

APORTACIONES AL CONOCIMIENTO FLORÍSTICO DE LA SIERRA DE ARACENA (HUELVA, ESPAÑA)

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RESUMEN: Se ha realizado un catálogo florístico de la Sierra de Aracena (Huelva, España), en el que se citan 900 táxones de plantas vasculares.

SUMMARY: A check-list of the Sierra de Aracena (Huelva, Spain) is presented. A total of 900 vascular plants have been identified.

INTRODUCCION

La Sierra de Aracena, extremo suroccidental de Sierra Morena, se encuentra situada en el norte de la provincia de Huelva (España) y está formada por un cinturón montañoso que se extiende desde el límite con la provincia de Sevilla hasta el río Chanza, frontera natural con Portugal. Es una zona poco estudiada corológicamente, pues son muy escasos los trabajos que tratan sobre ella (Rivas Goday, 1964; Rivera & Cabezudo, 1981; Cabezudo 1978a y 1978b; Salvo & Cabezudo, 1984; Rivas-Martínez, 1979, etc.). Hemos intentado, con esta aportación, completar una laguna importante en el conocimiento florístico de Andalucía y del SW ibérico.

Altitudinalmente está comprendida entre los 400 m de la zona basal y los 960 en su parte central. Destacan entre otros Pico Castaño (960 m), Pico de Almonaster (915 m), Pico de San Ginés (867 m), Cabezo del Cojo (800 m) y Pico de Aroche (721 m).

La situación geográfica y la orografía determinan la existencia en la Sierra de dos pisos bioclimáticos, uno termomediterráneo, entre los 400-600 m, y otro mesomediterráneo por encima de los 600 m (Rivas-Martínez, 1983), los cuales, combinados con los ombroclimas subhúmedo y húmedo, influyen en la variabilidad de su flora y vegetación. Las principales estaciones meteorológicas estudiadas han sido: Aracena (P=1104 mm; T= 14,8°C), Aroche (P=840; T=16,2), Zufre (P=831; T=16), Calañas (P=1020; T=18), Almonaster la Real (P=932; T=16,6), Cabeza Rubias (P=932; T=15,6), Valverde del Camino (P=792; T= 19,4), Cala (P=670; T=17), Jabugo (P=1150) y Cortegana (1160).

Geológicamente la mayor parte de la sierra se caracteriza por la presencia de una serie metamórfica de pizarra y esquistos, exis-

tiendo un núcleo central de calizas marmóreas duras y algunos enclaves graníticos. Lo accidentado del terreno implica la formación general de suelos pocos desarrollados, muy erosionables y ácidos o ligeramente alcalinos. En la zona de relieve llano-ondulado, se originan suelos más profundos que permiten un mejor desarrollo de la vegetación arbórea.

Corológicamente la zona estudiada está incluida en la Región Mediterránea, formando parte del sector Mariánico-Monchiquense, de la provincia Luso-Extremadurensis (Rivas-Martínez, 1982a). Para la confección del catálogo hemos realizado excursiones periódicas durante dos años y que han dado como resultado la recolección e identificación de cerca de un millar de táxones que suponen una aportación considerable al conocimiento florístico del SW de la Península Ibérica.

Para cada especie indicamos la frecuencia de aparición en la zona (A=Abundante; F=Frecuente; O=Ocasional; R=Rara y Vr=Muy rara), comportamiento bioclimático habitual (T = Termomediterráneo; M = Mesomediterráneo) y mediante cuadrícula UTM (10 x 10) las zonas donde cada taxon ha sido recolectado.

El catálogo ha sido ordenado según criterios de *Flora Europaea* (Tutin & cols., 1964-80). Todo el material mencionado se encuentra depositado en los Herbarios de las Universidades de Sevilla (SEV) y Málaga (MGC).

Aunque la vegetación natural se encuentra muy deteriorada por la presión agrícola y ganadera, existen zonas muy concretas que nos ofrecen una muestra de las comunidades climax arbóreas que existieron en la Sierra. Son varias las series de vegetación que se pueden reconocer:

1. Serie mesomediterránea Luso-Extremadurensis de *Quercus pyrenaica* Willd. - *Arbutum-Quercetum pyrenaicae sigmetum* (Rivas-Martínez, 1982b)-. Se asienta en las zonas más altas y húmedas, estando sustituida en la mayor parte de su areal potencial por castaños.

2. Serie mesomediterránea Luso-Extremadurensis subhúmeda de *Quercus suber* L. - *Sanquisorbo-Quercetum suberis sigmetum* -. Ocupa las zonas de suelos profundos y húmedos de la parte media de la Sierra. En la actualidad se encuentra representado en la mayor parte de su areal por madroñales y brezales.

3. Serie mesomediterránea Luso-Extremadurensis silicícola de *Quercus rotundifoliae* Lam. - *Pyro-Quercetum rotundifoliae sigmetum* -. Ocupa las zonas basales ácidas y subhúmedas de la Sierra. En la actualidad se encuentra representado en su mayor parte por jarales.

4. Serie termomediterránea mariánica seca silicícola de *Quercus rotundifoliae* Lam. - *Myrto-Quercetum rotundifoliae sigmetum* (Rivas-Martínez, 1982b)-. Muy puntual en la zona, ocupa algunos enclaves térmicos de la parte inferior y se encuentra representada en la actualidad por jarales termófilos.

CATALOGO FLORISTICO

PTERIDOPHYTA

SELAGINELLACEAE

Selaginella denticulata (L.) Link, F, T(M),
QB 09, QB 99, PB 99, QC 00, QB 39, QB 29.

ISOETACEAE

Isoetes velata A. Br., Vr, T, PB 66.
Isoetes durieui Bory, Vr, M, PB 89.
Isoetes histrix Bory, F, T, QB 19, QB 08, PB
99, QB 39, QB 28.

EQUISETACEAE

Equisetum telmateia Ehrh., O, T(M), PB 99.
Equisetum ramosissimum Desf., F, T, QC 00,
PC 80.

OPHIOGLOSSACEAE

Ophioglossum lusitanicum L., R, T, QB 19 y 28.

OSMUNDACEAE

Osmunda regalis L., R, M, QB 09, PB 89.

SINOPTERIDACEAE

Cheilanthes guanchica Bolle, Vr, M, QB 19 y
09.
Cheilanthes pteridioides (Reichard) C. Chr.,
R, T(M), QC 00, QB 09, QB 19.
Cheilanthes maderensis Lowe, O, T(M), QB 09,
QB 39, PB 39.
Cheilanthes hispanica Mett., R, T, QB 39, QC
00.
Cheilanthes tinaei Tod., O, T, QB 29, PB 99,
QB 19, QB 39.
Cosentinia vellea (Ait) Tod., O, T(M), QB 19,
QB 39, QB 09.

ADIANTACEAE

Adiantum capillus-veneris L. F, M(T), QB 19,
QB 09, QB 29, PC 70, QC 39.

GYMNOGRAMMACEAE

Anogramma leptophylla (L.) Link, O, T(M), QB
09, PC 70, PC 90, QB 29 QB 18.

HYPOLEPIDACEAE

Pteridium aquilinum (L.) Kuhn, A, M(T), QB 09,
QB 19, QC 10, PB 89, QB 29, PB 99.

ASPLENIACEAE

Ceterach officinarum DC., F, T(M), QB 09, PB
99, QB 19, QB 28.
Asplenium trichomanes L., subsp. *quadrivalens*
Meyer, A, M(T), QB 09, QC 00, PB 99.

Asplenium petrarcae (Guerin) DC., Vr, M, QB
19.

Asplenium onopteris L., F, M, QB 09, PB 99,
PB 09, RB 89.

Asplenium billotii F. Schultz, O, M(T), QC 00,
QB 09, PB 99, PB 89.

ATHYRIACEAE

Athyrium felix-femina (L.) Roth., R, M, QC 00,
PB 89, PC 80.

Cystopteris fragilis (L.) Bernh., R, M, QB 19,
QC 00.

Cystopteris viridula (Desv.) Desv., Vr, M, QC
00.

ASPIDIACEAE

Dryopteris affinis (Lowe) Fraser-Jenkins ssp.
affinis, R, M, PB 89, QB 09.

Polystichium setiferum (Forsk.) Woynar, Vr,
M, QB 09, PB 99.

BLECHNACEAE

Blechnum spicant (L.) Roth., R, M. QC 00, PB
89, PB 88.

POLYPODIACEAE

Polypodium cambricum L., O, M, QB 19, PB 99,
QB 09, QC 00.

SPERMATOPHYTA

DICOTILEDONEAE

SALICACEAE

Salix fragilis L., F, T(M), QB 09, PB 89, PC
90.

Salix pedunculata Desf., F, T(M), PC 70, QB 39,
QB 29, QB 28, QB 18.

Salix atrocinerea Brot., F, M(T), PC 90, QB 09,
QB 28, QB 29, PB 99.

Populus alba L., O, M(T), PB 99.

Populus nigra L., F, T(M), QC 00, QB 39, PC 80,
PB 99, PC 70, QB 29.

BETULACEAE

Alnus glutinosa (L.) Gaertner, F, M(T), PB 99,
QB 29, PC 70, QC 00, PB 88, PB 89.

CORYLACEAE

Corylus avellana L.; R, M, QB 19.

FAGACEAE

Castanea sativa Miller, F, M, QB 09, PB 99,
QC 00, QB 09.

Quercus coccifera L., A, T(M), QB 09, PB 99,
QB 19, QB 38, QB 29.

