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Red list of threatened vascular plants in Italy

Simone Orsenigo^a , Giuseppe Fenu^b , Domenico Gargano^c, Chiara Montagnani^d , Thomas Abelli^e, Alessandro Alessandrini^f, Gianluigi Bacchetta^b , Fabrizio Bartolucci^g , Angelino Carta^h, Miris Castelloⁱ, Donatella Cogoni^b, Fabio Conti^g , Giannantonio Domina^j , Bruno Foggi^k , Matilde Gennai^k, Daniela Gigante^l , Mauro Iberite^m, Lorenzo Peruzzi^h , Maria Silvia Pinna^b, Filippo Prosserⁿ, Annalisa Santangelo^o , Alberto Selvaggi^p , Adriano Stinca^q , Mariacristina Villani^r, Robert P. Wagensommer^s , Nicoletta Tartaglino^t, Eugenio Duprè^t, Carlo Blasi^m and Graziano Rossi^a

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ABSTRACT

Italy has a rich natural heritage, which is dangerously under pressure. In recent years, there is an increased awareness of the crucial role of plants in ecosystem functioning and in providing ecosystem services. Consequently, an updated Red List of the Italian vascular flora was compiled in this work, at the request of the Ministry for Environment, Land and Sea Protection, with the scientific support of the Italian Botanical Society. The IUCN Red List criteria were applied to 2,430 Italian native vascular plant taxa to assess their current extinction risk and to highlight the major threats affecting the Italian flora. Our results revealed that 54 taxa (2.2% of the assessed taxa) are extinct or possibly extinct at regional level, while 590 taxa (24.3%) were assigned to a risk category. Moreover, 404 taxa (16.6%) were categorized as Data Deficient. The Italian vascular flora is primarily threatened by habitat modifications due to anthropic disturbance and, especially, to agriculture, tourism and residential development. Coastal areas and lowlands, where anthropogenic impacts and ecosystem destruction are more pronounced, host the greatest number of extinct or declining taxa. Our results represent an important baseline to establish conservation priorities, legislative choices and intervention strategies on a national scale.

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Biodiversity conservation; threatened plants; IUCN Red Lists; Mediterranean Basin; prioritization

Introduction

One of the main goals of Conservation Biology is to avoid extinctions and to reduce rates of species decline. Due to the large amount of threatened taxa, this requires an estimation of the species extinction risk in order to identify taxa, and geographical areas that are priority for conservation (Possingham et al. 2002; Isaac et al. 2007; Carta et al. 2019). Current understanding of ongoing extinction comes primarily from projections or assessments of extinction risk (Brummitt et al. 2015; Humphreys et al. 2019). The IUCN Red Lists of Threatened Species are widely recognized as the most authoritative information source on the extinction risk of

species, because they use a standardized set of quantitative criteria for assessing species conservation status and threats (Maes et al. 2015; Collen et al. 2016).

The application of the IUCN Red List categories and criteria allows the production of Red Lists, which are widely recognized as valuable tools in nature conservation programmes (IUCN 2017). For instance, up-to-date Red Lists are fundamental starting points for conservation actions as they provide useful information to support prioritization procedures of conservation emergencies, and to monitor changes in the conservation status of species (Moreno Saiz et al. 2015). Moreover, although Red Lists cannot be considered policy prescriptive, they represent a valid tool (if not

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the only one available) to highlight the presence of threatened plant species in Natura 2000 sites Standard Data Forms.

Although in several countries the priority of up-to-date Red Lists has been addressed since a long time, the urgency of compiling Red Lists has long been underestimated in Italy. The first Italian red data book included vascular plants, bryophytes and lichens (Conti et al. 1992). It listed 458 vascular plants, representing 5.6% of the Italian native vascular flora. This first contribution was followed by revisions, limited to vascular plants, at national and regional levels (Conti et al. 1997; Pignatti et al. 2001). These Red Lists stimulated Italian botanists to investigate rare and declining plants. As a major outcome, after a few years, several species considered to be extinct in Italy were rediscovered. These include *Brassica procumbens* (Poir.) O.E.Schulz (Baldini 1998), *Gagea spathacea* (Hayne) Salisb. (Delfini et al. 2005), and *Trifolium latinum* Sebast. (Fanelli et al. 2012). Additionally, the publication of national checklists (Conti et al. 2005; Bartolucci, Peruzzi, et al. 2018) substantially improved the knowledge on the Italian flora since the first version of the Red List was published. Such checklists incorporated the latest taxonomic updates, along with a large amount of floristic and taxonomic novelties published in regional and local floras, and in the scientific reports published by the working group for Floristics, Systematics and Evolution of the Italian Botanical Society (Bartolucci et al. 2016; Bartolucci, Peruzzi, et al. 2018; Bartolucci, Domina, Ardenghi, Banfi, et al. 2018; Bartolucci, Domina, Ardenghi, Bacchetta, et al. 2018; Bartolucci et al. 2019).

Therefore, new data concerning the diversity of the Italian vascular flora highlighted the need to update the existing Italian Red Lists of vascular plants. This urgency is emphasized by the fact that such Red Lists were compiled based on an older version of the IUCN red listing protocol, which shows substantial differences from the current IUCN standards (IUCN 2012a). A further boost to a new red listing phase of the Italian flora was given by a series of papers published since 2008 in the journal *Informatore Botanico Italiano* (currently *Italian Botanist*), devoted to the assessment of plant taxa of conservation concern (e.g., Rossi et al. 2008; Fenu et al. 2018, 2019; Orsenigo, Cambria, et al. 2018, Orsenigo et al. 2019). Finally, in 2012 the Italian Ministry for Environment, Land and Sea Protection commissioned the Italian Botanical Society to produce a New Red List of the Italian flora (Rossi et al. 2013; 2014; 2020). The present work, coordinated by the working group for Nature Conservation of the Italian Botanical Society, provides and analyses the results of the assessment of 2,430 Italian vascular plant taxa, thus representing the most comprehensive report on the conservation status of the flora of Italy. The information presented here will be a reference for planning conservation actions and for raising public awareness on plant diversity in Italy.

Materials and methods

Species selection and information source

The overall target included 2,430 taxa, which were selected according to three criteria: 1) policy species (PS: taxa listed in

the annexes of the Habitats Directive 92/43/EEC and Bern Convention) (Rossi et al. 2016; Fenu et al. 2017), 2) taxa endemic to Italy (Peruzzi et al. 2014), and 3) a group of taxa of conservation concern. The latter group encompassed: a) plants occurring in highly threatened habitats (e.g., wetlands and coastal habitats) for which a decline was documented over the last 30 years, and b) taxa considered as EX, EW, or CR in the previous Italian Red Lists (Conti et al. 1992, 1997). As far as the information source is concerned, in the final dataset we summed up all the risk assessments currently available for the Italian vascular plants. In particular, the assessment data for Italian policy species and Italian endemic taxa were deduced from Rossi et al. (2016) and Orsenigo, Montagnani, et al. (2018), respectively. Further information for other species of conservation concern were obtained from the contributions published since 2008 in the journal *Informatore Botanico Italiano* (later *Italian Botanist*). Finally, the dataset was completed by integrating unpublished data for 932 taxa (Table 1).

Red listing procedure

The conservation status of the selected taxa was assessed according to the IUCN categories and criteria (IUCN 2012a). Records on species distribution were collected from published and unpublished data, herbarium specimens, and recent field surveys (since the early 2000s onwards). For taxa growing in pristine habitats, such vertical cliffs or remote forests, data since the early 1990s were used. All of the collected records were validated by groups of regional experts (Rossi et al. 2013; 2020). The taxonomic nomenclature was updated according to the recent national checklist (Bartolucci, Peruzzi, et al. 2018) and subsequent updates (Bartolucci, Domina, Ardenghi, Banfi, et al. 2018; Bartolucci, Domina, Ardenghi, Bacchetta, et al. 2018; Bartolucci, et al. 2019). The collection of data on distribution and threats was followed by a preliminary assessment, which underwent a process of peer review during a series of workshops promoted by the working group for Nature Conservation of the Italian Botanical Society (Rossi et al. 2014). Over 100,000 records were processed in QGIS 2.18 (2017). These records were organized into a geo-database including sites of taxon occurrence (a total of 59,887 cells) on a fixed 2 × 2 km grid (Gargano 2011), population trends, and the main threats at local level identified by means of expert-based observations and literature sources. Threats were classified according to the IUCN threats classification scheme (version 3.2 - IUCN 2012b), and the relative data were used to classify the major threats affecting vascular plants in Italy. The assessments were mostly based on criterion B. However, when reliable data on population size and/or trends were available, other criteria were also applied (i.e. A, C, and D). The grid-based mapping approach allowed for standardizing calculations of Area of Occupancy (AOO), as required under criterion B2 (IUCN 2012a). Following the precautionary approach suggested by Butchart et al. (2006), taxa that were not recorded during the previous three decades, but for which uncertainty regarding extinction remained, were categorized as "Critically

Table 1. IUCN Red List status and assessment criteria for the Italian vascular flora. For risk category of all Italian endemic taxa see Orsenigo, Montagnani, et al. (2018). For risk category of Italian policy species see Rossi et al. (2016). Threats follow the IUCN Classification Scheme (version 3.2-IUCN 2012b).

Family	TAXON	Threat Category	Criteria	Threats
Lamiaceae	<i>Acanthoprasium frutescens</i> (L.) Spenn.	NT		7.1.1; 4.1; 4.2; 7.3; 9.1
Asteraceae	<i>Achillea pratensis</i> Saukel & R.Länger	DD		
Amaryllidaceae	<i>Acis autumnalis</i> (L.) Sweet	NT		1.1; 2.3; 1.3; 6.1
Amaryllidaceae	<i>Acis rosea</i> (F.Martin Bis) Sweet	LC		2.3
Ranunculaceae	<i>Aconitum angustifolium</i> Rchb.	LC		5.2.1; 7.3
Ranunculaceae	<i>Aconitum burnatii</i> Gayer subsp. <i>burnatii</i>	LC		
Ranunculaceae	<i>Aconitum degenii</i> Gayer subsp. <i>vallesiacum</i> (Gayer) Mucher	NT		4.1; 5.2
Ranunculaceae	<i>Adonis vernalis</i> L.	EN	B2ab(iii,v)	2; 6
Poaceae	<i>Aeluropus lagopoides</i> (L.) Trin. ex Thwaites	LC		1.1; 1.3; 4.1; 9.4
Brassicaceae	<i>Aethionema thomasianum</i> J.Gay	VU	B1ab(iii,v)+2ab(iii,v)	6.1; 5.2; 2.3
Poaceae	<i>Agrostis stolonifera</i> L. subsp. <i>scabriglumis</i> (Boiss. & Reut.) Maire	LC		2.3; 4.1; 7.2; 9.4
Poaceae	<i>Aira provincialis</i> Jord.	VU	D1	7.3
Poaceae	<i>Aira tenorei</i> Guss.	LC		1.1; 1.3; 2.1; 2.3.1; 4.1; 7.1.1
Poaceae	<i>Airopsis tenella</i> (Cav.) Coss. & Durieu	NT		7.3
Lamiaceae	<i>Ajuga iva</i> (L.) Schreb. subsp. <i>pseudoiva</i> (DC.) Briq.	NT		1.1; 1.3; 2.1; 4.1
Boraginaceae	<i>Alkanna lutea</i> Moris	EN	B1ab(iii,v)+2ab(iii,v)	7.3
Amaryllidaceae	<i>Allium acutiflorum</i> Loisel.	DD		
Amaryllidaceae	<i>Allium chamaemoly</i> L. subsp. <i>chamaemoly</i>	LC		1.1; 1.3; 2.1; 4.1; 8.2.1; 5.2.2; 7.1.1; 7.3; 10.1
Amaryllidaceae	<i>Allium chamaespathum</i> Boiss.	DD		
Amaryllidaceae	<i>Allium commutatum</i> Guss.	LC		1.2; 1.3; 2.3; 4.1; 7.1.2; 6.1
Amaryllidaceae	<i>Allium cyrilli</i> Ten.	LC		
Amaryllidaceae	<i>Allium neapolitanum</i> Cirillo	LC		1.1; 1.3; 4.1; 5.2.1; 5.2.2; 6.1
Amaryllidaceae	<i>Allium parviflorum</i> Viv.	LC		2.2; 2.3
Amaryllidaceae	<i>Allium pendulinum</i> Ten.	LC		1.3; 2.3; 4.1; 5.2.1; 5.3; 8.2.1; 6.1
Amaryllidaceae	<i>Allium permixtum</i> Guss.	VU	B1ab(iii)+2ab(iii)	2.3
Amaryllidaceae	<i>Allium polyanthum</i> Schult. & Schult.f.	DD		
Amaryllidaceae	<i>Allium roseum</i> L. subsp. <i>roseum</i>	LC		1.1; 1.3; 2.1; 4.1; 7.1; 7.3; 5.2.1
Amaryllidaceae	<i>Allium savii</i> Parl.	NT		1; 2.3; 7
Amaryllidaceae	<i>Allium trifoliatum</i> Cirillo	NT		1.1; 2.1; 2.3; 4.1; 7.3
Amaryllidaceae	<i>Allium triquetrum</i> L.	LC		1.1; 1.3; 2.1; 4.1; 5.2.1
Betulaceae	<i>Alnus cordata</i> (Loisel.) Duby	LC		
Poaceae	<i>Alopecurus arundinaceus</i> Poir. subsp. <i>arundinaceus</i>	DD		
Potamogetonaceae	<i>Althemia filiformis</i> Petit subsp. <i>filiformis</i>	EN	B2ab(iii,v)	2.1; 7.2; 7.3
Brassicaceae	<i>Alyssum repens</i> Baumg.	DD		
Brassicaceae	<i>Alyssum siculum</i> Jord.	LC		
Brassicaceae	<i>Alyssum wulfenianum</i> Bernh.	LC		6.1
Araceae	<i>Ambrosia bassii</i> L.	NT		3.1; 6.1
Rosaceae	<i>Amelanchier ovalis</i> Medik. subsp. <i>embergeri</i> Favarger & Stearn	LC		
Poaceae	<i>Ampelodesmos mauritanicus</i> (Poir.) T.Durand & Schinz	LC		1.1; 1.3; 3.3; 4.1; 7.1; 7.3
Plantaginaceae	<i>Anarrhinum corsicum</i> Jord. & Fourr.	NT		2.2; 2.3
Boraginaceae	<i>Anchusa formosa</i> Selvi, Bigazzi & Bacch.	LC		10.3; 11.4
Primulaceae	<i>Androsace affinis</i> Biroli subsp. <i>affinis</i>	LC		
Primulaceae	<i>Androsace affinis</i> Biroli subsp. <i>brigantia</i> (Jord. & Fourr.) Kress	LC		
Primulaceae	<i>Androsace affinis</i> Biroli subsp. <i>puberula</i> (Jord. & Fourr.) Kress	LC		1.3; 2.3; 6.1
Primulaceae	<i>Androsace elongata</i> L. subsp. <i>breistrofferi</i> (Charpin & Greuter) Molero & J.M.Monts.	NT		

