R
<i>Sideritis maireana</i> Font Quer & Pau	Morocco	R	R
<i>Sideritis maura</i> de Noe	Algeria	R	R
<i>Sideritis reverchonii</i> Willk.	Spain	R	R
<i>Sideritis serrata</i> Cav. ex Lag.	Spain	R	R
<i>Sideritis stachydioides</i> Willk.	Spain	R	R
<i>Stachys beckeana</i> Doerfler & Hayek	Albania (R); Yugoslavia (R)	R	R
<i>Stachys candida</i> Bory & Chaubard	Greece	R	R
<i>Stachys canescens</i> Bory & Chaubard	Greece	R	R
<i>Stachys chrysantha</i> Boiss. & Heldr.	Greece	R	R
<i>Stachys decumbens</i> Pers.	Albania; Greece (R)	R	R
<i>Stachys euboica</i> Rech.f.	Greece	R	R
<i>Stachys grantii</i> Battand.	Morocco	I	I
<i>Stachys guyoniana</i> de Noe	Algeria	R	R
<i>Stachys ionica</i> Halacsy	Greece	R	R
* <i>Stachys macrotricha</i> Rech.f. & Goulimy	Greece	R	R
<i>Stachys mialhesi</i> de Noe	Algeria	R	R
<i>Stachys parolinii</i> Vis.	Greece	R	R
<i>Stachys pubescens</i> Ten.	Italy (R); Yugoslavia	R	
<i>Stachys sericophylla</i> Halacsy	Albania	R	R
<i>Stachys spreitzenhoferi</i> Heldr.	Greece	R	R
<i>Stachys spruneri</i> Boiss.	Greece	R	R
<i>Stachys swainsonii</i> Benth.	Greece	R	R
<i>Stachys tetragona</i> Boiss. & Heldr.	Greece	R	R
<i>Stachys tournefortii</i> Poiret	Greece (R); Libya (V)	V	V
<i>Stachys virgata</i> Bory & Chaubard	Greece	R	R
<i>Stachys zoharyana</i> Eig	Israel	V	V
<i>Teucrium apollinis</i> Maire & M.Weiller	Libya	V	V
<i>Teucrium arduini</i> L.	Albania (R); Yugoslavia (R)	R	R
* <i>Teucrium aristatum</i> Perez-Lara	Spain	R	R
<i>Teucrium aroanium</i> Orph. ex Boiss.	Greece	R	R
<i>Teucrium atratum</i> Pomel	Algeria	R	R
<i>Teucrium barbeyanum</i> Asch. & Taub. ex Dur. & Barr.	Libya	V	V
<i>Teucrium charidemi</i> Sandwith	Spain	R	R
<i>Teucrium cuneifolium</i> Sibth. & Smith	Greece	R	R
<i>Teucrium dealianum</i> Emberger & Maire	Morocco	R	R
<i>Teucrium faurei</i> Maire	Morocco	R	R
<i>Teucrium francisci-wernerii</i> Rech.f.	Greece	V	V
<i>Teucrium gattefossei</i> Emberger	Morocco	R	R
<i>Teucrium gypsophilum</i> Emberger & Maire	Morocco	R	R
<i>Teucrium haenseleri</i> Boiss.	Spain (R)	R	R
<i>Teucrium halacsyanum</i> Heldr.	Greece	R	R
* <i>Teucrium hifacense</i> Pau	Spain	R	R
<i>Teucrium intricatum</i> Lange	Spain	R	R
<i>Teucrium kabylicum</i> Battand.	Algeria	V	V
<i>Teucrium santae</i> Quezel & Simonneau	Algeria	V	V
<i>Teucrium serpylloides</i> Maire & M.Weiller	Morocco	R	R
<i>Teucrium tananicum</i> Maire	Morocco	R	R
<i>Teucrium turredanum</i> Losa & Rivas Goday	Spain	R	R
<i>Teucrium wernerii</i> Emberger	Morocco	R	R
<i>Teucrium zaianum</i> Emberger & Maire	Morocco	R	R
<i>Teucrium zanonii</i> Pampan.	Libya	V	V
<i>Thymbra calostachya</i> (Rech.f.) Rech.f.	Greece	R	R
<i>Thymus afer</i> (Pau & F.Quer) Hug.-del-Vill.	Morocco	R	R
<i>Thymus bracteatus</i> Lange ex Cutanda	Spain	R	R
<i>Thymus decussatus</i> Benth.	Egypt	R	R
<i>Thymus dreatensis</i> Battand.	Algeria	V	V

Thymus hesperidum Maire		Morocco	R	R
Thymus mentagensis Battand.		Morocco	R	R
Thymus nitens Lamotte		France	R	R
Thymus oehmianus Ronn. & Soska		Yugoslavia	Ex	Ex
Thymus plasonii Adamovic		Greece	V	V
Thymus richardii Pers.	Italy (V); Spain Yugoslavia (R)		V	V
Ziziphora acinoides L.		Spain	R	R
LEGUMINOSAE				
Acacia gerrardii Benth.	Egypt (R); Israel (R)		V	
Adenocarpus faurei Maire		Algeria	E	E
Adenocarpus umbellatus Coss.		Algeria	E	E
Alhagi graecorum Boiss.	Greece (I)		I	
Anthyllis aegaea Turrill		Greece	R	R
Anthyllis henoniana Coss. ex Battand.	Spain (R)		R	
Anthyllis rupestris Coss.		Spain	R	R
Argyrolobium biebersteinii P.W.Ball	Yugoslavia (?)		R	
Astragalus agraniotii Orph. ex Boiss.		Greece	R	R
Astragalus algarbiensis Coss. ex Bunge	Spain (I)		E	E
Astragalus antiatlanticus Emberger & Maire		Morocco	R	R
* Astragalus aquilinus Anzalone		Italy	E	E
Astragalus austraegaeus Rech.f.		Greece	R	R
Astragalus autranii Baldacci		Albania	I	I
Astragalus camelorum Barbey		Egypt	R	R
Astragalus centralpinus Braun-Blanquet	France (V); Italy (R)		V	V
Astragalus cyrenaicus Coss.		Libya	V	V
* Astragalus dasyanthus Pallas	Yugoslavia (R)		V	V
Astragalus drupaceus Orph. ex Boiss.		Greece	R	R
Astragalus fialae Degen	Albania; Yugoslavia (R)		R	R
Astragalus font-queri Maire & Sennen		Morocco	R	R
Astragalus fresenii Decaisne		Egypt	R	R
Astragalus froedinii Murb.		Morocco	R	R
Astragalus galilaeus Freyn & Bornm.		Israel	R	R
Astragalus geniorum Maire		Algeria	R	R
Astragalus giennensis Heywood		Spain	R	R
Astragalus grossii Pau		Spain	R	R
Astragalus huetii Bunge		Italy	I	I
* Astragalus idaeus Bunge		Greece	R	R
Astragalus lacteus Heldr. & Sart. ex Boiss.		Greece	R	R
Astragalus longidentatus Chater	Spain (R)		R	
Astragalus macrocarpus DC. ssp. lefkarensis Agerer-Kirchoff & Meikle		Cyprus	E	E
* Astragalus maritimus Moris		Italy	E	E
Astragalus muelleri Steudel & Hochst.	Italy; Yugoslavia (R)		R	R
Astragalus nummularius Lam.		Greece	R	R
Astragalus peregrinus Vahl	Greece (I)		I	
* Astragalus physocalyx Fischer	Yugoslavia (I)		I	I
Astragalus polyactinus Boiss.	Spain (R)		R	
Astragalus tachdirtensis Andreanszky		Morocco	R	R
Astragalus taubertianus Asch. & Barbey ex Dur. & Barr.		Libya	V	V
Astragalus tremolsianus Pau		Spain	R	R

* <i>Astragalus verrucosus</i> Moris		Italy	E	E
<i>Astragalus weillei</i> Emberger & Maire		Morocco	R	R
<i>Benedictella benoistii</i> Maire		Morocco	I	I
<i>Calycotome grosii</i> Pau & Font Quer		Morocco	I	I
<i>Cicer atlanticum</i> (Coss.) Maire		Morocco	R	R
<i>Cicer graecum</i> Orph. ex Boiss.		Greece	R	R
<i>Colutea insularis</i> Browicz		Greece	I	I
<i>Crotalaria vialattei</i> Battand.		Algeria	E	E
<i>Cytisopsis pseudocytisus</i> (Boiss.) Fertig		Israel	R	R
<i>Cytisus aeolicus</i> Guss. ex Lindl.		Italy	E	E
<i>Cytisus ardoini</i> Fourn.		France	R	R
<i>Cytisus emeriflorus</i> Reichenb.	Italy		R	R
<i>Cytisus sauzeanus</i> Burnat & Briq.		France	R	R
* <i>Ebenus sibthorpii</i> DC.		Greece	R	R
<i>Genista dorycnifolia</i> Font Quer		Spain	R	R
* <i>Genista halacsyi</i> Heldr.		Greece	R	R
* <i>Genista holopetala</i> (Fleischm. ex Koch) Baldacci	Italy (I); Yugoslavia (R)		R	R
* <i>Genista melia</i> Boiss.		Greece	Ex	Ex
* <i>Genista millii</i> Heldr. ex Boiss.		Greece	R	R
<i>Genista nissana</i> Petrovic		Yugoslavia	R	R
<i>Genista nociva</i> Pau & Font Quer		Morocco	R	R
* <i>Genista parnassica</i> Halacsy		Greece	R	R
<i>Genista ramosissima</i> (Desf.) Poiret	Spain (R)		R	
<i>Genista sakellariadis</i> Boiss. & Orph.		Greece	R	R
<i>Genista spinulosa</i> Pomel		Algeria	E	E
<i>Genista teretifolia</i> Willk.		Spain	R	R
<i>Hedysarum boutignyanum</i> Alleiz.		France	R	R
<i>Hedysarum macedonicum</i> Bornm.		Yugoslavia	R	R
<i>Hedysarum perralderianum</i> Coss.		Algeria	R	R
<i>Hedysarum zeluanum</i> Pau		Morocco	R	R
<i>Hippocrepis salzmanii</i> Boiss. & Reuter	Spain (R)		R	
<i>Lathyrus fissus</i> Ball		Morocco	R	R
<i>Lathyrus lentiformis</i> Plitm.		Israel	E	E
<i>Lathyrus neurolobus</i> Boiss. & Heldr.		Greece	R	R
<i>Lathyrus pancicii</i> (Jurisic) Adamovic	Yugoslavia (R)		R	R
<i>Lotus aduncus</i> (Griseb.) Nyman		Greece	R	R
<i>Lotus macrotrichus</i> Boiss.	Greece (R)		R	R
<i>Lygos raetam</i> (Forssk.) Heywood	Italy (V)		V	
<i>Medicago cyrenaica</i> Maire & M.Weiller		Libya	R	R
* <i>Medicago heyniana</i> Greuter		Greece	V	V
<i>Medicago pironae</i> Vis.		Italy	R	R
<i>Melilotus serratifolia</i> Tackh. & Boulos		Egypt	V	V
* <i>Onobrychis aliacmonia</i> Rech.f.		Greece	Ex	Ex
<i>Onobrychis degenii</i> Doerfler		Yugoslavia	I	I
<i>Onobrychis sphaciotica</i> Greuter		Greece	R	R
<i>Ononis avellana</i> Pomel		Algeria	V	V
<i>Ononis cossoniana</i> Boiss. & Reuter	Spain (R)		R	
<i>Ononis crinita</i> Pomel		Algeria	V	V
<i>Ononis filicaulis</i> Salzm. ex Boiss.	Spain (I)		I	
<i>Ononis jahandiezii</i> Maire		Morocco	R	R
<i>Ononis masquillierii</i> Bertol.	Italy (V)		V	
<i>Ononis megalostachys</i> Munby		Algeria	E	E
<i>Ononis pedicellaris</i> (Battand.) Sirj.		Morocco	R	R