- Quercus rotundifolia* Lam. A, T(M), QB 09, PC 90, PB 99, QB 08, PB 89, QB 39.
- Quercus suber* L., F, M(T), QB 18, PB 89, PB 99.
- Quercus pirenaica* Willd., O, M, QB 09, QB 19, QC 00.
- Quercus canariensis* Willd., O, M, QC 00, PB 99, QB 29, QB 09, PC 80, PB 89, QC 10, QB 19.
- Quercus faginea* Lam., O, M, QB 29, QB 09, PB 89, PB 99, QC 00, PC 80.
- Quercus fruticosa* Brot., R, M, QB 09.
- MORACEAE
- Ficus carica* L., O, T(M), PB 99, PB 89, QB 19, PC 80.
- URTICACEAE
- Urtica dioica* L., O, M(T), QB 29, PB 89, QC 00.
- Urtica urens* L., F, T(M), QB 29, QC 00, PB 99.
- Urtica dubia* Forskal, F, T, QB 39.
- Parietaria diffusa* Mert. & Koch, O, M(T), QB 39, QB 09, QB 19.
- Parietaria mauritanica* Durieu, R, M, QC 00.
- SANTALACEAE
- Osyris alba* L., F, M(T), QB 09, QB 19, QB 39, PC 80.
- ARISTOLOCHIACEAE
- Aristolochia baetica* L., R, T, QB 17.
- Aristolochia longa* L., F, M, QB 09, QB 19, PB 99, PB 89, QC 00.
- RAFLESIAEAE
- Cytinus hypocistis* (L.) L., O, T(M), QB 09, PB 89, QC 00, PB 99, QB 08.
- POLYGONACEAE
- Polygonum persicaria* L., O, T(M), QB 29, QB 19, PB 89, PC 80, PB 99, PC 70.
- Polygonum aviculare* L., A, T(M), QB 19, PB 89, PB 99, QB 29, QB 09, PC 99.
- Bilderdykia convolvulus* (L.) Dumort, VR, M, QC 00.
- Bilderdykia aubertii* (L. Henry) Moldenke, O, M, QB 09, QB 19.
- Rumex acetosella* L., F, T(M), QB 29, QC 00, PC 81, QB 09, QB 19, QC 10.
- Rumex induratus* Boiss. & Reuter, F, T(M), QB 29, QB 19, PB 99, PC 00, QB 09, PC 70.
- Rumex conglomeratus* Murray, F, T(M), QC 10, QB 29, QB 09, QC 00, PC 90, QB 19, PB 99, PB 89.
- Rumex pulcher* L., A, T(M), PB 99, PC 81, QB 19, QC 10, QB 29.
- Rumex bucephalophorus* L., A, T(M), QB 19, PC 81, QB 09, QC 00, QB 29, PC 90, QC 10.
- CHENOPODIACEAE
- Chenopodium opulifolium* Schrader, O, T(M), PB 99, PB 89, QB 29, QB 39, QB 19, QB 09, PC 90.
- Atriplex rosea* L., R, M, PC 90.
- Atriplex patula* L., R, M, PC 90.
- AMARANTHACEAE
- Amaranthus hybridus* L., R, M, QB 19.
- Amaranthus albus* L., F, T(M), QB 38, PC 90, PC 80, PB 99.
- Amaranthus cruentus* L., F, T(M), QB 29, QB 00, QB 09, PC 90, PC 70, PB 89, QB 19, PB 88.
- Amaranthus retroflexus* L., R, M, QB 19.
- PHYTOLACAEAE
- Phytolaca americana* L., R, M, PB 88, QB 09, QC 00.
- PORTULACACEAE
- Portulaca oleracea* L., O, T(M), QB 29, PC 50, PC 70, QB 19, PC 80.
- Montia fontana* L., R, M, PC 81, QC 00.
- CARYOPHYLLACEAE
- Arenaria montana* L., O, M, QB 09.
- Arenaria conimbricensis* Brot., R, M, QB 09.
- Arenaria conica* Boiss., Vr, M, QB 28.
- Moerhingia pentandra* Gay, R, M, QB 19.
- Stellaria media* (L.) Vill., A, T(M), QB 29, QB 09, QC 00, QB 18, PC 81.
- Stellaria uliginosa* Murray, Vr, T(M), PC 81.
- Cerastium brachypetalum* Pers., R, M, QB 09.
- Cerastium glomeratum* Thuill., A, T(M), QB 29, QB 18, QC 00, QB 09.
- Cerastium Fontanum* Baumg., Vr, M, QB 09.
- Moenchia erecta* (L.) P. Gaertner, O, T(M), QB 28, QB 18, QB 38, PC 70, PB 99.
- Sagina apetala* Ard., R, T(M), PB 99, PB 89, QC 00, QB 17.
- Corrigiola telephiifolia* Pournet, A, T(M), QB 29, QB 28, QB 18, QB 17, QB 19, PC 90, PB 99, PB 87.
- Corrigiola litoralis* L., O, M(T), QB 09, QB 08.
- Paronichia cymosa* (L.) DC., R, M, PB 99.
- Paronichia echinulata* Chater, O, T(M), QB 29, PB 99, QB 19.
- Paronichia argentea* Lam., A, T(M), QC 00, QB 29, QB 09, QC 10, PB 99, QB 19.
- Herniaria scabrida* Boiss., Vr, M, QB 09.
- Herniaria lusitanica* Chandhri, O, T(M), QB 09, QB 19, QC 00.
- Illecebrum verticillatum* L., R, M, QB 29.
- Polycarpon tetraphyllum* (L.) L., A, T(M), QB 19, QB 09, PB 99, QB 29, PC 60, PC 00, PB 89.
- Spargula arvensis* L., F, T(M), QB 09, QB 18, PB 09.

Spergularia pentandra L., Vr, M, QC 00, PC 01.
Spergularia morisonii Boreau, Vr, T, QB 27.
Spergularia rubra (L.) J. & C. Presl, A, T(M),
 PC 70, PB 99, QB 09, QB 19, QB 29, QB
 39, QC 00, PB 88.
Spergularia purpurea (Pers.) G. Bonfil., O,
 M, QC 00.
Spergularia bocconii (Scheele) Ascherson &
 Graebner, O, M, QB 19.
Silene mellifera Boiss. & Reuter, R, M, QB 09,
 QB 19.
Silene vulgaris (Moench) Garcke, F, T(M), QC
 10, QB 19, QB 09, PB 99, PC 90.
Silene alba (Miller) Krause, A, T(M), QB 19,
 QB 09, QB 29.
Silene portensis L., O, T, PB 87.
Silene inaperta L., O, T(M), PB 29, PB 88, QB
 39, PC 70, QB 19.
Silene fuscata Link, R, M, PC 90.
Silene laeta (Aiton) Godron, Vr, T, QC 00.
Silene gallica L., A, T(M), QB 29, PB 99, QB
 19, QB 09, QC 00, QB 39, PC 81.
Silene scabriflora Bort., F, T(M), QB 09, QB
 19, QB 29, PB 99.
Silene colorata Poir., A, T(M), QB 29, QB 28,
 QB 39.
Silene secundiflora Otth, O, M, QB 09.
Saponaria officinalis L., O, T(M), QB 09, PC
 70, PC 90, PB 99, PB 88.
Petrorhagia nanteuillii (Burnet) Ball & Hey-
 wood, F, T(M), QB 29, QB 19, QB 09, QC
 00, QC 20, PB 99.
Dianthus lusitanicus Brot., O, T(M), PB 99,
 QB 09, QC 00.
Dianthus crassipes Roemer, R, T, QB 39.
Dianthus cintranus Boiss. & Reuter, R, M, QB.
 19.

RANUNCULACEAE

Nigella damascena L., O, T(M), QB 09, QB 19,
 QB 29.
Nigella hispanica L., O, T(M), QB 29.
Delphinium gracile DC., F, T(M), PB 99, QB 09,
 QB 19, QB 29, QB 39.
Delphinium staphisagria L., R, M, QB 09, PB
 89.
Consolida ambigua (L.) Ball & Heywood, R, M,
 QC 10.
Anemone palmata L., F, T(M), QB 28, QB 09, PB
 99, QB 18, QB 19.
Clematis campaniflora Brot., F, M(T), QB 09,
 QC 00, QB 28, PC 70, PB 88, PB 89, PB
 99.
Ranunculus gramineus L., Vr, M, QB 09.
Ranunculus repens L., R, M, PB 99.
Ranunculus bulbosus L., F, T(M), QB 09, PC 90,
 QC 00, PB 99, PB 59.
Ranunculus muricatus L., F, M, PB 99, QB 29,
 QC 10.
Ranunculus arvensis L., O, M, PB 89, QC 00.

Ranunculus parviflorus L., R, M, PB 89.
Ranunculus paludosus Poir., F, T(M), QC 00,
 QB 09, QB 28, QB 18, PC 70.
Ranunculus gregarius Brot., F, T(M), QB 09,
 QC 00, QB 28, QB 18, QB 19, PC 70.
Ranunculus ficaria L., F, M, QB 19, QB 09.
Ranunculus bullatus L., F, T(M), QB 39, QB 09,
 QB 19.
Ranunculus hederaceus L., O, M, PC 80.
Ranunculus tripartitus DC., O, T, QB 39, QC
 00, QB 18.
Ranunculus ololeucos Lloyd, R, T, QB 49.
Ranunculus baudotii Godron, O, T, PB 77, QB
 49, PB 18.
Ranunculus trichophyllus Chaix, O, T, QB 39,
 PC 60.
Thalictrum flavum L., O, T(M), QB 09, QB 19,
 QB 29, PC 80.

PAEONIACEAE

Paeonia broteroi Boiss. & Reuter, F, M, QB 09,
 QB 29, QC 00, PC 70.

PAPAVERACEAE

Papaver dubium L., R, M, PC 70.
Papaver hybridum L., R, M, PC 80.
Papaver rhoeas L., A, T(M), QB 09, QC 10, QB
 19, QB 29, PC 90, QB 39.
Chelidonium majus L., O, M(T), PC 90, PB 99,
 PC 00, QB 09, PC 80.
Fumaria agraria Lag., O, T, QB 29, QB 39.
Fumaria capreolata L., A, T(M), QB 09, QC 10,
 QB 29, QC 00, QB 00, QB 19.
Fumaria bastardii Boreau, R, M, QB 09.
Fumaria muralis Sonder, O, M, QB 09, QB 19.
Fumaria reuteri Boiss., F, T(M), QB 19, QB 29,
 QB 09, QC 10, QC 00.
Fumaria officinalis L., A, T(M), QB 09, QC 00,
 QC 10.
Fumaria calcarata Cad., R, M, QB 19.

CAPPARIDACEAE

Cleome violaceae L., O, T(M), PB 99, QB 09.

CRUCIFERAE

Alliaria petiolata (Bieb.) Cavara & Grande,
 Vr, M, QC 00.
Rhynchosinapis hispida (Cav.) Heywood subsp.
transtagana (Coutinho) Heywood, O, M,
 QB 19, QB 29.
Arabis thaliana (L.) Heynh., A, T(M), QB
 19, QB 09, QC 00, PB 99, PC 90.
Hesperis laciniata All., Vr, M, QC 10.
Barbarea intermedia Boreau, R, M, QC 00, QB
 19.
Barbarea vulgaris R. Br., Vr, M, PB 89.
Nasturtium officinale R. Br., O, T(M), PB 89,
 QB 09, QB 29, PB 99, PC 90, QB 19, PC
 70.
Lunaria annua L., R, M, PB 99.

Cardamine hirsuta L., F, T(M), QB 18, QB 19, QB 29, QB 39, PC 90, PB 99, QB 09.
Arabis stenocarpa Boiss. & Reuter, R, M, QB 09.
Alyssum minus (L.) Rothm., R, T, QB 39.
Alyssum granatense Boiss. & Reuter, O, M, PB 09, QB 28, PB 99.
Draba muralis L., R, M, QB 09.
Erophila verna (L.) Chevall., R, M, QB 09.
Capsella rubella Reuter, O, M(T), QB 09, QC 00, PB 89, QB 19.
Capsella bursa-pastoris L., A, T(M), QB 09, QB 29, PC 80.
Hornungia petraea (L.) Reichenb., R, M, QB 09.
Teesdalia coronopifolia (J.P.Berg.) Thell., F, M(T), QB 09, QB 29, QB 09, PB 99, PC 90, QB 19.
Thlaspi perfoliatum L., R, T, QB 39.
Iberis linifolia Loefl., F, M, QB 09, QB 19, QB 99, PC 80, QB 29.
Iberis saxatilis L., R, M, QB 29.
Biscutella laevigata L., R, M, QC 11.
Biscutella baetica Boiss. & Reuter, O, T, QB 38, QB 28, QB 39, QB 18.
Lepidium heterophyllum Benth., O, M, QC 10, QC 00, QB 19, QB 09.
Cardaria draba (L.) Desv., R, M, QB 09.
Coronopus didymus (L.) Sm., R, M, QC 00, QB 29.
Crambe hispanica L., R, M, QB 09.
Diplotaxis catholica (L.) DC., O, T(M), QB 18, QB 29.
Diplotaxis muralis (L.) DC., F, T(M), QB 39, QB 29, QB 18.
Brassica nigra (L.) Koch, F, M(T), QB 09, QB 29, PC 00.
Brassica barrelieri (L.) Janka, F, T(M), QB 39, QC 00.
Brassica napus L., F, T(M), PC 00, PB 99, PC 90.
Sinapis alba L., O, M(T), QC 00, QB 09, PC 70, QB 29.
Sinapis arvensis L., O, M(T), QB 09, QC 00, PC 90, QB 28.
Hirschfeldia incana (L.) Lagrèze-Fossat, A, T(M), QB 19, PC 70, QB 39, QB 29, PB 99, QB 09, PC 00.
Rapistrum rugosum (L.) All., O, M, QC 10.
Calepina irregularis (Asso) Thell., O, M, QB 09, PB 89, PC 00, QC 00, QC 90.
Rhaphanus raphanistrum L., A, T(M), PC 71, QC 00, QB 09, QB 29, QB 18, QB 10, QC 90.