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Primulaceae	<i>Androsace pubescens</i> DC.	NT		5.2
Primulaceae	<i>Androsace septentrionalis</i> L.	LC		
Primulaceae	<i>Androsace vitaliana</i> (L.) Lapeyr. subsp. <i>chirea</i> (Süend.) Kress	LC	B2ab(iii,v)	1.1, 4.1 2.1; 2.3; 7.1; 7.3
Asteraceae	<i>Andryala tenuifolia</i> (Tineo) DC.	LC		
Ranunculaceae	<i>Anemone palmata</i> L.	EN		
Poaceae	<i>Anisantha macranthera</i> (Hack. ex Trab.) P.Silva	LC		
Poaceae	<i>Anthoxanthum gracile</i> Biv.	LC		
Poaceae	<i>Anthoxanthum ovatum</i> Lag.	LC		
Fabaceae	<i>Anthyllis hermanniae</i> L. subsp. <i>corsica</i> Brullo & Giusso	CR(PE)		
Fabaceae	<i>Anthyllis vulneraria</i> L. subsp. <i>versicolor</i> (Dalla Torre & Samth.) Gutermann	LC		
Poaceae	<i>Antinoria insularis</i> Parl.	NT		4.1; 7.2; 7.3; 11.1
Rosaceae	<i>Aphanes pusilla</i> (Pomel) Batt.	LC		
Asparagaceae	<i>Aphyllanthes monspeliensis</i> L.	LC		6.1; 7.3; 11.1
Apocynaceae	<i>Apteranthes europaea</i> (Guss.) Plowes subsp. <i>europaea</i>	NT		1.1; 1.3; 5.2; 6.1; 9.1
Brassicaceae	<i>Arabis allionii</i> DC.	LC		
Caryophyllaceae	<i>Arenaria aggregata</i> (L.) Loisel. subsp. <i>aggregata</i>	VU	D1	4; 7.1; 7.3
Caryophyllaceae	<i>Arenaria balearica</i> L.	LC		
Caryophyllaceae	<i>Arenaria bertolonii</i> Fiori	LC		
Araceae	<i>Arisarum proboscideum</i> (L.) Savi	LC		3.2
Poaceae	<i>Aristida adscensionis</i> L.	EN		1.3.3; 4.1; 5.3.3; 7.1.3; 8.1.2; 8.2.2
Aristolochiaceae	<i>Aristolochia clusii</i> Lojac.	DD		1.3; 2.1.1; 4.1; 7.3; 8.1
Aristolochiaceae	<i>Aristolochia navicularis</i> E.Nardi	LC		
Aristolochiaceae	<i>Aristolochia rotunda</i> L. subsp. <i>insularis</i> (E.Nardi & Arrigoni) Gamisans	LC	B2ab(iii,v)	1.3; 2.3; 7.2; 11.2
Aristolochiaceae	<i>Aristolochia tyrrhena</i> E.Nardi & Arrigoni	LC		
Plumbaginaceae	<i>Armeria pungens</i> (Link) Hoffmanns. & Link	EN	B2ab(iii,v)	1.3; 4.1; 6.1; 8.1
Poaceae	<i>Arrhenatherum album</i> (Vahl) Clayton	DD		
Asteraceae	<i>Artemisia atrata</i> Lam.	EN	B1ab(iii,v)+2ab(iii,v)	1; 2; 5
Asteraceae	<i>Artemisia caerulea</i> L. subsp. <i>densiflora</i> (Viv.) Kerguelén & Lambinon	NT		1.3; 6.1
Asteraceae	<i>Artemisia caerulea</i> L. subsp. <i>gallica</i> (Willd.) K.M.Perss.	DD		
Asteraceae	<i>Artemisia chamaemelifolia</i> Vill. subsp. <i>chamaemelifolia</i>	NT		6.1; 7.3
Asteraceae	<i>Artemisia vallesiaca</i> All.	NT		1.1; 1.2; 2.1; 4.1
Araceae	<i>Arum cylindraceum</i> Gasp. ex Guss.	LC		2.3; 4.1; 5.3.3
Araceae	<i>Arum pictum</i> L.f. subsp. <i>pictum</i>	LC		
Poaceae	<i>Arundo plinii</i> Turra	DD		
Asparagaceae	<i>Asparagus albus</i> L.	LC		1.3; 4.1; 7.1; 7.3
Asparagaceae	<i>Asparagus pastorianus</i> Webb & Berthel.	NT		1.1; 1.3; 2.1; 2.3; 5.3
Rubiaceae	<i>Asperula hexaphylla</i> All.	LC		
Asphodelaceae	<i>Asphodeline liburnica</i> (Scop.) Rchb.	LC		2.2.1; 3.3; 4.1; 4.2; 7.1; 7.3
Asphodelaceae	<i>Asphodelus ayardii</i> Jahand. & Maire	VU	D2	4.1; 4.2; 9.3.3
Asphodelaceae	<i>Asphodelus cerasiferus</i> J.Gay	DD		
Asphodelaceae	<i>Asphodelus tenuifolius</i> Cav.	EN		1.1; 1.3; 4.1; 7.1; 7.3
Aspleniaceae	<i>Asplenium sagittatum</i> (DC.) Bange	EN	A2c	2.3; 5.2.2; 7.2; 7.3;
Fabaceae	<i>Astragalus austriacus</i> Jacq.	LC		
Fabaceae	<i>Astragalus peregrinus</i> Vahl subsp. <i>warionis</i> (Gand.) Maire	CR	B1ab(v)+2ab(v)	1.3; 2.1; 9.3.2
Fabaceae	<i>Astragalus scorpioides</i> Willd.	CR(PE)		
Fabaceae	<i>Astragalus terraccianoii</i> Vals.	EN	B1ab(iii,v)+2ab(iii,v)	1.3; 2.3; 7.3
Fabaceae	<i>Astragalus vesicarius</i> L. subsp. <i>carmiolicus</i> (A.Kern.) Chater	VU	B1ab(iii,v)+2ab(iii,v)	7.3

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Apiaceae	<i>Astrantia bavarica</i> F.W.Schultz	NT		1.3; 2.3; 7.3
Apiaceae	<i>Astrantia carniolica</i> Jacq.	LC		7.3; 11
Apiaceae	<i>Athamanta ramosissima</i> Port.	NT		4.1; 7.1.1; 7.3; 10.3
Apiaceae	<i>Athamanta turbith</i> (L.) Brot. subsp. <i>turbith</i>	LC		6
Amaranthaceae	<i>Atriplex glauca</i> L.	CR(PE)		
Brassicaceae	<i>Aurinia petraea</i> (Ard.) Schur	VU	B1ab(iii,iv,v)	4.1; 7.3
Poaceae	<i>Avena saxatilis</i> (Lojac.) Rocha Afonso	DD		2.1; 2.2; 7.1
Poaceae	<i>Avena insularis</i> Ladiz.	NT		1.1; 2.1; 2.3; 2.4.1; 7; 7.2.2; 7.3; 8.1.2; 9.3; 11.2
Alismataceae	<i>Baldella ranunculoides</i> (L.) Parl.	EN	B2ab(i,ii,iii,iv,v)	
Brassicaceae	<i>Barbarea rupicola</i> Moris	LC		
Brassicaceae	<i>Barbarea sicula</i> C.Presl	NT		2.3.1; 6.1; 7.3; 11.2
Orchidaceae	<i>Barlia robertiana</i> (Loisel.) Greuter	LC		1.1; 1.3; 2.1; 2.3; 4.1; 5.2.1; 7.1; 7.3; 8.2.1; 11.1
Amaranthaceae	<i>Bassia hyssopifolia</i> (Pall.) Kuntze	CR(PE)		
Amaranthaceae	<i>Bassia prostrata</i> (L.) Beck	LC		1.1; 1.2; 2.1; 4.1
Asparagaceae	<i>Beilvalia romana</i> (L.) Sweet	LC		2.1; 7.3
Asparagaceae	<i>Beilvalia trifoliata</i> (Ten.) Kunth	VU	A2c + B2ab(i,ii,iii,iv,v)	2
Asteraceae	<i>Beilium bellidioides</i> L.	LC		
Asteraceae	<i>Beilium minutum</i> (L.) L.	NT		1.3; 4.1
Asteraceae	<i>Berardia lanuginosa</i> (Lam.) Fiori	LC		
Berberidaceae	<i>Berberis aetnensis</i> C.Presl	LC		10.1
Brassicaceae	<i>Berteroa mutabilis</i> (Vent.) DC.	DD		
Araceae	<i>Biarum dispar</i> (Schott) Talavera	EN	B1ab(i,ii,iii,iv,v)+2ab(i,ii,iii,iv,v)	6; 3
Araceae	<i>Biarum tenuifolium</i> (L.) Schott subsp. <i>abbreviatum</i> (Schott) K.Richt.	DD		
Araceae	<i>Biarum tenuifolium</i> (L.) Schott subsp. <i>tenuifolium</i>	LC		2.3.1; 7.1; 7.3
Brassicaceae	<i>Biscutella brevicaulis</i> Jord.	LC		
Fabaceae	<i>Bituminaria morisiana</i> (Pignatti & Metlesics) Greuter	LC		
Brassicaceae	<i>Bivonaea lutea</i> (Biv.) DC.	NT		1.1; 2.1; 2.3; 4.1; 9.3.2
Boraginaceae	<i>Borago pygmaea</i> (DC.) Chater & Greuter	EN	B2ab(iii,v)	2.2; 2.3; 4.1; 7.2; 7.3; 11.1; 11.2
Poaceae	<i>Brachypodium phoenicoides</i> (L.) Roem. & Schult.	LC		1.1; 2.1; 2.3; 4.1; 7.1
Brassicaceae	<i>Brassica montana</i> Pourr.	VU	B2ab(iii,v)	3; 6; 7; 10; 11
Brassicaceae	<i>Brassica procumbens</i> (Poir.) O.E.Schulz	NT		1; 7; 8
Brassicaceae	<i>Brassica repanda</i> (Willd.) DC.	LC		
Brassicaceae	<i>Brassica souliei</i> (Batt.) Batt. subsp. <i>amplexicaulis</i> (Desf.) Greuter & Burdet	NT		1.1; 2.1; 2.3; 4.1; 9.3.2
Brassicaceae	<i>Braya alpina</i> Sternb. & Hoppe	LC		
Asparagaceae	<i>Brimeura fastigiata</i> (Viv.) Chouard	LC		
Poaceae	<i>Bromopsis condensata</i> (Hack.) Holub subsp. <i>condensata</i>	DD		
Poaceae	<i>Bromus alopecurus</i> Poir. subsp. <i>alopecurus</i>	LC		1.1, 7.1; 2.1.1; 3.2; 7.3
Poaceae	<i>Bromus arvensis</i> L. subsp. <i>segetalis</i> H.Scholz	DD		
Poaceae	<i>Bromus parvispiculatus</i> H.Scholz	NT		
Cucurbitaceae	<i>Byronia acuta</i> Desf.	EN	B2ab(iii,iv,v)	7.3
Cucurbitaceae	<i>Byronia marmorata</i> E.Petit	EN		1.1; 1.3; 2.1
Cucurbitaceae	<i>Bubon macedonicum</i> L.	LC		
Caryophyllaceae	<i>Bufonia tenuifolia</i> L.	DD		
Apiaceae	<i>Bunium corydalinum</i> DC.	LC	B1ab(i,ii,iii,iv,v)+2ab(i,ii,iii,iv,v)	5
Apiaceae	<i>Bupleurum falcatum</i> L. subsp. <i>corsicum</i> (Coss. & Kralik) Rouy & E.G.Carnus	DD		
Apiaceae	<i>Bupleurum gracile</i> d'Urv.	CR		7.1; 7.3
Apiaceae	<i>Bupleurum trichopodium</i> Boiss. & Spruner	DD		1.3; 6.1
Butomaceae	<i>Butomus umbellatus</i> L.	VU	B2ab(i,ii,iii,iv,v)	2.1; 2.1.3; 5.2.2; 7.2; 7.2.3; 7.3; 8.1; 8.2; 9.1.1; 9.3.1; 9.3.3; 11.1; 11.4

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Buxaceae	<i>Buxus balearica</i> Lam.	CR	B1ab(iii,v)+2ab(iii,v)	1.3; 2.3; 3.2; 7.1; 9.2.2
Poaceae	<i>Calamagrostis corsica</i> (Hack. ex Briq.) Prain	LC		1.1; 7.1
Asteraceae	<i>Callendula stellata</i> Cav.	DD		1.3; 7.2
Plantaginaceae	<i>Callitriche truncata</i> Guss. subsp. <i>occidentalis</i> (Rouy) Braun-Blanq.	NT		
Brassicaceae	<i>Camelina alyssum</i> (Mill.) Thell. subsp. <i>alyssum</i>	CR(PE)		6.1; 5.2; 10.3; 11
Campanulaceae	<i>Campanula alpestris</i> All.	LC		1.3; 2.3; 5.2; 6.1
Campanulaceae	<i>Campanula excisa</i> Schleich. ex Murith	LC		7.3
Campanulaceae	<i>Campanula fritschii</i> Witasek	VU		
Campanulaceae	<i>Campanula lingulata</i> Waldst. & Kit.	CR(PE)	D1	
Campanulaceae	<i>Campanula macrorhiza</i> J.Gay ex A.DC.	LC		
Campanulaceae	<i>Campanula persicifolia</i> L. subsp. <i>sessiliflora</i> (K.Koch) Velen.	DD		1.1
Campanulaceae	<i>Campanula sibirica</i> L. subsp. <i>divergentiformis</i> (Jáv.) Domin	LC		
Campanulaceae	<i>Campanula stenocodon</i> Boiss. & Reut.	LC		2.3; 5.2; 6.1
Campanulaceae	<i>Campanula thyrsooides</i> L. subsp. <i>carniolica</i> (Süendl.) Podlech	LC		2; 5; 7
Campanulaceae	<i>Campanula versicolor</i> Andrews	LC		6.1
Asteraceae	<i>Carduus collinus</i> Waldst. & Kit. subsp. <i>cylindricus</i> (Borbás) Soó	EN	B1ab(iii,v)+2ab(iii,v)	7.3
Asteraceae	<i>Carduus fasciculiflorus</i> Viv.	LC		1.3; 6.1
Asteraceae	<i>Carduus nutans</i> L. subsp. <i>alpicola</i> (Gillot) Chass. & Arènes	DD		
Asteraceae	<i>Carduus personata</i> (L.) Jacq. subsp. <i>albidus</i> (Adamović) Kazmi	DD		
Asteraceae	<i>Carduus sardous</i> DC.	LC		2; 10; 11
Cyperaceae	<i>Carex atrofusca</i> Schkuhr	EN	B1ab(iii,v)+2ab(iii,v)	
Cyperaceae	<i>Carex bohémica</i> Schreb.	DD		
Cyperaceae	<i>Carex buekii</i> Wimm.	EN	B1ab(iii)+2ab(iii)	2.1; 7.2.3; 9.3.1; 9.3.3
Cyperaceae	<i>Carex buxbaumii</i> Wahlenb.	EN	B2ab(iii)	5; 7
Cyperaceae	<i>Carex capitata</i> L.	CR	B2ab(iii,v)	2; 6
Cyperaceae	<i>Carex chordorrhiza</i> L.f.	EN	B1ab(iii,v)+2ab(iii,v)	2; 6
Cyperaceae	<i>Carex heleonastes</i> L.f.	EN	B1ab(iii)	2.3; 7.2; 9.3; 11.2
Cyperaceae	<i>Carex hispida</i> Willd. ex Schkuhr	CR		1.3; 2.1.1; 4.1; 7.2.3
Cyperaceae	<i>Carex illegitima</i> Ces.	LC		4.1; 5.3; 7.1
Cyperaceae	<i>Carex laevigata</i> Sm.	NT		2.3; 6.1; 7.2
Cyperaceae	<i>Carex macrolepis</i> DC.	LC		
Cyperaceae	<i>Carex mairai</i> Coss. & Germ.	VU	D1	7.3
Cyperaceae	<i>Carex melanostachya</i> Willd.	CR	B2ab(iii,v)	7
Cyperaceae	<i>Carex microcarpa</i> Bertol. ex Moris	NT		1.3; 2.3; 7.2
Cyperaceae	<i>Carex muricata</i> L.	LC		
Cyperaceae	<i>Carex nigra</i> (L.) Reichard subsp. <i>intricata</i> (Tineo ex Guss.) Rivas Mart.	NT		2.3; 4.1; 7.2.3; 7.3
Cyperaceae	<i>Carex norvegica</i> Retz.	VU	B1ab(iii,v)	6.1; 7.2; 11.1
Cyperaceae	<i>Carex oediposyla</i> Duval-Jouve	LC		1.1; 2.1; 2.3; 4.1; 5.3; 6.1; 7.1; 7.3
Cyperaceae	<i>Carex olbiensis</i> Jord.	LC		
Cyperaceae	<i>Carex phyllostachys</i> C.A.Mey.	DD		
Cyperaceae	<i>Carex randaipina</i> B.Walln.	EN	B1ab(iii)+2ab(iii)	2.1; 7.2
Cyperaceae	<i>Carex rostrata</i> Stokes	NT		1; 2.3.2; 7.2; 9.3.2; 11.1
Cyperaceae	<i>Carex supina</i> Wahlenb.	LC		7.3
Cyperaceae	<i>Carex vaginata</i> Tausch	VU	D2	2.3; 11.1; 7.2; 9.3; 11.2
Cyperaceae	<i>Carex vulpina</i> L.	EN	B2ab(iii,v)	7.3; 8.2.2

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Asteraceae	<i>Carlina acanthifolia</i> All. subsp. <i>utzka</i> (Hacq.) Meusel & Kästner	EW		
Asteraceae	<i>Carlina biebersteinii</i> Bernh. ex Hornem. subsp. <i>brevibracteata</i> (Andrae) K.Werner	DD		7.1
Asteraceae	<i>Carlina involuocrata</i> Poir.	VU	D2	1.1; 1.3; 2.1; 2.3; 6.3
Asteraceae	<i>Carlina racemosa</i> L.	LC		1.1; 1.3; 4.1
Asteraceae	<i>Carlina sicula</i> Ten. subsp. <i>mareotica</i> (Asch. & Schweinf.) Greuter	LC		1.1; 7.2; 7.3; 9.3
Asteraceae	<i>Carpesium abrotanoides</i> L.	NT		
Asteraceae	<i>Carthamus creticus</i> L.	DD		
Asteraceae	<i>Carthamus dentatus</i> (Forssk.) Vahl	CR(PE)		
Asteraceae	<i>Carthamus pinnatus</i> Desf.	LC		
Poaceae	<i>Castellia tuberculosa</i> (Moris) Bor	DD		2.1; 2.3; 7.1
Asteraceae	<i>Castroviegia frigida</i> (Labill.) Galbany, L.Sáez & Benedí	DD		7.1; 5.2
Asteraceae	<i>Catananche caerulea</i> L.	NT		1.1; 1.3; 7.1; 10.3
Poaceae	<i>Cenchrus ciliaris</i> L.	LC		
Asteraceae	<i>Centaurea arachnoidea</i> Viv. subsp. <i>adonidifolia</i> (Rchb.) F.Conti, Moraldo & Ricceri	LC		
Asteraceae	<i>Centaurea cristata</i> Bartl.	NT		7.3; 8.1.2
Asteraceae	<i>Centaurea dichroantha</i> A.Kern.	NT		2.1; 6.1; 7.3; 9.3
Asteraceae	<i>Centaurea jacea</i> L. subsp. <i>julica</i> (Hayek) Greuter	LC		7.3
Asteraceae	<i>Centaurea jacea</i> L. subsp. <i>weldeniana</i> (Rchb.) Greuter	LC		7.3
Asteraceae	<i>Centaurea macroptilon</i> Borbás	CR(PE)		
Asteraceae	<i>Centaurea rhaetica</i> Moritz	LC		
Asteraceae	<i>Centaurea scabiosa</i> L. subsp. <i>fritschii</i> (Hayek) Hayek	DD		5.3.3
Asteraceae	<i>Centaurea stenolepis</i> A.Kern. subsp. <i>stenolepis</i>	NT		1.1; 6.1; 7.3; 8.2
Asteraceae	<i>Centaurea tommasinii</i> A.Kern.	VU	A2cde + A3cde B1ab(iii,v) + 2ab(iii,v)	1.1; 6.1; 7.3 2.3; 7.3
Gentianaceae	<i>Centaurium littorale</i> (Turner) Gilmour subsp. <i>littorale</i>	EN		
Caprifoliaceae	<i>Cephalaria alpina</i> (L.) Roem. & Schult.	NT		
Caryophyllaceae	<i>Cerastium boissierianum</i> Greuter & Burdet	LC		
Caryophyllaceae	<i>Cerastium lineare</i> All.	LC		
Caryophyllaceae	<i>Cerastium subtriflorum</i> (Rchb.) Pacher	LC		
Plantaginaceae	<i>Chaenothium origanifolium</i> (L.) Kostel. subsp. <i>origanifolium</i>	LC		11.1
Apiaceae	<i>Chaerophyllum aromaticum</i> L.	DD		
Caryophyllaceae	<i>Chaetonychia cymosa</i> (L.) Sweet	DD		1.1; 1.3; 2.2; 4.1; 6.2; 7.1.3; 8.1.2; 8.3; 10.3
Arecaceae	<i>Chamaerops humilis</i> L.	NT		
Asparagaceae	<i>Charybdis maritima</i> (L.) Speta	DD		
Asparagaceae	<i>Charybdis pancracion</i> (Steinh.) Speta	NT		
Asparagaceae	<i>Charybdis undulata</i> (Desf.) Speta	LC		1.3; 4.1; 5.2; 7.1; 7.3
Amaranthaceae	<i>Chenopodium album</i> L. subsp. <i>borbasii</i> (Murr) Soó	DD		
Asparagaceae	<i>Chouardia litardierei</i> (Breistr.) Speta	CR(PE)		
Asteraceae	<i>Cichorium spinosum</i> L.	EN	B1ab(iii,v) + 2ab(iii,v)	1.1; 1.3; 4.1 7.1
Asteraceae	<i>Cirsium echinatum</i> (Desf.) DC.	LC		
Asteraceae	<i>Cirsium vulgare</i> (Savi) Ten. subsp. <i>crinitum</i> (DC.) Arènes	DD		
Asteraceae	<i>Cirsium vulgare</i> (Savi) Ten. subsp. <i>silvaticum</i> (Tausch) Arènes	DD		
Asteraceae	<i>Cirsium vulgare</i> (Savi) Ten. subsp. <i>vulgare</i>	DD		
Cistaceae	<i>Cistus clusii</i> Dunal	CR	A2C + B2ab(i,j,iii,iv,v)	7 2.2; 2.3
Cistaceae	<i>Cistus creticus</i> L. subsp. <i>corsicus</i> (Loisel.) Greuter & Burdet	NT		
Cistaceae	<i>Cistus parviflorus</i> Lam.	CR	B1ab(iii) + 2ab(iii) + D	1.1; 1.3; 2.3
Cucurbitaceae	<i>Citrullus cologyntis</i> (L.) Schrad.	EN	B1ab(iii,v) + 2ab(iii,v)	1.3; 5.2; 7.1