Ononis pseudocintrana Andreanszky	Morocco	R	R
Ononis saxicola Boiss. & Reuter	Spain	I	I
* Ononis verae Sirj.	Greece (I)	I	
Ononis zygantha Maire & Wilczek	Morocco	R	R
Ornithopus uncinatus Maire & G.Samuelsson	Morocco	R	R
Oxytropis prenja (Beck) Beck	Albania; Yugoslavia (R)	R	R
Oxytropis purpurea (Baldacci) Markgraf	Albania; Greece (R)	R	R
Tephrosia kassasi Boulos	Egypt	Ex	Ex
* Tetragonolobus wiedemannii Boiss.	Greece	Ex	Ex
Trifolium acutiflorum Murb.	Morocco	R	R
Trifolium bivonae Guss.	Italy	R	R
Trifolium congestum Guss.	Algeria (E)	E	
Trifolium dolopium Heldr. & Hausskn.	Greece	R	R
Trifolium palaestinum Boiss.	Israel	I	I
Trifolium philistaeum Zohary	Egypt (R); Israel (I)	I	I
Trifolium savianum Guss.	Libya (V)	V	
Trifolium saxatile All.	France (R); Italy (E)	V	V
Trifolium tastetii Font Quer	Morocco	R	R
Trifolium velebiticum Degen	Yugoslavia	R	R
* Trifolium wettsteinii Doerfler & Hayek	Albania	R	R
Trigonella balachowskyi Leredde	Algeria	E	E
Trigonella media Delile	Egypt	R	R
Trigonella rechingeri Sirj.	Greece	R	R
Vicia argentea Lapeyr.	France; Spain (I)	I	I
Vicia bifoliolata J.D.Rodriguez	Spain	R	R
Vicia fairchildiana Maire	Morocco	R	R
Vicia fulgens Battand.	Algeria	I	I
Vicia garbiensis Font Quer & Pau	Morocco	R	R
Vicia montenegrina Rohl.	Yugoslavia (R)	R	R
Vicia serinica Uechtr. & Huter	Italy	R	R
* Vicia sicula (Raf.) Guss.	Italy (V)	V	
Vicia sinaica Boulos	Egypt	R	R
Vicia sparsiflora Ten.	Italy (R); Yugoslavia (R)	V	
LENTIBULARIACEAE			
Pinguicula vallisneriifolia Webb	Spain	R	R
LILIACEAE			
Allium autumnale P.H.Davis	Cyprus	I	I
Allium circinnatum Sieber	Greece	R	R
Allium crameri Aschers. & Boiss.	Egypt	E	E
Allium ferrinii Pampan.	Greece	R	R
Allium frigidum Boiss. & Heldr.	Greece	R	R
Allium heldreichii Boiss.	Greece	R	R
Allium insubricum Boiss. & Reuter	Italy	R	R
Allium kermesinum Reichenb.	Yugoslavia	R	R
Allium longanum Pampan.	Greece (R); Egypt (V) Libya (V)	V	V
Allium luteolum Halacsy	Greece	R	R
Allium macedonicum Zahar.	Greece	R	R
Allium mareoticum Bornm. & Gauba	Egypt	R	R
Allium parnassicum (Boiss.) Halacsy	Greece	R	R
Allium phthioticum Boiss. & Heldr. ex Boiss.	Greece	R	R
Allium pilosum Smith	Greece	R	R
Allium regnieri Maire	Morocco	R	R
Allium rouyi Gaut.	Spain	Ex	Ex
Allium seirotrichum Ducell. & Maire	Algeria	E	E
Allium sinaiticum Boiss.	Egypt	R	R
Allium sipyleum Boiss.	Greece (R)	R	

<i>Allium suaveolens</i> Jacq.	Albania; France Italy (nt); Spain Yugoslavia (R)	V	
<i>Allium trichocnemis</i> Gay		Algeria	E E
<i>Allium troodi</i> Lindb.f.		Cyprus	I I
<i>Allium valdecallosum</i> Maire & M.Weiller		Morocco	R R
<i>Allium willeaenum</i> Holmboe		Cyprus	I I
<i>Androcymbium rechingeri</i> Greuter	Greece (E)		E
<i>Bellevalia brevipedicellata</i> Turrill		Greece	I I
<i>Bellevalia cyrenaica</i> Maire & M.Weiller		Libya	R R
<i>Bellevalia pomelii</i> Maire		Algeria	V V
<i>Bellevalia salah-eidii</i> Tackh. & Boulos	Egypt (E); Libya (E)		E E
<i>Chionodoxa lochia</i> Meikle		Cyprus	E E
<i>Colchicum arenarium</i> Waldst. & Kit.	Yugoslavia		E E
<i>Colchicum corsicum</i> Baker		France	R R
<i>Colchicum cousturieri</i> Greuter		Greece	V V
<i>Colchicum macedonicum</i> Kosanin		Yugoslavia	R R
<i>Fritillaria conica</i> Boiss.		Greece	R R
<i>Fritillaria davisii</i> Turrill		Greece	R R
<i>Fritillaria drenovskii</i> Degen & Stoy.	Greece (R)		R R
<i>Fritillaria epirotica</i> Turrill ex Rix		Greece	R R
<i>Fritillaria euboeica</i> Rix		Greece	R R
<i>Fritillaria gussichiae</i> (Degen & Doerfler) Rix	Greece (R); Yugoslavia (R)		R R
<i>Fritillaria involucrata</i> All.	France (R); Italy (E)		R R
<i>Fritillaria macedonica</i> Bornm.	Albania; Yugoslavia (R)		R R
<i>Fritillaria obliqua</i> Ker-Gawl.		Greece	R R
<i>Fritillaria rhodia</i> Hansen		Greece	I I
<i>Fritillaria rhodocanakis</i> Orph. ex Baker		Greece	R R
<i>Fritillaria sribrnyi</i> Velen.	Yugoslavia (?)		R
<i>Fritillaria tuntasia</i> Heldr. ex Halacsy		Greece	R R
<i>Gagea mauritanica</i> Durieu		Algeria	R R
<i>Gagea trinervia</i> (Viv.) Greuter	Libya (R)		R
<i>Hyacinthella atchleyi</i> (A.K.Jackson et al) Feinbrun		Greece	R R
<i>Hyacinthella dalmatica</i> (Baker) Chouard		Yugoslavia	R R
<i>Leopoldia albiflora</i> Tackh. & Boulos		Egypt	E E
<i>Leopoldia bicolor</i> (Boiss.) Eig & Feinbrun		Egypt	R R
<i>Leopoldia longistyla</i> Tackh. & Boulos		Egypt	E E
<i>Leopoldia salah-eidii</i> Tackh. & Boulos		Egypt	R R
<i>Lilium pomponium</i> L.	France (R); Italy (I) Spain (?)		V V
<i>Lilium rhodopaeum</i> Delip.	Greece		R R
<i>Muscari dionysicum</i> Rech.f.		Greece	R R
<i>Muscari gussonei</i> (Parl.) Tod.		Italy	E E
<i>Narthecium scardicum</i> Kosanin	Albania; Yugoslavia (R)		R R
<i>Ornithogalum costatum</i> Zahar.		Greece	R R
<i>Ornithogalum exaratum</i> Zahar.		Greece	R R
<i>Scilla cupanii</i> Guss.		Italy	R R
<i>Scilla hughii</i> Tineo ex Guss.		Italy	R R
<i>Scilla latifolia</i> Willd.	Morocco (I)		V V
<i>Scilla litardierei</i> Breistr.		Yugoslavia	R R
<i>Scilla morrisii</i> Meikle		Cyprus	E E
<i>Scilla odorata</i> Link	Spain (R)		R
<i>Tulipa biflora</i> Pallas	Yugoslavia		V
<i>Tulipa boeotica</i> Boiss. & Heldr.	Greece (V); Yugoslavia (R)		V

<i>Tulipa cypria</i> Stapf	Cyprus	V	V
<i>Tulipa doerfleri</i> Gandoger	Greece	R	R
<i>Tulipa goulimyi</i> Sealy & Turrill	Greece	V	V
<i>Tulipa veneris</i> A.D.Hall	Cyprus	I	I
LINACEAE			
* <i>Linum caespitosum</i> Sibth. & Smith	Greece	R	R
* <i>Linum doerfleri</i> Rech.f.	Greece	R	R
* <i>Linum goulimyi</i> Rech.f.	Greece	R	R
* <i>Linum gyaricum</i> Vierh.	Greece	R	R
<i>Linum leonii</i> F.W.Schultz	France (V)	V	V
<i>Linum subasperifolium</i> Humbert & Maire	Morocco	R	R
<i>Linum villarianum</i> Pau	Morocco	R	R
LORANTHACEAE			
<i>Viscum cruciatum</i> Sieber ex Boiss.	Spain (R)	I	
LYTHRACEAE			
<i>Lythrum castellanum</i> Gonz.-Albo ex Borja	Spain	R	R
<i>Lythrum flexuosum</i> Lag.	Spain	R	R
MALVACEAE			
<i>Alcea galilaea</i> Zohary	Israel	R	R
<i>Althaea longiflora</i> Boiss. & Reuter	Spain (R)	R	
* <i>Hibiscus palustris</i> L.	France (I); Italy	V	
<i>Kosteletzkya pentacarpos</i> (L.) Ledeb.	Italy (R); Spain	V	
<i>Lavatera maroccana</i> (Battand. & Trabut) Maire	Morocco	I	I
* <i>Lavatera mauritanica</i> Durieu	Spain (E)	V	
<i>Lavatera microphylla</i> Baker f.	Morocco	R	R
<i>Lavatera oblongifolia</i> Boiss.	Spain	R	R
<i>Lavatera vidali</i> Pau	Morocco	R	R
NYCTAGINACEAE			
<i>Commicarpus plumbagineus</i> (Cav.) Standley	Spain (R)	R	
OLEACEAE			
<i>Forsythia europaea</i> Degen & Baldacci	Albania (R); Yugoslavia (R)	R	R
<i>Olea laperrinei</i> Battand. & Trabut	Algeria; Morocco (?)	V	V
ONAGRACEAE			
<i>Epilobium numidicum</i> Battand.	Algeria	E	E
<i>Epilobium psilotum</i> Maire & G.Samuelsson	Morocco	R	R
ORCHIDACEAE			
<i>Cephalanthera cucullata</i> Boiss. & Heldr.	Greece	V	V
<i>Comperia comperiana</i> (Steven) Aschers. & Graebner	Greece (V)	V	
<i>Epipactis troodi</i> Lindb.f.	Cyprus	V	V
<i>Hammarbya paludosa</i> (L.) Kuntze	France (E); Yugoslavia (Ex)	V	
<i>Liparis loeselii</i> (L.) Rich.	France (V); Italy (E) Yugoslavia (E)	V	
<i>Ophrys argolica</i> Fleischm. ssp. <i>argolica</i>	Greece	R	R
<i>Ophrys argolica</i> Fleischm. ssp. <i>elegans</i> (Renz) Erich Nelson	Cyprus	R	R
<i>Ophrys kotschyi</i> Fleischm. & Soo	Cyprus	V	V
<i>Ophrys lunulata</i> Parl.	Italy (I); Malta (R)	I	I
<i>Ophrys pallida</i> Raf.	Algeria (E)	E	
<i>Ophrys sphegodes</i> Mill. ssp. <i>helanae</i> (Renz) D.M.Moore	Greece	R	R
<i>Orchis cyrenaica</i> E.Dur. & G.Barratte	Libya	V	V
<i>Orchis prisca</i> Hautzinger	Greece	V	V