RESEDACEAE

Reseda phyteuma L., F, T(M), QB 09, PB 99, QB 29, QB 19.
Reseda luteola L., F, T(M), QB 09, QB 19, QB 00, QC 00, PC 70.
Reseda media Lag., R, T, QB 88.
Sesamoides canescens (L.) O. Kuntze, A, T(M), QB 29, QB 09, QB 19, QC 00, PB 99.

CRASSULACEAE

Crassula tillaea Lester-Garland, Vr, T, QB 18.
Umbilicus rupestris (Salisb.) Dandy, F, T(M), PC 70, QB 29, QC 00, QB 09, QB 18, QC 10.
Umbilicus horizontalis (Guss) DC., R, M(T), QB 09, PB 99.
Mucizonia hispida (Lam.) A. Berger, O, M(T), QC 00, QB 19.
Sedum album L., F, T(M), QB 28, QB 19, QB 09, PB 99, PC 90.
Sedum forsterianum Sm, F, M(T), PB 89, PC 80, QB 09, PB 99.
Sedum arenarium Brot., R, M, QB 29, PB 89.
Sedum brevifolium DC., O, M(T), PB 99, QC 00.
Sedum caespitosum (Cav.) DC., R, T, QB 39.
Sedum tenuifolium (Sibth. & Sm.) Strobl, F, T(M), PC 81, QC 00, QB 19, QC 10, QB 29, PB 99, PC 80.
Sedum sediforme (Jacq.) Pau, O, M(T), PB 99.
Sedum andegavense (DC.) Desv., R, M, QB 19, QB 28.

SAXIFRAGACEAE

Saxifraga granulata L., F, M(T), QB 39, QB 09, PC 90, QB 28, QB 09, QC 00.

ROSACEAE

Rubus ulmifolius Schott., A, M(T), PB 99, QB 29, QB 19, QC 10, QB 09.
Rosa canina L., F, M, QC 10, QB 29, QC 20, PB 89.
Rosa pouzini Tratt., F, M, QB 09, QB 29.
Rosa agrestis Savi, R, M, PB 99.
Agrimonia eupatoria L., F, M(T), QC 00, QB 19, PB 99, QB 09, PB 89.
Sanguisorba hybrida (L.) Nordborg, F, M, QB 19, QB 99, QB 09, PB 99, PB 59, QC 00, PC 81.
Sanguisorba minor Scop., A, T(M), QB 09, QB 19, QC 00, QC 10, PB 99.
Geum sylvaticum Pourret, Vr, M, QB 09.
Geum urbanum L., Vr, M, QC 00.
Potentilla reptans L., O, M(T), QB 09, QC 00, PC 90, QB 19, QB 29.
Fragaria vesca L., O, M, QB 09, QB 19.
Aphanes cornucopioides Lag., R, M, QB 29, QB 19, QB 09.
Aphanes microcarpa (Boiss. & Reuter) Rothm., O, M, QB 09, QB 18.
Pyrus bourgaeana Decne, F, M(T), PB 99, QB 29, QB 39, QB 09, QB 19, PC 90.
Crataegus monogyna Jacq., F, T(M), PC 70, QB 09, QB 39, PC 80, PB 99.

LEGUMINOSAE

Cytisus baeticus (Webb) Stendel, F, M(T), PB 99, PC 80, PB 99, PB 89.
Cytisus grandiflorus DC., O, M, PC 00, PB 99.

- Cytisus striatus* (Hill) Rothm., **A, M**, PB 29, PC 80, PC 90, PB 89.
Genista falcata Brot., **F, M(T)**, QB 09, QB 19, QC 00, PC 70.
Genista hirsuta Vahl., **F, T(M)**, QC 10, QB 09, QB 19, PB 99, QB 29.
Genista triacanthos Brot., **F, T(M)**, QB 09, QB 17, PC 90, PC 81.
Genista polyanthos R. Roemer ex Willk., **F, T**, PC 90, QB 28, QB 39.
Chamaespartium tridentatum (L.) P. Gibbs, **A, M(T)**, QB 09, QB 19, QC 00, PV 99.
Retama sphaerocarpa (L.) Boiss., **O, T**, PB 99, PC 80, PC 70.
Spartium junceum L., **O, T(M)**, PC 00, PC 80.
Ulex eriocladus Vicioso, **A, T**, QB 29, QB 09, PB 89, QB 39, QB 18, QB 17, PB 99.
Adenocarpus telonenis (Loisel.) DC., **R, T**, QB 29.
Lupinus luteus L., **O, M**, QB 09 PC 90.
Lupinus hispanicus Boiss. & Reuter, **O, M(T)**, QB 09.
Lupinus angustifolius L., **F, T(M)**, QC 00, QB 29, QB 09, QB 19, PC 90.
Lupinus micranthus Guss., **R, M(T)**, QB 09, QB 29, PC 90.
Lupinus albus L., **R, M**, QB 19, QB 38.
Galega officinalis L., **R, T**, PB 59.
Astragalus lusitanicus Lam., **A, T(M)**, QB 09, QB 29, QB 19, QC 00, QB 39, PB 99.
Astragalus cymbicarpos Brot., **R, M**, PB 99.
Psoralea bituminosa L., **A, T(M)**, QC 10, QB 09, QB 29, QB 19, PB 89, PC 80.
Vicia villosa Roth., **O, M**, QB 09.
Vicia benghalensis L., **A, M(T)**, QB 29, QC 00, QB 09, QB 19, PC 11.
Vicia disperma DC., **F, T(M)**, PB 89, QC 10, QB 19, QC 00, PB 99, QB 09.
Vicia pubescens (DC.) Link, **Vr, M**, QB 09.
Vicia sativa L., **A, T(M)**, QC 10, QB 09, QC 00, QB 19, QB 29, PC 90.
Vicia lutea L., **F, T(M)**, QC 10, QC 00, PB 99, QB 09.
Vicia hybrida L., **Vr, M**, QB 09.
Lathyrus latifolius L., **A, M**, PC 90, PB 99, PC 80.
Lathyrus tingitanus L., **F, M**, QC 10, QB 39, QB 19, QB 09.
Lathyrus cicera L., **F, M(T)**, PC 00, QB 09, QC 00, QB 19.
Lathyrus angulatus L., **O, M**, PC 90, QB 28, PB 99, QB 09, QB 29.
Lathyrus clymenum L., **A, M(T)**, QB 29, PC 80, QB 09, QC 00, QC 10.
Lathyrus aphaca L., **F, M(T)**, QB 09, PC 90.
Ononis natrix L., **O, T**, PB 99, QB 19.
Ononis biflora Desf., **R, M**, QB 09.
Ononis cintrana Brot., **F, M(T)**, QB 29, QB 09, QC 00, PB 59.
Ononis speciosa Lag., **Vr, T**, QB 29.
Ononis spinosa L., **F, T(M)**, QB 09, PB 99, QC 10, QB 19, PC 90, QB 39.
Ononis difusa Ten., **R, T**, QB 18.
Ononis viscosa L., **O, M**, QB 09.
Ononis repens L., **R, T**, QB 29.
Biserrula pelecinus L., **O, T(M)**, PB 79, PC 80, *Melilotus indica* (L.) All., **R, T(M)**, QB 09, QB 19.
Melilotus segetalis (Brot.) Ser., **R, M**, QB 19.
Medicago disciformis DC., **R, M**, QB 19.
Medicago lupulina L., **F, T(M)**, QB 29, QB 09, PC 90, QC 00, QB 19.
Medicago sativa L., **F, T(M)**, QB 19, QB 09.
Medicago orbicularis (L.) Bartal, **R, M**, PB 99, *Medicago tornata* (L.) Miller, **R, M**, QB 19.
Medicago truncatula Gaertner, **O, T(M)**, QB 19, PB 99.
Medicago aculeata Gaertner, **O, T**, QB 19, QC 00, QB 39.
Medicago polymorpha L., **A, M(T)**, PC 90, QC 00, QB 29, QB 09, QC 10.
Medicago arabica (L.) Hudson, **O, T(M)**, QC 00, QB 19.
Medicago minima (L.) Bartal, **R, M**, QB 19.
Trifolium repens L., **A, M(T)**, QB 19, QB 09, QC 10, PB 99, PC 90, PB 89.
Trifolium glomeratum L., **A, T(M)**, QB 19, PB 89, QC 10, QB 09, PB 99, QC 00.
Trifolium suffocatum L., **R, M**, PB 99.
Trifolium resupinatum L., **R, M**, QB 29.
Trifolium tomentosum L., **A, M(T)**, QC 00, QB 09, PB 99, PC 90, QB 29.
Trifolium campestre Schreber, **A, M(T)**, QB 19, QB 29, PB 89, QC 10, PC 90.
Trifolium striatum L., **R, T**, QB 39.
Trifolium arvense L., **A, T(M)**, QB 29, QB 09, QB 19, PB 99, QB 17.
Trifolium bocconeii Sari, **Vr, M**, QB 18.
Trifolium gemelum Pournet ex Willd., **R, T**, QB 19.
Trifolium ligusticum Balbis ex Loisel, **VR, T**, QC 00.
Trifolium scabrum L., **F, T(M)**, PB 99, QB 29.
Trifolium stellatum L., **A, T(M)**, PC 90, QC 00, QB 19, QB 09, QC 10, QC 00, PB 99, PC 80.
Trifolium pratense L., **F, M(T)**, PB 99, QB 29, QB 09.
Trifolium lappaceum L., **R, T**, QB 00.
Trifolium cherleri L., **O, T(M)**, QB 09, QB 29.
Trifolium angustifolium L., **A, T(M)**, QB 19, QC 10, QB 19, QB 29, QC 00, PB 89.
Trifolium subterraneum L., **F, T(M)**, QB 18, QC 10, QB 19, PC 90.
Dorycnium rectum (L.) Ser., **O, M**, QB 29, PB 89, QB 09, PB 99.
Dorycnium pentaphyllum Scop., **R, M**, QB 29.
Lotus uliginosus Schkubr., **F, M(T)**, PB 99, QB 29, QB 19, QB 09, PC 80.
Lotus castellanus Boiss. & Reuter, **F, T(M)**,

- QB 28, PB 88, QC 10, QB 38, PB 58.
Lotus parviflorus Desf., F, T(M), PB 50, PB 81, PC 90, PC 10, QB 39, PC 00.
Lotus conimbricensis Brot., O, M(T), QC 00, QB 17, PC 90.
Anthyllis gerardi L., F, M(T), QB 19, QB 29, QC 10, PB 99, QB 29, PC 90, QB 09.
Anthyllis vulneraria L., F, M(T), QB 09, QC 00, QB 09, PB 99.
Anthyllis lotoides L., F, M(T), PC 90, PB 99, PC 70, QB 29, QC 10.
Anthyllis cornicina L., Vr, M, QB 29.
Ornithopus compressus L., A, M(T), QC 10, PB 89, QC 00, QB 29, QB 09, PB 99, PC 90, PC 81.
Ornithopus pinnatus (Miller) Druce, O, M, QC 00, PB 89.
Coronilla juncea L., O, M(T), QB 19, QB 29.
Coronilla valentina L. subsp. *glauca* (L.) Batt., R, M, PC 90, QB 09.
Coronilla repanda (Poiret) Guss. subsp. *dura* (Cav.) Coutinho, F, M(T), QB 29, QB 09, PB 89, PC 10, PC 81.
Hippocrepis scabra DC., R, M, QB 09, QB 29.
Scorpiurus muricatus L., F, M(T), QB 19, QB 29, QC 00, QB 19, PB 99.
Scorpiurus sulcatus L., R, M, QB 19.
Scorpiurus vermiculatus L., F, T(M), QB 19, QB 09, PC 90, QB 28.

