

Zeitschrift: Candollea : journal international de botanique systématique = international journal of systematic botany
Herausgeber: Conservatoire et Jardin botaniques de la Ville de Genève
Band: 40 (1985)
Heft: 2

Artikel: A checklist of vascular plants of Ajlun mountain (Jordan)
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DOI: <https://doi.org/10.5169/seals-879790>

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A checklist of vascular plants of Ajlun mountain (Jordan)

A. A. EL-OQLAH
&
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RÉSUMÉ

EL-OQLAH, A. A. & J. N. LAHHAM (1985). Checklist des végétaux vasculaires des montagnes Ajlun (Jordanie). *Candollea* 40: 377-387. En anglais, résumé français.

Des récoltes ont été effectuées au cours des quatre dernières années, à différentes saisons dans les montagnes Ajlun. Les auteurs énumèrent dans cette checklist 70 familles, 339 genres et 660 espèces de végétaux vasculaires de cette région. Deux espèces: *Phillyrea latifolia* L. et *Salvia triloba* L. f. sont signalées pour la première fois. Des notes sur l'écologie, les types de sols et la végétation en général sont ajoutées.

ABSTRACT

EL-OQLAH, A. A. & J. N. LAHHAM (1985). A checklist of vascular plants of Ajlun mountain (Jordan). *Candollea* 40: 377-387. In English, French abstract.

Collections were made from Ajlun Mountains during the last four years in different seasons. The authors enumerate in this checklist 70 families, 339 genera and 660 species of vascular plants from the studied area. Two species namely *Phillyrea latifolia* L. and *Salvia triloba* L. f. were recorded for the first time. Notes on the ecology, soil types and vegetation in general were also included.

Introduction

The aim of this work is to summarize the current knowledge of the vascular plants of the Ajlun mountains. The area covered in the present study includes Um Qeis, Ajlun and Jerash hilly areas. This area is bordered from the north by the Yarmouk River, Zarqa River from the south, Jordan rift valley from the east, and the western part merges gradually into the Syrian desert (Map 1). The most abundant surface formation of the area belongs to the Cretaceous period. The Cenomanian and the overlying Turonian hard rocks are the main parent material of the terra rossa soil type in the area (ZOHARY, 1962, 1973). The terra rossa soils supports forests dominated by *Quercus calliprinos* and *Pistacia palaestina*.

Along with the terra rossa soils, occurs a series of grey to greyish white soils that are classified as rendzina. The parent rocks of this series are soft calcareous formations of the upper Cretaceous and Eocene, including chalks, soft limestones and marls. A certain type of *Quercus ithaburensis* forest is most characteristic of the dark rendzina soils, while the light colored rendzinas supports forests dominated by *Pinus halepensis*.

The Eu-Mediterranean climate dominates the area studied, which is characterized by rather mild rainy winters lasting about six months and moderately dry hot summers. The amount of annual rainfall ranges between 300-600 mm. The main annual temperature of the area ranges between 15-20°C (maximum July 32°C, minimum January 3-5°C) (ABU-KHADER & al., 1968).

The area studied could be subdivided into two phytogeographical regions. The Mediterranean region, which is well defined ecologically and characterized by biseasonal climate and by the occurrence of the terra rossa soil type. It comprises a rich flora of evergreen forests and maquis climaxes such as *Quercus calliprinos*, *Pinus halepensis*, *Arbutus andrachne*, *Pistacia lentiscus*, *Phillyrea media*, *Ceretonia siliqua* and also with deciduous maquis species such as: *Quercus infectoria*, *Styrax officinalis*, *Cercis siliquastrum*, *Pyrus syriaca*, *Crataegus azarolus*, *Cistus salvifolius*