OROBANCHACEAE

Orobanche ducellieri Maire		Algeria	R	R
Orobanche fuscovinosa Maire		Morocco	R	R
Orobanche haenseleri Reuter		Spain	R	R
Orobanche hookeriana Ball		Morocco	R	R
Orobanche humbertii Maire		Morocco	R	R
Orobanche leptantha Pomel		Algeria	R	R
* Orobanche rechingeri Gilli		Greece	I	I
Orobanche schweinfurthii Beck		Egypt	R	R
Orobanche serbica Beck & Petrovic	Yugoslavia (R)		R	R
Orobanche trichocalyx (Webb & Berthel.) Beck	Spain (R)		R	R

PAEONIACEAE

Paeonia cambessedesii (Willk.) Willk.		Spain	V	V
* Paeonia clusii Stern				
ssp. rhodia (Stearn) Tzanoudakis		Greece	V	V
* Paeonia parnassica Tzanoudakis		Greece	V	V

PALMAE

Medemia argun Wurttemb. ex Mart.	Egypt (E)		E	E
Phoenix theophrasti Greuter		Greece	V	V

PAPAVERACEAE

Ceratocapnos heterocarpa Durieu	Spain (R)		R	
Corydalis acaulis (Wulfen) Pers.		Yugoslavia	R	R
* Corydalis thasia (Stoy. & Kit.) Stoy. & Kit.		Greece	R	R
Fumaria mairei Pugsley		Algeria	R	R
Fumaria reuteri Boiss.	Spain (V)		V	
Hypocoum aequilobum Viv.	Egypt (R); Libya (V)		V	V
Hypocoum dimidiatum Delile		Egypt	R	R
Papaver decaisnei Hochst. & Steudel		Egypt	R	R
Papaver divergens Fedde & Bornm.		Egypt	I	I
* Papaver nigroinctum Fedde		Greece	R	R
Papaver rupifragum Boiss. & Reuter		Spain	V	V
Papaver stipitatum Fedde		Greece	I	I
Papaver suaveolens Lapeyr.		Spain	R	R
Platycapnos saxicola Willk.	Spain (R)		R	
Roemeria procumbens Aarons. & Oppenh.	Israel (V)		V	
Rupicapnos africana (Lam.) Pomel	Spain (E)		E	
Rupicapnos muricaria Pomel		Algeria	R	R
Sarcocapnos integrifolia (Boiss.) Cuatrec.		Spain	R	R

PLANTAGINACEAE

Plantago libyca Beguinot & Vaccari		Libya	E	E
Plantago notata Lag.	Spain (I)		I	
Plantago reniformis Beck	Albania (R); Yugoslavia (R)		R	R

PLUMBAGINACEAE

Armeria alpinifolia Pau & Font Quer		Morocco	R	R
Armeria colorata Pau		Spain	R	R
Armeria eriophylla Willk.	Spain (?)		R	R
Armeria hispalensis Pau		Spain	R	R
Armeria sancta Janka		Greece	R	R
Armeria soleirolii (Duby) Godron		France	E	E
Armeria vandasii Hayek		Yugoslavia	R	R
* Goniolimon dalmaticum (C.Presl) Reichenb.f.	Albania; Yugoslavia (R)		R	R
Goniolimon heldreichii Halacsy		Greece	R	R
Goniolimon sartorii Boiss.		Greece	R	R
Limonium albidum (Guss.) Pignatti	Italy (V)		V	

<i>Limonium album</i> (Coincy) Sennen	Spain	R	R
<i>Limonium aragonense</i> (Debeaux) Pignatti	Spain	R	R
<i>Limonium biflorum</i> (Pignatti) Pignatti	Spain	R	R
<i>Limonium calaminare</i> Pignatti ex Pignatti	Spain	R	R
<i>Limonium calcarae</i> (Tod. ex Janka) Pignatti	Italy	V	V
<i>Limonium carpathum</i> (Rech.f.) Rech.f.	Greece	R	R
<i>Limonium coinnyi</i> Sennen	Spain	R	R
<i>Limonium cordatum</i> (L.) Miller	France; Italy (V)	V	V
<i>Limonium cosyrense</i> (Guss.) Kuntze	Italy (R); Malta (R)	R	R
<i>Limonium cudayense</i> Sauvage & Vindt	Morocco	I	I
<i>Limonium densissimum</i> (Pignatti) Pignatti	Spain	R	R
<i>Limonium eugeniae</i> Sennen	Spain	R	R
<i>Limonium frederici</i> (Barbey) Rech.f.	Greece	R	R
<i>Limonium gibertii</i> (Sennen) Sennen	Spain	R	R
<i>Limonium hermaeum</i> (Pignatti) Pignatti	Italy	R	R
<i>Limonium inarimense</i> (Guss.) Pignatti ssp. <i>inarimense</i>	Italy	V	V
<i>Limonium japygicum</i> (Groves) Pignatti	Italy	V	V
<i>Limonium johannis</i> Pignatti	Italy	V	V
<i>Limonium laetum</i> (Nyman) Pignatti	Italy	V	V
<i>Limonium lausianum</i> Pignatti	Italy	R	R
<i>Limonium letourneuxii</i> (Coss.) Pons & Quezel	Algeria	R	R
<i>Limonium lingua</i> (Pomel) Pons & Quezel	Algeria	R	R
<i>Limonium lucentinum</i> Pignatti & Freitag	Spain	R	R
<i>Limonium majoricum</i> Pignatti	Spain	R	R
<i>Limonium oleifolium</i> Miller ssp. <i>pseudodictyocladum</i> (Pignatti) Pignatti	Spain	R	R
<i>Limonium panormitanum</i> (Tod.) Pignatti	Italy	V	V
<i>Limonium parvibracteatum</i> Pignatti	Spain	R	R
<i>Limonium parvifolium</i> (Tineo) Pignatti	Italy	V	V
<i>Limonium pujosii</i> Sauvage & Vindt	Morocco	R	R
<i>Limonium remotispiculum</i> (Lacaita) Pignatti	Italy	V	V
<i>Limonium rungsii</i> Sauvage & Vindt	Morocco	R	R
<i>Limonium sibthorpiatum</i> (Guss.) Kuntze Italy (V)	V		
<i>Limonium subtrotundifolium</i> (Beguinot & Vaccari) Brullo	Libya	R	R
<i>Limonium tenoreanum</i> (Guss.) Pignatti	Italy	V	V
<i>Limonium teuchirae</i> Brullo	Libya	R	R
<i>Limonium vestitum</i> (C.E.Salmon) C.E.Salmon	Yugoslavia	R	R
POLYGALACEAE			
<i>Polygala aschersoniana</i> Chodat	Libya	V	V
<i>Polygala carueliana</i> (A.W.Benn.) Burnat ex Caruel	Italy	R	R
* <i>Polygala doerfleri</i> Hayek	Albania	R	R
* <i>Polygala helenae</i> Greuter	Greece	V	V
<i>Polygala sardoa</i> Chodat	Italy	R	R
<i>Polygala sinaica</i> Botsch.	Egypt (R); Israel (?)	R	R
<i>Polygala vayredae</i> Costa	Spain	R	R
POLYGONACEAE			
<i>Calligonum calvescens</i> Maire	Algeria	E	E
<i>Polygonum icaricum</i> Rech.f.	Greece	R	R
<i>Polygonum obtusifolium</i> Tackh. & Boulos	Egypt	R	R
<i>Rumex cantabricus</i> Rech.f.	Spain	R	R
<i>Rumex rothschildianus</i> Aarons. ex Evenari	Israel	E	E

Rumex rupestris Le Gall	France (V); Spain (I)	V	
* Rumex vesicarius L.	Greece (Ex)	Ex	
POTAMOGETONACEAE			
Groenlandia densa (L.) Fourr.	France (nt); Greece Italy; Spain Yugoslavia (R)	V	
Potamogeton hoggarensis Dandy	Algeria	E	E
Potamogeton rutilus Woflg.	France (?)	V	
PRIMULACEAE			
Androsace brevis (Hegetschw.) Ces.	Italy	R	R
Androsace chaixii Gren. & Godron	France	R	R
Androsace ciliata DC.	France; Spain (R)	I	I
Androsace cylindrica DC.	France (R); Spain (R)	R	R
Androsace mathildae Levier	Italy	V	V
Androsace pyrenaica Lam.	France (R); Spain (I)	R	R
Coris hispanica Lange	Spain	V	V
Cyclamen rhodium R.Gorer	Greece	I	I
Cyclamen rohlfsianum Aschers.	Libya	V	V
Lysimachia cousiniana Coss. & Durieu	Algeria	R	R
Lysimachia minoricensis J.D.Rodriguez	Spain	Ex	Ex
Primula allionii Loisel.	France (V); Italy (R)	V	V
Primula apennina Widmer	Italy	E	E
Primula boveana Decaisne	Egypt	R	R
Primula carniolica Jacq.	Yugoslavia	R	R
Primula glaucescens Moretti	Italy	R	R
Primula kitaibeliana Schott	Yugoslavia	R	R
Primula palinuri Petagna	Italy	R	R
Primula spectabilis Tratt.	Italy	R	R
Primula vulgaris Huds. ssp. balearica W.W.Smith & Forrest	Spain	V	V
Soldanella pindicola Hausskn.	Greece	R	R
Soldanella villosa Darracq	France (V); Spain (R)	V	V
RANUNCULACEAE			
* Aconitum angustifolium Bernh.	Yugoslavia	R	R
* Adonis cyllenea Boiss., Heldr. & Orph.	Greece (V)	V	
Adonis distorta Ten.	Italy	V	V
Aquilegia alpina L.	France (R); Italy (I)	V	V
* Aquilegia amaliae Heldr. ex Boiss.	Albania (R); Greece (R) Yugoslavia (?)	R	R
Aquilegia bernardii Gren. & Godron	France (R); Italy (V)	V	V
Aquilegia bertolonii Schott	France; Italy (V)	V	V
Aquilegia cazorlensis Heywood	Spain	E	E
Aquilegia dinarica Beck	Albania (R); Yugoslavia (R)	R	R
Aquilegia grata F.Maly ex Zimmeter	Yugoslavia	R	R
Aquilegia kitaibelii Schott	Italy (E); Yugoslavia (R)	R	
Aquilegia ottonis Orph. ex Boiss.	Greece (R); Italy (E)	V	V
Aquilegia pauifont Quer	Spain	R	R
Aquilegia thalictrifolia Schott & Kotschy	Italy	R	R
Callianthemum kernerianum Freyn ex A.Kerner	Italy	V	V
* Clematis elisabethae-carolae Greuter	Greece	V	V
Consolida samia P.H.Davis	Greece	E	E
Consolida tuntasiana (Halacsy) Soo	Greece	I	I
Delphinium bovei Decaisne	Egypt; Israel	R	R
Delphinium caseyi B.L.Burtt	Cyprus	E	E
Delphinium cossonianum Battand.	Morocco	V	V