OXALIDACEAE

- Oxalis corniculata* L., F, M(T), QC 00, QB 09, PC 90, PB 99.
Oxalis latifolia Kunth, R, M, QC 00, QB 09.
Oxalis pes-caprae L., F, M(T), QB 28, QB 09, QB 29.

GERANIACEAE

- Geranium columbinum* L., R, M, PB 89.
Geranium rotundifolium L., F, T(M), QC 00, QB 29, QB 09, QB 28, QB 18, QB 39, PB 89.
Geranium molle L., A, M(T), QB 09, PB 99, QC 00, PC 70.
Geranium dissectum L., F, M(T), QB 29, QC 00, QB 19, QB 09, PB 58.
Geranium lucidum L., F, M(T), QB 29, QC 00, QB 09, QB 19, PB 99.
Geranium robertianum L., O, M, QB 09, PB 99.
Geranium purpureum Vill., A, M(T), QB 09, QB 19, QC 10, QC 00, PC 81, PC 80, PC 90.
Erodium malacoides (L.) L'Hér., R, M, QC 00.
Erodium botrys (Cav.) Bertol., F, M(T), QB 17, QB 29, QB 09, QB 38, QB 27, QB 19.
Erodium cicutarium (L.) L'Hér., O, T(M), QB 39, QC 00, QB 09, QB 18.
Erodium moschatum (L.) L'Hér., F, M(T), QB 18, QC 00, QB 09, QB 39, QB 29.

LINACEAE

- Linum tenue* Desf., F, M(T), QB 09, QB 19, PB 99, QB 29.
Linum strictum L., O, T(M), PB 99, QB 29, QB 19.
Linum bienne Miller, A, T(M), QB 19, PB 99, QC 10, QC 00.
Linum trigynum L., O, M(T), QB 29, QB 09, PB 58.
Radiola linoides Roth, O, M(T), QB 09, QC 10, QB 29, PB 59, PB 88.

EUPHORBIACEAE

- Securinega tinctoria* (L.) Roth., O, T, PB 99, QB 39.
Mercurialis annua L., A, T(M), QB 29.
Euphorbia chamaesyce L., O, T(M), QB 29, PC 50, PC 60.
Euphorbia pubescens Vahl, F, M, PC 90, QB 19, QB 09.
Euphorbia helioscopia L., F, M(T), QB 29, QB 09, QB 39, PC 90, PB 89.
Euphorbia exigua L., A, T(M), PC 90, PB 99, QB 09, PB 89, QB 19, QB 29, PC 70.
Euphorbia falcata L., R, M, QB 29, QB 39.
Euphorbia peplus L., F, M(T), QB 18, PC 90, QB 19, QB 28, QB 09.
Euphorbia segetalis L., O, M, QB 19, QB 09.
Euphorbia pinea L., O, M, QB 19, QB 29.
Euphorbia nicaensis All., F, M, PC 10, QB 19, QB 09.
Euphorbia esula L., O, M, QB 09, QB 19, QB 39.
Euphorbia amaygdaloides L., O, M, QB 09.
Euphorbia characias L., F, M(T), PB 99, PC 00, QB 09, PC 90, QB 29.

RUTACEAE

- Ruta montana* (L.) L., F, T(M), QC 10, QB 19, PC 90, QB 29, PB 99.
Ruta angustifolia Pers., O, T(M), QB 09, QB 19, PB 99.
Ruta chapelensis L., R, M(T), QB 09.

POLYGALACEAE

- Polygala microphylla* L., R, M, QB 09.
Polygala monspeliaca L., R, M, QB 29.

ANACARDIACEAE

- Rhus coriaria* L., R, M, QB 09, QB 19.
Pistacia terebinthus L., F, M(T), QB 09, QC 00, PB 99, QB 29.
Pistacia lentiscus L., A, T, QB 09, PC 70.

RHAMNACEAE

- Rhamnus alaternus* L., F, M(T), QB 09, PB 99, PC 70, QC 00.
Rhamnus lycioides L. subsp. *oleoides* (L.) Jahandiez & Maire, O, T, QB 09, QB 19, QB 29.

Frangula alnus Miller, R, M, QB 09.

MALVACEAE

Malva hispanica L., A, T(M), PB 99, PC 80, PB 58, QB 19, PC 81.

Malva tournefortiana L., O, M, QC 00.

Malva sylvestris L., A, M(T), QB 29, QB 19, PB 99, QC 00.

Malva nicaensis All., R, M, QB 19.

Lavatera cretica L., F, M(T), PC 80, QB 09, PB 99.

Alcea pallida (Willd.) Waldst. & Kit., O, M, QB 19, QB 09, QC 00.

THYMELAEACEAE

Daphne gnidium L., A, T(M), QB 09, PB 89, PB 99, QC 00, PB 59.

Thymelaea villosa (L.) Endl., F, M(T), QB 09, PB 99, QB 19, PB 59, PC 90.

GUTTIFERAE

Hypericum humifusum L., O, M(T), QB 29, QC 00, PB 89, PC 81, PC 50.

Hypericum perforatum L., A, T(M), QB 19, PB 99, QB 29, QB 09, QC 00, QC 10.

Hypericum undulatum Schousboe ex Willd., F, M(T), QC 00, QB 09, PB 99, QB 29, PB 89, PB 58.

Viola odorata L., F, M(T), QB 39, QB 09, QB 19.

Viola riviniana Reichenb., F, M, QB 09, PC 00, PB 99, QC 00, QB 19.

Viola arvensis Murray, F, T(M), QB 19, PB 89, QB 19, QB 09, QC 00, PC 00.

Viola kitaibeliana Schultes, Vr, T, QB 39.

Viola demetria Prolongo ex Boiss., R, M, QB 09.

CISTACEAE

Cistus crispus L., O, T(M), PB 99, QB 29, QC 10, QB 09, QB 19, PC 81.

Cistus albidus L., O, T(M), QB 09, QB 19, QB 29.

Cistus monspeliensis L., A, T, QB 28, PB 99, QB 09, PB 89.

Cistus psilosepalus Sweet, Vr, T, PB 99.

Cistus salvifolius L., A, T(M), QB 09, QC 00, QB 29, PB 99, QB 19.

Cistus populifolius L., F, M(T), PB 99, QB 09, QB 29, PC 81, QC 00, QB 19.

Cistus ladanifer L., A, T(M), PB 99, QC 00, QB 09, QB 29, PC 81.

Halimium ocymoides (Lam.) Willk., F, M(T), QB 19, PB 99, QC 00, QB 09, QC 10, PC 81, PB 88.

Halimium lasianthum (Lam.) Spach., R, M, QB 09.

Halimium halimifolium (L.) Willk. R, T, QB 39.

Halimium viscosum (Willk.) P. Silva, R, T, QB 38, QB 19, PC 70, QB 29.

Tuberaria lignosa (Sweet) Samp., F, M, QC 00, QB 29, QB 09, PC 80.

Tuberaria guttata (L.) Fourr., A, T(M), QB 19, QB 09, QB 29, QC 00, PC 81.

Tuberaria macrosepala (Cosson) Willk. Vr, T(M), QB 19, QB 29.

Helianthemum ledifolium (L.) Miller, R, T(M), QB 09, PB 99.

Helianthemum salicifolium (L.) Miller, O, M, QB 09.

Helianthemum sanguineum (Lag.) Lag. ex Dunal, R, T, QB 37.

Helianthemum aegyptiacum (L.) Mill., O, T(M), QB 28, QB 39, QB 29.

TAMARICACEAE

Tamarix gallica L., R, T, PC 50.

CUCURBITACEAE

Bryonia cretica L. subsp. *dioica* (Jacq.) Tutin, F, T(M), PC 81, PC 70, QB 39, QC 00, QB 29, QC 10.

LYTHRACEAE

Lythrum salicaria L., O, M(T), QB 19, PC 90, QB 29, PC 90, QB 09, QC 00.

Lythrum junceum Banks. & Solander, F, T(M), QB 29, QB 09, QB 39, PB 89, QB 19.

Lythrum hisspifolia L., O, M(T), QB 29, PB 87, QB 09, QC 00, PC 81, QB 19.

Lythrum borysthenicum (Schränk) Litv., R, T, PB 87.

Lythrum portula (L.) D.A. Webb, R, T, PB 59, PC 81, PC 60.

MYRTACEAE

Myrtus communis L., F, T(M), QB 39, QB 38, QB 18, PB 99, QC 00, QB 09.

ONAGRACEAE

Epilobium hirsutum L., F, M(T), PC 90, QB 19, QC 00, PC 60.

Epilobium parviflorum Schreber, O, M(T), QB 09, PB 99.

Epilobium tetragonum L., O, T(M), PC 81, PB 88, QC 00.

Epilobium tetragonum L., subsp. *tournefortii* (Michalet) Lévêillé, O, T, QB 29.

Epilobium obscurum Schreber, R, M, QB 09.

HALORAGACEAE

Myriophyllum spicatum L., R, T, QC 60, QB 39.

ARALIACEAE

Hedera helix L., O, M(T), QB 29, PB 99, QB 09, PC 90.

UMBELLIFERAE

- Eryngium campestre* L., F, T(M), QB 39, QB 29, PC 50, PC 70, PB 99, PC 90, QB 19, PC 00.
- Anthriscus caucalis* Bieb., R, M, QB 09.
- Scandix pecten-veneris* L., F, M(T), PB 99, QC 00, QB 18, QB 09, QB 19, PB 89.
- Smyrniolobos olosatrum* L., O, M(T), PC 70, PC 80, QB 39, PB 89, PC 00.
- Conopodium majus* (Gouan) Loret., subsp. *ramossum* (Costa) S.: Silvestre, F, M(T), QB 09, PB 99, PC 81, QB 39, QC 10, PB 89.
- Pimpinella villosa* Schousboe, O, M(T), PB 99, QB 29, PC 90, QB 19.
- Oenanthe crocata* L., O, M(T), PC 81, QB 29, QB 19, QB 09, PB 99, PB 58.
- Foeniculum vulgare* Miller subsp. *piperitum* (Ucria) Coutinho, A, T(M), PB 99, QC 10, QB 19, QB 09, PC 60, QB 29, PC 80.
- Conium maculatum* L., R, T(M), QB 29, PC 00.
- Magydaris panacifolia* (Vahl) Lange, O, M(T), PB 99, QB 19, PC 80.
- Bupleurum fruticosum* L., O, M, QB 19, QB 09.
- Bupleurum gibraltarium* Lam., R, M, QB 19.
- Apium nodiflorum* (L.) Lag., O, M(T), PC 00, QB 29, QC 10, QB 09, PC 70, QB 39, PC 81.
- Ridolfia segetum* Moris, R, M, QB 19.
- Ferula communis* L., O, M(T), QB 39, PB 99, QB 09.
- Ferulago brachyloba* Boiss., Vr, T(M), PB 99.
- Elaeoselinum foetidum* (L.) Boiss., F, M(T), PC 90, PB 99, QB 09, QB 19, QC 00.
- Elaeoselinum gummiferum* (Desf.) Tutin, R, M, QB 19.
- Thapsia villosa* L., A, M(T), QB 09, QC 10, QB 19, QB 29, QC 00, PC 81.
- Thapsia maxima* Miller, F, M, QB 29, PB 89, QB 09, PC 80.
- Thapsia garganica* L., R, T(M), PC 70, QB 17.
- Torilis nodosa* (L.) Gaertner, O, M(T), QB 09, QB 29, QC 10, PB 99.
- Torilis arvensis* (Hudson) Link, A, M(T), QB 09, QC 10, QB 09, PB 99, QC 00.
- Orlaya kochii* Heywood, O, M(T), QB 19, QB 09, PB 99, PB 89.
- Daucus durieua* Lange, R, T, QB 19.
- Daucus crinitus* Desf., F, M(T), QB 19, QB 09, PB 99, QB 29, QB 18, QB 39.
- Daucus carota* L., F, T(M), QB 19, PB 99, QB 09, QB 29, QC 10, PC 70.