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Ranunculaceae	<i>Clematis integrifolia</i> L.	EW		
Lamiaceae	<i>Clinopodium inseleanum</i> (F.W.Schultz) Peruzzi & F.Conti	LC		
Lamiaceae	<i>Clinopodium album</i> (Waldst. & Kit.) Bräuchler & Govaerts	LC		7.3
Brassicaceae	<i>Coicya richeri</i> (Vill.) Greuter & Burdet	LC		
Colchicaceae	<i>Colchicum arenasii</i> Fridl.	DD		
Colchicaceae	<i>Colchicum bivanæ</i> Guss.	LC		1; 2.1.1; 6.1; 7.3
Colchicaceae	<i>Colchicum cupanii</i> Guss. subsp. <i>cupanii</i>	LC		1.3; 2.1; 2.2; 2.3; 6.1; 7.1
Colchicaceae	<i>Colchicum longifolium</i> Castagne	LC		
Colchicaceae	<i>Colchicum lusitanum</i> Brot.	LC		1.3; 6.1; 4.1
Colchicaceae	<i>Colchicum nanum</i> K.Perss.	DD		
Colchicaceae	<i>Colchicum triphyllum</i> Kunze	VU	D2	9.3.2
Fabaceae	<i>Colutea brevialata</i> Lange	DD		
Apiaceae	<i>Conopodium majus</i> (Gouan) Loret subsp. <i>majus</i>	NT		2.1; 5.3
Convolvulaceae	<i>Convolvulus sabatius</i> Viv. subsp. <i>sabatius</i>	VU	D2	4; 6; 7; 8
Convolvulaceae	<i>Convolvulus siculus</i> L. subsp. <i>elongatus</i> Batt.	LC		2.2; 2.3; 4.2; 7.1; 7.3
Convolvulaceae	<i>Convolvulus tricolor</i> L. subsp. <i>cuparianus</i> (Tod.) Cavara & Grande	NT		1.1; 1.3; 2.1; 4.1; 7.3
Poaceae	<i>Cornucopiae cucullatum</i> L.	EN	B2ac(iii,iv)	6
Molluginaceae	<i>Corrigiola telephifolia</i> Pourr.	LC		1.3; 6.1
Papaveraceae	<i>Corydalis capnoides</i> (L.) Pers.	EN	B1ab(iii)+2ab(iii)	7.3
Poaceae	<i>Corynephorus divaricatus</i> (Pourr.) Breistr.	LC		1.1; 1.3; 6.1; 7.1
Pteridaceae	<i>Cosentinia vellea</i> (Aiton) Tod. subsp. <i>bivalens</i> (Reichst.) Rivas Mart. & Salvo	DD		
Rosaceae	<i>Cotoneaster intermedius</i> (Lecoq & Lamotte) H.J.Coste	DD		2
Crassulaceae	<i>Crassula alata</i> (Viv.) A.Berger	NT		1.1; 1.3
Rosaceae	<i>Crataegus orientalis</i> M.Bieb. subsp. <i>orientalis</i>	LC		7.1
Rosaceae	<i>Crataegus orientalis</i> M.Bieb. subsp. <i>presliana</i> K.I.Chr.	LC		7.1
Asteraceae	<i>Crepis albida</i> Vill. subsp. <i>albida</i>	LC		
Asteraceae	<i>Crepis bellidifolia</i> Loisel.	LC		
Asteraceae	<i>Crepis chondrilloides</i> Jacq.	NT		7.3
Asteraceae	<i>Crepis mollis</i> (Jacq.) Asch. subsp. <i>succisifolia</i> (All.) Dostál	VU	D2	2.1.1; 7.3
Asteraceae	<i>Crepis suffreniana</i> (DC.) Steud.	LC		
Convolvulaceae	<i>Cressa cretica</i> L.	EN	B2ab(i,ii,iii,v)	6; 7
Iridaceae	<i>Crocus heuffellianus</i> Herb.	DD		
Iridaceae	<i>Crocus ligusticus</i> Mariotti	NT		4.1; 5.2; 8.2.2
Iridaceae	<i>Crocus longiflorus</i> Raf.	LC		4.1; 5.2.1; 6.1; 7.3
Iridaceae	<i>Crocus minimus</i> DC.	LC		
Iridaceae	<i>Crocus thomasii</i> Ten.	LC		2.1; 2.3; 4.1; 7.1; 7.3
Iridaceae	<i>Crocus versicolor</i> Ker Gawl.	NT		2.3; 5.2; 8.2.2; 11.2
Iridaceae	<i>Crocus weldenii</i> Hoppe & Fürnr.	EN		1.2; 2.1; 7.3
Rubiaceae	<i>Crucianella rupestris</i> Guss.	NT	B1ab(iii,v)+2ab(iii,v)	1.1; 1.3; 4.1; 6.3; 9.3.2
Convolvulaceae	<i>Guscuta approximata</i> Bab. subsp. <i>macranthera</i> (Heldr. & Sartoni ex Boiss.) Feinbrun & Greuter	DD		
Convolvulaceae	<i>Guscuta epithymum</i> (L.) L. subsp. <i>corsicana</i> (Yunck.) Lambinon	NT		2.3; 6.1
Convolvulaceae	<i>Guscuta monogyna</i> Vahl subsp. <i>monogyna</i>	DD		
Poaceae	<i>Cutandia divaricata</i> (Desf.) Barbey	NT		1.1; 1.3; 2.4; 6.1; 7.1
Primulaceae	<i>Cyclamen hederifolium</i> Aiton subsp. <i>confusum</i> (Grey-Wilson) Grey-Wilson	DD		
Plantaginaceae	<i>Gymbalaria mulleri</i> (Moris) A.Chev.	LC		

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Asteraceae	<i>Cynara cardunculus</i> L. subsp. <i>flavescens</i> Wiklund	VU	D2	7.1
Boraginaceae	<i>Cynoglossum nebrodense</i> Guss. subsp. <i>nebrodense</i>	VU	D2	1.1; 1.3; 2.3; 4.1
Poaceae	<i>Cynosurus effusus</i> Link	LC		1.1, 1.3, 6.1, 7.1; 7.3
Cyperaceae	<i>Cyperus alopecuroides</i> Rottb.	CR	B2ab(iii,v)	7
Cyperaceae	<i>Cyperus flavidus</i> Retz.	DD		
Cyperaceae	<i>Cyperus laevigatus</i> L.	VU	D2	1.3; 4.1
Poaceae	<i>Dactylis glomerata</i> L. subsp. <i>reichenbachii</i> (Dalla Torre & Santh.) Stebbins & D.Zohary	LC		
Orchidaceae	<i>Dactylorhiza insularis</i> (Sommier) O.Sánchez & Herrero	NT		5.2; 7.3; 8.2.2
Orchidaceae	<i>Dactylorhiza lapponica</i> (Laest. ex Hartm.) Soó subsp. <i>angustata</i> (Arv.-Touv.) Kreutz	DD		
Orchidaceae	<i>Dactylorhiza maculata</i> (L.) Soó subsp. <i>savogensis</i> (D.Tyteca & Gathoye) Kreutz	LC		
Alismataceae	<i>Damasium polyspermum</i> Coss.	VU	D2	4.1; 7.2
Thymelaeaceae	<i>Daphne blagayana</i> Freyer	LC		5.2.1
Apiaceae	<i>Daucus minusculus</i> Pau ex Font Quer	DD		
Ranunculaceae	<i>Delphinium emarginatum</i> C.Presl subsp. <i>emarginatum</i>	NT		7.1
Ranunculaceae	<i>Delphinium gracile</i> DC.	EN	B1ab(iii,v)+2ab(iii,v)	2.3; 6.1; 7; 8.1; 9.1
Poaceae	<i>Deschampsia cespitosa</i> (L.) P.Beauv. subsp. <i>parviflora</i> (Thuill.) Dumort.	DD		7.3; 8.1.2
Poaceae	<i>Desmazeria pignatitii</i> Brullo & Pavone	NT		1.3
Poaceae	<i>Desmazeria sicula</i> (Jacq.) Dumort.	LC		1.1; 1.3; 6.1
Caryophyllaceae	<i>Dianthus arrostoi</i> C.Presl	NT		2.3; 4.1; 9.3.2
Caryophyllaceae	<i>Dianthus furcatus</i> Balb. subsp. <i>furcatus</i>	LC		
Caryophyllaceae	<i>Dianthus glacialis</i> Haenke subsp. <i>glacialis</i>	NT		5.2.1; 6.1; 11.1
Caryophyllaceae	<i>Dianthus sanguineus</i> Vis.	NT		5; 7.3
Caryophyllaceae	<i>Dianthus siculus</i> C.Presl	LC		1.3; 2.3; 7.1
Plantaginaceae	<i>Digitalis laevigata</i> Waldst. & Kit. subsp. <i>laevigata</i>	LC		5.2
Plantaginaceae	<i>Digitalis micrantha</i> Roth ex Schweigg.	LC		1.1, 1.3, 3.2
Brassicaceae	<i>Diplotaxis harra</i> (Forssk.) Boiss. subsp. <i>crassifolia</i> (Raf.) Maire	LC		
Dipsacaceae	<i>Dipsacus ferox</i> Loisel.	DD		
Asteraceae	<i>Doronicum plantagineum</i> L.	LC		7.3
Fabaceae	<i>Dorycnopsis gerardi</i> (L.) Boiss.	NT		7.3
Araceae	<i>Draconculis vulgaris</i> Schott	VU	A2c	2.1; 7.3
Droseraceae	<i>Drosera anglica</i> Huds.	EN	B2ab(i,ii,iii,iv,v)	7.2; 9.3
Droseraceae	<i>Drosera intermedia</i> Hayne	EN	B2ab(i,ii,iii,iv,v)	6; 7.2; 8.1.2; 9.3.1; 11.1
Rosaceae	<i>Drymocalis corsica</i> (Soleirol ex Lehm.) Kurtto	NT		2.3; 6.1
Caryophyllaceae	<i>Drypis spinosa</i> L. subsp. <i>jacquiniana</i> Wettst. & Murb.	VU	D2	6.1
Asteraceae	<i>Echinops exaltatus</i> Schrad.	EN	B1ab(iii,v)+2ab(iii,v)	7
Asteraceae	<i>Echinops spinosissimus</i> Turra subsp. <i>neumayeri</i> (Vis.) Kozuharov	NT		1.1; 6.1
Asteraceae	<i>Echinops spinosissimus</i> Turra subsp. <i>spinosissimus</i>	EN		1.1; 1.3; 6.1; 8.1.2
Asteraceae	<i>Echinops spinosissimus</i> Turra subsp. <i>spinosus</i> Greuter	NT		1.1; 1.3
Boraginaceae	<i>Echium creticum</i> L. subsp. <i>coyncianum</i> (Lacaita) R.Fern.	DD		
Boraginaceae	<i>Echium creticum</i> L. subsp. <i>creticum</i>	LC		
Elatinaceae	<i>Elatine macropoda</i> Guss.	NT		1.3; 7.2; 11.2
Ephedraceae	<i>Ephedra foeminea</i> Forssk.	DD		1.3
Ephedrales	<i>Ephedra fragilis</i> Desf.	EN		1.1; 1.3; 2.2.1; 6.1
Ephedrales	<i>Ephedra podostylax</i> Boiss.	DD	B2ab(iii,v)	
Orchidaceae	<i>Epipactis bugacensis</i> Robatsch	DD		
Orchidaceae	<i>Epipactis exilis</i> P.Delforge	VU	B1ab(iii)+2ab(iii)	5.3; 7.3
Orchidaceae	<i>Epipactis greuteri</i> H.Baumann & Künkele	LC		5.2; 5.3; 11.2

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Orchidaceae	<i>Epipactis palustris</i> (L.) Grantz	NT		6; 7; 8; 9
Orchidaceae	<i>Epipactis placentina</i> Bongiorno & Grünanger	EN		5.3; 6; 7.1; 7.3; 8.2; 11.1; 11.2
Orchidaceae	<i>Epipactis rhodanensis</i> Gévaudan & Robatsch	NT	B2ab(i,ii,iii,iv,v)	5.2; 5.3; 6.1; 8.1.1; 11.1; 11.4
Orchidaceae	<i>Epipactis rivularis</i> Kranjčev & Čičmir	DD		
Ericaceae	<i>Erica cinerea</i> L.	NT		7.1
Asteraceae	<i>Erigeron acris</i> L. subsp. <i>serotinus</i> (Weihe) Greuter	DD		
Geraniaceae	<i>Erodium corsicum</i> Lémán	LC		6.1
Geraniaceae	<i>Erodium lebelii</i> Jord. subsp. <i>maruccii</i> (Parl.) Guitt.	DD		1.1; 1.3
Geraniaceae	<i>Erodium neuradifolium</i> Delille ex Godr.	NT		
Geraniaceae	<i>Erodium salzmannii</i> Delle	DD		4.1; 5.2.1; 6.1
Apiaceae	<i>Eryngium spinalba</i> Vill.	NT		
Brassicaceae	<i>Erysimum burnatii</i> G.Vidal	LC		
Brassicaceae	<i>Erysimum crassistylum</i> C.Presl subsp. <i>crassistylum</i>	LC		2.2.1
Euphorbiaceae	<i>Euphorbia aleppica</i> L.	DD	B2ab(iii,v)	4.1; 6.1; 7.3
Euphorbiaceae	<i>Euphorbia barrelieri</i> Savi	EN		7.1. 8.1. 10.3
Euphorbiaceae	<i>Euphorbia bivonae</i> Steud. subsp. <i>bivonae</i>	LC		6.1; 7.3
Euphorbiaceae	<i>Euphorbia fragifera</i> Jan	NT	B1ab(iii,v)+2ab(iii,v)	2.2; 4.1; 6.1; 7.3
Euphorbiaceae	<i>Euphorbia gayi</i> Salis	EN		
Euphorbiaceae	<i>Euphorbia hyberna</i> L. subsp. <i>canuti</i> (Parl.) Tutin	LC		
Euphorbiaceae	<i>Euphorbia hyberna</i> L. subsp. <i>insularis</i> (Boiss.) Briq.	EN	B2ab(i,ii,iii,iv)(v)	2.3; 2.2; 7.3; 8.2.1
Euphorbiaceae	<i>Euphorbia kernerii</i> Huter ex A.Kern.	LC		6.1; 7.1.1; 7.2; 7.3; 9.3; 11.5
Euphorbiaceae	<i>Euphorbia lagascae</i> Spreng.	DD		
Euphorbiaceae	<i>Euphorbia lucida</i> Waldst. & Kit.	NT		4.1; 8
Euphorbiaceae	<i>Euphorbia palustris</i> L.	VU	B2ab(i,ii,iii,iv)	2.4.1; 7.2; 8.2
Euphorbiaceae	<i>Euphorbia pithyusa</i> L. subsp. <i>cupanii</i> (Guss. ex Bertol.) Raddl.-Sm.	LC		1.1; 7.1
Euphorbiaceae	<i>Euphorbia semiperfoliata</i> Viv.	LC		10.3
Euphorbiaceae	<i>Euphorbia taurinensis</i> All.	EN	B2ab(iii,v)	7.3
Euphorbiaceae	<i>Euphorbia valliniana</i> Belli	VU	D1	10.3; 11.1
Orobanchaceae	<i>Euphrasia alpina</i> Lam. subsp. <i>christii</i> (Favrat) Hayek	LC		1.3; 6.1
Orobanchaceae	<i>Euphrasia cisalpina</i> Pugsley	NT		7.3
Orobanchaceae	<i>Euphrasia tricuspidata</i> L.	LC		7.3; 11.1
Asteraceae	<i>Evacidium discolor</i> (DC.) Maire	LC		
Gentianaceae	<i>Exaculum pusillum</i> (Lam.) Caruel	EN		1.1; 2.2; 2.3; 6; 7.3; 9.3.1
Caryophyllaceae	<i>Facchinia lanceolata</i> (All.) Rchb.	LC	B2ab(i,ii,iii,iv,v)	2.3; 6.1
Poaceae	<i>Festuca alfrediana</i> Foggii & Signorini subsp. <i>alfrediana</i>	NT		
Poaceae	<i>Festuca bauzanina</i> (Pils) S.Arndt subsp. <i>bauzanina</i>	LC		
Poaceae	<i>Festuca billyi</i> Kerguelén & Plonka	LC		
Poaceae	<i>Festuca calva</i> (Hack.) K.Richt.	LC		
Poaceae	<i>Festuca circummediterranea</i> Patzke	LC		
Poaceae	<i>Festuca cyrnea</i> (Litard. & St.-Yves) Signorini, Foggii & Nardi	DD		
Poaceae	<i>Festuca flavescens</i> Bellardi	LC		
Poaceae	<i>Festuca guinochetii</i> (Bidault) S.Arndt	LC		
Poaceae	<i>Festuca inops</i> De Not.	LC		
Poaceae	<i>Festuca marginata</i> (Hack.) K.Richt. subsp. <i>gallica</i> (Hack.) Breistr. ex Ardenghi & Foggii	LC		
Poaceae	<i>Festuca plonkae</i> Foggii & Signorini	LC		
Poaceae	<i>Festuca pseudovarioria</i> J.Vetter	LC		
Poaceae	<i>Festuca rivularis</i> Boiss. subsp. <i>rivularis</i>	NT		
Poaceae	<i>Festuca rupicaprina</i> (Hack.) A.Kern.	LC		
Poaceae	<i>Festuca sarda</i> (Hack.) K.Richt.	LC		2.2; 2.3; 6.1
Poaceae	<i>Festuca scabriculumis</i> (Hack.) K.Richt.	LC		