Delphinium hirschfeldianum Heldr. & Holzm.	Greece	I	I
Delphinium montanum DC.	France (R); Spain (R)	R	
Delphinium nanum DC.	Egypt (V); Libya (V)	V	V
* Delphinium requienii DC.	France; Italy (I)	V	
* Delphinium sordidum Cuatrec.	Spain	R	R
* Garidella unguicularis Lam.	Greece (V)	V	
* Helleborus lividus Aiton	Spain	V	V
* Nigella carpatha Strid	Greece	R	R
Nigella fumariifolia Kotschy	Greece (R)	R	
Nigella icarica Strid	Greece	R	R
* Nigella stricta Strid	Greece	R	R
Ranunculus batrachioides Pomel	Italy (R)	R	
Ranunculus bilobus Bertol.	Italy	R	R
Ranunculus creticus L.	Greece	R	R
Ranunculus cupreus Boiss. & Heldr.	Greece	R	R
Ranunculus cyclocarpus Pampan.	Libya	V	V
Ranunculus cymbalarifolius Balb. ex Moris	Italy	R	R
Ranunculus fontanus C.Presl	Albania (V); France Italy (I); Malta (E) Yugoslavia (R)	V	
Ranunculus hayekii Doerfler	Albania	R	R
Ranunculus kykkoensis Meikle	Cyprus	E	E
Ranunculus miliarakesii Halacsy	Greece	R	R
Ranunculus millii Boiss. & Heldr.	Greece	R	R
Ranunculus revelieri Bor.	France (R); Italy (R)	R	R
Ranunculus subhomophyllus (Halacsy) Vierh.	Greece	R	R
* Ranunculus thasius Halacsy	Greece	R	R
Ranunculus wettsteinii Doerfler	Yugoslavia	I	I
Ranunculus weyleri Mares	Spain	E	E
Thalictrum calabricum Sprengel	Italy	R	R
RESEDACEAE			
Reseda battandieri Pitard	Morocco	R	R
Reseda complicata Bory	Spain	R	R
Reseda decursiva Forssk.	Spain (I)	I	
Reseda gredensis (Cutanda & Willk.) Muell. Arg.	Spain	R	R
Reseda jacquinii Reichenb.	France	R	R
Reseda tymphaea Hausskn.	Greece	R	R
* Sesamoides minus (Lange) Kuntze	Spain	R	R
* Sesamoides spathulifolium (Revel ex Bory) Rothm.	Spain	R	R
RHAMNACEAE			
Rhamnus dispermus Ehrenb. ex Boiss.	Egypt (R); Israel (R)	V	V
Rhamnus intermedius Steudel & Hochst.	Albania; Yugoslavia (R)	R	R
Rhamnus persicifolius Moris	Italy	R	R
ROSACEAE			
Cotoneaster orbicularis Schlecht.	Egypt	R	R
* Crataegus aegeica Pojark.	Greece	R	R
Geum heterocarpum Boiss.	Albania; France (E) Italy; Spain (R)	V	
Malus florentina (Zuccagni) C.K.Schneider	Albania; Greece (R)	R	R
Malus trilobata (Labill.) C.K.Schneider	Italy (R); Yugoslavia (R) Greece (R)	R	

Potentilla asinaria Maire		Morocco	R	R
Potentilla carniolica A.Kerner		Yugoslavia	R	R
Potentilla delphinensis Gren. & Godron		France	V	V
Potentilla doerfleri Wettst.		Yugoslavia	R	R
* Potentilla goulandrii Rech.f.		Greece	R	R
Potentilla grammopetala Moretti	Italy (R)		R	R
Potentilla guilliermondii Emberger & Maire		Morocco	R	R
* Potentilla multifida L.	France (R); Italy Spain (I)		R	
Potentilla visianii Pancic	Albania; Yugoslavia (R)		R	R
Prunus ramburii Boiss.		Spain	R	R
Rosa arabica Crepin		Egypt	R	R
Rosa chionistrae Lindb.f.		Cyprus	R	R
* Sanguisorba albanica Andras. & S.Javorka		Albania	I	I
* Sanguisorba cretica Hayek		Greece	R	R
Sanguisorba dodecandra Moretti		Italy	R	R
Sibiraea altaiensis (Laxm.) C.K.Schneider	Yugoslavia (R)		R	
Spiraea cana Waldst. & Kit.	Italy; Yugoslavia (R)		R	R
RUBIACEAE				
Asperula abbreviata (Halacsy) Rech.f.		Greece	R	R
Asperula baenitzii Heldr. ex Boiss.		Greece	R	R
Asperula baldaccii (Halacsy) Ehrendorfer		Yugoslavia	R	R
Asperula beckiana Degen		Yugoslavia	R	R
Asperula calabra (Fiori) Ehrendorfer & Krendl		Italy	R	R
Asperula coa Rech.f.		Greece	I	I
Asperula crassifolia L.		Italy	R	R
Asperula garganica Huter et al ex Ehrendorfer		Italy	R	R
Asperula gussonii Boiss.		Italy	R	R
Asperula hercegovina Degen		Yugoslavia	R	R
Asperula hexaphylla All.	France (R); Italy (R)		R	R
Asperula litardierei Humbert		Morocco	R	R
Asperula muscosa Boiss. & Heldr.		Greece	R	R
Asperula neglecta Guss.		Italy	R	R
Asperula oetaea (Boiss.) Heldr. ex Halacsy		Greece	R	R
Asperula ophiolithica Ehrendorfer		Greece	I	I
Asperula rupestris Tineo		Italy	R	R
Asperula saxicola Ehrendorfer		Greece	R	R
Asperula staliana Vis.		Yugoslavia	R	R
Asperula suberosa Sibth. & Smith	Greece (R)		R	R
Asperula suffruticosa Boiss. & Heldr.		Greece	I	I
Asperula taygetea Boiss. & Heldr.		Greece	R	R
Asperula tournefortii Sieber ex Sprengel		Greece	R	R
Asperula wettsteinii Adamovic		Yugoslavia	R	R
Crucianella macrostachya Boiss.	Greece (R)		R	
Crucianella rupestris Guss.	Libya (V)		V	
* Galium amorginum Halacsy		Greece	R	R
Galium balearicum Briq.		Spain	R	R
Galium cyllenium Boiss. & Heldr.		Greece	R	R
Galium degenii Baldacci ex Degen	Albania (R); Greece (R) Yugoslavia		R	R
Galium ephedroides Willk.	Spain (R)		R	
Galium fleurotii Jordan	France		R	R
Galium glaucophyllum Schmid		Italy	R	R

<i>Galium incrassatum</i> Halacsy		Greece	I	I
* <i>Galium kernerii</i> Degen & Doerfler	Albania; Yugoslavia (R)		R	R
<i>Galium litorale</i> Guss.		Italy	E	E
<i>Galium montis-arerae</i> Merxm. & Ehrendorfer		Italy	R	R
<i>Galium murcicum</i> Boiss. & Reuter		Spain	V	V
<i>Galium nevadense</i> Boiss. & Reuter	Spain (R)		R	
<i>Galium numidicum</i> Pomel		Algeria	E	E
<i>Galium palaeoitalicum</i> Ehrendorfer		Italy	R	R
<i>Galium pulvinatum</i> Boiss.		Spain	R	R
<i>Galium recurvum</i> Req. ex DC.	Greece (R)		R	
<i>Galium reiseri</i> Halacsy		Greece	R	R
* <i>Galium thasium</i> Stoy. & Kit.		Greece	R	R
<i>Galium viridiflorum</i> Boiss. & Reuter		Spain	R	R
RUTACEAE				
<i>Haplophyllum balcanicum</i> Vandas	Greece (R)		R	R
<i>Haplophyllum boissierianum</i> Vis. & Pancic	Albania; Yugoslavia (R)		R	R
<i>Ruta corsica</i> DC.	France (R); Italy (R)		R	R
SALICACEAE				
<i>Salix antiatlantica</i> Maire & Wilczek		Morocco	R	R
<i>Salix cantabrica</i> Rech.f.		Spain	I	I
<i>Salix tarraconensis</i> Pau		Spain	R	R
SANTALACEAE				
<i>Thesium auriculatum</i> Vandas	Albania; Yugoslavia (R)		R	R
* <i>Thesium brachyphyllum</i> Boiss.	Greece (R)		R	
<i>Thesium coarctiflorum</i> Hendrych		Greece	R	R
SAXIFRAGACEAE				
<i>Saxifraga arachnoidea</i> Sternb.		Italy	R	R
<i>Saxifraga berica</i> (Beguinot) D.A.Webb		Italy	V	V
<i>Saxifraga biternata</i> Boiss.		Spain	R	R
<i>Saxifraga boissieri</i> Engl.		Spain	R	R
<i>Saxifraga cebennensis</i> Rouy & Camus		France	R	R
<i>Saxifraga cochlearis</i> Reichenb.	France; Italy (R)		R	R
<i>Saxifraga conifera</i> Coss. & Durieu		Spain	R	R
<i>Saxifraga diapensioides</i> Bellardi	France (R); Italy (R)		R	R
<i>Saxifraga embergeri</i> Maire		Morocco	R	R
<i>Saxifraga facchini</i> Koch		Italy	R	R
<i>Saxifraga florulenta</i> Moretti	France (E); Italy (R)		V	V
<i>Saxifraga gemmulosa</i> Boiss.		Spain	R	R
<i>Saxifraga italica</i> D.A.Webb		Italy	R	R
<i>Saxifraga latepetiolata</i> Willk.		Spain	R	R
<i>Saxifraga luizetiana</i> Emberger & Maire		Morocco	R	R
<i>Saxifraga maireana</i> Luizet		Morocco	R	R
<i>Saxifraga maweana</i> Baker		Morocco	R	R
<i>Saxifraga moncayensis</i> D.A.Webb		Spain	R	R
<i>Saxifraga nervosa</i> Lapeyr.	France; Spain (I)		R	R
<i>Saxifraga nevadensis</i> Boiss.		Spain	R	R
<i>Saxifraga numidica</i> Maire		Algeria	R	R
<i>Saxifraga paradoxa</i> Sternb.	Yugoslavia		R	R
<i>Saxifraga presolanensis</i> Engl.		Italy	R	R
<i>Saxifraga reuterana</i> Boiss.		Spain	R	R
<i>Saxifraga rigoi</i> P.Porta		Spain	R	R
<i>Saxifraga tombeanensis</i> Boiss. ex Engl.		Italy	V	V
<i>Saxifraga valdensis</i> DC.	France (V); Italy		V	V
<i>Saxifraga vandellii</i> Sternb.		Italy	R	R
<i>Saxifraga vayredana</i> Luizet		Spain	R	R
<i>Saxifraga wernerii</i> Font Quer & Pau		Morocco	R	R
SCROPHULARIACEAE				
<i>Anarrhinum pubescens</i> Fresen.		Egypt	R	R

