

Appendix



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Appendix 1. Main characteristics of the recorded Mediterranean endemics (*Includenda*) in the Egyptian flora [Abundance (cc: very common; c: common; r: rare; rr: very rare); Sex form (b: bisexual; m: monoecious); Life span (a: annual; p: perennial)]; Rarity form (SNA: small range_Narrow habitat _ abundant, SNN: small geographic range – narrow habitat- non abundant, SWN: small range _wide habitat _non abundant).

Scientific name	Vernacu-lar name	Abun-dance	Life form	Life span	Sex form	Dispersal type	Flowering time	Rarity form
Amaryllidaceae								
<i>Allium barthianum</i> Asch. & Schweinf.	بصل	r	Geophyte-Helophyte	p	b	Ballochore	Mar-May	SNN
<i>Allium blomfieldianum</i> Asch. & Schweinf.	بصل	rr	Geophyte-Helophyte	p	b	Ballochore	Mar-Apr	SNN
<i>Allium mareoticum</i> Bomm. & Gauba	بصل	rr	Geophyte-Helophyte	p	b	Ballochore	Mar-May	SNN
<i>Allium trifoliatum</i> Cirillo	بصل	rr	Geophyte-Helophyte	p	b	Ballochore	Mar-Apr	SNN
<i>Pancratium arabicum</i> Sickenb.	سوسن	r	Geophyte-Helophyte	p	b	Barochore	Aug-Oct	SNN
Apiaceae								
<i>Apium crassipes</i> (W.D.J.Koch ex Rechb.) Rechb.f.	-	rr	Chamaephyte	p	b	Ballochore	Apr-Jun	SNN
<i>Bupleurum nanum</i> Poir.	-	c	Therophyte	a	b	Microsclerchore	Feb-May	SNN
Asparagaceae								
<i>Bellevalia mauritanica</i> Pomel	بصيل	rr	Geophyte-Helophyte	p	b	Ballochore	Mar-May	SNN
<i>Bellevalia salah-eldii</i> Täckh. & Boulos	بصيل	rr	Geophyte-Helophyte	p	b	Pterochore	Feb-Apr	SNN
<i>Bellevalia sessiliflora</i> (Viv.) Kunth	بيلوش	rr	Geophyte-Helophyte	p	b	Ballochore	Feb-Apr	SNA
<i>Bellevalia warburgii</i> Feinbrun	بصيل	rr	Geophyte-Helophyte	p	b	Ballochore	Mar-May	SNN
<i>Leopoldia bicolor</i> (Boiss.) Eig & Feinbrun	بصيل	rr	Geophyte-Helophyte	p	b	Ballochore	Mar-Apr	SNN
<i>Muscari albiflorum</i> (Täckh. & Boulos) Hosni	بصيل	rr	Geophyte-Helophyte	p	b	Ballochore	Mar-Apr	SNN

Appendix 1. Cont.

Scientific name	Vernacu-lar name	Abun-dance	Life form	Life span	Sex form	Dispersal type	Flowering time	Rarity form
<i>Muscari parviflorum</i> Desf.	-	rr	Geophyte-Helophyte	p	b	Ballochore	Sep-Nov	SNN
<i>Scilla peruviana</i> L.	-	rr	Geophyte-Helophyte	p	b	Ballochore	Apr-Jun	SNN
<i>Muscari salah-eidii</i> (Tackh. & Boulos) Hosni	-	rr	Geophyte-Helophyte	p	b	Ballochore	Mar-Apr	SNN
Asteraceae								
<i>Anthemis chia</i> L.	أريبيان	rr	Therophyte	a	b	Desmochore	Mar-Apr	SNN
<i>Anthemis microserma</i> Boiss. & Kotschy	أريبيان	c	Therophyte	a	b	Microsclerochore	Mar-May	SNA
<i>Centaurea aegialophila</i> Wagenitz	مريز	rr	Therophyte	a	m	pogonochore	Apr-May	SNN
<i>Centaurea pumilio</i> L.	مريز	c	Hemicryptophyte	p	m	pogonochore	Mar-Jun	SNN
<i>Crepis aculeata</i> Boiss.	-	rr	Therophyte	a	b	pogonochore	Apr-Jul	SNN
<i>Crepis libyca</i> (Pamp.) Babe.	-	rr	Hemicryptophyte	p	b	pogonochore	Apr-July	SNN
<i>Cynara cornigera</i> Lindl.	خرفوف	r	Chamaephyte	p	b	pogonochore	Mar-Jun	SNN
<i>Echinops taeckholmianus</i> Amin	خرفوف	r	Hemicryptophyte	p	b	pogonochore	Jun-Jul	SNN
<i>Filago mareotica</i> Delile	-	c	Therophyte	a	b	pogonochore	Mar-May	SNA
<i>Helichrysium orientale</i> (L.) Gaertn.	-	rr	Phanerophyte	p	b	pogonochore	Apr-Jun	SNN
<i>Hyoseris radiata</i> subsp. <i>graeca</i> Halácsy	-	c	Hemicryptophyte	p	b	pogonochore	Mar-Jun	SNN
<i>Hyoseris scabra</i> L.	-	rr	Therophyte	a	b	pogonochore	Feb-Apr	SNN
<i>Taraxacum minimum</i> (Brig. ex Guss.) N. Terracc.	-	rr	Hemicryptophyte	p	b	pogonochore	Aug-Jan	SNN
Boraginaceae								
<i>Anchusa undulata</i> subsp. <i>hybrida</i> (Ten.) Cout.	فلحك	r	Therophyte	a	b	Sarcochore	Mar-May	SNN
<i>Heliotropium hirsutissimum</i> Grauer	-	r	Therophyte	a	b	Sarcochore	May-Oct	SNN
Caprifoliaceae								
<i>Valerianella petrovitchii</i> Asch.	-	rr	Therophyte	a	b	Desmochore	Mar-Apr	SNN
Caryophyllaceae								
<i>Herniaria cyrenaica</i> F.Herm.	أم لبيد	rr	Hemicryptophyte	p	b	Microsclerochore	Mar-Jun	SNN
<i>Silene fruticosa</i> L.	-	rr	Chamaephyte	p	b	Barochore	Mar-July	SNN