ERICACEAE

- Erica andevalensis* Cabezudo & Rivera, R, M(T), QB 07, QB 08, PB 88, QB 17, PB 66, PB 78.
- Erica umbellata* L., F, M, QB 29, PC 00, QB 09, QB 19, QC 10.

- Erica australis* L., A, M(T), QC 10, QB 19, QB 29, PC 00, QB 18, PB 58.
- Erica arborea* L., F, M(T), QC 19, QB 09, QB 18, PB 89, QB 19.
- Erica lusitanica* Rudolphi, O, M, PB 89, QB 18, QB 27, QC 10, QB 38, QB 39, PB 99.
- Erica scoparia* L., F, M(T), PB 99, QB 18, PB 38, QB 29, QB 17, QB 19.
- Calluna vulgaris* (L.) Hull, R, T, PB 66.
- Arbutus unedo* L., F, M, QB 19, QB 09, QC 00, PB 87.

PRIMULACEAE

- Primula vulgaris* Hudson, O, M, QB 09, QC 00, PC 90, PB 99.
- Asterolinon linum-stellatum* (L.) Duby, O, T(M), QB 09, PC 81.
- Anagallis tenella* (L.) L., R, M, PC 90, PB 84, PC 90, QC 10.
- Anagallis arvensis* L., F, M(T), PC 90, QB 19, PB 99, QC 10, QC 00, QB 29, QB 09.
- Anagallis monelli* L., F, T(M), QB 29, QB 09, PB 99, PC 90.
- Samolus valerandi* L., R, M, QB 09, QB 19, PB 99.

PLUMBAGINACEAE

- Armeria littoralis* Willd., O, T(M), QB 39, PB 99.
- Limonium sinuatum* (L.) Miller, R, T, PB 87.

OLEACEAE

- Jasminum fruticans* L., R, M, QB 09.
- Fraxinus excelsior* L., O, M(T), PB 99, PC 00, QB 39.
- Olea europaea* L., var. *sylvestris* Brot., F, T(M), PB 99, QB 39, PC 70.
- Phillyrea angustifolia* L., F, T(M), QB 09, QB 19, QC 10, PB 99, PC 90.
- Phillyrea latifolia* L., F, M(T), QB 19, QC 00, QB 09.

GENCIANACEAE

- Blackstonia perfoliata* (L.) Hudson, R, T(M), QB 29, PB 87.
- Centaurium erythraea* Rafn, F, M(T), QB 19, PB 99, QB 09, PC 81.
- Centaurium maritimum* (L.) Fritsch, R, M(T), PB 89, QB 29, PC 58.

APOCYNACEAE

- Nerium oleander* L., O, T(M), QB 09, PC 80, PB 99, QB 19, QB 18, PB 89.
- Vinca difformis* Pourret, O, M(T), QB 09, QB 39, PC 70, PB 99.
- Vinca major* L., O, M(T), QB 19, PB 99.

ASCLEPIADACEAE

- Vincetoxicum nigrum* (L.) Moench., O, M, QB 09, PB 99.

RUBIACEAE

- Sherardia arvensis* L., **A, M(T)**, QC 00, QB 09, QC 10, PB 89, QB 19.
Crucianella angustifolia L., **F, M(T)**, PC 81, QC 00, PB 99, QB 19, QB 29.
Galium aparine L., **F, M(T)**, QB 09, QB 29, QC 00.
Galium tricoratum Dandy **R, M**, QC 00.
Galium verrucosum Hudson, **F, M(T)**, PB 99, QB 39, QB 19, QC 00.
Galium parisiense L., **F, M(T)**, QB 29, PC 81, QB 19.
Galium murale (L.) All., **R, M**, QB 09, QB 29, QB 19.
Galium broterianum Boiss. & Reuter, **R, M**, QC 00.
Galium uliginosum L., **R, M**, QB 09.
Galium verum L., **O, M**, QB 19.
Galium mollugo L., **R, M**, QB 19.
Galium spurium L., **R, M**, QB 19.
Rubia peregrina L., **F, M(T)**, QB 09, PB 99, QC 10, QC 00, QB 29.

CONVOLVULUS

- Cuscuta epithymum* (L.) L., **O, M(T)**, PB 99, PB 89, QB 19.
Cuscuta planiflora Ten., **R, M**, QB 19.
Calystegia sepium (L.) R. Br., **R, M**, QC 00, QB 09.
Convolvulus siculus L., **R, M(T)**, QB 19, PC 81, QC 00, QB 09, PB 99.
Convolvulus althaeoides L., **F, M(T)**, QB 29, QB 09, PC 90, PB 99.

BORAGINACEAE

- Heliotropium europaeum* L., **F, M(T)**, QB 19, QB 29.
Neostema apulum (L.) J.M. Johnston, **R, T(M)**, PB 99, QB 29.
Cerithe major L., **R, M**, QB 19.
Echium plantagineum L., **A, M(T)**, QB 29, QC 00, QB 17, QB 09, QC 10, PB 99, QB 19.
Echium creticum L., **R, M**, QB 09.
Echium tuberculatum Hoff. & Link, **F, M(T)**, QB 29, QB 09, QB 19.
Echium rosulatum Lange, **F, M(T)**, PB 99, QB 19, PC 00, PC 10.
Nonea vesicaria (L.) Reichenb., **O, T**, QB 39.
Anchusa azurea Miller, **F, M(T)**, PB 99, QB 19, QB 29, QB 09, QC 00, PC 99.
Anchusa undulata L., **F, M(T)**, QB 19, QB 09, QC 00, PB 99.
Anchusa undulata L., subsp. *viciosoi* Valdés, **O, M(T)**, QB 19, PB 99.
Borago officinalis L., **O, M(T)**, QB 09, QB 29, QC 00, PC 90.
Myosotis debilis Pomel, **R, M**, QB 09, QB 19.
Myosotis secunda A. Murray, **O, M(T)**, PC 81, QC 00, PB 89.

- Myosotis welwitschii* Boiss. & Reuter, **R, M**, PB 99.
Myosotis discolor Pers., **O, M(T)**, PC 80, QC 00, QB 09.
Myosotis sicula Guss., **R, T(M)**, QB 29.
Myosotis ramosissima Rochel, **F, M(T)**, QC 00, QB 09, QB 29, PC 70, PB 99.
Omphalodes linifolia (L.) Moench, **R, M**, QB 09.
Cynoglossum creticum Miller, **F, M(T)**, QB 09, PB 99, QC 00, PC 90.

VERBENACEAE

- Verbena officinalis* L., **F, M(T)**, QB 19, PB 99, QB 09.
Verbena supina L., **R, M**, QB 19.

CALLITRICACEAE

- Callitriche stagnalis* Scop., **O, M(T)**, PB 99, PC 81.
Callitriche obtusangula Gall, **R, T(M)**, PC 81.
Callitriche platycarpa Kutz., **R, T(M)**, QC 00.
Callitriche palustris L., **F, M(T)**, QB 09, QB 39, QB 19, PC 90.

LABIATAE

- Ajuga iva* (L.) Schreber, **O, T(M)**, QB 29, PB 99, QB 19.
Teucrium fruticans L., **F, M(T)**, QB 09, QB 19, PB 99.
Teucrium capitatum (L.) Argangeli, **O, M**, QB 19, QB 29.
Teucrium scorodonia L., **F, M**, PB 99, QB 09, QC 00, PB 89.
Teucrium polium L., **O, M(T)**, PC 90, QB 29.
Marrubium vulgare L., **F, M(T)**, QB 09, QB 19, QB 29, QC 10, PB 99, QC 00.
Sideritis arborescens Salzm. ex Benth., **O, M(T)**, QB 29, QB 19.
Phlomis purpurea L., **F, T(M)**, PB 99, QC 00, QB 09, QC 10, QB 29, QB 39.
Phlomis lychnitis L., **R, T**, PB 99.
Lamium amplexicaule L., **A, T(M)**, QB 29, PC 00, QB 09, QB 39, QC 00, PC 90.
Lamium purpureum L., **R, M**, QC 00, PC 90.
Stachys arvensis (L.) L., **F, T(M)**, QB 09, PC 90, QB 19, QB 38, QC 00.
Stachys annua (L.) L., **R, M(T)**, QB 09.
Stachys germanica L., **F, M(T)**, PB 99, QB 39, PC 80, QB 29, QB 19.
Nepeta multibracteata Desf., **R, T(M)**, PC 81, PB 56.
Prunella vulgaris L., **F, M**, QC 10, QB 09, QC 00, PC 80, PC 81, PB 99.
Prunella laciniata (L.) L., **R, M**, PC 90, QB 09.
Melisa officinalis L., **F, M**, QB 19, PB 99, PC 80, QB 09.
Calamintha sylvatica Bromf. subsp. *ascendens* (Jordan) Ball, **A, M(T)**, QB 09, QB 19, PC 90, PB 99.