<i>Antirrhinum charidemi</i> Lange	Spain	E	E
<i>Antirrhinum chrysothales</i> Font Quer	Morocco	R	R
<i>Antirrhinum gebelicum</i> Brullo & Furnari	Libya	R	R
<i>Antirrhinum grosii</i> Font Quer	Spain	R	R
<i>Antirrhinum microphyllum</i> Rothm.	Spain	R	R
<i>Antirrhinum pertegasii</i> Rothm.	Spain	R	R
<i>Antirrhinum pulverulentum</i> Lazaro	Spain	R	R
<i>Bartsia spicata</i> Ramond	France (R); Spain (I)	I	I
<i>Celsia mairei</i> Murb.	Morocco	R	R
<i>Celsia pinnatisecta</i> Battand.	Algeria	R	R
<i>Chaenorhinum glareosum</i> (Boiss.) Willk.	Spain	R	R
* <i>Chaenorhinum idaeum</i> Rech.f.	Greece	R	R
<i>Chaenorhinum rubrifolium</i> (Robill. et al) ssp. <i>formenterae</i> (Gandoger) R.Fernandes	Spain	R	R
<i>Chaenorhinum tenellum</i> (Cav.) Lange	Spain	R	R
<i>Cymbalaria aequitriloba</i> (Viv.) A.Chev. ssp. <i>fragilis</i> (J.D.Rodriguez) D.A.Webb	Spain	R	R
<i>Cymbalaria muelleri</i> (Moris) A.Chev.	France (?); Italy (R)	R	R
<i>Digitalis atlantica</i> Pomel	Algeria	E	E
<i>Digitalis dubia</i> J.D.Rodriguez	Spain	R	R
<i>Digitalis leucophaea</i> Sibth. & Smith	Greece	R	R
* <i>Euphrasia marchesettii</i> Wettst. ex Marches.	Italy (E); Yugoslavia (R)	R	R
<i>Kickxia macilentata</i> (Decaisne) Danin	Egypt	R	R
<i>Kickxia nubica</i> (Skan) Dandy	Egypt (I)	I	
<i>Kickxia scariosepala</i> Tackh. & Boulos	Egypt	I	I
<i>Lafuentea jeanpertiana</i> Maire	Morocco	R	R
<i>Lafuentea rotundifolia</i> Lag.	Spain	R	R
<i>Linaria amoi</i> Campo ex Amo	Spain	R	R
<i>Linaria arenaria</i> DC.	France; Spain (R)	I	I
<i>Linaria arenicola</i> Pau & Font Quer	Morocco	R	R
<i>Linaria burceziana</i> Maire	Algeria	E	E
<i>Linaria clementei</i> Haenseler ex Boiss.	Spain	R	R
<i>Linaria decipiens</i> Battand.	Algeria	R	R
<i>Linaria faucicola</i> Leresche & Levier	Spain	R	R
<i>Linaria flava</i> (Poirot) Desf.	France; Italy (R)	V	
<i>Linaria gattefossei</i> Maire & M.Weiller	Morocco	R	R
<i>Linaria glacialis</i> Boiss.	Spain	R	R
<i>Linaria hellenica</i> Turritt	Greece	E	E
<i>Linaria huteri</i> Lange	Spain	R	R
<i>Linaria joppensis</i> Bornm.	Egypt (R); Israel (R)	R	R
<i>Linaria microsepala</i> A.Kerner	Yugoslavia	R	R
<i>Linaria nigricans</i> Lange	Spain	R	R
<i>Linaria platycalyx</i> Boiss.	Spain	R	R
<i>Linaria pseudolaxiflora</i> Lojac.	Italy (R); Malta (R)	R	
<i>Linaria thymifolia</i> (Vahl) DC.	France	V	V
<i>Linaria tonzigii</i> Lona	Italy	V	V
<i>Linaria weilleri</i> Emberger & Maire	Morocco	R	R
<i>Lindernia procumbens</i> (Krocker) Philcox	France (R); Italy (nt) Spain (V); Yugoslavia	V	
<i>Melampyrum ciliatum</i> Boiss. & Heldr.	Greece	I	I
<i>Melampyrum doerfleri</i> Ronn.	Albania (R); Yugoslavia (R)	R	R
<i>Melampyrum heracleoticum</i> Boiss. & Orph.	Albania (R); Yugoslavia (R)	R	R
<i>Melampyrum trichocalycinum</i> Vandas	Yugoslavia	R	R
<i>Odontites cypria</i> Boiss.	Cyprus	R	R
<i>Odontites discolor</i> Pomel	Algeria	E	E

Odontites fradini Pomel		Algeria	R	R
Odontites granatensis Boiss.		Spain	R	R
Odontites jaubertiana (Bor.) D.Dietr. ex Walp.		France	I	I
Parentucellia floribunda Viv.		Libya	R	R
Pedicularis asparagoides Lapeyr.	France (R); Spain	(R)	R	R
Pedicularis ferdinandi Bornm.		Yugoslavia	R	R
Pedicularis heterodonta Pancic		Yugoslavia	R	R
Pedicularis limnogenena A.Kerner	Yugoslavia (R)		R	R
Pedicularis numidica Pomel		Algeria	E	E
* Rhinanthus asperulus (Murb.) Soo	Yugoslavia (R)		R	
Rhinanthus dinaricus Murb.		Yugoslavia	R	R
* Rhinanthus melampyroides (Borbas & Degen) Soo		Albania	R	R
Rhinanthus pindicus (Sterneck) Soo		Greece	R	R
Scrophularia arguta Aiton	Spain (I)		I	
Scrophularia bosniaca Beck	Albania; Yugoslavia (R)		R	R
Scrophularia myriophylla Boiss. & Heldr.	Greece (R)		R	
* Scrophularia oblongifolia Merino		Spain	R	R
Scrophularia spinulescens Degen & Hausskn.		Greece	I	I
Scrophularia taygetea Boiss.		Greece	R	R
Scrophularia tenuipes Coss. & Durieu		Algeria	R	R
Scrophularia trisecta Pau		Morocco	R	R
Siphonostegia syriaca (Boiss. & Reuter) Boiss.	Greece (R)		R	
Verbascum acaule (Bory & Chaubard) Kuntze		Greece	R	R
Verbascum adeliae Heldr. ex Boiss.		Greece	R	R
Verbascum adenanthum Bornm.	Greece; Yugoslavia (R)		R	R
Verbascum argenteum Ten.		Italy	R	R
Verbascum botuliforme Murb.		Greece	R	R
Verbascum cylindrocarpum Griseb.		Greece	I	I
Verbascum cylleneum (Boiss. & Heldr.) Kuntze		Greece	I	I
Verbascum delphicum Boiss. & Heldr.		Greece	R	R
Verbascum durmitoreum Rohl.		Yugoslavia	R	R
Verbascum eremobium Murb.		Egypt	I	I
Verbascum euboicum Murb. & Rech.f.		Greece	R	R
Verbascum hervieri Degen		Spain	R	R
Verbascum herzogii Bornm.		Yugoslavia	R	R
Verbascum ikaricum Murb.		Greece	R	R
Verbascum laciniatum (Poiret) Kuntze		Spain	R	R
Verbascum macedonicum Kosanin & Murb.		Yugoslavia	R	R
Verbascum mykales Bornm.	Greece (R)		R	
Verbascum nevadense Boiss.		Spain	R	R
Verbascum nicolai Rohl.	Albania; Yugoslavia (R)		R	R
Verbascum pelium Halacsy		Greece	R	R
Verbascum pentelicum Murb.		Greece	R	R
Verbascum propontideum Murb.	Greece (R)		R	
Verbascum reiseri Halacsy		Greece	R	R
Verbascum siculum Tod. ex Lojac.		Italy	R	R
* Verbascum spathulisepalum Greuter & Rech.f.		Greece	I	I
Verbascum symes Murb. & Rech.f.	Greece (R)		R	
Verbascum syriacum Schrader		Greece	V	V
Verbascum tetrandrum G.Barratte & Murb.		Morocco	R	R
Veronica aznavourii Doerfler	Greece (R)		R	

<i>Veronica kaiseri</i> Tackh.		Egypt	E	E
<i>Veronica musa</i> Tackh. & Hadidi		Egypt	E	E
<i>Veronica rosea</i> Desf.	Spain (I)		I	
<i>Veronica stamatiadae</i> M.A.Fischer & Greuter	Greece (V)		V	
<i>Wulfenia baldaccii</i> Degen		Albania	I	I
SELAGINACEAE				
<i>Globularia cambessedesii</i> Willk.		Spain	R	R
<i>Globularia incanescens</i> Viv.		Italy	R	R
<i>Globularia stygia</i> Orph. ex Boiss.		Greece	E	E
SOLANACEAE				
<i>Atropa baetica</i> Willk.	Spain (E)		E	
<i>Mandragora officinarum</i> L.	Italy (V); Yugoslavia (R)		V	V
<i>Withania obtusifolia</i> Tackh.		Egypt	E	E
TAMARICACEAE				
<i>Reaumuria vermiculata</i> L.	Italy (R)		R	
<i>Tamarix boveana</i> Bunge	Spain (V)		V	
<i>Tamarix negevensis</i> Zohary	Egypt (R); Israel (R)		R	R
THYMELAEACEAE				
<i>Daphne jasminea</i> Sibth. & Smith	Greece (R); Libya (R)		R	R
<i>Daphne malyana</i> Blečić		Yugoslavia	V	V
<i>Daphne petraea</i> Leybold		Italy	V	V
<i>Daphne rodriguezii</i> Texidor		Spain	E	E
<i>Thymelaea myrtifolia</i> (Poiret) D.A.Webb		Spain	R	R
<i>Thymelaea putorioides</i> Emberger & Maire		Morocco	R	R
TRAPACEAE				
* <i>Trapa natans</i> L.	Albania; France (nt) Greece (V); Italy (V) Spain; Yugoslavia (V)		V	
TYPHACEAE				
<i>Typha minima</i> Funk	France (V); Italy (I) Yugoslavia		V	
<i>Typha shuttleworthii</i> Koch & Sonder	Albania; France (V) Italy (E); Yugoslavia		V	
ULMACEAE				
* <i>Zelkova cretica</i> (Smith) Spach		Greece	V	V
UMBELLIFERAE				
<i>Ammiopsis aristidis</i> Coss.		Algeria	R	R
<i>Ammiopsis daucoides</i> Boiss.		Morocco	I	I
<i>Angelica heterocarpa</i> Lloyd		France	E	E
<i>Angelica pachycarpa</i> Lange	Spain (R)		R	R
<i>Angelica palustris</i> (Besser) Hoffman	Yugoslavia (V)		V	
* <i>Apium repens</i> (Jacq.) Lag.	France; Italy Spain (nt); Yugoslavia (?)		V	
<i>Astrantia pauciflora</i> Bertol.		Italy	R	R
<i>Athamanta cortiana</i> Ferrarini		Italy	V	V
<i>Athamanta densa</i> Boiss. & Orph.	Albania; Greece (R)		R	R
<i>Bunium chaberti</i> Battand.		Algeria	R	R
<i>Bunium crassifolium</i> Battand.		Algeria	V	V
<i>Bunium elatum</i> Battand.		Algeria	V	V
<i>Bupleurum acutifolium</i> Boiss.	Spain (R)		R	R
<i>Bupleurum aira</i> Snogerup		Greece	R	R
<i>Bupleurum antonii</i> Maire		Morocco	R	R
<i>Bupleurum barceloi</i> Coss. ex Willk.		Spain	R	R
<i>Bupleurum bourgaei</i> Boiss. & Reuter		Spain	V	V
<i>Bupleurum capillare</i> Boiss. & Heldr.		Greece	E	E
<i>Bupleurum dianthifolium</i> Guss.		Italy	V	V
<i>Bupleurum elatum</i> Guss.		Italy	V	V