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Poaceae	<i>Festuca ticinensis</i> (Markgr.-Damm.) Markgr.-Damm.	LC		
Poaceae	<i>Festuca winnebachensis</i> (Wallossek & Markgr.-Damm.) Foggi, Gr.Rossi, Parolo & Wallossek	LC		
Asteraceae	<i>Filago tyrrhenica</i> Chrtek & Holub	LC		6.1
Cyperaceae	<i>Fimbristylis squarrosa</i> Vahl	VU	D2	7.2; 7.3
Liliaceae	<i>Fritillaria involucreta</i> All.	LC		5.2.2; 8.2.1; 11.2
Liliaceae	<i>Fritillaria messanensis</i> Raf.	EN	B2ab(iii,v)	2.1.1; 4.1; 7.3
Liliaceae	<i>Fritillaria tubaeformis</i> Gren. & Godr. subsp. <i>moggridgei</i> (Boiss. & Reuter ex Planch.) Rix	NT		5.2; 7.3
Liliaceae	<i>Gagea apulica</i> Peruzzi & J.-M.Tison	EN	B2ab(iii)	2.3; 7.3
Liliaceae	<i>Gagea foliosa</i> (C.Presl) Schult. & Schult.f.	LC		2.3
Liliaceae	<i>Gagea lacaitae</i> A.Terracc.	LC		2.3
Liliaceae	<i>Gagea lojaconoii</i> Peruzzi	LC		
Liliaceae	<i>Gagea luberonensis</i> J.-M.Tison	LC		
Liliaceae	<i>Gagea peduncularis</i> (J.Presl & C.Presl) Pascher	NT		7.1
Liliaceae	<i>Gagea polidorii</i> J.-M.Tison	LC		
Liliaceae	<i>Gagea soleirolii</i> F.W.Schultz ex Mutel	LC		
Amaryllidaceae	<i>Galanthus reginae-olgae</i> Orph. subsp. <i>reginae-olgae</i>	NT		1.1; 2.1; 4.1; 5.2.1; 5.3; 7.1; 7.2
Amaryllidaceae	<i>Galanthus reginae-olgae</i> Orph. subsp. <i>vernalis</i> Kamari	LC		1.1; 2.1; 5.2.1; 5.3; 7.2
Lamiaceae	<i>Galeopsis reuteri</i> Rchb.f.	LC		
Rubiaceae	<i>Galium corsicum</i> Spreng.	LC		2.3; 6.1
Rubiaceae	<i>Galium lucidum</i> All. subsp. <i>venustum</i> (Jord.) Arcang.	LC		
Rubiaceae	<i>Galium minutulum</i> Jord.	LC		1.3; 6.1
Rubiaceae	<i>Galium noricum</i> Ehrend.	LC		6.1
Rubiaceae	<i>Galium pseudohelveticum</i> Ehrend.	DD		
Rubiaceae	<i>Galium setaceum</i> Lam.	LC		1.3; 2.3; 6.1
Rubiaceae	<i>Galium tendae</i> Rchb.f.	LC		
Rubiaceae	<i>Galium verrucosum</i> Huds. subsp. <i>halophilum</i> (Ponzo) Lambinon	NT		1.1, 1.3, 6.1
Poaceae	<i>Gastridium phleoides</i> (Nees & Meyen) C.E.Hubb. subsp. <i>phleoides</i>	LC		6.1
Fabaceae	<i>Genista anglica</i> L.	NT		2; 3; 5; 6; 7; 8
Fabaceae	<i>Genista aspalathoides</i> Lam.	VU		1.3; 4.1; 5.3; 7.1
Fabaceae	<i>Genista cinerea</i> (Vill.) DC.	LC	D2	
Fabaceae	<i>Genista corsica</i> (Loisel.) DC.	LC		
Fabaceae	<i>Genista desoleana</i> Vals.	LC		7.1
Fabaceae	<i>Genista ferax</i> (Poir.) Poir.	EN		1.3; 2.2; 2.3; 7.1; 7.3; 8.1
Fabaceae	<i>Genista hispanica</i> L. subsp. <i>hispanica</i>	NT	B1ab(iii,v)+2ab(iii,v)	4.1; 10.3
Fabaceae	<i>Genista salzmannii</i> DC.	LC		2.2; 2.3; 7.1
Orchidaceae	<i>Gennaria diphylla</i> (Link) Parl.	NT		1.3; 2.2; 2.3; 6.1; 7.3; 8.1; 8.2.2
Gentianaceae	<i>Gentiana burseri</i> Lapeyr. subsp. <i>villarsii</i> (Griseb.) Rouy	LC		5.2
Gentianaceae	<i>Gentiana froelichii</i> Jan ex Rchb. subsp. <i>froelichii</i>	NT		6.1
Gentianaceae	<i>Gentiana pneumonanthe</i> L. subsp. <i>pneumonanthe</i>	VU	B2ab(i,i,iii,iv,v)	2.3; 7.2; 7.3; 9.3
Gentianaceae	<i>Gentiana prostrata</i> Haenke	LC		11.1
Gentianaceae	<i>Gentiana rostanii</i> Reut. ex Verl.	LC		5.2
Gentianaceae	<i>Gentiana tetragynis</i> Hacq. subsp. <i>schleicheri</i> (Vacc.) Tutin	LC		1.3; 6.1
Gentianaceae	<i>Gentiana austriaca</i> (A.Kern. & Jos.Kern.) Holub	DD		
Gentianaceae	<i>Gentiana insubrica</i> (Kunz) Holub	LC		11.1; 2.3.1
Gentianaceae	<i>Gentiana lutescens</i> (Velen.) Holub	NT		6.1; 7.3
Rosaceae	<i>Geum heterocarpum</i> Boiss.	CR	B1ab(i,i,iii,iv)+2ab(i,i,iii,iv)+C2a(ii)	11
Rosaceae	<i>Geum sylvaticum</i> Pourr.	DD		
Poaceae	<i>Glyceria spicata</i> Guss.	NT		11.2; 7.2; 2.3; 7.3

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Apiaceae	<i>Hacquetia epipactis</i> (Scop.) DC.	LC		
Rutaceae	<i>Haplophyllum patavinum</i> (L.) G.Don	VU	B1ab(iii)+2ab(iii)	6.1; 7.3
Fabaceae	<i>Hedysarum brigantiacum</i> Bourn., Chas & Kerguelén	LC		7.3
Fabaceae	<i>Hedysarum confertum</i> Desf.	LC		
Cistaceae	<i>Helianthemum lunulatum</i> (All.) DC.	LC		1.3; 6.1
Cistaceae	<i>Helianthemum leptophyllum</i> Dunal	VU	D2	
Cistaceae	<i>Helianthemum syriacum</i> (Jacq.) Dum.Cours. subsp. <i>thibaudii</i> (Pers.) Meikle	DD		
Asteraceae	<i>Helichysum italicum</i> (Roth) G.Don subsp. <i>tyrrhenicum</i> (Bacch., Brullo & Giusso) Herrando, J.M.Blanco, L.Saez & Galbany	LC		1.1; 4.1
Asteraceae	<i>Helichysum pendulum</i> (C.Presl) C.Presl	LC		
Asteraceae	<i>Helichysum stoechas</i> (L.) Moench subsp. <i>barrelieri</i> (Ten.) Nyman	DD		
Poaceae	<i>Helictichloa cincinnata</i> (Ten.) Romero Zarco	LC		1.1; 2.1; 2.3; 4.1; 7.1
Poaceae	<i>Helictotrichon convolutum</i> (C.Presl) Henrard	NT		1.1; 2.1; 2.3; 4.1; 7.1; 7.3
Poaceae	<i>Helictotrichon sedenense</i> (Clarion ex DC.) Holub subsp. <i>sedenense</i>	LC		
Caryophyllaceae	<i>Heliosperma pusillum</i> (Waldst. & Kit.) Rchb. subsp. <i>pubibundum</i> (Hoffmannss. ex Rchb.) Gutermann	NT		7.2
Ranunculaceae	<i>Helleborus lividus</i> Aiton subsp. <i>corsicus</i> (Briq.) P.Fourn.	LC		
Ranunculaceae	<i>Helleborus viridis</i> L. subsp. <i>istriacus</i> (Schiffn.) Cristof. & Zanotti	LC		11.1; 8.1; 9.1.3
Apiaceae	<i>Heracleum austriacum</i> L.	DD		2; 4; 8; 7
Orchidaceae	<i>Hermidium monorchis</i> (L.) R.Br.	EN	B2ab(i,j,i,i,i,i,i,v)	1.1; 1.3; 2.1.2; 4.1; 5.2.1; 7.1; 7.3
Iridaceae	<i>Hermodactylus tuberosus</i> (L.) Mill.	LC		5.2.1; 7.3
Brassicaceae	<i>Hesperis inodora</i> L.	EN	D	1.1, 1.3; 2.2
Fabaceae	<i>Hippocrepis multisiliquosa</i> L.	LC		7; 9
Plantaginaceae	<i>Hippuris vulgaris</i> L.	EN	B2ab(i,j,i,i,i,i,v)	
Asteraceae	<i>Homogyne sylvestris</i> Cass.	LC		
Brassicaceae	<i>Hornathophylla ligustica</i> (Breistr.) Španiel, Al-Shehbaz, D.A.German & Marhold	LC		
Boraginaceae	<i>Hormuzakia aggregata</i> (Lehm.) Guşul.	EN	B1ab(iii,v)+2ab(iii,v)	1.3; 6.1
Primulaceae	<i>Hottonia palustris</i> L.	EN	B2ab(i,j,i,i,i,i,v)	2; 5; 6; 7; 8
Asparagaceae	<i>Hyacinthoides italica</i> (L.) Rothm.	LC		5.2
Araliaceae	<i>Hydrocotyle vulgaris</i> L.	EN	A2c + B2ab(i,j,i,i,i,i,v)	2.1; 7.2; 9.1.2; 9.3
Hymenophyllaceae	<i>Hymenophyllum tunbrigense</i> (L.) Sm.	LC		11; 9
Papaveraceae	<i>Hypericum torulosum</i> A.E.Dahl	EN	B1ab(iii,v)+2ab(iii,v)	1.1; 1.3; 6.1; 7.3
Hypericaceae	<i>Hypericum aegypticum</i> L.	LC		1.3
Hypericaceae	<i>Hypericum annulatum</i> Moris	EN	B1ab(iii,v)+2ab(iii,v)	2.3; 4.1; 7.3; 11.1; 11.2
Hypericaceae	<i>Hypericum corsicum</i> Steud.	CR		1.3; 6.1; 2.3; 4.1
Hypericaceae	<i>Hypericum hircinum</i> L. subsp. <i>hircinum</i>	LC	B1ab(iii,v)	2.2; 2.3; 6.1; 4.1
Hypericaceae	<i>Hypericum pubescens</i> Boiss.	LC		1.1, 1.3
Brassicaceae	<i>Iberis aurosica</i> Chaix subsp. <i>nana</i> (All.) Moreno	LC		7.3
Brassicaceae	<i>Iberis linifolia</i> L. subsp. <i>linifolia</i>	NT		
Brassicaceae	<i>Iberis linifolia</i> L. subsp. <i>stricta</i> (Jord.) P.Fourn.	DD		
Brassicaceae	<i>Ihsanalshehbazia granatensis</i> (Boiss. & Reut.) Tahir Ali & Thines	LC		
Convolvulaceae	<i>Ipomoea stolonifera</i> (Cyr.) J.F.Gmel.	CR	B1ab(iii)+2ab(iii)	1.1; 1.3; 9.3.2
Iridaceae	<i>Iris benacensis</i> A.Kern. ex Stapf	DD		
Iridaceae	<i>Iris cengialti</i> Ambrosi ex A.Kern. subsp. <i>illyrica</i> (Asch. & Graebn.) Poldini	NT		5.2.1; 7.3
Iridaceae	<i>Iris pseudopumila</i> Tineo	LC		1.1, 1.3; 2.1; 4.1; 5.2.1

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Brassicaceae	<i>Isatis praecox</i> Kit. ex Tratt.	DD		
Isoëtaceae	<i>Isoëtes longissima</i> Bory	EN	B2ab(i,ii,iii,iv,v)	1.1; 2.1; 2.3.1; 3.3; 7.2; 8.2; 9.4; 11.2
Isoëtaceae	<i>Isoëtes tiguliana</i> Gennari	EN	B2ab(iii,v)	2.2; 2.3; 6.2; 7.2; 11.2
Cyperaceae	<i>Isolepis fluitans</i> (L.) R.Br.	DD		
Cyperaceae	<i>Isolepis pseudostetacea</i> (Daveau) Gand.	DD		
Asteraceae	<i>Jacobaea insubrica</i> (Chenevard) Galasso & Bartolucci	VU	B1ab(ii,iii)+2ab(ii,iii)	2.3; 6.1; 7.3; 11.1
Asteraceae	<i>Jacobaea maritima</i> (L.) Pelsler & Meijden subsp. <i>scicula</i> N.G.Passal., Peruzzi & Pellegrino	NT		1.1; 1.3
Asteraceae	<i>Jacobaea persoonii</i> (De Not.) Pelsler	LC		
Asteraceae	<i>Jacobaea uniflora</i> (All.) Veldkamp	LC		1.3; 2.3; 6.1
Asteraceae	<i>Jacobaea vulgaris</i> Gaertn. subsp. <i>gotlandica</i> (Neuman) B.Nord.	NT		2.3
Campanulaceae	<i>Jasione laevis</i> Lam. subsp. <i>laevis</i>	DD		
Campanulaceae	<i>Jasione maritima</i> (Duby) Merino	LC		
Campanulaceae	<i>Jasione orbiculata</i> Griseb. ex Velen.	DD		
Juncaceae	<i>Juncus atratus</i> Krock.	CR(PE)		
Juncaceae	<i>Juncus castaneus</i> Sm.	DD		
Juncaceae	<i>Juncus fontanesii</i> J.Gay subsp. <i>pyramidatus</i> (Laharpe) Snogerup	CR	B1ab(iii,v)+2ab(iii,v)	1.3; 6.1; 7.2.3
Juncaceae	<i>Juncus heterophyllus</i> Dufour	EN	B2ab(iii,v)	7.3; 9.3
Juncaceae	<i>Juncus sorrentinai</i> Parl.	DD		7.1.1; 11.2
Juncaceae	<i>Juncus squarrosus</i> L.	CR	B1ab(iii,v)+2ab(iii,v)+D	2; 7
Juncaceae	<i>Juncus thomasii</i> Ten.	EN	B2ab(iii)	2; 7
Cupressaceae	<i>Juniperus thurifera</i> L.	LC		
Iridaceae	<i>Juno planifolia</i> (Mill.) Asch.	EN	B1ab(i,ii,iv,v)+2ab(i,ii,iv,v)	1.3; 4.1; 5.2.1; 6.1; 7.1.3
Asteraceae	<i>Klassea flavescens</i> (L.) Holub subsp. <i>micronata</i> (Desf.) Canto & Rivas Mart.	NT		1.1; 2.1; 2.3; 4.1; 7.2
Caprifoliaceae	<i>Knaulia drymeja</i> Heuff. subsp. <i>tergestina</i> (Beck) Ehrend.	LC		
Caprifoliaceae	<i>Knaulia fleischmannii</i> (Hladnik ex Rchb.) Pacher	CR(PE)		
Caprifoliaceae	<i>Knaulia ressmannii</i> (Pacher) Briq.	LC		
Caprifoliaceae	<i>Knaulia subcanescens</i> Jord.	DD		
Poaceae	<i>Koeleria vallesiana</i> (Honck.) Gaudin subsp. <i>alpicola</i> (Gren. & Godr.) Asch. & Graebn.	DD		
Fabaceae	<i>Laburnum anagyroides</i> Medik. subsp. <i>alschingeri</i> (Vis.) Hayek	CR(PE)		
Lamiaceae	<i>Lamium galeobdolon</i> (L.) L. subsp. <i>galeobdolon</i>	LC		
Lamiaceae	<i>Lamium garganicum</i> L. subsp. <i>corsicum</i> (Godr. & Gren.) Arcang.	LC		2.3; 6.1
Fabaceae	<i>Lathyrus cirrhosus</i> Ser.	DD		
Fabaceae	<i>Lathyrus palustris</i> L.	EN		1; 8
Fabaceae	<i>Lathyrus pratensis</i> L. subsp. <i>lusseri</i> (Heer ex W.D.J.Koch) Soják	LC	B2ab(i,ii,iii,iv,v)	
Asteraceae	<i>Launaea fragilis</i> (Asso) Pau	LC		1.1, 1.3
Asteraceae	<i>Launaea nudicaulis</i> (L.) Hook.f.	CR(PE)		
Lamiaceae	<i>Lavandula multifida</i> L.	EN		4.1; 7.1
Campanulaceae	<i>Legousia falcata</i> (Ten.) Janch.	DD	B1ab(i,ii,iii,v)+2ab(i,ii,iii,v)	
Asteraceae	<i>Leontodon berinii</i> (Bartl.) Roth	NT		
Asteraceae	<i>Leontopodium alpinum</i> Cass.	LC		6.1; 7.1.1; 7.2; 7.3; 9.3
Asteraceae	<i>Leontopodium nivale</i> (Ten.) Hand.-Mazz.	LC		5.2.1; 6.1
Brassicaceae	<i>Lepidium hirtum</i> (L.) Sm. subsp. <i>hirtum</i>	DD		
Asteraceae	<i>Leucanthemum pachyphyllum</i> Marchi & Illum.	LC		
Asteraceae	<i>Leucanthemum platylepis</i> Borbás	LC		
Asteraceae	<i>Leucanthemum subglaucum</i> De Laramb.	DD		7.3