- Clinopodium vulgare* L., F, M, QB 09, QB 29, QC 10, PB 99, PC 81.
- Micromeria graeca* (L.) Reichenb., F, M(T), QB 09, QB 19, QB 29, PB 99.
- Origanum virens* Hoff. & Link, F, M(T), QB 19, QC 00, PC 90, PB 99, QB 09, QB 29.
- Thymus mastichina* L., F, T(M), QB 29, QB 19, QB 09, PB 99.
- Mentha pulegium* L., O, T(M), PB 99, PC 90, QB 29, PC 90, PC 60, PB 59.
- Mentha spicata* L., O, M, PC 90.
- Mentha suaveolens* Ehrh., A, M(T), QB 09, QB 90, QB 19, PB 89, PC 90.
- Rosmarinus officinalis* L., F, T(M), QB 18, QB 39, QB 09, QB 29, QB 28.
- Lavandula stoechas* L. subsp. *sampaina* Rozeira, F, T(M), QB 39, QC 10, QB 18, QB 09, QB 29, PB 99, QC 00.
- Lavandula stoechas* L. subsp. *luisieri* (Rozeira) Rozeira, F, T(M), QB 19, PC 81, PC 90, QB 09, QC 00, QB 28.
- Lavandula viridis* L'Hér., R, T(M), QB 19, PB 58.
- Salvia verbenaca* L., A, T(M), QB 19, QB 29, QB 18, QC 00, PB 99, QB 09, QB 38.
- SOLANACEAE
- Hyoscyamus albus* L., R, T, QB 39.
- Solanum nigrum* L., F, T(M), QB 39, PC 90, QB 29, QB 19, PB 99.
- Solanum dulcamara* L., R, M, PC 90, PB 89.
- Datura stramonium* L., O, T(M), PC 90, QB 29, PC 70, PC 80, PB 88, QB 19.
- SCROPHULARIACEAE
- Verbascum sinuatum* L., F, M(T), QB 19, QB 09, PB 99, QB 29, PB 89, QB 39.
- Verbascum virgatum* Stokes, F, T(M), QC 10, QC 00, QB 09, PB 89, QB 19, PB 99.
- Scrophularia canina* L., F, M(T), QB 29, PB 89, QB 19, QB 09, PC 80.
- Scrophularia scorodonia* L., O, M, PB 99, QB 29, QC 10, QB 09.
- Scrophularia auriculata* L., O, M(T), QC 00, PB 99, QB 29, QB 39, QB 09.
- Anarrhinum bellidifolium* (L.) Willd., A, T(M), PB 99, QC 10, PB 89, QB 29, PC 81.
- Antirrhinum neonanthum* Hoff. & Link. subsp. *onubensis* Fernandez Casas, O, M, QB 09, QB 29, PB 99.
- Misopates orontium* (L.) Rafin., A, M(T), QB 19, QB 28, QC 00, QB 00, PB 99.
- Chaenorhinum villosum* (L.) Lange, O, M, QB 09, PB 99.
- Linaria spartea* (L.) Willd., R, T(M), QB 28, QC 10.
- Linaria oblongifolia* (Boiss.) Boiss. & Reuter subsp. *hanseleri* Valdés, Vr, M, QB 09.
- Linaria onubensis* Pau, Vr, T, QB 17.
- Linaria saxatilis* (L.) Chaz. R, M, QC 00.
- Cymbalaria muralis* P. Gaertner, O, M, PC 90, QC 00, QB 09.
- Kickxia cirrhosa* (L.) Fritsch, Vr, T, PB 88.
- Kickxia elatine* (L.) Dumort., F, M(T), QB 19, QC 00, PB 89, PC 90.
- Digitalis purpurea* L. subsp. *mariana* (Boiss.) R. Goday, F, M, QB 09, QB 19, QC 10, PB 99, PC 81.
- Veronica anagallis-aquatica* L., O, M(T), QB 29, PB 99, QB 19, PC 80, PC 81.
- Veronica persica* Poirlet, F, M(T), QC 00, PB 99, QB 29, QB 09.
- Veronica hederifolia* L., F, M(T), QB 09, QB 39, PC 80, PC 90, PC 00.
- Veronica arvensis* L., O, M(T), QB 09, PC 90, QB 29.
- Parentucelia latifolia* (L.) Caruel, O, M(T), QB 19, QB 29, QB 09, PC 70, PC 80.
- Parentucelia viscosa* (L.) Caruel, O, T(M), QC 00, QB 29, QB 39.
- Bellardia trixago* (L.) All., O, M, QB 29, QB 09, PB 89.
- ACANTHACEAE
- Acanthus mollis* L., O, M(T), QB 09, QB 39, PC 80, PB 99.
- OROBANCHACEAE
- Orobanche crenata* Forskal, O, M, QB 09, PB 99.
- Orobanche alba* Willd., Vr, M, QB 19.
- Orobanche ramosa* L., O, M, PB 89, QB 19, QB 09.
- Orobanche foetida* Poirlet, R, M, QB 19.
- Orobanche rapum-genistae* Thuill., R, M, PB 99.
- Orobanche sanguinea* C. Presl, O, M, PB 89, PC 90.
- LENTIBULARIACEAE
- Pinguicula lusitanica* L., R, T, PB 78.
- PLANTAGINACEAE
- Plantago major* L., F, M(T), PB 99, PC 90, QC 10, PB 89, QB 19, QB 09.
- Plantago coronopus* L., F, T(M), QB 29, QB 28, QB 19, QB 09, QC 10, PB 99.
- Plantago serraria* L., R, M, QB 29.
- Plantago lanceolata* L., A, M(T), QB 19, QB 39, PB 99, QC 00, PC 90.
- Plantago lagopus* L., F, M(T), PB 99, QB 19, QB 29, QB 39, QC 00, QC 10, QB 09.
- Plantago bellardi* All., O, M(T), PB 99, QB 29.
- Plantago afra* L., A, T(M), QC 10, PB 99, QB 09, QB 29, PC 70, QB 19.
- CAPRIFOLIACEAE
- Sambucus nigra* L., O, M, PB 89, PC 90, PB 99, QB 09, QB 19.
- Viburnum tinus* L., F, M, PC 90, QC 00, QB 09, PB 99.

- Lonicera periclymenum* L., F, **M(T)**, QC 00, QC 10, QB 19, PB 99, QB 09, PB 88.
- Lonicera implexa* Aiton, F, **M(T)**, PC 90, QB 19, PB 99, QC 00.
- VALERIANACEAE
- Valerianella locusta* (L.) Laterrade, R, **M**, QC 00.
- Valerianella microcarpa* Desv., F, **M(T)**, QB 28, QB 29, PB 99.
- Valerianella carinata* Loisel., F, **M(T)**, QC 00, QB 18, QB 38, QB 19.
- Valerianella coronata* (L.) DC., O, **T(M)**, QB 18, QB 09, QB 19, QB 29, QC 00.
- Centhranthus calcitrapae* (L.) Dufresne, F, **M(T)**, QB 29, QB 09, QB 19, QC 10, QC 00.
- Centhranthus calcitrapae* (L.) Dufresne subsp. *trichocarpus* Richardson, R, **M**, QB 29.
- DIPSACACEAE
- Dipsacus comosus* Hoff. & Link, R, **M**, QC 00.
- Dipsacus fullonum* L., R, **T(M)**, QC 00, PC 60.
- Dipsacus sativus* (L.) Hinckeny, R, **M**, PB 99.
- Scabiosa atropurpurea* L., A, **M(T)**, QB 19, QB 09, PB 99, PC 70, QB 19.
- Scabiosa simplex* Desf. subsp. *dentata* (Jordan & Fourr.) Devesa, O, **M(T)**, PB 99, QB 09, QB 29, PC 90.
- CAMPANULACEAE
- Campanula primulifolia* Brot. O, **M**, QC 00, PB 89.
- Campanula erinus* L., F, **T(M)**, QB 09, QB 19, PB 99, PB 89, QC 10, QB 29.
- Campanula lusitanica* L., F, **M(T)**, QC 00, QB 09, PB 58, PC 81, PB 99.
- Campanula rapunculus* L., A, **M(T)**, QB 09, QB 19, PB 99.
- Legousia castellana* (Lange) Samp., R, **T(M)**, PB 79.
- Trachelium caeruleum* L., O, **M(T)**, QC 00, PC 90.
- Jasione montana* L., R, **T(M)**, QB 09, PB 58.
- Jasione montana* L. subsp. *echinata* (Boiss. & Reuter) R. Martínez, F, **M(T)**, PC 81, QB 19, PB 99, PB 88, QB 29, QB 28, QC 10.
- Lobelia urens* L., O, **M**, QC 00.
- Laurentia gasparrinii* (Tineo) Strobl, O, **T(M)**, PB 88, PB 59, QB 39.
- COMPOSITAE
- Bellis annua* L., A, **T(M)**, QB 28, QB 29, QB 18, QB 39.
- Bellis perennis* L., F, **M(T)**, QB 09, PC 90.
- Bellis sylvestris* Cyr., A, **M(T)**, QB 09, QC 00, QB 19, QB 18, PB 99, QB 39.
- Conyza canadensis* (L.) Cronq., O, **M(T)**, QB 09, QB 19.
- Conyza bonariensis* (L.) Cronq., O, **M(T)**, QB 19, QB 29.
- Conyza albida* Sprengel, O, **M(T)**, QC 00, QB 09, PB 59.
- Filago pyramidata* L., F, **M**, QB 19, QC 00, PC 80, QB 29, PB 99.
- Filago lutescens* Jordan, R, **M**, PB 89.
- Filago lutescens* Jordan subsp. *atlantica* Wagenitz, R, **M**, QB 19.
- Logfia gallica* (L.) Cosson & Germ., F, **T(M)**, QB 29, PC 81, QC 10, QB 19, QC 00, PB 99.
- Logfia arvensis* (L.) J. Holub, R, **M**, QB 29.
- Evax pygmaea* (L.) Brot., O, **T**, QB 17.
- Micropus supinus* L., R, **M**, QB 29.
- Gnaphalium luteum-album* L., R, **T**, QC 10.
- Helichrysum stoechas* (L.) Moench, F, **T(M)**, QC 10, QB 09, PB 99, QB 29, PB 58.
- Phagnalon saxatile* (L.) Cass., F, **M(T)**, QB 19, QB 09, PB 99, QC 00, PB 87, PB 58.
- Dittrichia viscosa* (L.) W. Greuter, F, **T(M)**, PB 99, QB 19, QB 29, QC 00.
- Pulicaria odora* (L.) Reichenb., F, **T(M)**, QB 09, PB 99, QB 28, PC 81, QB 29.
- Pulicaria dysenterica* (L.) Bernh., O, **M**, QB 09, QC 00.
- Pulicaria paludosa* Link, F, **M(T)**, QB 19, PB 88, QB 39, PB 89, PB 59, PB 99, QB 29, PC 90.
- Pallenis spinosa* (L.) Cass., O, **T(M)**, QB 09, PB 99, PC 80, QB 29.
- Asteriscus aquaticus* (L.) Less., R, **M**, QB 29.
- Bidens aurea* (Aiton) Sherff, R, **M**, QC 00.
- Xanthium spinosum* L., O, **T(M)**, QB 09, PC 50, QB 29, QB 19.
- Anthemis arvensis* L., F, **T(M)**, QB 29, QB 09, QB 19, QC 10, PB 99.
- Anthemis cotula* L., F, **M(T)**, QB 09, QB 19, QB 29, QC 00.
- Achillea ageratum* L., F, **T(M)**, PB 99, PC 90, QB 19, QC 10, QB 29.
- Chamaemelum nobile* (L.) All., R, **T(M)**, PB 99, PB 58.
- Chamaemelum mixtum* (L.) All., F, **T(M)**, PC 81, QC 00, QB 29, PB 99, QB 19, QB 09, PB 88.
- Chamaemelum fuscatum* (Brot.) Vasc., O, **T(M)**, QB 29, QB 18, QB 28, QB 39.
- Anacyclus radiatus* Loisel., R, **M**, QB 19.
- Chrysanthemum segetum* L., F, **M**, QC 00, QB 09, PB 99.
- Tanacetum parthenium* (L.) Schultz Bip., R, **M**, QB 09.
- Daveana anthemoides* Mariz, Vr, **T**, QB 29.
- Coleostephus myconis* (L.) Reichenb., A, **M(T)**, QB 09, QC 00, QB 29, QB 19, PB 99.
- Leucanthemum vulgare* Lam., O, **M**, PB 99, QC 10, QC 00, QB 09.
- Gymnostyles stolonifera* (Brot.) Tutin, R, **M**, QB 09.