Bupleurum foliosum Salzm. ex DC.	Spain (R)		R	
* Bupleurum kakiskalae Greuter		Greece	E	E
Bupleurum plantagineum Desf.		Algeria	R	R
Bupleurum subspinosum Maire		Morocco	R	R
Carum asinorum Litard. & Maire		Morocco	R	R
Carum lacuum Emberger		Morocco	R	R
Carum montanum (Coss. & Dur.) Benth. & Hook.		Algeria	R	R
Carum proliferum Maire		Morocco	R	R
Chaerophyllum coloratum L.	Albania; Yugoslavia (R)		R	R
Chaerophyllum creticum Boiss. & Heldr.		Greece	R	R
Chaerophyllum heldreichii Orph. ex Boiss.		Greece	R	R
Elaeoselinum exinvolucratum Coss. & Balansa		Morocco	R	R
Elaeoselinum humile Ball		Morocco	R	R
* Eryngium alpinum L.	France (V); Italy (E) Yugoslavia		V	V
* Eryngium amorginum Rech.f.		Greece	R	R
Eryngium atlanticum Battand. & Pitard		Morocco	V	V
Eryngium caespitiferum Font Quer & Pau		Morocco	R	R
* Eryngium juresianum (M.Lainz) M.Lainz		Spain	R	R
Eryngium serbicum Pancic		Yugoslavia	R	R
Eryngium spinalba Vill.	France (R); Italy (V)		I	I
Eryngium ternatum Poiret		Greece	R	R
Eryngium viviparum Gay	France (E); Spain		V	V
Ferula bolivari Pau		Morocco	R	R
Ferula cypria Post		Cyprus	R	R
Ferula daninii Zohary		Israel	R	R
Ferula marmarica Aschers. & Taub.	Egypt (V); Libya (R)		V	V
Ferulago cypria H.Wolff		Cyprus	R	R
* Ferulago sartorii Boiss.		Greece	R	R
* Ferulago serpentinica Rech.f.		Greece	R	R
Ferulago thyrsoflora (Sibth. & Smith) Koch		Greece	R	R
Heptaptera angustifolia (Bertol.) Tutin		Italy	R	R
Heptaptera macedonica (Bornm.) Tutin		Yugoslavia	I	I
Heracleum minimum Lam.		France	V	V
Hladnikia pastinacifolia Reichenb.		Yugoslavia	R	R
Hohenackeria exscapa (Steven) Koso-Polj.	Spain (R)		R	
Huetia cretica (Boiss. & Heldr.) P.W.Ball		Greece	R	R
Huetia pumila (S. & S.) Boiss. & Reuter		Greece	R	R
Laserpitium archangelica Wulfen	Yugoslavia (R)		I	I
Laserpitium longiradium Boiss.		Spain	E	E
Lereschia thomasii (Ten.) Boiss.		Italy	R	R
Ligusticum albanicum S.Javorka		Albania	E	E
Ligusticum corsicum Gay		France	R	R
Ligusticum lucidum Miller				
ssp. huteri (P.Porta & G.Rigo) O.Bolos	Spain		R	R
Naufraga balearica Constance & Cannon	Spain		V	V
Oenanthe tenuifolia Boiss. & Orph.	Albania; Greece (R)		R	R
Pachyctenium mirabile Maire & Pampan.		Libya	V	V
Petagnia saniculifolia Guss.		Italy	V	V
Petroselinum segetum (L.) Koch	France (nt); Italy Spain (R)		V	V
Peucedanum achaicum Halacsy		Greece	R	R
Peucedanum coriaceum Reichenb.	Italy (I); Yugoslavia (R)		R	R
Pimpinella battandieri Chabert		Algeria	R	R

Pimpinella bicknellii Briq.		Spain	V	V
Pimpinella cypria Boiss.		Cyprus	R	R
* Pimpinella pretenderis (Heldr.) Orph. ex Halacsy		Greece	R	R
Pimpinella procumbens (Boiss.) H.Wolff		Spain	R	R
Rouya polygama (Desf.) Coincy	France (E); Italy (R)		V	
* Scaligeria halophila (Rech.f.) Rech.f.		Greece	R	R
* Scaligeria moreana Engstrand		Greece	R	R
Seseli gummiferum Pallas ex Smith	Greece (R)		R	
Seseli intricatum Boiss.		Spain	V	V
Seseli malyi A.Kerner		Yugoslavia	R	R
Seseli parnassicum Boiss. & Heldr.		Greece	R	R
Seseli tomentosum Vis.		Yugoslavia	R	R
* Tordylium pestalozzae Boiss.	Greece (R)		R	R
URTICACEAE				
Urtica rupestris Guss.		Italy	R	R
VALERIANACEAE				
* Centranthus trinervis (Viv.) Beguinot	France (E); Italy (R)		V	V
Fedia sulcata Pomel		Algeria	R	R
Valeriana bertiscea Pancic	Albania (R); Greece (R) Yugoslavia (R)		R	R
Valeriana celtica L. ssp. celtica	France (R); Italy (R)		R	R
Valeriana longiflora Willk.		Spain	E	E
Valeriana olenaea Boiss. & Heldr.		Greece	R	R
* Valeriana phitosiana Quezel & Contandr.		Greece	R	R
Valerianella divaricata Lange		Spain	R	R
Valerianella leptocarpa Pomel		Algeria	R	R
VIOLACEAE				
Viola athis W.Becker		Greece	V	V
Viola beckiana Fiala	Albania; Yugoslavia (R)		R	R
Viola brachyphylla W.Becker	Greece (R); Yugoslavia (R)		R	R
Viola cazorlensis Gandoger		Spain	R	R
Viola comollia Massara		Italy	R	R
Viola cretica Boiss. & Heldr.		Greece	R	R
* Viola cryana Gillot		France	Ex	Ex
Viola delphinantha Boiss.	Greece (V)		V	V
Viola dubyana Burnat ex Gremli		Italy	R	R
Viola elegantula Schott	Albania; Yugoslavia (R)		R	R
Viola eximia Formanek	Greece (R); Yugoslavia (R)		R	R
Viola hispida Lam.		France	E	E
Viola jaubertiana Mares & Vigineix		Spain	E	E
Viola kosaninii (Degen) Hayek	Albania (R); Yugoslavia (R)		R	R
Viola langeana Valentine	Spain (R)		R	R
Viola munbyana Boiss. & Reuter	Italy (R)		R	
Viola perinensis W.Becker	Greece (R)		R	R
Viola speciosa Pantocsek	Albania; Yugoslavia (R)		R	R
Viola stojanowii W.Becker	Greece (R)		R	R
ZYGOPHYLLACEAE				
Fagonia kassasii Hadidi		Egypt	R	R
Fagonia malvana Maire & Weiller		Morocco	R	R
Fagonia taekholmiana Hadidi		Egypt	Ex	Ex
Zygophyllum propinquum Decaisne	Egypt (R)		R	R

CORSICA - THREATENED COASTAL SPECIES

ENDEMIC SPECIES

Leucojum longifolium (Gay ex Roemer) AMARYLLIDACEAE R*
Gren. & Godron

Rocks and rocky cliffs close to the sea, especially in the region of Piana on the W. coast, an area much visited by tourists. The species is also more widespread further inland, reaching 1200 m in the mountains.

Silene velutina Pourret ex Loisel. CARYOPHYLLACEAE E

Maritime cliffs. It has disappeared from near Bonifacio and is now only known from the Ile du Torro, near Bonifacio, where there are of the order of 1000 individuals. This is probably the only extant population.

Colchicum corsicum Baker LILIACEAE R

Small and damp clearings in the maquis, in the neighbourhood of Bonifacio, in a windy area little visited by tourists. Although extremely rare and scattered, it is unlikely to be threatened except by collectors.

Armeria soleirolii (Duby) Godron PLUMBAGINACEAE E

Maritime rocks. About 100 individuals occur at the locus classicus (near Calvi on the N.E. coast) and are threatened not only by collecting but also by the building of houses on the locality. It has recently been discovered in several localities further south, on rocks difficult of access, and is in need of protection in all localities.

NON-ENDEMIC SPECIES

Corsica Europe

Anchusa crispa Viv. BORAGINACEAE E E

Maritime sands, in three sites on the N., S. & E. coasts; critically threatened by urban development and by trampling.

Also on Sardinia.

Rouya polygama (Desf.) Coincy UMBELLIFERAE E V

Stabilised maritime beaches, occurring in 2 sites in the S. and critically threatened by construction and trampling.

Centranthus trinervis (Viv.) Beguinot VALERIANACEAE E V

In fissures of a normally inaccessible granitic rocky cliff, N.W. of Bonifacio, in the extreme S. of the island. Only one locality is known, with a population of probably less than 100 individuals. The seeds drop down and occasionally germinate at the foot of the cliff, where they vulnerable to collectors.

Also on Sardinia (seen in 1974).

Eryngium barrelieri Boiss. is V in Corsica; its European status is uncertain. Locally threatened coastal species that are neither rare nor threatened elsewhere in Europe include Armeria pungens (Link) Hoffmanns. & Link, Morisia monanthos (Viv.) Aschers., Ophrys bertolonii Moretti, Ophrys speculum Link and Ornithogalum arabicum L.

* Red Data Book category - see p.

MALTA - THREATENED COASTAL SPECIES

ENDEMIC SPECIES

Palaeocyanus crassifolius (Bertol.) COMPOSITAE V
Dostál

See the sheet from the IUCN Plant Red Data Book - p. 10

NON-ENDEMIC SPECIES

	<u>Malta</u>	<u>Europe</u>
<u>Limonium cosyrense</u> (Guss.) Kuntze	PLUMBAGINACEAE R	R

Known to occur only on the cliffs in the Hal Far area (south Malta) where it has not been seen for a long time although it can easily be confused with other Limonium species sharing the same station. According to Sommer & Caruana-Gatto, the Maltese plants belong to a possibly endemic variety which they call var. melitensis. The type variety is known from Pantelleria.

<u>Linaria pseudolaxiflora</u> Lojac.	SCROPHULAR- IACEAE	R	R
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Small populations of this species occur on all three main islands of the Maltese archipelago. In Malta it has been seen in the Mellieha area (North Malta). In Gozo it occurs on the fortifications of the old Citadel (central Gozo) and at Dwejra (west Gozo) while on Comino it has been found in the ditch surrounding the Tower (west Comino). In all cases the plants occur in loose stony sites. The largest population is that of the Citadel which is also the most endangered as a result of restoration works. This species also occurs in Linosa.

Myosotis ruscinonensis Rouy

BORAGINACEAE

STATUS Extinct. It was never known from more than one coastal locality in an area which has been greatly affected by tourism and much of which is now covered by buildings. It was last seen in 1960 and detailed searches since then by about 30 people have failed to find it. It is, however, being grown by Mme. S. Blaise at the Botanical Institute, Orsay, and seeds are being distributed to other growers. Since the original habitat is now very seriously damaged, the only possibility for the survival of this species is in gardens and seed-banks.

DISTRIBUTION France; on one section of the Côte Vermeille, along the eastern part of the Albères mountains between the Pyrénées and the sea.

Out of 73 species of flowering plants endemic to France, 7 are endangered, 10 are vulnerable and 23 are rare. 3 are extinct, (this species, Minuartia olonensis (Bonnier) P. Fourn. and Viola cryana Gillot), and one (Artemisia insipida Vill.) is possibly extinct.

HABITAT AND ECOLOGY It grew with grasses and other annuals in open communities on coastal sand-dunes.

BIOLOGY AND POTENTIAL VALUE No information.

CULTIVATION As an annual, it must be grown from seed.

DESCRIPTION Low-growing annual up to 40 cm across with rosettes of small, blunt-tipped, lanceolate leaves 4 cm long with soft spreading hairs. Flowers more or less irregularly arranged on the axis and often fused together, the axis often sharply bent. Corolla saucer-shaped, up to 3 mm in diameter, white to bright blue, with a short tube and spreading lobes.

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The TPC is most grateful to Monsieur G.G. Aymonin, of the Muséum National d'Histoire Naturelle, Paris, for help in producing this sheet.