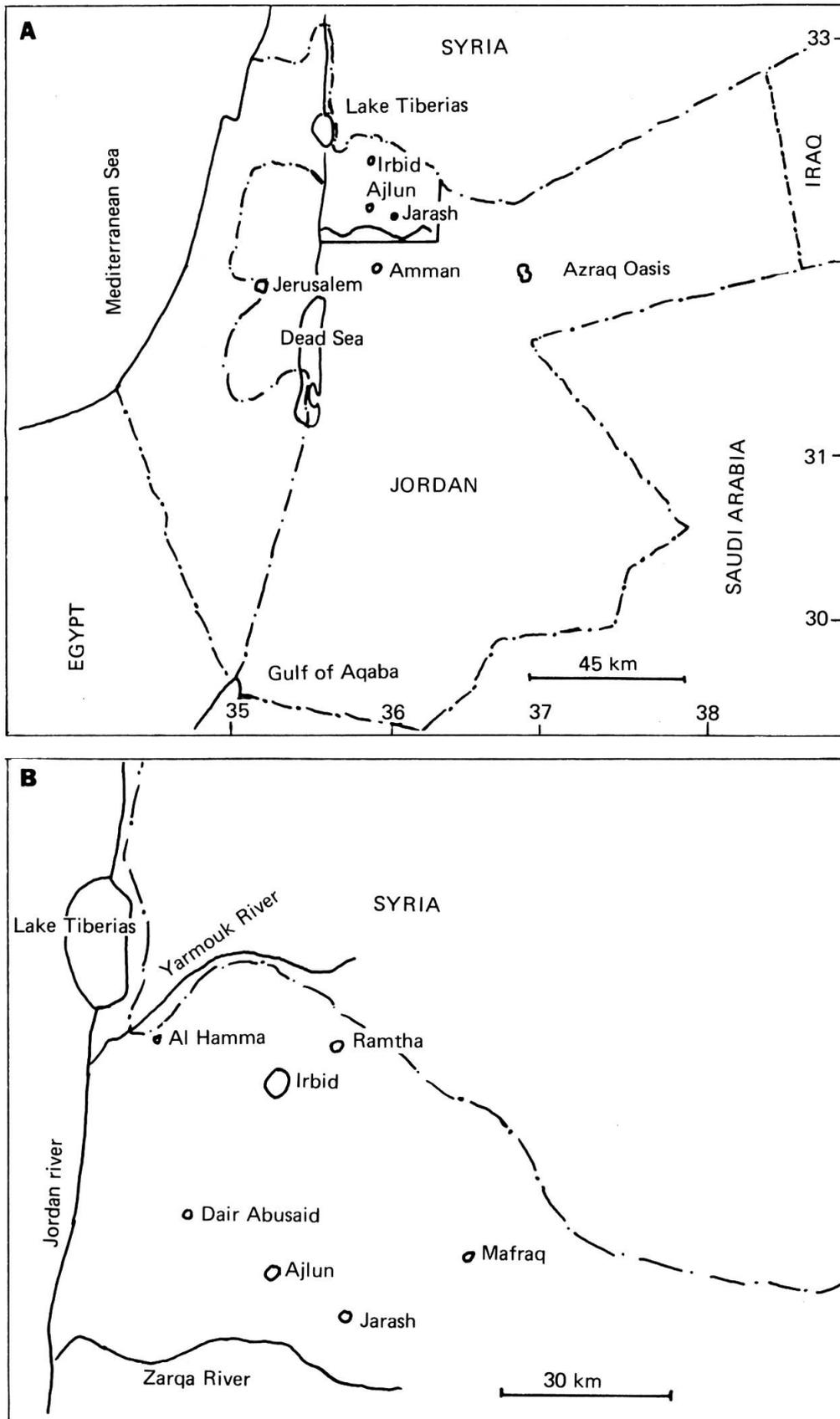


Fig. 1. — **A**, map of the collection area (cross hatching) in relation to Jordan and the surrounding countries. **B**, detail of the area in which the collections were made.

and *Pistacia terebinthus* subsp. *palaestina*. The other phytogeographical region is the Irano-Turanian region which is well characterized by continentality manifested by the extreme ranges in temperatures both diurnal and annually low precipitation. This region extends on the lower slopes of the studied area. The region's flora is characterized by steppe forest species such as: *Pistacia atlantica*, *Ziziphus spina-christi*, *Z. lotus*, *Rhamnus palaestina*, *Amygdalus communis* and *Retama raetam*.

This study is based on extensive collections made from the area during the last three years. Also, specimens available at the herbaria of the University of Jordan, Ministry of Agriculture, and Kew were checked and verified for identification.

ACANTHACEAE

Acanthus syriacus Boiss.