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Cistaceae								
<i>Helianthemum crassifolium</i> subsp. <i>sphaerocalyx</i> (Gaub. & Janch.) Maire	-	r	Chamaephyte	p	b	Ballochore	Feb-Apr	SNN
Convolvulaceae								
<i>Convolvulus humilis</i> Jacq.	-	rr	Therophyte	a	b	Sarcochore	Mar-May	SNN
Euphorbiaceae								
<i>Euphorbia parvula</i> Delile	لين	rr	Therophyte	a	m	Sarcochore	Mar-May	SNN
Fabaceae								
<i>Anthyllis vulneraria</i> subsp. <i>maura</i> (Beck) Maire	-	rr	Therophyte	a	b	Ballochore	Feb-May	SNN
<i>Coronilla repanda</i> (Poir.) Guss.	-	rr	Therophyte	a	b	Barochore	Mar-May	SNN
<i>Ebenus armitagei</i> Schweinf. & Taub.	-	rr	Phanerophyte	p	b	pogonochore	Feb-May	SNN
<i>Hedysarum spinosissimum</i> L.	-	r	Therophyte	a	b	pogonochore	Mar-Apr	SNN
<i>Lotus cytisoides</i> L.	-	rr	Hemicryptophyte	p	b	Ballochore	Mar-Jun	SNN
<i>Lotus polyphyllus</i> Clarke	-	c	Chamaephyte	p	b	Ballochore	Mar-July	SNN
<i>Trifolium argutum</i> Sol.	قصاب	rr	Therophyte	a	b	Pterochore	Feb-Apr	SNN
<i>Trigonella berythea</i> Boiss. & Blanche	حنشوق	rr	Therophyte	a	b	Sarcochore	Mar-Apr	SNN
<i>Vicia sinaica</i> Boulos	نحريج	rr	Therophyte	a	b	Ballochore	-	SNN
<i>Lathyrus marmoratus</i> Boiss. & Blanche	جيرحد	r	Therophyte	a	b	Ballochore	Feb-Apr	SNN
Lamiaceae								
<i>Teucrium brevifolium</i> Schreb.	-	rr	Chamaephyte	p	b	Microsclerochore	Mar-May	SNN
<i>Thymbra capitata</i> (L.) Cav.	زعر	c	Chamaephyte	p	b	Microsclerochore	Jul-Sep	SNA
Papaveraceae								
<i>Fumaria judaica</i> Boiss. subsp. <i>judaica</i>		r	Therophyte	a	b	Sarcochore	Jan-Apr	SNN
<i>Fumaria microstachys</i> Kralik ex Hausskn.	-	rr	Therophyte	a	b	Microsclerochore	Mar-May	SNN
<i>Fumaria gaillardotii</i> Boiss.	-	r	Therophyte	a	b	Sporochore	Feb-May	SNN
Plantaginaceae								
<i>Linaria joppensis</i> Bornm.	-	rr	Therophyte	a	b	Ballochore	Mar-Apr	SNN

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<i>Veronica syriaca</i> Roem. & Schult.	حقيق، زهرة الواشي السورية	rr	Therophyte	a	b	Ballochore	Jan-Apr	SNN
Plumbaginaceae								
<i>Limonium echiioides</i> (L.) Mill.	-	rr	Therophyte	a	b	Sarcochore	Apr-Jun	SNN
<i>Limonium sinuatum</i> subsp. <i>romanum</i> Täckh. & Boulos	-	rr	Hemicryptophyte	p	b	Ballochore	Mar-Jun	SNN
Poaceae								
<i>Cynosurus coloratus</i> Lehm. ex Steud.	-	rr	Hemicryptophyte	a	b	Pterochore	Mar-May	SNN
<i>Desmazeria philistaea</i> (Boiss.) H.Scholz	حلفا	rr	Therophyte	a	b	pyrenochore	Mar-Apr, Aug	SNN
<i>Trisetaria koelerioides</i> (Borrm. & Hack.) Melderis	-	rr	Therophyte	a	b	pyrenochore	Mar-May	SNN
Posidoniaceae								
<i>Posidonia oceanica</i> (L.) Delile	شتارة	cc	Hydrophyte	p	b	cyclochore	Jul-Aug	SNN
Resedaceae								
<i>Reseda orientalis</i> (Müll.Arg.) Boiss.	ذيل الخروف	rr	Therophyte	a	b	Sarcochore	Jan-Feb	SNN
Rubiaceae								
<i>Valantia columella</i> (Ehrenb. ex Boiss.) Bald.	-	r	Therophyte	a	b	Ballochore	-	SNN
Santalaceae								
<i>Thesium humile</i> var. <i>maritima</i> (N.D.Simpson) F.M.Saad	حب الكريس	r	Therophyte	a	b	Microsclerochore	Feb-May	SNN
Scrophulariaceae								
<i>Verbascum letourneuxii</i> Asch.	-	r	Hemicryptophyte	p	b	ballochore	Apr-May	SWN
Solanaceae								
<i>Lycium schweinfurthii</i> var. <i>aschersonii</i> (Dammer) Feinbrun	جسوع	r	Phanerophyte	p	b	Sarcochore	All year round	SNN