Carlina diae (Rech. f.) Meusel & Kästner

COMPOSITAE

STATUS Vulnerable. Two variants of this species are known; the original one is restricted to a single small island in the east Mediterranean, where it occurred in reasonably large numbers in 1962 when the island vegetation was a luxuriant low scrub (phrygana) after grazing had been forbidden for at least 10 years, following the establishment of the island as a nature reserve. However, in recent years, the introduction of the Cretan Ibex to the reserve and its subsequent rapid increase in numbers had, by 1973, reduced the population of Carlina diae to 3 individuals at the main locality, surviving on inaccessible sites on overhanging rock-faces. Several more may still exist in the cliff systems on the east side of the island, but the population is obviously endangered.

The second variant is restricted to 2 small islands and 2 coastal localities. Although not at present endangered, it is vulnerable owing to the low number of individuals in each population (a single tuft in one instance) and owing to the grazing by goats brought on to the islands.

DISTRIBUTION Crete. The original variant is confined to Nisos Dia, an island measuring c. 4 x 4 km off the north coast, near Iráklion. The second, originally described as Lyrolepis piaae Nordenstam (3), occurs in Sitia district of north east Crete, on the islets of Dragonáda and Gianisáda, and on 2 points of the Sidheros peninsula (1).

HABITAT AND ECOLOGY In crevices of steep calcareous rocks close to the sea (3), together with Asperula tournefortii Sieber ex Sprengel, Muscari dionyscium Rech. f., Campanula creutzburgii Greuter and other rare endemics.

CONSERVATION MEASURES TAKEN In 1938 the Dia Island Reserve was established, covering 1200 ha. The island is totally protected, uninhabited and closed to visitors. In about 1958 or just before, a breeding population of the Cretan Ibex, Capra aegagrus cretensis, was introduced from the Lefká Ori (White Mountains) of Crete where its population was threatened.

CONSERVATION MEASURES PROPOSED The Cretan Ibex should be moved from Dia on to another island where there are no endemic plants; possibly some could now be moved back to the Lefká Ori. Grazing by goats should be prevented on Dragonáda and Gianisáda. Consideration should be given to protecting the other localities where the species occurs.

BIOLOGY AND POTENTIAL VALUE It is a Tertiary relict of considerable scientific value; it belongs to the small, primitive sub-genus Lyrolepis which is believed to "represent an ancient type as compared to (the rest of the genus) Carlina" (3). Like several other plants confined to rock-crevice communities it provides a model for studying the variational and evolutionary patterns in systems of small isolated populations (5). As a small shrub covered in white felt but bearing bright yellow flower-heads with decorative, radiating bracts it would look well in a rock-garden, but like many coastal plants from the Mediterranean it might not be easy to cultivate. More information is needed.

DESCRIPTION Densely white-felted dwarf shrub lacking spines, with a much branched - woody stock bearing numerous, short, non-flowering branches densely crowded with entire lanceolate leaves 5-8 cm long. Flowering stems sparsely leafy, erect, 40-60 cm high, each with a small, flat-topped cluster of 1-4 flower-heads, each 15-35 mm across, with several rows of bracts, the outer leaf-like, and 10-15 mm long, entire or with a few small lobes, and the inner, in contrast, bright yellow, shining, rigid and scarious, radiating 10-16 mm; these enclose a mass of tubular disc florets with yellow corollas and straw-coloured, feathery pappus (Flora Europaea).

For line drawings see (3) and (4).

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This sheet is based upon information provided by Dr. W. Greuter (of the Conservatoire Botanique, Geneva), to whom the TPC is most grateful. Help is also acknowledged from Professor K.H. Rechinger of the Naturhistorisches Museum, Vienna.

Palaeocyanus crassifolius (Bertol.) Dostal

COMPOSITAE

STATUS Vulnerable. It occurs in approximately 10 localities, the majority of which contain fewer than 500 individuals. Although on the island of Malta the area of available habitat has decreased, no decline in its population has been observed. The ovaries are parasitized by a moth larva and very few young plants are found in the natural habitat. On the smaller island of Gozo, however, Zahra, and more recently Lanfranco, have found the plant to be surviving, but much rarer than in 1927 as described by Borg (6).

DISTRIBUTION Malta; on cliffs along the southern coasts of the islands of Malta and Gozo.

HABITAT AND ECOLOGY In crevices on vertical, maritime cliff-faces, in particular in the Coralline Limestones (Oligocene and Miocene). It is accompanied by other shrubs such as Hypericum aegypticum L., Coronilla valentina L., Sedum sediforme (Jacq.) Pau and Senecio bicolor (Willd.) Tod. ssp. cineraria (DC.) Chater.

CONSERVATION MEASURES TAKEN As it is only found in Malta and as a result of its striking appearance, it was adopted as the island's 'National Plant' in 1971, when it was also depicted on a set of postage stamps. Consequently it has become moderately widespread in cultivation on the island.

CONSERVATION MEASURES PROPOSED Careful consideration should be given as to how best the natural habitat can be conserved and a study made of the means to control its parasite.

BIOLOGY AND POTENTIAL VALUE It is the only species in the genus and is presumably a relict of pre-glacial periods. Its affinities lie with Centaurea. Its study in conjunction with related genera should help to increase the understanding of this group.

CULTIVATION It can be propagated by cuttings or from seeds.

DESCRIPTION Hairless evergreen shrub, typically up to c. 1 m high. Leaves somewhat succulent, spatulate, entire, 5-10 x 1.5-2 cm, mostly in rosettes. Flower-heads 2-3 cm across, terminal, on long ridged stems, each with an involucre of entire bracts; florets all tubular, purple. Achenes 6-8 mm, hairless, exceeded in length by a whitish pappus. (Syn. Centaurea crassifolia Bertol., Centaurea spathulata Zerapha, non Ten.)

For illustrations see (2), (3), (4), (5) and (6).

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The material for this sheet was supplied by Mr. E. Lanfranco, of the ICBP Malta, to whom the TPC is most grateful.

Silene Holzmannii Heldr. ex Boiss.

CARYOPHYLLACEAE

STATUS Vulnerable. As an annual confined to minute islands in the east Mediterranean, it is very susceptible to short-term grazing. A few goats left on such an island for a short time can totally destroy the flora. It is likely that Silene holzmannii has been obliterated on several islands, particularly where grazing animals have been introduced.

DISTRIBUTION Greece. It is only known from 13 scattered localities in the Aegean from Attica to Crete, though it has never been found either on Crete itself or on the mainland of Greece (2,4).

HABITAT AND ECOLOGY It only occurs on very small islands. The best known site is a reef consisting of 2 rocks c. 150 m long, close to the Cretan coast. Here it grows in a precisely balanced but very diverse community of 14 angiosperm species, made up of 4 elements: Halophytes such as Mesembryanthemum nodiflorum L; members of the phrygana such as the shrubby Pistacia lentiscus L; rupicolous elements, such as Scorzonera cretica Willd.; and the characteristic small island element, the Silene and Salsola carpatha P.H. Davis. Thus the vegetation is surprisingly dissimilar to that of the Cretan coast. This delicate and unusual community is now becoming vulnerable to tourist pressures since it is within easy swimming distance of one of the most popular beaches on Crete (2). The flora of a similar island, described in 1895 (3), had been completely obliterated by 3 goats when visited by Greuter in 1963 (2).

CONSERVATION MEASURES TAKEN None for the wild populations. A detailed survey of this species (2), in particular of its ecology as summarised above, was made by Greuter.

CONSERVATION MEASURES PROPOSED Care should be taken that none of the islands on which it occurs are used for short-term grazing. It would be advisable for several of them to be declared as reserves.

BIOLOGY AND POTENTIAL VALUE It is a very interesting plant as it appears to be one of the few survivors of a 'sublittoral' flora, most of which has disappeared. Its distributional history has been the subject of speculation (2,4) and it is one of the examples on which Runemark based the theory of Reproductive Drift, in which the risk of random extinction of a small population can be estimated by evaluating the significance of numerical deviations in population size over successive generations (4). Random extinctions may well be a major factor in its strangely disjunct distribution. Silene holzmannii is also interesting as it is the only species of the genus with hard, indehiscent fruits, preadapted to floating and impermeable to salt water. The seeds, thus protected, can drift on the sea for up to 40 days without losing their viability (2).

DESCRIPTION Hairless annual up to 20 cm or more high bearing lanceolate leaves 2-3 cm long in pairs up the stout single stem. At the top are several small overlapping flowers on short stalks, arranged in a dichasium (the central ones opening first). Calyx green somewhat inflated at flowering time, later papery and adpressed to the fruit; petals 5, small, dull-coloured, bi-lobed. Capsule ovoid indehiscent, 10-12 mm long, containing black seeds with parallel-sided spines. The difference between this species and its close relatives, S. behen L. and S. reinholdii Heldr., are given in (2).

For a line drawing see (2).

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This sheet is based upon information provided by Dr. W. Greuter (of the Conservatoire Botanique, Geneva), to whom the TPC is most grateful.

Phoenix theophrasti Greuter

Cretan Date Palm

PALMAE

STATUS Vulnerable; a many-stemmed Mediterranean palm known only from five coastal localities. In much the largest locality at Vai it is threatened by tourists, by people camping under the trees and by cars driven into the centre of the grove, all of which prevents regeneration. It is also at risk from drainage schemes. In the other four localities it only occurs in very small numbers; in one of these it was evidently declining in 1967 (3) and forming mere sparse low scrub; but in 1973 there was evidence of some regeneration.

DISTRIBUTION Crete. The main locality is near Vai on the north east tip of the island and is a major tourist attraction. Here the palms cover the bottom of a small valley for about 1 km, leading to a sandy and sheltered beach. Of the four other localities, three are scattered along the south coast; the other one, mentioned above, is on the north coast west of Iráklion. There are also occasional specimens elsewhere on the north coast. It is uncertain whether the species ever extended beyond Crete, but in the past it was presumably more widespread on the island; it is pictured on Roman coins minted in Ierápetra where it no longer occurs. Obviously the palm thickets existing today are the result of the degradation of natural groves which have been cut or burnt by man and have sprouted from the base (3).

Out of 155 species known to be endemic to Crete, 101 are believed to be rare or threatened. Fortunately 77 of these fall into the Rare category, reflecting their very localised distribution and, in many cases, their inaccessibility in the mountains, especially in crevices or vertical rock-faces protected from grazing. Much of the endemic flora is of horticultural merit and includes species of Campanula, Colchicum, Crocus, Dianthus, Ebenus (Giant Clover), Helichrysum, Paeonia, Staehelina, Tulipa and the monotypic genus Petromarula of the Campanulaceae.

HABITAT AND ECOLOGY Usually on sandy alluvial sites close to the sea. It is always associated with a high water-table and so any drainage of the area at Vai could result in the death of the palms. The same applies to any lowering of the water-table by pumping to provide fresh water for local enterprises.

The Cretan Date Palm produces more than one stem from the base and thus in the wild can regenerate vegetatively as well as from seed. At Vai the dry lower fronds have been cut away to reduce the risk of fire. This has tended to prevent regeneration both because of the damage to offshoots themselves and because of the constant movement of people between the trees which damages the seedlings. In the past the lower suckers around the main stems, with their spiny fronds, made much of the grove impenetrable. Fires lit by campers have also been a problem at Vai, but these have now been prohibited.

CONSERVATION MEASURES TAKEN None.

CONSERVATION MEASURES PROPOSED At Vai a management study is needed to ascertain how the survival of the palm grove can be reconciled with the pressures from the tourism it attracts. One possibility is fencing off an inner sanctum as a strict reserve. The situation of the water table should be carefully studied. Consideration should be given to declaring one or more of the other sites as a strict reserve.