ADIANTACEAE

Adiantum capillus-veneris L.
Cheilanthes fragrans (L.) Webb & Bertham

AMARANTHACEAE

Amaranthus gracilis Desf.

AMARYLLIDACEAE

Ixiolirion tataricum (Pallas) Herb.

ANACARDIACEAE

Pistacia atlantica Desf.
P. lentiscus L.
P. terebinthus L. subsp. *palaestina* (Boiss.) Engl.
P. vera L.
Rhus coriaria L.
Rhus tripartita (Ucria) Grand.

APOCYNACEAE

Nerium oleander L.
Vinca herbacea Waldst. & Kit.

ARACEAE

Arum dioscoridis Sibth. & Sm.
A. hygrophilum Boiss.

ARISTOLOCHIACEAE

Aristolochia billardieri Jaub. & Spach
A. maurorum L.
A. paecilantha Boiss.
A. parviflora Sibth. & Sm.
A. sempervirens L.

ASCLEPIADACEAE

Gomphocarpus sinaicus Boiss.

ASPLENIACEAE

Ceterach officinarum DC.

BALANITACEAE

Balanites aegyptiaca (L.) Del.

BERBERIDACEAE

Bongardia chrysogonum (L.) Griseb.
Leontice leontopetalum L.

BORAGINACEAE

Alkanna strigosa Boiss. & Hohen.
Anchusa aegyptiaca (L.) DC.
A. italica Retz
A. milleri Willd.
A. ovata Lehm.
A. strigosa Banks & Sol.
Asperugo procumbens L.
Buglossoides arvensis (L.) I. M. Johnston
B. tenuiflora (L. f.) I. M. Johnston
Cerinthe palaestina Eig & Sam.
Cynoglossum creticum Miller
Echium angustifolium Miller
E. judaeum Lacaita
E. plantagineum L.
E. rauwolfii Del.
Gastrocotyle hispida (Forsskål) C. B. Clarke
Heliotropium bovei Boiss.
H. europaeum L.
H. suaveolens Bieb.
Nonea melanocarpa Boiss.
N. philistaea Boiss.
Onosma aleppica Boiss.
O. frutescens Lam.
O. gigantea Lam.

Podonosma galalense Schweinf. ex Boiss.
Symphytum palaestinum Boiss.

BUTOMACEAE

Butomus umbellatus L.

CAMPANULACEAE

Campanula rapunculus L.
C. strigosa Banks & Sol.
C. sulphurea Boiss.
Legousia falcata (Ten.) Fritsch.
L. hybrida (L.) Delarbre
L. speculum-veneris (L.) Chaix

CAPPARACEAE

Capparis spinosa L.

CAPRIFOLIACEAE

Lonicera etrusca Santi
Sambucus nigra L.

CARYOPHYLLACEAE

Cerastium dichotomum L.
Gypsophila arabica Barkoudah
Minuartia decipiens (Fenzl) Bornm.
M. picta (Sibth. & Sm.) Bornm.
Paronychia argentea Lam.
P. palaestina Eig
Silene aegyptiaca (L.) L. f.
S. arabica Boiss.
S. behen L.
S. coniflora Nees ex Otth
S. conoidea L.
S. damascena Boiss. & Gaill.
S. longipetala Vent.
S. muscipula L.
S. palaestina Boiss.
S. reinwardtii Roth
S. rubella L.
S. trinervis Banks & Sol.
S. vulgaris (Moench) Garcke
Spergularia diandra (Guss.) Heldr. & Sart.
Vaccaria pyramidata Medikus

CHENOPODIACEAE

Atriplex halimus L.
A. leucoclada Boiss.
Beta vulgaris L.
Noaea mucronata (Forsskål) Asch. & Schweinf.

CISTACEAE

Cistus creticus L.
C. parviflorus Lam.
C. salviifolius L.
Fumana arabica (L.) Sp.
F. thymifolia (L.) Webb
Helianthemum ledifolium (L.) Mill.
H. salicifolium (L.) Mill.
H. vesicarium Boiss.