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Asteraceae	<i>Leucanthemum virgatum</i> (Desr.) Clos	LC		
Amaryllidaceae	<i>Leucojum aestivum</i> L. subsp. <i>aestivum</i>	VU	B2ab(i,ii,iii,iv,v)	5.2.1; 7.2; 7.3
Amaryllidaceae	<i>Leucojum aestivum</i> L. subsp. <i>pulchellum</i> (Salisb.) Briq.	VU	B2ab(iii)	2.2; 2.3; 4.1; 11.4
Poaceae	<i>Leucopoa laxa</i> (Host) H.Scholz & Foggi	LC		
Poaceae	<i>Leucopoa pulchella</i> (Schrad.) H.Scholz & Foggi subsp. <i>pulchella</i>	LC		
Poaceae	<i>Leucopoa spectabilis</i> (Jan ex Bertol.) H.Scholz & Foggi subsp. <i>carniolica</i> (Hack.) H.Scholz & Foggi	VU	D2	6.1
Poaceae	<i>Leucopoa spectabilis</i> (Jan ex Bertol.) H.Scholz & Foggi subsp. <i>croatica</i> (A.Kern.) Foggi, Parolo, Gr.Rossi, Ardenghi & Quercioli	DD		
Liliaceae	<i>Lilium camialicium</i> Bernh. ex W.D.J.Koch	NT		5.2.1; 7.3
Iridaceae	<i>Limniris sibirica</i> (L.) Fuss	EN	B2ab(i,ii,iii,iv,v)	1; 2; 7.2; 7.3; 8.2.2; 9.3
Orchidaceae	<i>Limodorum trautmanianum</i> Batt.	EN	B2ab(iii,v)	2; 4; 7; 8
Plumbaginaceae	<i>Limonium avel</i> (De Not.) Brullo & Erben	VU	B2ab(iii)	1.3; 1.2; 6.3; 7.3
Plumbaginaceae	<i>Limonium cordatum</i> (L.) Mill.	VU	B1ab(iii)+2ab(iii)	4; 6; 7; 8; 9
Plumbaginaceae	<i>Limonium dubium</i> (Andrews ex Guss.) Litard.	LC		1.1; 1.3; 6.1; 8.1; 9.4
Plumbaginaceae	<i>Limonium glomeratum</i> (Tausch) Erben	LC		1.3; 6.1; 8.1
Scrophulariaceae	<i>Limosella aquatica</i> L.	EN	B2ab(i,ii,iii,iv,v)	7.2.1; 9.3.1; 11.1
Plantaginaceae	<i>Linaria genistifolia</i> (L.) Mill.	EN	B1ab(iii)	1.1; 1.3
Plantaginaceae	<i>Linaria reflexa</i> (L.) Desf. subsp. <i>lubbockii</i> (Batt.) Brullo	EN	B1ab(iii,v)+2ab(iii,v)+1	1.1; 1.3; 6.1
Plantaginaceae	<i>Linum maritimum</i> L. subsp. <i>ligusticum</i> (Rouy) P.Fourn.	DD		
Linaceae	<i>Littorella uniflora</i> (L.) Asch.	EN	B2ab(iii)	1.3; 4.3; 6.1; 7.2; 9.1
Plantaginaceae	<i>Lobularia libyca</i> (Viv.) Meisn.	LC		1.1; 1.3; 2.1
Brassicaceae	<i>Loeflingia hispanica</i> L.	VU	D2	2.1; 2.3; 4.1
Caryophyllaceae	<i>Logfia lojacoeni</i> (Brullo) C.Brullo & Brullo	NT		1.3; 6.1
Asteraceae	<i>Lolium interruptum</i> (Desf.) Banfi, Galasso, Foggi, Kopecký & Ardenghi subsp. <i>corsicum</i> (Hack.) Banfi, Galasso, Foggi, Kopecký & Ardenghi	CR	A2c + B1ab(i,ii,iii,iv,v)	7.3
Poaceae	<i>Lolium pluriflorum</i> (Schult.) Banfi, Galasso, Foggi, Kopecký & Ardenghi	LC		
Caprifoliaceae	<i>Lomelosia simplex</i> (Desf.) Raf. subsp. <i>simplex</i>	DD		
Asteraceae	<i>Lonas annua</i> (L.) Vines & Druce	LC		1.3; 2.3; 7.1
Fabaceae	<i>Lotus biflorus</i> Desr.	NT		1.1; 1.2; 1.3; 2.1.1; 7.3
Fabaceae	<i>Lotus conjugatus</i> L. subsp. <i>conjugatus</i>	LC		7.3
Fabaceae	<i>Lotus conjugatus</i> L. subsp. <i>requienii</i> (Mauri ex Sanguin.) Greuter	DD		
Fabaceae	<i>Lotus longisiliquosus</i> R.Roem.	LC		2.3
Fabaceae	<i>Lotus peregrinus</i> L.	NT		1.3, 2.1
Juncaceae	<i>Luzula divulgata</i> Kirschner	DD		
Juncaceae	<i>Luzula nutans</i> (Vill.) Duval-Jouve	LC		
Juncaceae	<i>Luzula pedemontana</i> Boiss. & Reut.	LC		
Juncaceae	<i>Luzula pindica</i> (Hausskn.) Chrtek & Krisa	EN		
Juncaceae	<i>Luzula spicata</i> (L.) DC. subsp. <i>italica</i> (Part.) Arcang.	LC		
Primulaceae	<i>Lysimachia arvensis</i> (L.) U.Manns & Anderb. subsp. <i>latifolia</i> (L.) Peruzzi	LC	B1ab(iii,v)+2ab(iii,v)	2.3
Primulaceae	<i>Lysimachia europaea</i> (L.) U.Manns & Anderb.	VU	A2c	5.2; 6.1; 11.1
Primulaceae	<i>Lysimachia monelli</i> (L.) U.Manns & Anderb. subsp. <i>monelli</i>	LC		2.2; 2.3; 3.2; 7.3
Primulaceae	<i>Lysimachia tenella</i> L.	EN	B2ab(i,ii,iii,iv,v)	7.2.8; 7.3; 9.3
Primulaceae	<i>Lysimachia tyrchenia</i> U.Manns & Anderb.	CR	B1ab(iii,v)+2ab(iii,v)	1.2; 1.3; 7.2; 7.3
Lythraceae	<i>Lythrum acutangulum</i> Lag.	DD		
Lythraceae	<i>Lythrum hyssopifolia</i> L.	LC		1.1; 2.1; 4.1; 6; 7.2; 7.3; 8.1; 9.3; 11.1

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Brassicaceae	<i>Malcolmia flexuosa</i> (Sm.) Sm.	CR(PE)		
Brassicaceae	<i>Marcus-kochia littorea</i> (L.) Al-Shehbaz	CR	B2ab(ii,iii,v)+C2a(ii)	1.3; 6.1
Malvaceae	<i>Malva lusitanica</i> (L.) Valdés subsp. <i>lusitanica</i>	EN	B1ab(iii,v)+2ab(iii,v)	2; 7 7.3
Malvaceae	<i>Malva oxyloba</i> Boiss.	DD		
Malvaceae	<i>Malva unguiculata</i> (Desf.) Alef.	CR(PE)		
Asteraceae	<i>Matricaria aurea</i> (Loefl.) Sch.Bip.	NT		1.1; 1.3; 4.1; 6.3
Fabaceae	<i>Medicago lesinsii</i> E.Small	DD		
Fabaceae	<i>Medicago pironae</i> Vis.	NT		
Fabaceae	<i>Medicago soleirolii</i> Duby	DD		7.3
Orobanchaceae	<i>Melampyrum catalaunicum</i> Freyn	LC		
Poaceae	<i>Melica amethystina</i> Pourr.	DD		
Poaceae	<i>Melica minuta</i> L. subsp. <i>minuta</i>	DD		7.1.1; 11.5
Poaceae	<i>Melica minuta</i> L. subsp. <i>latifolia</i> (Coss.) W.Hempel	DD		1; 2.1.1; 7.3
Poaceae	<i>Melica picta</i> K.Koch	LC		1.3; 7.3
Poaceae	<i>Melica transsilvanica</i> Schur subsp. <i>klakovii</i> Tzvelev	LC		7.2; 7.3
Asparagaceae	<i>Melomphis arabica</i> (L.) Raf.	NT		
Lamiaceae	<i>Mentha requienii</i> Benth. subsp. <i>requienii</i>	LC		
Euphorbiaceae	<i>Mercurialis corsica</i> Coss. & Kralik	LC		
Lamiaceae	<i>Micromeria filiformis</i> (Aiton) Benth. subsp. <i>filiformis</i>	VU	B1ab(iii,v)+2ab(iii,v)	1.3; 2.1; 2.2; 2.3; 4.1; 6.1; 7.1; 8.1; 9.3
Lamiaceae	<i>Micromeria marginata</i> (Sm.) Chater	LC		
Caryophyllaceae	<i>Moehringia argenteria</i> Casazza & Minuto	LC		
Caryophyllaceae	<i>Moehringia intermedia</i> (Loisel.) Panizzi	CR	D	7.3
Caryophyllaceae	<i>Moehringia lebrunii</i> Merxm.	LC		
Caryophyllaceae	<i>Moehringia sedoides</i> (Pers.) Ugo Cumino ex Loisel.	LC		
Caryophyllaceae	<i>Moenchia erecta</i> (L.) G.Gaertn., B.Mey. & Scherb. subsp. <i>octandra</i> (Ziz ex Mert. & W.D.J.Koch) Gürke ex Cout.	DD		
Poaceae	<i>Molinierella minuta</i> (L.) Rouy	NT		7.1, 10.3; 1; 2.1.1; 7.3
Brassicaceae	<i>Moricandia longirostris</i> Pomel	LC		7.1, 9.1
Brassicaceae	<i>Morisia monanthos</i> (Viv.) Asch.	LC		2.3; 6.1
Brassicaceae	<i>Murbeckiella pinnatifida</i> (Lam.) Rothm.	LC		1.3; 6.1
Brassicaceae	<i>Murbeckiella zanonii</i> (Ball) Rothm.	LC		
Asparagaceae	<i>Muscari commutatum</i> Guss.	LC		2.1; 6.1
Asparagaceae	<i>Muscari parviflorum</i> Desf.	EN	B1ab(i,i,iii,iv,v)	1.1; 1.3; 2.1; 2.3; 4.1
Boraginaceae	<i>Myosotis soleirolii</i> Godr.	VU	B1ab(iii,v)+2ab(iii,v)	2.3; 7.2; 7.3
Boraginaceae	<i>Myosotis speluncicola</i> (Boiss.) Rouy	LC		
Boraginaceae	<i>Myosotis sylvatica</i> Hoffm. subsp. <i>cyanea</i> (Hayek) Vestergren	DD		
Plumbaginaceae	<i>Myriolimon ferulaceum</i> (L.) Lledó, Erben & M.B.Crespo	VU		3.2
Asteraceae	<i>Nananthea perpusilla</i> (Loisel.) DC.	EN	D2	1.3; 6.1; 7; 8.1; 11.1
Amaryllidaceae	<i>Narcissus miniatus</i> Donn.-Morg., Koop. & Zonn.	LC		1.1; 1.3; 2.1.1; 5.2.1.4.1; 7.3
Orchidaceae	<i>Neotinea lactea</i> (Poir.) R.M.Bateman, Pridgeon & M.W.Chase	NT		1.1, 1.3; 2.1; 2.2; 2.3; 4.1; 5.3; 7.1; 7.3; 10.1
Lamiaceae	<i>Nepeta apulejii</i> Ucria	LC		1.1, 1.3, 7.1
Lamiaceae	<i>Nepeta italica</i> L.	CR(PE)		
Lamiaceae	<i>Nepeta tuberosa</i> L. subsp. <i>tuberosa</i>	DD		
Ranunculaceae	<i>Nigella papillosa</i> G.López subsp. <i>atlantica</i> (Murb.) Amich ex G.López	DD		
Orchidaceae	<i>Nigritella corneliana</i> (Beauverd) Götz & H.R.Reinhard	LC		5.2
Brassicaceae	<i>Nocca brevistyla</i> (DC.) Steud.	LC		2.3
Brassicaceae	<i>Nocca sylvia</i> (Gaudin) F.K.Mey.	LC		1.3; 6.1
Brassicaceae	<i>Noccea virens</i> (Jord.) F.K.Mey.	LC		
Boraginaceae	<i>Nonea echioides</i> (L.) Roem. & Schult.	CR(PE)		
Boraginaceae	<i>Nonea vesicaria</i> (L.) Rchb.	LC		1.1, 1.3, 7.1