BIOLOGY AND POTENTIAL VALUE The Cretan Date Palm is undoubtedly the most unusual and striking member of the island's endemic flora. The spectacular grove at Vai is a major tourist attraction and has been used as a set for film-making. It is unique in Europe. The species has featured in botanical literature since the days of Theophrastus and is of considerable botanical importance as a close relative of the cultivated date palm, Phoenix dactylifera L. It could prove invaluable in the future for breeding new hybrid cultivars, e.g. with resistance to cold or to some pests and diseases.

CULTIVATION It is said to be easily grown from wild-collected seeds (3).

DESCRIPTION Palm up to c. 10 m high, each stem with several shorter side-shoots from the base, forming dense thickets or a mound with the dense foliage on the side-shoots hiding the main trunk. Each stem carries a dense head of slender, pinnate leaves 3-5 m long, at first erect, then horizontal and pendent. The middle and upper pinnae are mostly 20-50 cm long, each folded down the middle with a pungent tip; the lower pinnae, along the petiole, are transformed into hard spines. Male and female flowers on separate trees, both in large, much-branched panicles which in fruit are upright, enclosed by the leaf bases and have vivid yellow branches. Fruits ellipsoid, 14-16 mm long, inedible, scarcely fleshy and yellowish-brown. The main differences from the cultivated date palm are the upright fruit clusters and the small inedible fruits. For illustrations see (1), (2), (3) and (4).

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This sheet is based upon information provided by Dr. W. Greuter (of the Conservatoire Botanique, Geneva), to whom the TPC is most grateful. Help is also acknowledged from Sir Colville Barclay.

Primula palinuri Petagna

Primula di Capo Palinuro

PRIMULACEAE

STATUS Rare. Although it is confined to a relatively small length of Mediterranean coast, it mostly grows on vertical rocks near the sea and is thus at present apparently safe from tourist development. Nevertheless threats may well arise in future from the increasing recreational use of the coast for tourism.

DISTRIBUTION Italy. It is confined to scattered localities on the Tyrrhenian coast of Campania, Lucania and Calabria between Cape Palinuro and Cape Scalea. Most of the localities are in the vicinity of Cape Palinuro. There is a dot map of its exact distribution in (7). Some of the early records given in (8) are believed to be erroneous.

HABITAT AND ECOLOGY On vertical, north, north west and west-facing rocks of sandstone and limestone, always near the sea. Associated species include Asplenium trichomanes L., Dianthus rupicola Biv., Iberis semperflorens L., Prasium majus L., Reichardia picroides (L.) Roth and Sedum dasyphyllum L. The plant tends to grow on the vertical sections whereas the larger shrubs such as Lonicera implexa Aiton and grasses such as Brachypodium grow on the ledges. Pizzolongo, who gives a detailed account of its ecology in (5) from which the above is taken, to some extent distinguishes different communities on the sandstone and on the limestone; thus he suggests that the open nature of the habitat, partly caused by landslips of the soft sandstone, is important for the survival of Primula palinuri which does not flower when shaded by other plants.

CONSERVATION MEASURES TAKEN Some small measure of land protection under laws concerning building (Vincolo idrogeologico) is in force on Cape Palinuro.

CONSERVATION MEASURES PROPOSED Primula palinuri is included in a list of species from Campania for which complete legal protection is recommended. The Nature Conservation Working Group of the Italian Botanical Society has proposed full protection for c. 175 ha of the Palinuro Promontory as a "Vincolo paesaggistico" and acquisition by the Azienda di Stato per le Foreste Demaniali (ASFD) (1).

BIOLOGY AND POTENTIAL VALUE It is presumably pollinated by the larger bees and by Lepidoptera (Butterflies and Moths) as are its relatives. Individuals have either long or short styles which ensures cross-pollination between them (heterostyly). It is a beautiful and fragrant species for the garden and the fragrance "together with the bright yellow corollas, almost pure white, mealy calyces, pedicel, and involucre, and the season of its blossoming (March) render it a most desirable acquisition" (2).

CULTIVATION It is in cultivation and can be raised easily from seed. It is said to be vigorous and to increase rapidly, spreading by underground rhizomes (3). In warm and dry climates some shade is needed.

DESCRIPTION Rhizomatous perennial, with a rosette of leaves raised on a stout stem up to 7 cm high, scarred with old leaf bases. Leaves more or less obovate, about 4-16 cm long, pale green and toothed in the upper half. From the rosette emerges a leafless stem 8-20 cm high carrying an umbel of about 5-25 sweet-scented, nodding, yellow flowers. Calyx 5-8 mm long, cup-shaped, split into 5 triangular lobes and densely covered with a white, mealy deposit (as are the flower stalks and bracts). From it emerges the intense golden yellow, funnel-shaped corolla consisting of a slender tube about 12-15 mm long with a deep yellow ring inside and 5 rounded lobes at the tip. Capsule brown, more or less pear-shaped, 5-7 mm long, enclosed in the calyx.

For illustrations see (2) and (9).

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The TPC is most grateful to the Floristic Working Group of the Italian Botanical Society and in particular their Co-ordinator, Professor S. Filipello of the Institute of Botany, University of Pavia, and to Dr. M. Ricciardi of the Agronomic Faculty of Portici, Naples, for help in producing this sheet.

Linaria hellenica Turrill

SCROPHULARIACEAE

STATUS Endangered; confined to a few maritime sites within an area of about 20 sq. km. It has presumably always been rare because of its very restricted coastal habitat (see below); it is now critically threatened by loss of that habitat through development. It also occurs in a few cultivated areas but here it is threatened by agricultural activity, in particular control of weeds. In recent times, Yannitsaros has found 4 localities, with only 2-6 individuals in 3 of them and around 100 in the fourth one. He failed to find the plant either in the locus classicus or in the other localities where it had been seen by Goulimis, who originally discovered it in 1955; these sites are now on cultivated land, where the species is less likely to survive (6).

DISTRIBUTION Greece; recorded from 6 localities on the Maléa Peninsula at the south eastern tip of the Pelopónnisos, occurring in the Gulf of Neápolis and on the neighbouring island of Elanfónisos (6). Maps of its distribution are given in (1) and (6).

HABITAT AND ECOLOGY Sandy beaches or cultivated and uncultivated sandy areas near the sea (6). It is poorly competitive with other species and is more or less restricted to flat, open sites, and never occurs on the sand dunes (1); this habitat is not only rare but also more or less unstable (6). In the principal locality the Linaria grows with Anthemis tomentosa L. ssp. tomentosa, Elymus farctus (Viv.) Runemark, Polygonum maritimum L. and species of Medicago, Silene and Trifolium (1). The annual rainfall on Elanfónisos is 600-800 mm and in the Gulf of Neápolis 400-600 mm (1).

CONSERVATION MEASURES TAKEN None for the wild populations.

CONSERVATION MEASURES PROPOSED As suggested by Yannitsaros in (6): immediate measures should be taken for the protection of certain sandy coastal areas where the species occurs. Consideration could be given to prohibiting its collection or its eradication as a weed. It should be bulked up in cultivation, distributed to botanic gardens, and seed deposited in a seed bank.

BIOLOGY AND POTENTIAL VALUE It belongs to the subgenus Linariastrum Chav. Its affinities are discussed in (1). Its cytology is of some interest because the species has been shown to be tetraploid ($2n=24$; some individuals have $2n=26$); polyploidy is a rare phenomenon in Linaria and very rare in the subgenus Linariastrum (1,6).

"The reproductive capacity of L. hellenica is rather great, as well as the vegetative one. It appears that the critical stage for this species is the seedling-stage because the seedlings are very small and are influenced by any change in the environment". Combined with the instability of the habitat itself, "the establishment of Linaria hellenica ... is therefore somewhat difficult and the populations are very small" (6).

CULTIVATION It is being grown at the University of Athens (1,6).

DESCRIPTION Annual with slender, erect or arching, branched stems to 60 cm. Leaves linear to linear-oblong, succulent, obtuse, 5-45 x 1-2.5 mm. Inflorescence a terminal raceme of 5-20 flowers on erect stalks up to 15 mm long; calyx 4.5-5 mm, with oblong, subequal lobes; corolla yellow, 13-16 mm, 2-lipped, the upper lip 2-lobed, the lower 3-lobed; corolla tube cylindrical, with a basal spur 6-7 mm long. Capsule more or less globose, c. 5mm. Seeds reniform, strongly rugose, black.

For an illustration see (6).

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This sheet has been compiled from the account in (6) of Linaria hellenica by Dr. A. Yannitsaros, of the University of Athens, to whom the TPC is most grateful.

Naufrage balearica Constance & Cannon

UMBELLIFERAE

STATUS Vulnerable. It was first discovered on Mallorca in 1962, but not seen again for 7 years, despite extensive searches by several botanists. It was re-discovered in 1969, growing "in profusion" in one, almost inaccessible locality on the coast. "(It) may well be more widespread on shaded, precipitous maritime cliffs on the north west of the island; but attempts to study the cliff faces from land were abortive and approach from the sea seems to be the only practical way of investigating these areas successfully" (2). It is apparently restricted to areas inaccessible to goats.

DISTRIBUTION Balearic Islands. It is confined to one or possibly more localities on the coastal cliffs of Mallorca.

The Balearics have an endemic flora of 52 species and subspecies of flowering plants of which 21 are believed to be rare or threatened and one extinct. These tend to be plants of the high mountains, often very rare but not necessarily under any threat, or plants of the lowland maquis communities, threatened by intensified land use and tourist developments. It is remarkable how many of the endemics are attractive garden plants.

HABITAT AND ECOLOGY On steep, damp limestone cliffs by the sea, facing north and permanently in shade. It forms dense communities on the upper slopes and on eroded ground, generally growing on its own and not persisting with other species. It spreads to form small mats by means of short stolons.

CONSERVATION MEASURES TAKEN None for the wild population.

CONSERVATION MEASURES PROPOSED To preserve the vegetation of the cliff-slopes and to ensure the long-term survival of this species, a coastal reserve is desirable.

BIOLOGY AND POTENTIAL VALUE It is a great interest to studies of plant geography and taxonomy. It is one of a small number of plants from the Balearics with their closest relatives in Australia, New Zealand or Chile, a startling phenomena first noticed by Knoche (3). Such species are now thought to be probably Cretaceous relicts preserved by isolation. It is the only species in the genus and is probably most closely related to Schizellema and Hydrocotyle of New Zealand and South America, but its relationships are still obscure. It is remarkable among the Umbelliferae for its mericarps (fruit lobes) suspended almost free from the flower-stalk and for its well-developed stipules (1).

CULTIVATION It is grown in several gardens, including the Plant Science Botanic Gardens, University of Reading, and the Royal Botanic Gardens, Kew, U.K. It can be propagated from seed or from lateral shoot which root readily at the nodes.

DESCRIPTION Small, delicate, hairless, tufted perennial herb, 2.5-4 cm high, forming mats of rosettes of long-stalked leaves, each with 3 or 5 diminutive, ovate or oblong-ovate leaflets 1.5-5 mm long. Stems with a whorl of 2-4 leaves, each 5-10 mm long and of 3 leaflets, with papery white stipules. From the leaf axils arise simple umbels of 1-8 minute white flowers, the petals 0.3 mm long. Mericarps laterally flattened, truncate and hanging like a pair of minute saddle-bags from the top of the stalk (1).

For an illustration see (1).

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This sheet is based upon information provided by Mrs. L.F. Ferguson to whom the TPC is most grateful.