COMPOSITAE

Achillea biebersteinii Afan.
A. falcata L.
A. fragrantissima (Forsskål) Sch. Bip.
A. santolina L.
Anthemis tinctoria L.
Asteriscus aquaticus (L.) Less.
Atractylis cancellata L.
Calendula arvensis L.
C. palaestina Boiss.
C. tripterocarpa Rupr.
Carduus argentatus L.
C. australis L. f.
Carthamus tenuis (Boiss. & Blanche) Bornm.
Catananche lutea L.
Centaurea iberica Trev. ex Sprengel
C. pallescens Del.
C. verutum L.
Chrysanthemum coronarium L.
Cirsium phyllocephalum Boiss. & Blanche
Conyza canadensis (L.) Cronquist
Crepis aspera L.
C. foetida L.
C. hierosolymitana Boiss.
C. palaestina (Boiss.) Bornm.
Crupina crupinastrum (Moris) Vis.
Cynara syriaca Boiss.
Filago contracta (Boiss.) Chrtk & Holub
F. eriocephala Guss.
F. gallica L.
Geropogon hybridus (L.) Schultz Bip.
Gundelia tournefortii L.
Hedypnois rhagadioloides (L.) F. W. Schmidt
Helichrysum sanguineum (L.) Kostel.
Inula viscosa (L.) Aiton
Lactuca serriola L.
L. tuberosa Jacq.
Matricaria aurea (Loefl.) Schultz Bip.
Pallenis spinosa (L.) Cass.
Phagnalon rupestre (L.) DC.
Picris galilea (Boiss.) Benth & Hooker f.
Rhagadiolus edulis Gaertn.
R. stellatus (L.) Gaertn.
Rhaponticum pusillum (Labill.) Boiss.

Scolymus maculatus L.
Scorzonera papposa DC.
Senecio flavus (Decne.) Sch. Bip.
S. vernalis Waldst. & Kit.
S. vulgaris L.
Silybum marianum (L.) Gaertn.
Sonchus oleraceus L.
Tragopogon bupthalmoides (DC.) Boiss.
T. collinus DC.
Urospermum picroides (L.) Scop. ex Schmidt.
Varthemia montana (Vahl.) Boiss.

CONVOLVULACEAE

Convolvulus arvensis L.
C. betonicifolius Mill.
C. coelesyriacus Boiss.
C. pentapetaloides L.
C. scammonia L.
C. siculus L.
C. stachydifolius Choisy
Cuscuta planiflora Ten.

CRASSULACEAE

Sedum hispanicum L.
Umbilicus intermedius Boiss.

CRUCIFERAE

Aethionema heterocarpum J. Gay.
Alyssum damascenum Boiss. & Gaill.
A. linifolium Steph. ex Willd.
Arabis turrita L.
A. verna (L.) R. Br.
Biscutella didyma L.
Brassica nigra (L.) Koch.
Capsella bursa-pastoris (L.) Medikus
Cardaria draba (L.) Desv.
Chorispura purpurascens (Banks & Sol.) Eig
Clypeola jonthlaspi L.
Crambe hispanica L.
Diplotaxis eruroides (L.) DC.
Erophila minima C. A. Meyer
Erucaria boveana Cosson.
Fibigia clypeata (L.) Medikus
Isatis lusitanica L.
Malcolmia crenulata (DC.) Boiss.
Nasturtium officinale R. Br.
Neslia apiculata Fischer, Meyer & Avé-Lall.
Ochthodium aegyptiacum (L.) DC.
Raphanus aucheri Boiss.
Ricotia lunaria (L.) DC.
Sinapis alba L.
S. arvensis L.

Texiera glastifolia (DC.) Jaub. & Spach
Thlaspi perfoliatum L.

CUCURBITACEAE

Bryonia cretica L.
B. syriaca Boiss.

CYPERACEAE

Carex distans L.
C. mediterranea C. B. Clarke
Scirpus holoschoenus L.

DIPSACACEAE

Cephalaria setosa Boiss. & Hohen.
C. tenella Paine
Knautia bidens L.
Pterocephalus brevis Coulter
P. plumosus (L.) Coulter
Scabiosa palaestina L.
S. porphyroneura Blakelock
S. prolifera L.

EPHEDRACEAE

Ephedra campylopoda C. A. Meyer
E. peduncularis Boiss.

ERICACEAE

Arbutus andrachne L.