- Doronicum plantagineum* L., O, M, QB 09, QB 29.
Senecio sylvaticus L., R, T, PC 81.
Senecio lividus L., F, M, QB 19, QB 09, QC 00, QC 10, PB 58.
Senecio jacobaea L., F, T(M), QB 09, PB 99, QB 19.
Senecio minutus (Cav.) DC., R, M, QB 19.
Senecio vulgaris L., A, T(M), QC 10, QB 28, PB 89, QB 38, QB 09, QB 18.
Calendula officinalis L., R, M, QB 09.
Calendula arvensis L., A, T(M), QC 00, QB 09, PB 99.
Carlina racemosa L., O, (T), QB 39, QB 09, PB 99.
Carlina corymbosa L., F, T(M), QB 29, QB 19, PB 99, QB 39, PC 90.
Atractylis gummifera L., O, T(M), QB 29, PC 70, PB 99.
Atractylis cancellata L., R, T, PB 99, QB 39.
Arctium minus Bernh., R, M, QB 19, QB 09.
Carduus tenuiflorus Curtis, F, T(M), QB 09, QB 29, QB 19, QC 00, QC 10, PC 81.
Cirsium vulgare (Savi) Ten., R, M, QC 00.
Picnoman acarna (L.) Cass., O, T(M), QB 29, QB 09, PC 90.
Galactites tomentosa Moench, F, T(M), QC 10, PB 99, QB 09, PC 81.
Cynara algarbiensis Cosson ex Mariz, O, T(M), PB 54, PB 99.
Cynara humilis L., F, M(T), QB 29, PB 99, PB 89.
Sylibum marianum (L.) Gaertner, O, M(T), QB 19, QB 09, QC 00, QB 29.
Leuzea conifera (L.) DC., O, M, QB 09, QB 19, QB 29.
Mantisalca salmantica (L.) Briq. & Cavillier, A, M(T), PC 90, QB 29, PB 99, QB 19, QB 09.
Centaurea ornata Willd., F, M(T), QB 09, PB 99, QB 19, QB 29, QB 39.
Centaurea melitensis L., F, M(T), QB 19, QB 29.
Centaurea alba L. subsp. *tartesiana* Talavera, A, M(T), PB 99, QB 19, QC 00, QC 10.
Centaurea pullata L., R, T(M), QB 39, QB 19.
Centaurea calcitrapa L., F, T(M), QB 29, PC 90, PB 99, QB 19, QB 09.
Crupina vulgaris Cass., O, T(M), QB 29, QB 09, QB 19.
Carthamus lanatus L., A, T(M), QB 19, QB 09, QB 29.
Scolymus hispanicus L., F, T(M), PC 90, QB 19, PC 50, QB 29, QB 09.
Scolymus maculatus L., Vr, T(M), PC 50.
Cichorium intybus L., O, M(T), QB 19.
Cichorium endivia L., O, M(T), PB 99, QB 09, QB 29, QB 19, QB 39.
Tolpis barbata (L.) Gaertner, F, M(T), QB 29, QC 10, PC 90, PC 81.
Tolpis umbellata Bertol, R, T(M), PB 99.
Hedypnois cretica (L.) Dum-Courset, A, M(T), QB 19, QB 29, QC 00, QB 39, PB 99.
Hypochoeris glabra L., F, M(T), QC 00, QB 09, QB 38, QB 39, PB 99, PB 58.
Hypochoeris radicata L., A, M(T), QC 00, PB 89, QB 09, PC 81, QB 29.
Rhagadiolus stellatus (L.) Gaertner, F, M(T), QB 09, PC 90, QC 00, PB 89, PC 70.
Urospermum picroides (L.) Schmidt, F, M(T), QC 00, QB 09, QC 10, QB 29.
Leontodon tuberosus L., A, M(T), QC 00, QB 18, QB 28, QB 19, QB 09, QB 39, PC 90.
Leontodon taraxacoides (Will.) MÉRAT subsp. *longirostris* Finch & P.D. Sell, F, M(T), QB 09, QC 00, QC 10, PB 59, PC 81.
Leontodon salzmannii (Schultz Bip.) Ball, O, T(M), QB 29, QB 38, QB 19.
Picris echioides L., R, M(T), PC 90, QC 00, QB 09.
Picris comosa (Boiss.) Jackson subsp. *lusitánica* (Schlecht.) Talavera, O, M(T), PB 99, PC 80, PB 90, QB 29.
Scorzonera graminifolia L., F, M(T), QB 19, PB 99, PC 80, QB 29.
Scorzonera crispatula (Boiss.) Boiss., R, T, PB 99.
Scorzonera laciniata L., R, M, QB 29.
Tragopogon porrifolius L., R, M, PC 90, QC 00.
Reichardia intermedia (Schultz Bip.) Coutinho, F, M(T), PB 99, QB 19, QB 09, QC 00, QB 28.
Aetheorrhiza bulbosa (L.) Cass., F, M, QB 09, QB 29.
Sonchus oleraceus L., A, M(T), PB 59, QB 18, QB 19, QB 38, QB 09, QB 39.
Sonchus asper (L.) Hill, O, T(M), PC 60, PB 99, QB 29, QC 00, PB 59.
Sonchus tenerimus L., O, M, QB 09, QB 19, PB 99.
Lactuca serriola L., F, M, QB 19, QB 29, PC 80.
Lactuca tenerrima Pourret, R, M, QB 09.
Lactuca viminea (L.) J. & C. Presl., O, M(T), QB 19, PB 88, PC 90, QB 09.
Lactuca virosa L., F, T(M), QB 09, PB 99, QB 29, QB 19, PB 59, PC 90.
Taraxacum officinale Weber, O, M, QB 09.
Condrilla juncea L., F, T(M), QB 29, QB 09, PC 60.
Lapsana communis L., O, M, PB 99, QB 99, QB 09, QC 00, PB 89.
Crepis capillaris (L.) Wallr., F, M(T), QB 19, PB 99, QC 10, QB 09, PB 59, QB 29, PC 70.
Crepis vesicaria L., F, M(T), QB 09, QB 19, QC 00, PB 99.
Crepis foetida L., F, M, QB 19, QB 29, QB 09, PC 90.
Andryala integrifolia L., F, T(M), QB 29, QB 09, QC 00, PB 99, PB 87.

Andryala laxiflora DC., O, T(M), QB 29.

MONOCOTILEDONEAS

ALISMATACEAE

Baldellia ranunculoides (L.) Parl., O, T, PB 87.

POTAMOGETONACEAE

Potamogeton oblongus Viv., R, T, QB 39.

Potamogeton nodosus Poir., R, T(M), PC 50.

LILIACEAE

Allium ampeloprasum L., F, M(T), QB 09, QB 29, QC 10, PC 90, QC 00, PB 99.

Allium sphaerocephalum L., R, M, QB 09.

Allium guttatum Steven subsp. *sardoum* (Moris) Stearn, Vr, T(M), QB 39.

Allium paniculatum L., R, T(M), PB 99, PC 90.

Allium pallens L., O, T(M), PB 59, QB 19, QC 10, QB 29.

Allium roseum L., F, M(T), QB 29, PB 89, QC 00.

Allium chamaemoly L., R, T, PB 99, PC 90.

Allium massaessylum Batt. & Trabut, F, M(T), PB 99, QB 09, PC 90, PB 89, QC 00.

Allium neapolitanum Cyr., R, M, QB 29, QB 09.

Colchium autumnale L., R, T(M), QB 01,

Merendera filifolia Camb., O, T(M), QB 39, QB 18, QB 17, QB 08, QB 38.

Smilax aspera L., F, T(M), PB 99, QB 09, QB 19, QB 29, PC 60.

Asparagus acutifolius L., A, T(M), QB 09, QB 29, QB 19, PC 80, QC 00.

Asparagus albus L., O, T(M), QB 09, QC 01.

Ruscus aculeatus L., F, M(T), PC 80, QB 09, PB 99, PC 90, QB 19.

Polygonatum multiflorum (L.) All., R, M, QB 09.

Polygonatum odoratum (Miller) Druce, R, M, QB 19, PB 99.

Urginea maritima (L.) Baker, O, T(M), PB 89, PC 70, PB 99.

Gagea foliosa (Presl.) Schult., O, T(M), QB 29, QB 19, QB 28, QB 39, QB 09, QB 18.

Fritillaria lusitanica Wikström, R, T(M), QB 29, QB 09, PB 99.

Scilla autumnalis L., F, T(M), QB 38, PC 60, PC 70, QB 17, QB 39, QB 18, QB 19.

Scilla hyacinthoides L., R, M, QB 09.

Hyacinthoides hispanica (Miller) Rothm., F, M, PC 90, QB 09, PB 99.

Muscari comosum (L.) Miller, F, T(M), PC 70, QB 09, QC 00, QB 19.

Dipcadi serotinum (L.) Medicus, O, M(T), QB 09, QB 39, QB 38.

Ornithogalum pyrenaicum L., O, M(T), PB 99, QB 29.

Asphodelus albus Miller, O, T(M), QC 00, PB 99, QB 09.

Asphodelus aestivus Brot., O, T(M), PB 79, QB 19.

AMARILIDACEAE

Leucojum autumnale L., F, T(M), PC 70, QB 38, QB 17.

Leucojum trichophyllum Schousboe, R, M, PB 99.

Narcissus serotinus L., O, T(M), QB 09, QB 29, QB 39.

Narcissus bulbocodium L., O, T(M), QB 39, QB 28, PB 67, QB 18.

Narcissus polyanthus Loisel, O, T(M), QB 39, QB 09.

Narcissus jonquilla L., O, T(M), QB 39, QB 38, QB 29.

Narcissus triandrus L. subsp. *pallidulus* (Graells) D.A. Webb, R, M, QC 00.

DIOSCORIACEAE

Tamus communis L., F, M(T), QB 09, QB 29, PB 99, QB 19.

IRIDACEAE

Iris sisyrinchium L., F, T(M), QB 29, PC 70, QB 39.

Iris xiphium L., F, M(T), PB 99, QB 19, QB 29, PC 90, QB 09.

Iris foetidissima L., R, M, QB 09.

Iris albicans Lange, R, M, QB 09.

Iris germanica L., R, M, QB 19.

Crocus serotinus Salisb. subsp. *salzmannii* (Gay) Mathew, O, T(M), PC 70, PC 80, QB 09, QC 10.

Crocus clusii Gay, R, M, QB 19.

Romulea bulbocodium (L.) Sebastiani & Mauri, F, T(M), QB 19, QB 39, QB 28.

Romulea ramiflora Ten., R, M(T), QB 19.

Gladiolus illyricus Koch, F, T(M), QB 19, PB 89, QB 09, QB 29, PC 70, QC 00.

JUNCACEAE

Juncus inflexus L., O, T(M), QC 00, QB 29, QB 09.

Juncus effusus L., F, T(M), QC 00, PB 59, PC 81, PB 89.

Juncus bufonius L., F, T(M), PB 99, PC 70, PC 81, QB 09, QB 29.

Juncus pigmaeus L.C.M. Richard, O, T, QB 39, PB 87.

Juncus acutiflorus Hoffm., R, T, QB 39.

Juncus articulatus L., O, T(M), PB 88, PC 60.

Juncus obtusiflorus Hoffm., F, T(M), PB 89, QC 00.

Luzula forsteri (Sm.) DC., R, M, PB 89, QB 09,

GRAMINEAE

Lolium temulentum L., R, M, QB 29.

