Appendix

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Wild species recorded in the Egyptian gardens. Life forms are **Hm**: Hemicryptophyte, **Hy**: Hydrophyte, **Th**: Therophyte, **Ph**: Phanerophyte, **Ch**: Chamaephyte, **Ge**: Geophyte and **He**: Helophyte. Natural habitats are **RO**: rocky habitats (rocky crevices, rocky hillsides, volcanic soil and stony soil, **AQ**: aquatic habitats (e.g. Nile, Nile canals, Nile banks, lakes, canals, pools, ditches, and rice fields), **SA**: sandy habitats (e.g. coastal sand dunes, sand plains and sandy soil), **CU**: cultivated habitats (e.g. weeds of cultivation, fields, escapes from cultivation or on roadsides among cultivated areas), **WA**: wastelands, **WE**: wetlands and **SL**: salt-marshes. National phytogeographical regions (according to Boulous 2009) are **N**: Nile region, **O**: Oases of the Western Desert, **ME**: Mediterranean coastal, **DE**: Desert, **R**: Red Sea coastal strip, **GE**: Gebal Elba and **S**: Sinai Peninsula. **Economic uses** are **ME**: Medicine, **HF**: Feeding, **OT**: other uses (e.g. industry, dyes, aromatic oils, painting, resin and etc.), **TI**: timber, **Fu**: Fuel and **GZ**: grazing. **Environmental benefits** are **NF**: nitrogen fixer, **SA**: sand accumulator, **WB**: windbreaker, **RR**: Riverbank retainer, **SH**: Shading and **WP**: water purifier. Local threats are coded as **OG**: Overgrazing and browsing, **OC**: Over collecting and over cutting, **CA**: Clearance for agriculture, **Hl**: Habitat loss, **DI**: Disturbance by cars and **MI**: Mining. * represents threatened species, ** represents alien species. **References** are Raunkiaer (1937), Seif El-Nasr and Bidak (2005), Boulos (2009), Shaltout et al. (2010), Shaltout and Ahmed (2012) and plant list database (http://www.theplantlist.org)

Species	Life forms	Phytogeographical regions	Natural habitats	Economic uses	Environ-mental benefits	Local threats	Family
Acacia laeta R. Br. ex Benth.	Ph	N, O, GE	RO	GR, OT	NF, SH	BO	Fabaceae
Acacia nilotica (L.) Willd. Ex Delile	Ph	N, O, DE	AQ	GR, ME, FU, TI, OT	BR, NF, SH	BO, OC, MQ	Fabaceae
Acacia seyal Delile	Ph	N	AQ	OT	NF, SH	MQ	Fabaceae
Adiantum capillus-veneris L.	Hm	N, O, ME, DE, R, GE, S	WE, AQ	ME		OC, BO	Pteridaceae
Ageratum conyzoides L.	Ch	N, O	WE, AQ	ME		OC, MQ	Asteraceae
Ageratum houstonianum Mill.	Ch	N	AQ			MQ	Asteraceae
Aizoon canariensis Linn.	Th	ME, DE, GE, S	SA, RO	ME		OC, CA	Aizoaceae
Alcea rosea L.**	Th	S	CU	GR		BO	Malvaceae
Alhagi graecorum Boiss.	Hm	N, O, ME, DE, R, S	WE, WA, CU	GR,ME, HF, FU,OT	RR, SA, NF	BO, OC, DT	Fabaceae
Amaranthus hybridus L.**	Th	N, ME, O, S	CU	ME, HF	WP	OC	Amaranthaceae
Amaranthus tricolor L.**	Th	N, ME	CU		WP		Amaranthaceae
Anemone coronaria L.	Th	ME, S	CU, SA			HL	Ranunculaceae
Apium graveolens var. *dulce* (Mill.) Pers.	Th	ME, DE, S	CU	HF, ME		OC	Apiaceae

Appendix Cont.1.