EUPHORBIACEAE

Andrachne telephioides L.
Chrozophora tinctoria (L.) A. Juss.
Euphorbia aleppica L.
E. arguta Banks & Sol.
E. aulacosperma Boiss.
E. chamaepeplus Boiss. & Gaill.
E. cybirensis Boiss.
E. exigua L.
E. falcata L.
E. helioscopia L.
E. hierosolymitana Boiss.
E. macroclada Boiss.
E. oxyodonta Boiss. & Hausskn. ex Boiss.
E. peplus L.
E. phymatosperma Boiss. & Gaill.
Mercurialis annua L.

FAGACEAE

Quercus aegilops L.
Q. calliprinos Webb
Q. infectoria Oliver

FUMARIACEAE

Ceratocarpus palaestinus Boiss.
Fumaria densiflora DC.
F. macrocarpa Parl.
F. parviflora Lam.
F. thuretii Boiss.
Hypocymum aegyptiacum (Forsskål) Asch. & Schweinf.
H. imberbe Sm.
H. pendulum L.

GERANIACEAE

Erodium acaule (L.) Becherer & Thell.
E. ciconium (L.) L'Hér.
E. cicutarium (L.) L'Hér.
E. gruinum (L.) L'Hér.
E. malacoides (L.) L'Hér.
Geranium dissectum L.
G. lucidum L.
G. robertianum L.
G. rotundifolium L.
G. trilophum Boiss.
G. tuberosum L.

GRAMINEAE

Aegilops geniculata Roth
Alopecurus urticulatus Banks & Sol.
Agrostis gigantea Roth
A. viridis Gouan
Arrhenatherum elatius (L.) Beauv. & J. & C. Presl
Avena sterilis L.
A. wiestii Steudel
Briza maxima L.
Bromus alopecuroides Poir.
B. danthoniae Trin.
B. fasciculatus Presl
B. lanceolatus Roth.
B. madritensis L.
B. rubens L.
B. scoparius L.
Catapodium rigidum (L.) C. E. Hubbard
Cynosurus coloratus Lehm. ex Steudel
C. elegans Desf.
Dactylis glomerata L.
Dactyloctenium aegyptiacum Willd.

Dinebra retroflexa Panz
Hordeum bulbosum L.
H. marinum Hudson
H. spontaneum C. Koch
H. vulgare L.
Imperata cylindrica (L.) Beauverd
Lamarckia aurea (L.) Moench
Lolium loliaceum (Bory & Chaub.) Hand.-Mazz.
L. rigidum Gaudin
Lophochloa phleoides (Vill.) Reichenb.
Oryzopsis holciformis (M. B.) Hack.
O. miliacea (L.) Asch. & Schweinf.
Parapholis gracilis Bor
Pennisetum villosum R. Br.
Phalaris aquatica L.
P. brachstachys Link.
P. paradoxa L.
Poa annua L.
P. bulbosa L.
P. sinaica Steudel
Polypogon monspeliensis (L.) Desf.
Schismus arabicus Nees.
Sorghum halepense (L.) Pers.
Stipa capensis Thunb.
Taeniathermum crinitum (Schreber) Nevski
Triticum dicoccoides (Koern. ex Asch. & Graebner) Aaronsohn

HYPERICACEAE

Hypericum lanuginosum Lam.

IRIDACEAE

Crocus aleppicus Baker
C. cancellatus Herbert
Iris histrio Reichenb.
I. palaestina (Baker) Boiss.
I. reticulata M. B.
I. sisyrinchium L.

LABIATAE

Acinos rotundifolius Pers.
Ajuga chia Schreber
A. iva (L.) Schreber
A. orientalis L.
Ballota undulata (Sieber ex Fresen.) Benth
Calamintha incana (Sm.) Heldr.
Eremostachys laciniata (L.) Bunge
Lamium amplexicaule L.
L. garganicum L.
Majorana syriaca (L.) Rafin.
Marrubium vulgare L.
Melissa officinalis L.