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Orobanchaceae	<i>Odonites corsicus</i> (Loisel.) G.Don	VU		
Orobanchaceae	<i>Odonites vernus</i> (Bellardi) Dumort. subsp. <i>siculus</i> (Guss.) P.D.Sell	LC	D2	2.3; 6.1 7.1; 10.1
Orobanchaceae	<i>Odonites viscosus</i> (L.) Clairv. subsp. <i>viscosus</i>	DD		
Apiaceae	<i>Oenanthe fistulosa</i> L.	NT		
Asparagaceae	<i>Oncostema ceruleum</i> (Raf.) Speta	LC		2.1, 3.3
Asparagaceae	<i>Oncostema elongatum</i> (Parl.) Speta	DD		
Fabaceae	<i>Ononis dentata</i> Lowe	LC		1.1, 1.3 2.1
Fabaceae	<i>Ononis hispida</i> Desf. subsp. <i>hispida</i>	DD		
Fabaceae	<i>Ononis oligophylla</i> Ten.	DD		
Fabaceae	<i>Ononis pendula</i> Desf. subsp. <i>boissieri</i> (Širi.) Devesa	LC		1.1; 1.3; 4.1
Fabaceae	<i>Ononis pubescens</i> L.	CR	B1ab(iii,v)+2ab(iii,v)	1.1
Fabaceae	<i>Ononis serrata</i> Forssk.	VU	D2	1.3
Asteraceae	<i>Onopordum illyricum</i> L. subsp. <i>cardunculus</i> (Boiss.) Avènes	DD		
Asteraceae	<i>Onopordum macracanthum</i> Schousb.	LC		
Boraginaceae	<i>Onosma echioides</i> (L.) L. subsp. <i>dalmatica</i> (Scheele) Peruzzi & N.G.Passal.	NT		1.1; 2.1; 7.3
Boraginaceae	<i>Onosma fastigiata</i> (Braun-Blanq.) Lacaita subsp. <i>fastigiata</i>	NT		7.1.1; 7.3
Boraginaceae	<i>Onosma pseudoarenaria</i> Schur subsp. <i>fallax</i> (Borbás) Rauschert	NT		7.3
Orchidaceae	<i>Ophrys annae</i> Devillers-Tersch. & Devillers	LC		
Orchidaceae	<i>Ophrys bertolonii</i> Moretti subsp. <i>bertolonii</i>	LC		1.1; 1.1.4; 1.3; 6.1; 1.3; 2.1; 2.3; 4.1; 7.1; 7.3
Orchidaceae	<i>Ophrys corsica</i> Soleirol ex G.Foelsche & W.Foelsche	LC		
Orchidaceae	<i>Ophrys delforgei</i> Devillers-Tersch. & Devillers	LC		1.1; 1.3; 2.1; 2.3; 4.1; 7.1
Orchidaceae	<i>Ophrys exaltata</i> Ten. subsp. <i>splendida</i> (Gözl & H.R.Reinhard) Soca	LC		1.1; 1.3; 2.1; 2.3; 4.1; 7.1
Orchidaceae	<i>Ophrys lutea</i> Cav.	LC		
Orchidaceae	<i>Ophrys mirabilis</i> Geniez & Melki	VU	B1ab(iii)	1.1; 1.3; 2.1; 2.3; 4.1; 7.1
Orchidaceae	<i>Ophrys pallida</i> Raf.	VU	B1ab(iii)	1.1; 1.3; 2.1; 2.3; 4.1; 7.1
Orchidaceae	<i>Ophrys scolopax</i> Cav.	LC		
Orchidaceae	<i>Ophrys sicula</i> Tineo	LC		
Orchidaceae	<i>Ophrys speculum</i> Link	LC		1.1; 1.3; 2.1; 2.3; 3.2; 4.1; 7.1
Orchidaceae	<i>Ophrys tenthredinifera</i> Willd. subsp. <i>aprilia</i> (Devillers & Devillers-Tersch.) Kreutz	VU	B1ab(iii,v)	1.1; 1.3; 2.1; 2.3; 4.1; 5.2; 6.1; 7.1; 9.2 2.3; 5.2; 6.1; 7.3
Orchidaceae	<i>Ophrys tenthredinifera</i> Willd. subsp. <i>neglecta</i> (Part.) E.G.Camus	LC		
Orchidaceae	<i>Orchis italica</i> Poir.	LC		
Orchidaceae	<i>Orchis mascula</i> (L.) L. subsp. <i>ichnusae</i> Corrias	EN	B2ab(iii,v)	1.1; 1.3; 2.1; 2.3; 4.1; 7.1 2.2; 2.3; 5.2; 6.1; 7.3 2.3; 7.3
Orchidaceae	<i>Orchis pauciflora</i> Ten.	LC		
Orchidaceae	<i>Orchis quadripunctata</i> Cirillo ex Ten.	LC		
Poaceae	<i>Oreochloa sesterioides</i> (All.) K.Richt.	LC		
Lamiaceae	<i>Origanum onites</i> L.	EN		
Apiaceae	<i>Oriya daucoriaya</i> Murb.	LC	B1ab(iii,v)+2ab(iii,v)	1.1; 7.1
Asparagaceae	<i>Ornithogalum collinum</i> Guss. subsp. <i>collinum</i>	LC		1.1; 1.3; 2.1; 2.3; 4.1; 7.1
Asparagaceae	<i>Ornithogalum corsicum</i> Jord. & Fourr.	LC		2.2; 2.3
Asparagaceae	<i>Ornithogalum gussonei</i> Ten.	LC		1.1; 4.1; 7.1; 7.3
Orobanchaceae	<i>Orbanche alsatica</i> Kirschl.	VU	D2	4.1; 5.2; 6.1; 7.1; 11.1
Orobanchaceae	<i>Orbanche cumana</i> Wallr.	DD		
Orobanchaceae	<i>Orbanche foetida</i> Poir.	DD		
Orobanchaceae	<i>Orbanche rigens</i> Loisel.	LC		

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Osmundaceae	<i>Osmunda regalis</i> L.	NT		2; 6; 7; 8; 9; 11
Paeoniaceae	<i>Paeonia morisii</i> Cesca, Bernardo & N.G.Passal.	LC		2.2; 5.2.1; 6.1
Paeoniaceae	<i>Paeonia officinalis</i> L. subsp. <i>arietina</i> (G.Anderson) N.G.Passal.	LC		7.3
Paeoniaceae	<i>Paeonia officinalis</i> L. subsp. <i>huthii</i> Soldano	EN	B1ab(iii)+2ab(iii)	5.2.1; 8.2
Amaryllidaceae	<i>Pancratium illyricum</i> L.	NT		8.2.2; 7.3
Poaceae	<i>Parapholis marginata</i> Runemark	LC		3.2
Urticaceae	<i>Parietaria cretica</i> L.	LC		7.1, 8.1
Caryophyllaceae	<i>Paronychia arabica</i> (L.) DC. subsp. <i>longiseta</i> Batt.	VU	D2	1.1, 1.3
Caryophyllaceae	<i>Paronychia kapela</i> (Hacq.) A.Kern. subsp. <i>serpyllifolia</i> (Chaix) Graebn.	LC		
Poaceae	<i>Parvotriquetum myrianthum</i> (Bertol.) Chrtrek	EN	B1ab(iii)c(iii,iv)+2ab(iii)c(iii,iv)	2.1; 9.3.3
Apiaceae	<i>Pastinaca kochii</i> Duby	DD		
Amaranthaceae	<i>Patellifolia procumbens</i> (C.Sm.) A.J.Scott	NT		1.1, 1.3
Poaceae	<i>Patzkea coerulescens</i> (Desf.) H.Scholz	LC		
Orobanchaceae	<i>Pedicularis elongata</i> A.Kern. subsp. <i>julica</i> (E.Mayer) Hartl	LC		7.3
Asteraceae	<i>Pentanema helveticum</i> (Weber) D.Gut.Larr., Santos-Vicente, Anderb., E.Rico & M.M.Mart.Ort.	CR	B1ab(v)+2ab(v)	7.3
Apocynaceae	<i>Periploca angustifolia</i> Labill.	LC		1.1; 1.3; 4.1
Caryophyllaceae	<i>Petrorhagia illyrica</i> (Ard.) P.W.Ball & Heywood subsp. <i>haynaldiana</i> (F.N.Williams) P.W.Ball & Heywood	LC		7.1
Crassulaceae	<i>Petrosedum amplexicaule</i> (DC.) Velayos	DD		
Apiaceae	<i>Peucedanum coriaceum</i> Rchb.	CR(PE)		
Asteraceae	<i>Phagnalon rupestre</i> (L.) DC. subsp. <i>illyricum</i> (H.Lindb.) Ginzb.	LC		1.1, 7.1
Poaceae	<i>Phalaris elongata</i> Braun-Blanq.	NT		1.1
Poaceae	<i>Phalaris truncata</i> Guss. ex Bertol.	NT		1.1; 2.1.1; 4.1; 7.1; 7.3
Poaceae	<i>Phalaris arundinacea</i> L. subsp. <i>rotgesii</i> (Husn.) Kerguelén	DD		
Poaceae	<i>Phleum echinatum</i> Host	LC		1.1, 7.1
Poaceae	<i>Phleum exaratum</i> Hochst. ex Griseb. subsp. <i>exaratum</i>	DD		
Poaceae	<i>Phragmites australis</i> (Cav.) Trin. ex Steud. subsp. <i>altissimus</i> (Benth.) Clayton	NT		1.1; 2.1; 2.2; 4.1, 6.3; 7.2; 9.2; 11.1
Campanulaceae	<i>Phyteuma cordatum</i> Balb.	VU	D1	10.3
Campanulaceae	<i>Phyteuma hedraithifolium</i> Rich.Schulz	LC		6.1; 11.1
Campanulaceae	<i>Phyteuma humile</i> Schleich. ex Gaudin	LC		
Pinaceae	<i>Picea obovata</i> Ledeb.	DD		
Asteraceae	<i>Picris hispida</i> (Bartl.) W.D.J.Koch	CR(PE)		
Marsileaceae	<i>Pilularia globulifera</i> L.	CR(PE)		
Lentibulariaceae	<i>Pinguicula hirtiflora</i> Ten.	EN	B2ab(i,i,iii,iv,v)	4; 2; 6; 7; 9; 10
Lentibulariaceae	<i>Pinguicula reichenbachiana</i> Schindl.	EN	D	4; 7
Pinaceae	<i>Pinus nigra</i> J.F.Arnold subsp. <i>laricio</i> Palib. ex Maire	LC		5.3; 7.1; 10.3
Asteraceae	<i>Plagiopus flosculosus</i> (L.) Alavi & Heywood	EN	B2ab(iii,v)	1.1; 2.1; 4.1; 7; 8.1
Plantaginaceae	<i>Plantago amplexicaulis</i> Cav. subsp. <i>amplexicaulis</i>	EN	B1ab(iii,v)+2ab(iii,v)	1.3; 4.1; 7.1; 7.3
Plantaginaceae	<i>Plantago cornutii</i> Gouan	EN	B2ab(i,ii,iii,iv,v)	1.1; 1.2; 7.2
Plantaginaceae	<i>Plantago algeriensis</i> Batt. & Trab.	EN		1.3; 2.1; 2.3; 4.1; 9.3.2
Orchidaceae	<i>Poa balbisii</i> Parl.	LC	B2ab(iii,v)	1.3; 2.2; 2.3; 5.2; 7.3
Poaceae	<i>Poa bivonae</i> Parl. ex Guss.	LC		2.2; 2.3.1
Poaceae	<i>Poa perfligularis</i> H.Scholz	LC		2.3; 7.1
Poaceae	<i>Poa remota</i> Forselles	LC		7.3
Poaceae	<i>Poa timoleontis</i> Heldr. ex Boiss.	NT		7.2
Poaceae		DD		

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Polygalaceae	<i>Polygala exilis</i> DC.	CR	B2ab(iii)c(iv)	6
Polygalaceae	<i>Polygala saxatilis</i> Desf.	VU	D2	2.3; 6.1
Polygonaceae	<i>Polygonum robertii</i> Loisel.	CR	A1c	1; 6; 7; 8
Polygonaceae	<i>Polygonum scoparium</i> Req. ex Loisel.	EN	B2ab(iii,v)	2.3; 7.3
Potamogetonaceae	<i>Potamogeton obtusifolius</i> Mert. & W.D.J.Koch	NT		7.2
Potamogetonaceae	<i>Potamogeton praelongus</i> Wulfen	EN	B1ab(iii)+2ab(iii)	7.3; 8; 9
Rosaceae	<i>Potentilla anglica</i> Laichard.	DD		
Rosaceae	<i>Potentilla clusiana</i> Jacq.	CR(PE)		
Rosaceae	<i>Potentilla crassinervia</i> Viv.	NT		2.3; 6.1
Rosaceae	<i>Potentilla heptaphylla</i> L. subsp. <i>australis</i> (Nyman) Gams	VU	B1ab(iii,v)+2ab(iii,v)	7.3
Rosaceae	<i>Potentilla pensylvanica</i> L.	EN	D	1.3; 4.1; 5.2
Rosaceae	<i>Potentilla saxifraga</i> Ardoino ex De Not.	NT		7.1.1
Rosaceae	<i>Potentilla tommasiniana</i> F.W.Schultz	VU	B1ab(iii,v)+2ab(iii,v)	7.3
Rosaceae	<i>Potentilla valderia</i> L.	LC		
Rosaceae	<i>Poterium rupiculum</i> Boiss. & Reut.	LC		
Rosaceae	<i>Poterium spinosum</i> L.	EN	A2c + B2ab(i,i,iii,iv)	1.3; 6.1
Primulaceae	<i>Prangos trifida</i> Hermst. & Heyn	DD		
Primulaceae	<i>Primula allionii</i> Loisel.	LC		5.2
Primulaceae	<i>Primula daonensis</i> (Leyb.) Leyb.	LC		4.1; 6.1; 10.3; 11.1
Primulaceae	<i>Primula integrifolia</i> L.	NT		2.3.1; 4.1; 10.3; 11.1
Primulaceae	<i>Primula marginata</i> Curtis	LC		
Primulaceae	<i>Primula wulfeniana</i> Schott subsp. <i>wulfeniana</i>	LC		1.3; 6.1; 11.1
Asparagaceae	<i>Prospero corsicum</i> (Boull.) J.-M.Tison	LC		7.3
Asparagaceae	<i>Prospero elisae</i> Speta	NT		1.1; 1.3; 2.1: 4.1
Asparagaceae	<i>Prospero obtusifolium</i> (Poir.) Speta subsp. <i>intermedium</i> (Guss.) Soldano & F.Conti	NT		
Lamiaceae	<i>Prunella hyssopifolia</i> L.	LC		5.2.1
Rosaceae	<i>Prunus brigantina</i> Vill.	LC		5.3
Rosaceae	<i>Prunus webbii</i> (Spach) Vierh.	VU	B2ab(iii)	2.3; 4.1; 7.1.3; 7.3
Ranunculaceae	<i>Ranunculus batrachioides</i> Pomel	DD		7
Ranunculaceae	<i>Ranunculus baudotii</i> Godr.	NT		2.1; 2.3; 6.1; 7.2; 7.3; 11.2; 11.4
Ranunculaceae	<i>Ranunculus cordiger</i> Viv. subsp. <i>cordiger</i>	EN	B2ab(iii,v)	2.3; 7.2
Ranunculaceae	<i>Ranunculus cordiger</i> Viv. subsp. <i>diffusus</i> (Moris) Arrigoni	EN	B2ab(iii,v)	2.3; 7.2
Ranunculaceae	<i>Ranunculus ophioglossifolius</i> Vill.	VU	B2ab(i,i,iii,iv,v)	2.1.2; 2.3.1; 4.1.6; 7.2; 9.3.1
Ranunculaceae	<i>Ranunculus pygmaeus</i> Wahlenb.	LC		7.3
Ranunculaceae	<i>Ranunculus revelieri</i> Boreau	EN	B2ab(iii,v)	7.2; 7.3
Ranunculaceae	<i>Ranunculus serbicus</i> Vis.	NT		2.1.3; 6.1; 7.2.3
Tamaricaceae	<i>Reaumuria vermiculata</i> L.	CR	B2ab(iii,v)	6; 7
Asteraceae	<i>Reichardia tingitana</i> (L.) Roth	LC		1.1, 1.3, 9.4
Rhamnaceae	<i>Rhamnus intermedia</i> Steud. & Hochst.	VU	D1 + D2	7.3
Rhamnaceae	<i>Rhamnus lycioides</i> L. subsp. <i>oleoides</i> (L.) Jahand. & Maire	EN	B2ab(iii,v)	1.1; 1.3; 2.3; 4.1; 6.2; 7.1; 7.3; 11.2
Asteraceae	<i>Rhaponticum bicknellii</i> (Briq.) Banfi, Galasso & Soldano	NT		2.3; 7.3
Orobanchaceae	<i>Rhinanthus antiquus</i> (Sterneck) Schinz & Thell.	DD		
Orobanchaceae	<i>Rhinanthus pampaninii</i> Chabert subsp. <i>pampaninii</i>	NT		7.3
Orobanchaceae	<i>Rhinanthus pampaninii</i> Chabert subsp. <i>simplex</i> Zirnich & Cohs	DD		
Orobanchaceae	<i>Rhinanthus songeonii</i> Chabert	LC		1.1, 1.3, 7.1
Anacardiaceae	<i>Rhus pentaphylla</i> (Jacq.) Desf.	LC		1.1, 1.3, 7.1
Cyperaceae	<i>Rhynchospora alba</i> (L.) Vahl	EN	B2ab(i,i,iii,iv,v)	3.2; 8.1.2; 7.3; 11.1
Cyperaceae	<i>Rhynchospora fusca</i> (L.) W.T.Aiton	EN	B2ab(i,i,iii,iv,v)	1; 7.2; 7.2.7; 7.3; 11.1