- Lolium perenne* L., F, T(M), QB 29, PB 99, QC 10, QB 19.
- Lolium rigidum* Gaudin, F, T(M), QB 29, QC 10, QB 19, QB 09, PB 99, PC 80.
- Festuca ampla* Hackes, O, M(T), PV 87, QB 09.
- Festuca paniculata* (L.) Schinz & Thell., R, M, QB 09.
- Vulpia ciliata* Dumort., R, T(M), QB 19, QB 09.
- Vulpia geniculata* (L.) Link, F, M(T), QB 19, QB 29.
- Vulpia bromoides* (L.) S.F. Gray, R, T(M), QB 19, QB 39.
- Vulpia muralis* (Kunth) Nees, R, T(M), QB 29.
- Vulpia myurus* (L.) C.C. Gmelin, O, M(T), QB 09, QC 00.
- Vulpia alopecurus* (Schousboe) Dumort., F, M(T), QB 29, QB 09.
- Micropyrum tenellus* (L.) Link, F, M(T), QC 00, QB 09, QB 19.
- Poa trivialis* L., R, M, QB 29.
- Poa annua* L., A, M(T), PC 90, QB 09, PB 99, QC 00.
- Poa bulbosa* L., F, M(T), QB 18, PC 90, QB 09, QB 39.
- Desmazeria rigida* (L.) Tutin, O, T(M), QB 29, QB 09, PB 99.
- Dactylis glomerata* L., F, T(M), QC 10, QB 18, QB 19, PB 99.
- Cynosorus echinatus* L., F, M(T), QB 29, QB 18, QB 09, PC 80, PB 99.
- Cynosorus elegans* Desf., O, M, QB 19.
- Lamarckia aurea* (L.) Moench, A, T(M), PC 70, QB 19, QB 39, QB 29.
- Psilurus incurvus* (Gouan) Schinz & Tell, O, T, QB 29.
- Mibora minima* (L.) Desv., R, T, QB 39.
- Briza minor* L., A, M(T), QC 10, PB 99, PC 70, QB 09, QB 29, QC 00.
- Briza maxima* L., A, M(T), QB 09, QB 19, PB 99, QC 00.
- Melica ciliata* L., O, M, PB 99, QB 19.
- Melia minuta* L., F, M(T), QB 19, QB 09, PB 99.
- Glyceria declinata* Breb., R, M, PB 99.
- Bromus diandrus* Roth., O, M(T), PC 70, QB 09, QC 00, PC 81, QB 29.
- Bromus tectorum* L., O, T(M), PC 70.
- Bromus madritensis* L., R, M, QB 29.
- Bromus rubens* L., R, T, QC 10.
- Bromus hordeaceus* L., R, T(M), QB 19.
- Bromus scoparius* L., R, T(M), QB 09.
- Brachypodium sylvaticum* (Hudson) Beauv., F, M, QB 19, QC 00, QB 09.
- Brachypodium phoenicoides* (L.) Roemer & Schultes, R, M(T), QB 09.
- Brachypodium distachyon* (L.) Beauv., O, M(T), QB 29, QB 19.
- Elymus repens* (L.) Gould, R, T(M), QB 29.
- Aegilops geniculata* Roth, O, T, QB 19.
- Aegilops triuncialis* L., F, M(T), QB 29, QB 19, QB 09.
- Aegilops neglecta* Req. ex Bertol., O, M, QB 09, QB 19.
- Hordeum murinum* L., A, T(M), QB 09, QB 19, QB 29, QC 00.
- Taeniatherum caput-medusae* (L.) Nevski, R, M, QB 29.
- Avena sterilis* L., F, M(T), QC 10, QC 00, QB 09, QB 19.
- Avena barbata* Pott. ex Link, F, M(T), QB 29, QB 09, QB 19.
- Avenula sulcata* Gay ex Delastre, Vr, M, QB 09.
- Arrhenatherum album* (Vahl) W.D. Clayton, F, M(T), QB 09, PB 99, QB 19.
- Arrhenatherum elatius* Beauv. ex J. & C. Presl subsp. *bulbosum* (Willd.) Schübler & Martens, R, M, QB 09.
- Gaudinia fragilis* (L.) Beauv., F, T(M), QB 29, QC 10.
- Lophochloa cristata* (L.) Hyl., O, M, QB 19, PB 99, QB 29.
- Trisetum paniceum* (Lam.) Pers., R, T(M), PB 99.
- Aira caryophylla* L., F, T(M), QC 10, QB 19.
- Aira cupaniana* Guss., F, M(T), QB 29, PC 90, QB 09, QC 00, QB 19.
- Molineriella minuta* (L.) Rouy, F, M(T), QB 29, QB 39.
- Airopsis tenella* (Cav.) Ascherson & Graebner, O, T(M), QC 10, PB 99.
- Anthoxanthum aristatum* Boiss., F, T(M), QC 10, PC 81, QB 29.
- Holcus lanatus* L., F, M(T), QB 29, PB 99, QB 19, QB 09, QC 10, PC 70.
- Holcus mollis* L., R, M, QB 09.
- Holcus setigulmis* Boiss. & Reuter, R, M, QB 09.
- Agrostis castellana* Boiss. & Reuter, F, M(T), QB 19, QC 10.
- Agrostis tenerrima* Trin., R, M, PB 99.
- Agrostis capillaris* L., R, M, QB 29.
- Agrostis pourretii* Willd., F, T(M), PC 81, QB 29, QC 10.
- Agrostis delicatula* Pourret ex Lapeyr., R, T(M), QC 00.
- Gastridium ventricosum* (Gouan) Schinz & Thell., O, M(T), QB 19, QB 29, PB 99.
- Polypogon viridis* (Gouan) Breistr., O, M(T), QB 29, QB 09, PB 99.
- Polypogon maritimus* Willd., R, M, QB 19.
- Chaetopogon fasciculatus* (Link) Hayek, O, T(M), QB 18, QB 29.
- Alopecurus arundinaceus* Poir., R, T, QB 29.
- Phalaris coerulescens* Desf., R, M, QB 29.
- Phalaris aquatica* L., O, T(M), QB 19, QB 29.
- Phalaris canariensis* L., O, M(T), QB 09, QB 18.
- Phalaris paradoxa* L., R, M(T), QB 19.
- Stipa bromoides* (L.) Dörfler, R, M, QB 09.
- Stipa gigantea* Link, R, M, QB 09.

Stipa capensis Thunb., O, T, QB 18.
Piptatherum miliaceum (L.) Cosson, F, T(M),
 QB 19, QB 09.
Cynodon dactylon (L.) Pers., F, T(M), QB 19,
 QB 29, QB 09.
Echinochloa crus-galli (L.) Beauv. F, T(M),
 QB 09, QB 29, PB 99, PB 88.
Digitaria sanguinalis (L.) Scop., F, M(T),
 QB 09, PB 88, QC 00, PC 70, PC 90.
Paspalum dilatatum Poiret, F, M(T), QC 00,
 QB 09.
Setaria pumila (Poiret) Schultes, O, M(T),
 QC 00, PC 60, QB 19.
Setaria viridis (L.) Beauv., O, M, QC 00, QB
 19.
Sorghum halepense (L.) Pers., O, M, QC 00.
Hyparrhenia hirta (L.) Stapf, F, T(M), QB 39,
 PB 99, QB 19, QB 09.

PALMAE

Chamaerops humilis L., O, T, QB 17.

ARACEAE

Arisarum vulgare Targ.-Tozz., A, T(M), QB 29,
 QB 19, QB 39, QB 09.
Arum italicum Miller, O, M(T), PC 80, PB 99,
 QB 19.
Biarum arundanum Boiss. & Reuter, R, T(M),
 PB 87, QB 29.

LEMNACEAE

Lemna minor L., O, T(M), QB 09, PB 89, QB 19,
 PC 90.
Lemna gibba L., O, T(M), PC 90, QB 09, QC 00.

CYPERACEAE

Cyperus longus L., O, M(T), QB 09, PB 99, QB
 29, QC 00.
Cyperus fuscus L., O, T, QB 39, QB 29.
Cyperus flavescens L., R, T, QB 19.
Scirpus holoschoenus L., F, T(M), QB 09, PC
 90, QB 29, PB 99.
Scirpus cernuus Vahl, R, M, QB 09.
Scirpus setaceus L., R, M, PB 99.
Eleocharis palustris (L.) Roemer & Schultes,
 R, T, QC 00.
Carex pendula Hudson, O, M(T), QC 00, PC 90,
 PB 99.
Carex remota L., R, M, QB 09.
Carex flacca Schreber, O, M, QB 19, QB 09.
Carex divisa Hudson, O, M, QB 29, QB 39.

Carex divulsa Stokes, F, M, PC 90, QC 00, QB
 19, PB 89, QB 09.
Carex fusca All., O, M(T), PC 90, QB 39.
Carex distachya Desf., R, M, QB 09.
Carex paniculata L. subsp. *lusitanica* (Sch-
 rank) Maire, O, M, PB 89, QB 09.
Carex acuta L., O, M, QB 09, QB 19.

ORCHIDACEAE

Aceras anthropophorum (L.) Ait. fil., Vr, M,
 QB 09.
Spiranthes aestivalis (Poiret) L.C.M.Richard,
 R, M(T), PB 89, PB 88, PC 90.
Orchis coriophora L., R, T, QB 29.
Orchis lactea Poiret, R, M(T), PC 90, QB 09.
Orchis mascula L., F, M(T), PB 89, PC 90, QB
 09.
Orchis mascula L. subsp. *hispanica* Soó, O, M,
 QB 09.
Orchis italica Poiret, O, T(M), QB 39, QB 09,
 QB 29.
Orchis morio L. subsp. *champagneuxii* (Barn.)
 Camus, Vr, M(T), QB 19.
Dactylorhiza sambucina (L.) Soó, Vr, M, QB 09.
Dactylorhiza incarnata (L.) Soó, R, M(T), QC
 00, PC 70.
Dactylorhiza sulphurea (Link) Franco, R, M,
 QB 19.
Cephalanthera longifolia (L.) Fritsch, F, M
 (T), PB 99, QB 09, QB 19, PC 90, QC 00.
Epipactis helleborine (L.) Crantz, F, M(T),
 QB 09, PB 99, PB 89, QB 19, PC 81, PC
 90, QC 00.
Serapias parviflora Parl., R, M, QB 19, QB 09.
Serapias vomeraceae (Burm.) Briq., O, T(M),
 QB 29.
Serapias lingua L., F, T(M), QB 09, QB 29, QB
 39, QB 19, QC 00.
Ophrys dyris Maire, R, M, QB 09.
Ophrys lutea (Gouan) Cav., R, M, QB 19.
Ophrys apifera Hudson, O, M, QB 29, PB 89, QB
 09, PC 70.
Ophrys tenthredinifera Willd., O, T, QB 39.
Ophrys fusca Link, R, M, QB 09.
Ophrys fusca Link subsp. *omegaifera* (Fleischm.)
 E. Nelson, R, M, QB 09.
Limodorum abortivum (L.) Schwartz, F, M, QB
 09, QB 29, PC 90, QB 19.
Neotinea maculata (Desf.) Stearn, F, M(T), QB
 09, QB 19, PC 70.

BIBLIOGRAFIA

- CABEZUDO, B. -1978a- Nota corológica sobre la flora de Huelva. IV. *Lagascalia*, 7: 173-178.
 CABEZUDO, B. -1978b- Pteridófitos de la provincia de Huelva. *Lagascalia*, 8:2-12.

- RIVAS GODAY, S. -1964- **Vegetación y flórua de la cuenca extremeña del Guadiana**. Madrid.
- RIVAS-MARTINEZ, S. -1979- Brezales y jarales de Europa Occidental. *Lazaroa*, 1: 5-127.
- RIVAS-MARTINEZ, S. -1982a- **Mapas de las series de vegetación de Madrid**. Madrid.
- RIVAS-MARTINEZ, S. -1982b- Etages bioclimatiques, secteurs chrologiques et séries de végétation de l'Espagne méditerranéenne. *Ecol. Méditerranéenne*, 8 (1/2): 275-288.
- RIVERA, J. & CABEZUDO, B. -1981- Notas taxonómicas y corológicas sobre la flora de Andalucía Occidental. *Notas breves. Lagasalia*, 10: 95-127.
- SALVO, A.E. & CABEZUDO, B. -1984- Lista comentada de los pteridófitos de Andalucía. *Acta Bot. Malacitana*, 9: 133-146.
- TUTIN, T.G. & cols. (eds.) -1964-80- **Flora Europaea**. Cambridge.