Mentha longifolia (L.) Hudson
Micromeria myrtifolia Boiss. & Hohen.
M. nervosa (Desf.) Benth
M. sinaica Benth
Moluccella spinosa L.
Nepeta curviflora Boiss.
Phlomis brachyodon (Boiss.) Zohary
P. pungens Willd.
P. viscosa Poiret
Prasium majus L.
Salvia aegyptiaca L.
S. dominica L.
S. fruticosa Mill.
S. hierosolymitana Boiss.
S. horminum L.
S. judaica Boiss.
S. spinosa L.
S. syriaca L.
S. triloba L. f.
S. verbenaca L.
Satureja thymbra L.
Scutellaria subvelutina Rech. f.
S. tomentosa Bertol.
Sideritis pullulans Vent.
Stachys cretica L.
S. neurocalycina Boiss.
S. viticina Boiss.
S. zoharyana Eig
Teucrium polium L.
Ziziphora capitata L.

LEGUMINOSAE

Anagyris foetida L.
Astragalus bertheus Boiss. & Blanche
A. boeticus L.
A. callichrous Boiss.
A. cretaceus Boiss. & Kotschy
A. deinacanthus Boiss.
A. feinbruniae Eig ex Rech. f.
A. guttatus Banks & Sol.
A. hamosus L.
A. intercedens Sam. ex Rech. f.
A. macrocarpus DC.
A. palaestinus Eig
A. platyrhaphis Fischer
Bisserula pelecinus L.
Bonjeania recta (L.) Reichenb.
Calycotome villosa (Poiret) Link
Ceratonia siliqua L.
Cercis siliquastrum L.
Cicer arietinum L.
C. pinnatifidum Jaub. & Spach
Coronella scorpioides (L.) Koch
Glycyrrhiza glabra L.
Hippocrepis unisiliquosa L.

Hymenocarpus circinatus (L.) Savi
Lathyrus aphaca L.
L. blepharicarpus Boiss.
L. cicera L.
L. gorgonei Parl.
L. hierosolymitanus Boiss.
L. inconspicuus L.
L. sativus L.
Lens culinaris Medikus
Lotus collinus (Boiss.) Heldr.
L. glinoides Del.
L. halophilus Boiss. & Spruner
L. ornithopodioides L.
L. peregrinus L.
Lupinus palaestinus
Medicago arabica (L.) Hudson
M. blancheana Boiss.
M. constricta Durieu
M. coronata (L.) Bartal.
M. granadensis Willd.
M. indicus (L.) All.
M. intertexta (L.) Miller
M. laciniata (L.) Miller
M. littoralis Rhode ex Loisel.
M. lupulina L.
M. minima (L.) Bartal.
M. orbicularis (L.) Bartal.
M. polymorpha L.
M. rigidula (L.) All.
M. rotata Boiss.
M. rugosa Desv.
M. scutellata (L.) Miller
M. truncatula Gaertner
M. turbinata (L.) All.
M. siculus (Turra) R. D. Jackson
Onobrychis caput-galli (L.) Lam.
O. crista-galli (L.) Lam.
O. squarrosa Viv.
Ononis antiquorum L.
O. biflora Desf. ex Poiret
O. natrix L.
O. ornithopodioides L.
O. pubescens L.
O. reclinata L.
O. sicala Guss.
O. vaginalis Vahl.
O. viscosa L.
Pisum elatius Breb.
P. fulvum Sibth. & Sm.
P. syriacum (Berg.) Lehm.
Prosopis farcata (Banks & Sol.) Macbride
Psoralea bituminosa L.
Retama raetam (Forsskål) Webb & Berth.
Scorpiurus muricata L.
Tetragonolobus palaestinus Boiss. & Blanche
Trifolium angustifolium L.

T. campestre Schreber
T. clusii Gren. & Godron
T. clypeatum L.
T. dasyurum C. Presl
T. glanduliferum Boiss.
T. lappaceum L.
T. palaestinum Boiss.
T. physodes Steven ex Bieb.
T. pilulare Boiss.
T. purpureum Loisel.
T. stellatum L.
T. tomentosum L.
Trigonella arabica Del.
T. berythea Boiss.
T. caelesyriaca Boiss.
T. corniculata (L.) L.
T. foenum-graecum L.
T. homosa L.
T. kotschyi Fenzl ex Boiss.
T. monspeliaca L.
T. spinosa L.
T. stellata Forsskål
Vicia galeata Boiss.
V. galilaea Plitm. & Zoh.
V. hybrida L.
V. lutea L.
V. monantha Retz
V. narbonensis L.
V. palaestina Boiss.
V. peregrina L.
V. sativa L.
V. sericocarpa Fenzl