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Grossulariaceae	<i>Ribes uva-crispa</i> L. subsp. <i>australeuropeum</i> Bormm.	LC		
Asteraceae	<i>Robertia taraxacoides</i> (Loisel.) DC.	LC		1.1; 1.3; 2.3.1; 4.1; 10.1
Iridaceae	<i>Romulea ligustica</i> Parl.	NT		2; 3; 6; 7; 8
Iridaceae	<i>Romulea ramiflora</i> Ten. subsp. <i>ramiflora</i>	LC		1.3; 2.3; 4.1; 7.3
Iridaceae	<i>Romulea requienii</i> Parl.	LC		
Iridaceae	<i>Romulea revelierei</i> Jord. & Fourr.	DD		1.1, 1.3
Iridaceae	<i>Romulea varicolor</i> Mifsud	DD		
Rosaceae	<i>Rosa pseudocabriuscula</i> (R.Keller) Henker & G.Schulze	DD		
Rosaceae	<i>Rosa rhaetica</i> Gremli	DD		
Rosaceae	<i>Rosa sherardii</i> Davies	NT		
Rosaceae	<i>Rosa stylosa</i> Desv.	CR	D	7
Rosaceae	<i>Rosa uriensis</i> Lagger & Puget ex Cottet	DD		2.1; 4.1; 7.2; 7.3
Poaceae	<i>Rostraria hispida</i> (Savi) Dogan	LC		1.3; 6.1; 2.3; 4.1; 7.2; 9.1; 11.2
Rubiaceae	<i>Ruppia spiralis</i> L. ex Dumort.	NT		
Caryophyllaceae	<i>Sagina pillifera</i> (DC.) Fenzl	LC		
Caryophyllaceae	<i>Sagina revelierei</i> Jord. & Fourr.	LC		
Alismataceae	<i>Sagittaria sagittifolia</i> L.	EN		
Salicaceae	<i>Salix atrocinerea</i> Brot. subsp. <i>atrocinerea</i>	NT	B2ab(i,ii,iii,iv,v)	2; 7; 9
Salicaceae	<i>Salix aurita</i> L.	CR	D	7.2; 7.1; 2.2
Salicaceae	<i>Salix hegetschweileri</i> Heer	NT		7.2; 12
Salicaceae	<i>Salix laggeri</i> Wimm.	LC		7.2
Salicaceae	<i>Salix pentandra</i> L.	EN		
Amaranthaceae	<i>Salsola oppositifolia</i> Desf.	EN	B2ab(iii,v)	6
Lamiaceae	<i>Salvia aethiopsis</i> L.	EN	B1ab(iii,v)+2ab(iii,v)	6; 7
Primulaceae	<i>Samolus valerandi</i> L.	LC		2.1; 2.3; 6
Asteraceae	<i>Santolina corsica</i> Jord. & Fourr.	LC		1.3; 1.2; 2; 4; 6.1; 7.2.2; 7.3; 8.2; 9.1
Caryophyllaceae	<i>Saponaria calabrica</i> Guss.	VU	B1ab(iii)	2.3
Caryophyllaceae	<i>Saponaria lutea</i> L.	LC		4.1; 7.3
Caryophyllaceae	<i>Saponaria ocyroides</i> L. subsp. <i>alsinoides</i> (Viv.) Arcang.	LC		1.3; 2.3; 6.1
Caryophyllaceae	<i>Saponaria pumila</i> Janch.	LC		
Caryophyllaceae	<i>Saponaria sicula</i> Raf.	LC		
Asteraceae	<i>Saussurea alpina</i> (L.) DC. subsp. <i>depressa</i> (Gren.) Nyman	EN	D	6.1
Asteraceae	<i>Saussurea pygmaea</i> (Jacq.) Spreng.	LC		11.1
Saxifragaceae	<i>Saxifraga cochlearis</i> Rchb.	LC		6.1
Saxifragaceae	<i>Saxifraga corsica</i> (Ser. ex Duby) Gren. & Godr. subsp. <i>corsica</i>	LC		5.2.1
Saxifragaceae	<i>Saxifraga exarata</i> Vill. subsp. <i>carniolica</i> (Huter) T.Wraber	NT		6.1
Saxifragaceae	<i>Saxifraga glabella</i> Bertol.	DD		
Saxifragaceae	<i>Saxifraga pedemontana</i> All. subsp. <i>cervicornis</i> (Viv.) Engl.	LC		6.1
Saxifragaceae	<i>Saxifraga pedemontana</i> All. subsp. <i>pedemontana</i>	LC		
Saxifragaceae	<i>Saxifraga tenella</i> Wulfen	LC		6.1
Caprifoliaceae	<i>Scabiosa mollissima</i> Viv.	LC		
Caprifoliaceae	<i>Scabiosa silenifolia</i> Waldst. & Kit.	LC		
Caprifoliaceae	<i>Scabiosa taygetea</i> Boiss. & Heldr. subsp. <i>garganica</i> (Porta & Rigo) Hayek	NT		1.1; 2.3; 4.1
Apiaceae	<i>Scandix australis</i> L. subsp. <i>grandiflora</i> (L.) Thell.	CR(PE)		
Scheuchzeriaceae	<i>Scheuchzeria palustris</i> L.	EN	B2ab(i,ii,iii,iv,v)	7.2; 7.3; 9.3
Cyperaceae	<i>Scirpus radicans</i> Schkuhr	EN	B1ab(iii,v)+2ab(iii,v)	7.2; 8.1; 9.1; 9.3
Caryophyllaceae	<i>Scleranthus perennis</i> L. subsp. <i>dichotomus</i> (Schur) Nyman	DD		
Solanaceae	<i>Scopolia carniolica</i> Jacq.	EN	B1ab(iii,v)+2ab(iii,v)	5.3; 7.2; 8.2;

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Asteraceae	<i>Scorzonera hispanica</i> L. subsp. <i>hispanica</i>	LC		
Asteraceae	<i>Scorzonera undulata</i> Vahl subsp. <i>deliciosa</i> (Guss.) Maire	LC		1.1, 1.3, 7.1
Scrophulariaceae	<i>Scrophularia frutescens</i> L.	VU	D2	1.1; 1.3; 4.1
Scrophulariaceae	<i>Scrophularia lucida</i> L.	LC		5.2.2; 7
Scrophulariaceae	<i>Scrophularia oblongifolia</i> Loisel.	LC		2.3; 7.3
Scrophulariaceae	<i>Scrophularia ramosissima</i> Loisel.	NT		1.3; 6.1
Scrophulariaceae	<i>Scrophularia trifoliata</i> L.	NT		2.3; 8.2.2
Lamiaceae	<i>Scutellaria minor</i> Huds.	EN	B1ab(iii,v)+2ab(iii,v)	6.1; 7.2
Crassulaceae	<i>Sedum aetnense</i> Tineo	LC		10.1
Crassulaceae	<i>Sedum brevifolium</i> DC.	NT		
Crassulaceae	<i>Sedum caeruleum</i> L.	LC		3.2
Crassulaceae	<i>Sedum fragrans</i> 't Hart	NT		7.2
Crassulaceae	<i>Sedum glandulosum</i> Moris	LC		2.3; 6.1
Crassulaceae	<i>Sedum gypsicola</i> Boiss. & Reut.	NT		3.3
Crassulaceae	<i>Sempervivum glaucum</i> Ten.	DD		
Crassulaceae	<i>Sempervivum grandiflorum</i> Haw.	DD		
Asteraceae	<i>Senecio fontanicola</i> Grulich & Hodálová	LC	B1ab(iii,v)+2ab(iii,v)	7.2; 9.3
Asteraceae	<i>Senecio leucanthemifolius</i> Poir. subsp. <i>leucanthemifolius</i>	EN		
Asteraceae	<i>Senecio petraeus</i> Boiss. & Reut.	DD		
Asteraceae	<i>Senecio scopoli</i> Hoppe & Hornsch. subsp. <i>scopoli</i>	NT		7.3
Asteraceae	<i>Senecio squalidus</i> L. subsp. <i>aurasicus</i> (Batt.) C.Alexander	DD		
Asteraceae	<i>Senecio transiens</i> (Rouy) Jeanm.	NT		1.3; 6.1
Orchidaceae	<i>Serapias bergonii</i> E.G.Camus	LC		1.1; 1.3; 2.1; 2.3; 4.1; 7.1
Orchidaceae	<i>Serapias lingua</i> L.	LC		1.1; 1.3; 2.1; 2.3; 4.1; 6.1; 7.1; 7.3
Orchidaceae	<i>Serapias neglecta</i> De Not.	LC		1.1; 1.3; 4.1; 7.1; 7.3; 8.2.2
Orchidaceae	<i>Serapias nurrica</i> Corrias subsp. <i>nurrica</i>	EN	B2ab(iii,v)	2.3.1; 5.2; 7.1.1; 7.3
Orchidaceae	<i>Serapias politisii</i> Renz	LC		1.3; 2.1; 6.1; 7
Orchidaceae	<i>Serapias strictiflora</i> Welw. ex Veiga subsp. <i>gregaria</i> (Godf.) Kreutz	NT		7.3; 8.2.2
Apiaceae	<i>Sesamoides spathulifolia</i> (Revelière ex Boreau) Rothm.	LC		
Apiaceae	<i>Seseli galloprovinciale</i> Reduron	DD		
Apiaceae	<i>Seseli praecox</i> (Gamsians) Gamsians	LC		6.1; 10.3
Poaceae	<i>Sesleria argentea</i> (Savi) Savi	LC		
Poaceae	<i>Sesleria autumnalis</i> (Scop.) F.W.Schultz	LC		
Poaceae	<i>Sesleria caerulea</i> (L.) Ard. subsp. <i>angustifolia</i> (Hack. & Beck) Jogán	DD		
Poaceae	<i>Sesleria insularis</i> Sommier subsp. <i>insularis</i>	LC		
Poaceae	<i>Sesleria juncifolia</i> Wulfen ex Suffren subsp. <i>juncifolia</i>	LC		
Poaceae	<i>Sesleria kalnikensis</i> Jáv.	NT		7.3
Poaceae	<i>Sesleria uliginosa</i> Opiz	LC		
Poaceae	<i>Sesleriella leucocephala</i> (DC.) Deyl	NT		
Caryophyllaceae	<i>Silene argyria</i> Vals.	NT		1; 2.1; 7.2; 7.3; 9.3.1; 9.3.3; 11.1; 6.1
Caryophyllaceae	<i>Silene badaroi</i> Breistr.	EN		1.3; 4.1; 6.1
Caryophyllaceae	<i>Silene campanula</i> Pers.	LC		4; 6; 7; 8
Caryophyllaceae	<i>Silene cordifolia</i> All.	LC		
Caryophyllaceae	<i>Silene fruticosa</i> L.	LC	B2ab(iii,v)	
Caryophyllaceae	<i>Silene linicola</i> C.C.Gmel.	CR(PE)		3.2, 7.1
Caryophyllaceae	<i>Silene nocturna</i> L. subsp. <i>boullui</i> (Jord. ex Rouy & Foucaud) Gamsians	NT		
Caryophyllaceae	<i>Silene nodulosa</i> Viv.	LC		
Caryophyllaceae	<i>Silene portensis</i> L.	CR(PE)		
Caryophyllaceae	<i>Silene succulenta</i> Forssk. subsp. <i>corsica</i> (DC.) Nyman	EN	B2ab(iii,v)	1.3; 6.1; 8.2.2
Caryophyllaceae	<i>Silene tenuiflora</i> Guss.	NT		1.1; 2.1; 2.3; 4.1; 7.3

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Caryophyllaceae	<i>Silene velutinoides</i> Pomel	VU		
Brassicaceae	<i>Sinapis alba</i> L. subsp. <i>mairei</i> (H.Lindb.) Maire	LC	D2	2.3; 6.1; 10.3 1.1; 2.1; 2.3; 4.1
Campanulaceae	<i>Solenopsis corsica</i> (Meikle) M.B.Crespo, Serra & Juan	DD		
Asteraceae	<i>Sonchus palustris</i> L.	RE		
Sparangiaceae	<i>Sparanium hyperboreum</i> Laest. ex Beurl.	EN	B2ab(iii)	7.2; 11.2
Caryophyllaceae	<i>Spergularia macrorhiza</i> (Req. ex Loisel.) Heynh.	EN	B1ab(iii,v)+2ab(iii,v)	1.3; 6.1; 8.1
Caryophyllaceae	<i>Spergularia madoniaca</i> Lojac.	CR	B1ab(iii,v)+2ab(iii,v)	11.2
Rosaceae	<i>Spiraea chamaedryfolia</i> L.	DD		
Rosaceae	<i>Spiraea decumbens</i> W.D.J.Koch subsp. <i>decumbens</i>	LC		
Poaceae	<i>Sporobolus maritimus</i> (Curtis) P.M.Peterson & Saarela	EN	B2ab(iii,v)	1.1; 7.2; 6.3; 8.1; 9.3
Lamiaceae	<i>Stachys corsica</i> Pers.	LC		
Lamiaceae	<i>Stachys glutinosa</i> L.	LC		
Lamiaceae	<i>Stachys rossii</i> (Peris, Stübing, Jury & Rejdali) Bartolucci, Peruzzi & Soldano	DD		
Lamiaceae	<i>Stachys salisii</i> Jord. & Fourr.	NT		
Ranunculaceae	<i>Staphisagria requienii</i> (DC.) Spach subsp. <i>picta</i> (Willd.) Peruzzi	LC		1.3; 7.3
Caryophyllaceae	<i>Stellaria longifolia</i> Willd.	LC		
Poaceae	<i>Stipa barbata</i> Desf. subsp. <i>barbata</i>	LC		1.1; 1.3; 2.1; 2.3; 4.1; 7.1
Poaceae	<i>Stipa juncea</i> L.	LC		
Poaceae	<i>Stipa letourneuxii</i> Trabut subsp. <i>letourneuxii</i>	DD		
Hydrocharitaceae	<i>Stratiotes aloides</i> L.	EW		
Asteraceae	<i>Tanacetum audibertii</i> (Req.) DC.	EN	B1ab(iii,v)+2ab(iii,v)	2.2; 2.3; 6.1
Asteraceae	<i>Tephrosia balbisiana</i> (DC.) Holub	EN		
Asteraceae	<i>Tephrosia longifolia</i> (Jacq.) Griseb. & Schenk subsp. <i>longifolia</i>	LC		
Asteraceae	<i>Tephrosia longifolia</i> (Jacq.) Griseb. & Schenk subsp. <i>pseudocrispa</i> (Fion) Greuter	LC		
Lamiaceae	<i>Teucrium chamaedrys</i> L. subsp. <i>pectinatum</i> Rech.f.	DD		
Lamiaceae	<i>Teucrium creticum</i> L.	CR(PE)		
Lamiaceae	<i>Teucrium lucidum</i> L.	LC		
Lamiaceae	<i>Teucrium massiliense</i> L.	LC		2.3; 5.2
Thelypteridaceae	<i>Thelypteris palustris</i> Schott	VU	B2ab(i,ii,iii,iv,v)	7.2; 7.3; 8.1; 8.2; 9.1; 9.2; 9.3
Santalaceae	<i>Thesium pyrenaicum</i> Pourr. subsp. <i>grandiflorum</i> (DC.) Hendrych	DD		
Poaceae	<i>Thinopyrum acutum</i> (DC.) Banfi	LC		1.1; 7.3
Poaceae	<i>Thinopyrum flaccidifolium</i> (Boiss. & Heldr.) Moustakas	NT		1.3, 2.1; 4.1
Lamiaceae	<i>Thymra capitata</i> (L.) Cav.	NT		2.1.2; 3.2; 4.1; 7.1; 7.3; 9.3.2; 10.3; 11.4
Thymelaeaceae	<i>Thymelaea dioica</i> (Gouan) All.	EN	D	10.3; 11.1
Lamiaceae	<i>Thymus illyricus</i> Romiger	DD		7.3
Lamiaceae	<i>Thymus zygiformis</i> Heinr.Braun	DD		1.1; 4.1
Malvaceae	<i>Tilia platyphyllos</i> Scop. subsp. <i>pseudorubra</i> C.K.Schneid.	DD		
Asteraceae	<i>Tragopogon cupanii</i> Guss. ex DC.	DD		
Asteraceae	<i>Tricholaena teneriffae</i> (L.f.) Link	NT		
Poaceae	<i>Trifolium arvense</i> L. subsp. <i>gracile</i> (Thuill.) Nyman	DD		
Fabaceae	<i>Trifolium cernuum</i> Brot.	DD		
Fabaceae	<i>Trifolium clusii</i> Gren. & Godr.	DD		
Fabaceae	<i>Trifolium diffusum</i> Ehrh.	LC		1.1; 7.1
Fabaceae	<i>Trifolium nigrescens</i> Viv. subsp. <i>petrisavii</i> (Clementi) Holmboe	LC		7.3
Fabaceae	<i>Trifolium noricum</i> Wulfen subsp. <i>noricum</i>	LC		
Fabaceae	<i>Trifolium sylvaticum</i> Gérard ex Loisel.	LC		7.2; 7.3; 11.2; 1.1; 1.3; 2.1; 2.3; 3.2; 4.1;
Juncaginaceae	<i>Triglochin barrelieri</i> Loisel.	EN	B2ab(iii,v)	6.1; 7.3

(continued)

Table 1. Continued.

Family	TAXON	Threat Category	Criteria	Threats
Juncaginaceae	<i>Triglochin laxiflora</i> Guss.	NT		7.2; 7.3; 11.2; 1.1; 1.3; 2.1; 2.3; 3.2; 4.1; 6.1; 7.3
Poaceae	<i>Tripidium strictum</i> (Host) H.Scholz	LC		7.3
Poaceae	<i>Triplachne nitens</i> (Guss.) Link	NT		1.1, 1.3, 7.1
Poaceae	<i>Trisetaria aurea</i> (Ten.) Pignatti	LC		
Poaceae	<i>Trisetaria gracilis</i> (Moris) Banfi & Arrigoni	NT		2.3; 7.1; 7.3
Poaceae	<i>Trisetaria loeflingiana</i> (L.) Paunero subsp. <i>loeflingiana</i>	VU	B1ab(iii)+2ab(iii)	2.1; 9.3.3
Poaceae	<i>Trisetaria segetum</i> (Savi) Soldano	LC		1.1, 7.1; 2.1.1; 4.1; 7.3; 6.1
Cistaceae	<i>Tuberaria acuminata</i> (Viv.) Grosser	EN	D	1.1; 2; 3.2; 4.1
Cistaceae	<i>Tuberaria villosissima</i> (Pomel) Grosser	LC		2.1
Asparagaceae	<i>Urginea fugax</i> (Moris) Steinh.	LC		2.3; 7.3
Lentibulariaceae	<i>Utricularia australis</i> R.Br.	LC		2.3; 7.2; 9.3
Lentibulariaceae	<i>Utricularia minor</i> L.	NT		2.3; 6; 7.2; 9.3.3
Lentibulariaceae	<i>Utricularia vulgaris</i> L.	EN	B2ab(i,ii,iii,iv,v)	7.2; 7.3; 8.1.2
Caprifoliaceae	<i>Valeriana celtica</i> L. subsp. <i>celtica</i>	LC		1.3; 2.3; 6.1
Caprifoliaceae	<i>Valeriana tripteris</i> L. subsp. <i>tomentella</i> E.Walther	DD		
Caprifoliaceae	<i>Valeriana officinalis</i> L. subsp. <i>nemorensis</i> (B.Turk) F.Martini & Soldano	LC		
Caprifoliaceae	<i>Valerianella costata</i> (Stev.) Betcke	LC		
Scrophulariaceae	<i>Verbascum conocarpum</i> Moris subsp. <i>conocarpum</i>	LC		
Plantaginaceae	<i>Veronica chamaedrys</i> L. subsp. <i>micans</i> M.A.Fisch.	DD		
Plantaginaceae	<i>Veronica trichadena</i> Jord. & Fourr.	LC		1.1, 1.3, 7.1
Plantaginaceae	<i>Veronica verna</i> L. subsp. <i>brevistylis</i> (Moris) Rouy	LC		2.3; 6.1
Fabaceae	<i>Vicia dalmatica</i> A.Kern.	CR	B1ab(iii,v)+2ab(iii,v)	2.3.1
Fabaceae	<i>Vicia glauca</i> C.Presl subsp. <i>glauca</i>	LC		
Fabaceae	<i>Vicia oreophila</i> Zertová	DD		
Fabaceae	<i>Vicia serinica</i> R.Uechtr. & Huter	EN	B1ab(iii)+2ab(iii)	2.3; 8.2.2
Fabaceae	<i>Vicia sparsiflora</i> Ten.	NT		2.3; 5.3; 6.1; 7.3
Apocynaceae	<i>Vincetoxicum hircundinaria</i> Medik. subsp. <i>adriaticum</i> (Beck) Markgr.	LC		1.3; 6.1
Apocynaceae	<i>Vincetoxicum hircundinaria</i> Medik. subsp. <i>laxum</i> (Bartl.) Poldini	LC		
Apocynaceae	<i>Vincetoxicum nigrum</i> (L.) Moench	DD		
Violaceae	<i>Viola ambigua</i> Waldst. & Kit.	DD		
Violaceae	<i>Viola arborescens</i> L.	EN	B1ab(iii,v)+2ab(iii,v)	1.3; 2.2; 4.1; 6.1; 7.3; 8.1
Violaceae	<i>Viola argenteria</i> Moraldo & Forneris	LC		
Violaceae	<i>Viola arvensis</i> Murray subsp. <i>megalantha</i> Nauenb.	DD		
Violaceae	<i>Viola calcarata</i> L. subsp. <i>villarsiana</i> (Roem. & Schult.) Merxtn.	LC		
Violaceae	<i>Viola kitaibeliana</i> Schult.	EN	B2ab(iii,v)	2.1; 2.3; 10.2; 7.3; 6; 4.1
Violaceae	<i>Viola laticola</i> Marcussen	LC		
Violaceae	<i>Viola suavis</i> M.Bieb. subsp. <i>adriatica</i> (Frey) Hasler	LC		
Violaceae	<i>Viola valdieri</i> All.	LC		
Asteraceae	<i>Voluntaria tubuliflora</i> (Murb.) Sennen	VU	D2	1.1
Woodsiaceae	<i>Woodsia ilvensis</i> (L.) R.Br.	NT	D	6.3
Plantaginaceae	<i>Wulfenia carinthiaca</i> Jacq.	EN		6.1
Iridaceae	<i>Xiphion junceum</i> (Poir.) Parl.	CR(PE)		
Potamogetonaceae	<i>Zannichellia palustris</i> L.	NT		1.1; 1.3; 2.1; 4.1; 7.2; 7.3; 8.1; 9.3.1; 9.3.3; 11.1
Potamogetonaceae	<i>Zannichellia pedunculata</i> Rchb.	DD		1; 2.1; 7.2; 7.3; 9.3.1; 9.3.3; 11.1; 4.1; 8.1; 9.3.1; 9.3.3
Lamiaceae	<i>Ziziphora graveolens</i> (M. Bieb.) Melnikov	DD		
Lamiaceae	<i>Ziziphora villosa</i> (Pers.) Melnikov	LC		
Rhamnaceae	<i>Ziziphus lotus</i> (L.) Lam. subsp. <i>lotus</i>	NT		7.3
				1.1; 1.3