LILIACEAE

Allium chloranthum Boiss.
A. erdelii Zucc.
A. hierochuntinum Boiss.
A. schuberti Zucc.
Aloe vera (L.) Burm. f.
Asparagus aphyllus L.
Asparagus palaestinus Baker
Asphodeline damascena (Boiss.) Baker
A. lutea (L.) Reichenb.
A. recurva Post
Asphodelus aestivus Brot.
A. fistulosus L.
Bellevalia flexuosa Boiss.
B. macrobotrys Boiss.
Fritillaria libanotica (Boiss.) Baker
Muscari racemosum (L.) Miller
Urgenea maritima (L.) Baker

LINACEAE

Linum pubescens Banks & Sol.
L. strictum L.
L. mucronatum Bertol.

LORANTHACEAE

Viscum cruciatum Sieber ex Boiss.

LYTHRACEAE

Lythrum junceum Banks & Sol.

MALVACEAE

Alcea acaulis (Cav.) Alef.
A. apterocarpa (Fenzl) Boiss.
Hibiscus trionum L.

MORACEAE

Morus alba L.

OLEACEAE

Olea europaea L.
Phillyrea latifolia L.

ONAGRACEAE

Epilobium tournefortii Michal.

ORCHIDACEAE

Anacamptis pyramidalis (L.) L. C. M. Richard
Cephalanthera longifolia (L.) Fritsch
C. damasonium (Miller) Druce
Limodorum abortivum (L.) Swartz
Ophrys speculum Link
O. spruneri Nyman
Orchis anatolica Boiss.
O. laxiflora Lam.
O. militaris L.
O. punctulata Steven ex Lindl.
O. saccata Ten.
O. sancta L.
O. simia Lam.

OXALIDACEAE

Oxalis corniculata L.

PAPAVERACEAE

Glaucium aleppicum Boiss. & Hausskn. ex Boiss.
G. grandiflorum Boiss. & Huet
Papaver carmeli Feinbr.
P. humile Fedde
P. polytrichum Boiss. & Kotschy
P. subpiriforme Fedde
Roemeria hybrida (L.) DC.

PINACEAE

Abies nordmanniana Spach
Pinus halepensis Miller

PLANTAGINACEAE

Plantago cretica L.
P. indica L.
P. lagopus L.
P. major L.
P. phaeostoma Boiss. & Heldr.
P. psyllium L.

PLATANACEAE

P. orientalis L.

PLUMBAYINACEAE

Limonium thouinii (Viv.) O. Kuntze
Plumbago europaea L.

POLYGONACEAE

Polygonum lanigerum R. Br.
P. lapathifolium L.
P. palaestinum Zoh.
Rumex cyprius Murb.
R. maritimus L.

PRIMULACEAE

Anagallis arvensis L.
Cyclamen persicum Miller

RANUNCULACEAE

Adonis aleppica Boiss.
A. annua L.
A. cupaniana Buss.
Anemone coronaria L.
Ceratocephalus falcatus (L.) Pers.
Clematis cirrhosa L.
C. flammula L.

Delphinium ithaburens Boiss.
D. peregrinum L.
Nigella ciliaris DC.
N. sativa L.
Ranunculus aquatilis L.
R. arvensis L.
R. asiaticus L.
R. cornutus DC.
R. damascenus Boiss. & Gaill.
R. ficaria L.
R. marginatus D'Urv.
R. millefolius Banks & Sol.

RESEDACEAE

Reseda alba L.
R. alopecuros Boiss.
R. lutea L.

RHAMNACEAE

Rhamnus dispermus Ehrend. ex Boiss.
R. palaestinus Boiss.
R. punctatus Boiss.
Ziziphus lotus (L.) Lam.
Z. spina-christi (L.) Desf.

ROSACEAE

Amygdalus arabica Oliv.
A. communis L.
A. korshinskyi (Hand.-Mazz.) Bornm.
Crataegus azarolus L.
Pyrus syriaca Boiss.
Rosa canina L.
R. phoenicia L.
Rubus sanguineus Friv.
R. tomentosus Borkh.
Sanguisorba minor Scop.
Sarcopoterium spinosum (L.) Spach

RUBIACEAE

Asperula arvensis L.
Crucianella herbacea Forsskål
C. latifolia L.
C. transjordanica Rech. f.
Cruciata articulata (L.) Ehrend.
Galium aparine L.
G. judaicum Boiss.
G. pisiferum Boiss.
G. samuelssonii Ehrend.
G. sinaicum (Del. ex Decne) Boiss.
G. tricornutum Dandy
Mericarpaea vaillantoides Boiss.
Oldenlandia capensis L. f.

Rubia tenuifolia D'Urv.
R. tinctorum L.
Sherardia arvensis L.
Valantia hispida L.
V. muralis L.

RUTACEAE

Haplophyllum buxbaumii (Poiret) G. Don f.
Ruta chalepensis L.

SALICACEAE

Populus alba L.
P. euphratica Oliver
Salix acmophylla Boiss.
S. alba L.
S. babylonica L.
S. pseudo-safsaf A. Camus & Gamble

SANTALACEAE

Osyris alba L.
Thesium pergeri Zucc.
T. humile L.

SCROPHULARIACEAE

Kickxia aegyptiaca (L.) Dum.-Courset
K. sieberi (Reichb.) Allan
Linaria albifrons (Sm.) Sprengel
L. chalepensis (L.) Miller
Scrophularia hierochuntina Boiss.
S. pinardii Boiss.
S. rubricaulis Boiss.
S. xanthoglossa Boiss.
Verbascum caesareum Boiss.
V. eremobium Murb.
V. fruticosum Post
V. jordanicum Murb.
V. orientale (L.) All.
V. sinaiticum Benth
V. sinuatum L.
Veronica anagallis-aquatica L.
V. cymbalaria Bodard
V. persica Poiret
V. syriaca Roemer & Schultes

SINOPTERIDACEAE

Cheilanthes fragrans Swartz

SOLANACEAE

Hyoscyamus aureus L.
H. reticulatus L.

Solanum nigrum L.
Withania somnifera (L.) Dunal

STYRACEAE

Styrax officinalis L.

TAXACEAE

Taxus baccata L.

UMBELLIFERAE

Ainsworthia cordata Boiss.
A. trachycarpa Boiss.
Anethum graveolens L.
Anthriscus lamprocarpa Boiss.
Apium graveolens L.
A. nodiflorum (L.) Lag.
Artedia squamata L.
Astoma seselifolium DC.
Bifora testiculata (L.) Schultes
Bunium elegans (Fenzl) Freyn
Bupleurum lancifolium Hornem.
B. nodiflorum Sm.
B. semicompositum L.
Caucalis tenella Del.
Chaetosciadium trichospermum (L.) Boiss.
Conium maculatum L.
Daucus carota L.
D. guttatus Sm.
Eryngium creticum Lam.
E. falcatum Laroche
E. glomeratum Lam.
Exoacantha heterophylla Labill.
Falcaria vulgaris Bernh.
Foeniculum vulgare Miller
Heptaptera crenata Fenzl
Lagoecia cuminoides L.
Lecockia cretica (Lam.) DC.
Myrrhoides nodosa (L.) Cannon
Malabaila secacul (Miller) Boiss.
Orlaya daucoides (L.) Greuter
Pimpinella cretica Poiret
Prangos goniocarpa Boiss.
Scaligeria napiformis (Willd) Grande
Scandix iberica M. Bieb.
S. pectin-veneris L.
Smyrniopsis cachroides Boiss.
Symrniium connatum Boiss. & Kotschy
Tordylium aegyptiacum (L.) Lam.
Torilis arvensis (Hudson) Link
T. leptophylla (L.) Reichenb. f.
Turgenia latifolia (L.) Hoffm.

URTICACEAE

Parietaria diffusa Mert. & Koch
P. lusitanica L.
Urtica dubia Forsskål
U. pilulifera L.

VERBENACEAE

Phyla nodiflora (L.) Greene

VALERIANACEAE

Valerianella echinata (L.) DC.
V. muricata (Steven) W. Boxt.
V. sclerocarpa Fisher & C. A. Meyer
V. vesicaria (L.) Munch

ZYGOPHYLLACEAE

Peganum harmala L.
Tribulus terrestris L.

ACKNOWLEDGEMENTS

This work was supported by research grant from National planning Council Amman, Jordan.

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