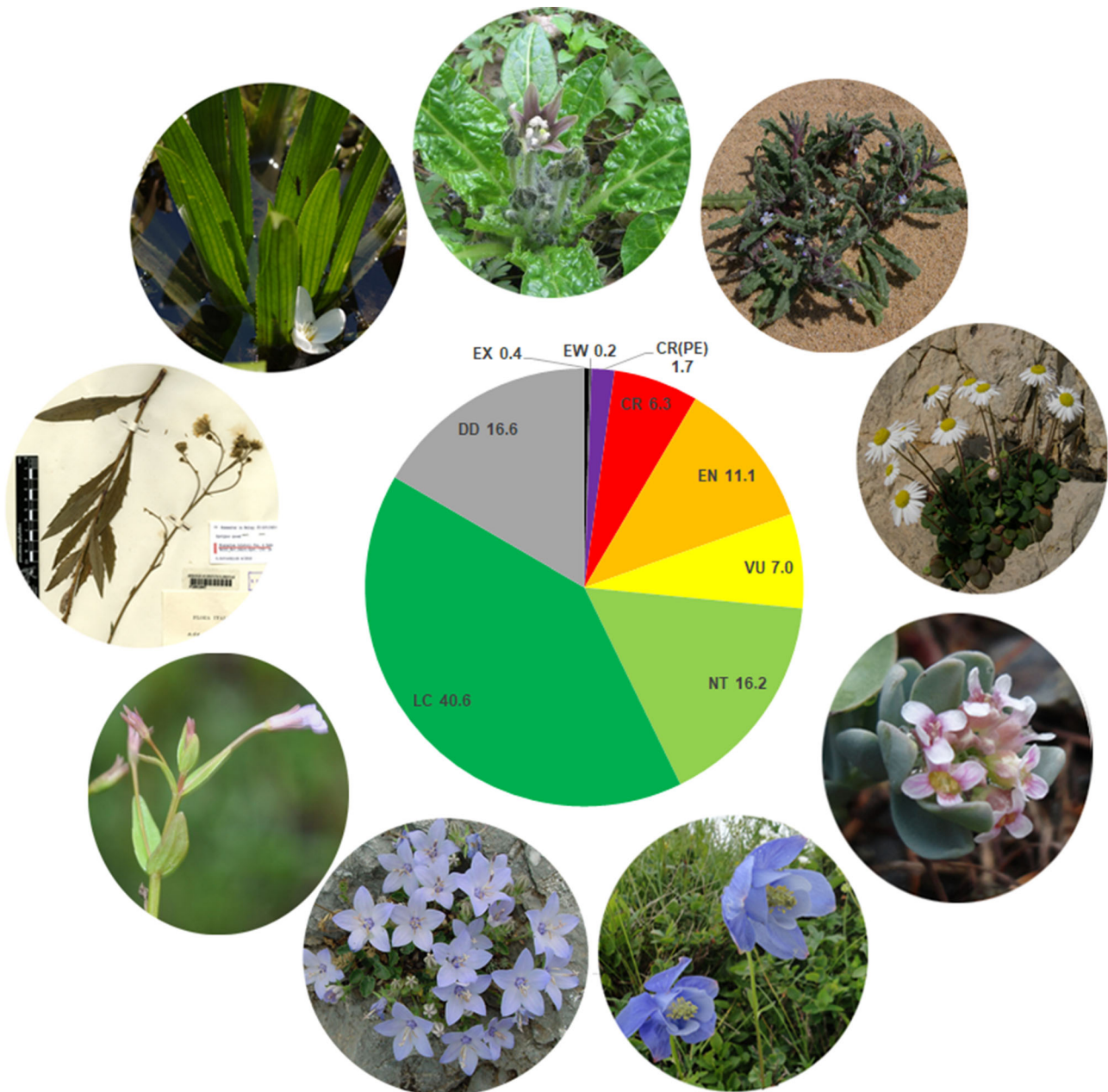


Figure 1. Representativeness (%) of Red List categories in the Italian vascular flora. For each threat category, a representative plant taxon is shown. Clockwise from the left: herbarium sample of *Hieracium tolstoii* Fen. & Zahn (EX); *Stratiotes aloides* L. (EW); *Mandragora officinarum* L. (CR(PE)); *Anchusa litorea* Moris (CR); *Bellium crassifolium* Moris (EN); *Aethionema thomasianum* J.Gay (VU); *Aquilegia lucensis* E.Nardi (NT); *Campanula fragilis* Cirillo subsp. *fragilis* (LC) and *Lindernia procumbens* (Krocker) Philcox (DD).

Endangered - Possibly Extinct [CR(PE)]". A taxon was considered extinct (EX) when it was not recorded in the last 50 years, and when recent field surveys focused on finding the taxon in its historical area of occurrence were unsuccessful.

Results

Red listing

Overall, our dataset included the assessment of the extinction risk for 29.7% of the whole Italian vascular flora. Nine taxa (0.4% of the assessed taxa) were categorized as Extinct (EX) or Regionally Extinct (RE) in Italy: *Aldrovanda vesiculosa* L., *Anthyllis hermanniae* L. subsp. *sicula* Brullo &

Giusso, *Herniaria fontanesii* Gay subsp. *empedocleana* (Lojac.) Brullo, *Hieracium tolstoii* Fen. & Zahn, *Limonium catanense* (Tineo ex Lojac.) Brullo, *Ranunculus hostiliensis* Pignatti, *Ranunculus mutinensis* Pignatti, *Sonchus palustris* L., *Suaeda kocheri* Guss. ex C.Brullo, Brullo & Giusso. Four taxa (0.2%) were recognized as Extinct in the Wild (EW) in Italy: *Carlina acanthifolia* All. subsp. *utzka* (Hacq.) Meusel & Kästner, *Clematis integrifolia* L., *Limonium intermedium* (Guss.) Brullo, and *Stratiotes aloides* L. The category EW assigned to *L. intermedium* is valid at a global level, since this species is endemic to Italy. Forty-one taxa (1.7%) were not recorded in recent years and were, thus, qualified as Critically Endangered (Possibly Extinct) [CR(PE)] (Figure 1; Table S1).

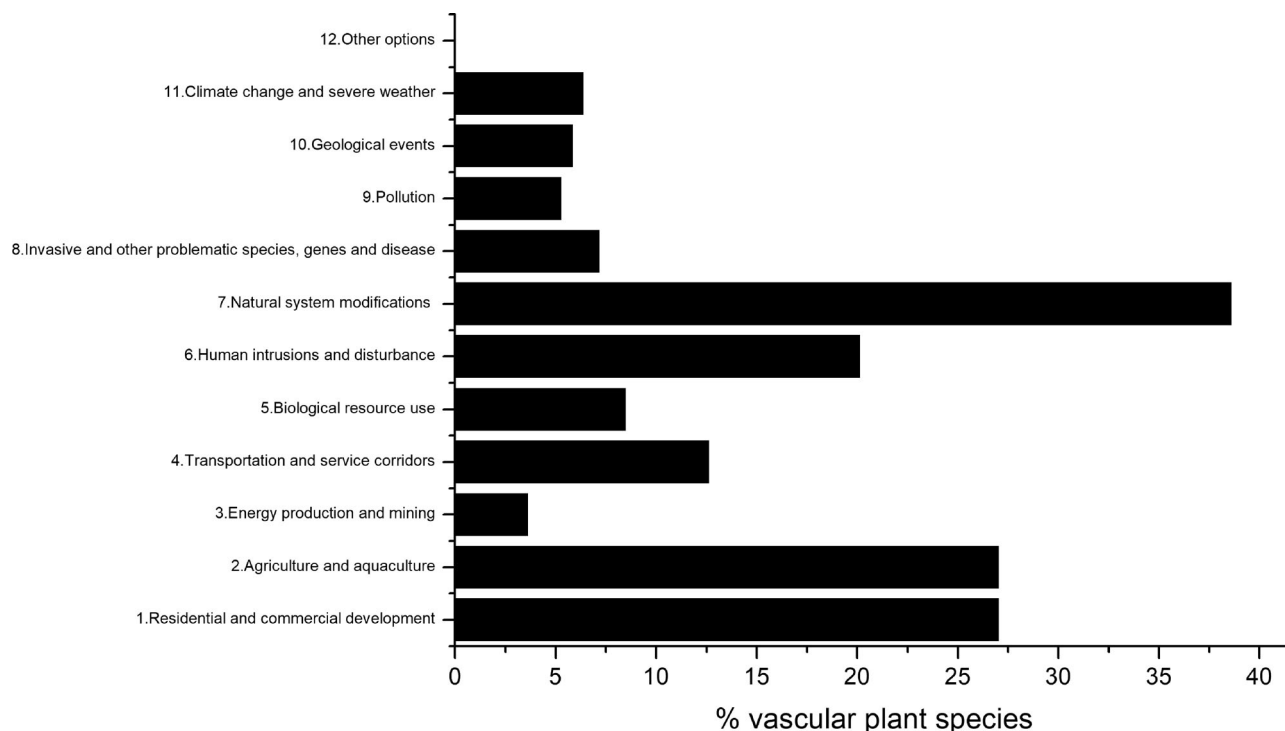


Figure 2. Percentage of Italian vascular plants affected by each major threat category according to the IUCN Threats Classification Scheme (version 3.2-IUCN 2012b).

Overall, 590 taxa (24.3%) were assigned to a risk category (Figure 1). Additional 395 taxa (16.2%) qualified as Near Threatened (NT), and 987 (40.6%) as Least Concern (LC). Finally, 404 taxa (16.6%) were considered as Data Deficient (DD), because available data did not allow a reliable assessment.

Major threats

The most common threat to the Italian vascular flora was “natural system modifications” (39% of the 2,430 taxa), followed by “agriculture and aquaculture” (27%), “residential development” (27%), and “human disturbance” (20%; Figure 2). Most threats are co-occurring, indicating that many taxa are subjected to a set of correlated adverse processes (Table S1). For instance, many plants threatened by tourism and recreational areas development were also threatened by the impact of transport, like roads and railroads (Table 1). Threats to vascular plants varied among geographical areas. Taxa occurring in coastal habitats resulted more affected by tourism development and disturbance, while processes related to residential and commercial development, agriculture, and transportation and service corridors affected taxa living in the most populated areas, usually in lowlands. Climate change (drought), plant collection for commercial or cultural purposes, and non-native invasive species currently represent minor threats.

Discussion

By summing up pre-existing and unpublished data, this study presents the assessment of 2,430 vascular taxa native

to Italy, i.e. about 30% of the 8,195 native vascular taxa recorded for Italy (Bartolucci, Peruzzi, et al. 2018). Many other national Red Lists of vascular plants were produced in Europe in the last decade, e.g., in Spain (1,571 taxa assessed - Moreno Saiz 2008) or England (1,859 taxa assessed, including all the microspecies of *Hieracium* and *Taraxacum* - Stroh et al. 2014). The Italian Red List presented here is one of the largest and most complete assessments of the vascular flora native to a country in Europe and in the Mediterranean Basin, only recently overtaken by France (4,982 taxa evaluated - UICN France et al. 2018). The proportion of Italian threatened vascular plant taxa (24.3%) is slightly higher compared to the global estimations (22.0% - Brummitt et al. 2015), and comparable to other European or Mediterranean countries, e.g., England (19.9% - Stroh et al. 2014) and Spain (22.1% - Muñoz-Rodríguez et al. 2016), although in the latter country the taxa have been evaluated through a quick assessment process (Muñoz-Rodríguez et al. 2016). Conversely, the rate of threatened vascular plants in Italy is more than double than that of France (9.7% - UICN France et al. 2018). However, in the latter country, the assessment regarded most of the taxa recorded nationwide and not only those considered of conservation interest. The proportion of threatened taxa in the present extended Red List is even slightly higher (24.3%) than that obtained considering only the Italian endemics (22.4% - Orsenigo, Montagnani, et al. 2018). Once again, this could be explained by the assessment, for the present Red List, of taxa living in highly threatened habitats or with a documented decline in the past years.

In recent years, a large amount of information was published about the Italian vascular flora, deriving from field

surveys, checklists, floras, and taxonomic revisions. Despite this, about 17% of the taxa assessed herein were categorized as Data Deficient. This suggests a lack of distribution data, limited information on threats, and/or significant gaps in taxonomic knowledge for many taxa. Moreover, the occurrence of 41 taxa was not observed in recent times, so that they were assessed as CR(PE). Consequently, further field, taxonomic, biogeographical, and ecological investigations of the Italian vascular flora should be undertaken to fill these gaps, with special regard to least known areas and groups of species, such as apomictic and poorly known genera.

The analysis of threats affecting vascular plants reveals that the anthropic pressure related to land use changes is the main driver of extinction risk. In particular, more than 60% of the assessed taxa are affected by direct and/or indirect human disturbances, like natural system modifications, agriculture, residential and commercial development, recreational activities or transportation and service corridors (Figure 2; Table S1). Many of the extinct or possibly extinct taxa grew in habitats or geographical areas that underwent drastic upheavals in the last decades. Some examples come from the wetlands in the Po Plain (Bolpagni et al. 2018), where some species (e.g., *Aldrovanda vesiculosa* L., *Pilularia globulifera* L., *Ranunculus hostiliensis* Pignatti, etc.) met extinction due to changes in agricultural practices. On the Italian islands, some plants (e.g. *Anthyllis hermanniae* L. subsp. *corsica* Brullo & Giusso and *Limonium intermedium* (Guss.) Brullo) underwent extinction because the growing tourist inflow is causing severe impacts on dunal and other coastal habitats (see e.g. Ballantyne and Pickering 2013; Wraith and Pickering 2018). The abandonment of traditional agricultural practices and crops like emmer or flax caused the decline and extinction of some segetal species (Storkey et al. 2012; Perrino and Calabrese 2018): this is the case for *Silene linicola* C.C.Gmel. or *Bromus grossus* Desf. ex DC. No threats were recorded for about 20% (484) of the assessed taxa, mainly living in mountain areas, where anthropic pressure is lower. As previously observed (e.g. Fenu et al. 2017; Orsenigo, Montagnani, et al. 2018), some highly-debated threatening factors (e.g. climate change, invasive species) seem to have a negligible impact on the Italian native flora. On a global level, climatic change and alien species are considered two alarming drivers of species extinction (Gómez et al. 2015; Bellard et al. 2016). Nonetheless, only a minor fraction of the assessed Italian taxa results directly affected by such threats. Probably, this incongruence reflects difficulties in quantifying the true impact of these endangering processes due to the lack of reliable assessment methods (Attorre et al. 2018).

Our results represent an important baseline to establish conservation priorities, legislative choices, and intervention strategies on a national and regional scale. We recommend scientists and stakeholders to take this information into account in conservation planning, allowing for an optimization of conservation efforts while minimizing conservation costs (Carta et al. 2019). Conservation measures for endangered species, both at legal and practical levels, cannot be further postponed if we truly intend to prevent their

extinction and halt the further deterioration of the Italy's biodiversity status.

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