Species	Life forms	Phytogeographical regions	Natural habitats	Economic uses	Environ-mental benefits	Local threats	Family
Argemone mexicana L.	Th	N	AQ,WA, CU			MQ, DT	Papaveraceae
Atriplex halimus L.	Ph	ME, DE, S	SA, SL	GR, ME, HF, OT	SA	BO, OC, CA	Amaranthaceae
Avena fatua L.	Th	N, O, ME, DE, S	CU	ME		OC	Poaceae
Azolla caroliniana Willd.	Hy	N	AQ	GR, ME, OT	WP	BO, OC	Salviniaceae
Balanites aegyptiacus (L.) Delile	Ph	N, O, ME, DE, S	SA, RO	GR, ME, HF, OT	RR	BO, OC, CA	Zygophyllaceae
Brassica nigra L.	Th	N	CU	ME, HF		OC	Brassicaceae
Brassica rapa L.**	Th	N, O, ME	CU	HF, ME		OC	Brassicaceae
Calotropis procera (Aiton) W.T.Aiton	Ph	N, O, DE, R,GE, S	SA, CU	ME		OC, CA	Apocynaceae
Caralluma acutangula (Decne.) N.E.Br.	Ph	GE	RO	HF			Apocynaceae
Cardiospermum halicacabum L.	Ph	N, O	CU			DT	Sapindaceae
Ceratonia siliqua L.	Ph	S	RO	HF, ME, TI, OT			Fabaceae
Cichorium divaricatum Schousb.	Th	N, O, ME	CU, WE	ME, HF		BO, OC, HL	Astraceae
Clitoria ternatea L.**	Th	N	CU	ME, HF	NF	OC	Fabaceae
Commelina benghalensis L.	Th	N	CU	HF			Commelinaceae
Convolvulus arvensis L.	Hm	N, ME, O, R	CU, WA	GR, HF		BO	Convolvulaceae
Cordia sinensis Lam.	Ph	O, GE	WE	ME		HL	Boraginaceae
Cortaderia selloana Schult. & Schult.f.	Th	ME, S	CU				Poaceae
Cynodon dactylon (L.) Pers.	Ge, He	N, ME	SA,RO,AQ,CU	GR, ME, HF	RR	BO, OC, CA	Poaceae
Cyperus alternifolius L.	Th	N	CU	GR, ME		BO, OC	Cyperaceae
Cyperus papyrus L.*	Ge, He	N	CU, AQ	ME, OT		OC	Cyperaceae
Datura inoxia Mill. **	Th	N	WA	ME		OC	Solanaceae
Datura stramonium L. **	Th	N	WA	ME		BO,CA, HL, MQ, OC	Solanaceae
Dianthus chinensis L.	Th	S	RO	ME		OC	Caryophyllaceae
Dichrostachys cinerea (L.) Wight and Arn.*	Th	N	AQ			BO, OC, MQ	Fabaceae

Appendix Cont.2.

Species	Life forms	Phytogeographical regions	Natural habitats	Economic uses	Environmental benefits	Local threats	Family
Dracaena ombet Kotschy and Peyr. *	Ph	GE	RO	HF		HL, OC, CA	Asparagaceae
Echinochloa crus-galli (L.) Beauv	Th	N, O, ME, DE	AQ	GR		BO	Poaceae
Echinochloa stagnina (Retz.) P.Beauv	Th	N, O, ME, DE	AQ, WE	GR		BO, MQ	Poaceae
Eichhornia crassipes (Mart.) Solms	Hy	N, O, ME	AQ	GR, OT	WP		Pontederiaceae
Elodea canadensis Michx.	Hy	N	AQ	HF			Hydrocharitaceae
Ephedra alata Decne	Ph	O, ME, DE, S	SA	ME	WB, SA	OC, CA	Ephedraceae
Ephedra aphylla Forssk.	Ph	ME, DE, S	SL	ME		OC	Ephedraceae
Euphorbia heterophylla L. **	Th	N, O, ME	CF	ME		OC	Euphorbiaceae
Euphorbia mauritanica L.**	Hm	N, ME	SA, RO	ME		OC, CA	Euphorbiaceae
Faidherbia albida (Delile) A. Chev.	Ph	N, DE	AQ,SA,WE	GR,ME,HF,TI, OT	NF	BO, OC, MQ	Fabaceae
Ficus sycomorus L.	Ph	N, O, ME, S	AQ,WE, CU	HF, OT		HL, OC, CA	Moraceae
Ficus carica L. ***	Ph	N, DE	CU	HF, OT		HL, OC, CA	Moraceae
Ficus palmata Forssk.	Ph	DE, GE, S	RO				Moraceae
Hibiscus sabdariffa L.**	Th	N, O	CU	HF, ME		OC	Malvaceae
Hyphaene thebacia (L.) Mart.	Ph	N	SA	HF, ME		OC	Arecaceae
Ipomoea carnea Jacq. **	Ch	N	AQ,WE,WA	GR, HF		BO, MQ	Convolvulaceae
Ipomoea pes-caprae (L.) R. Br.**	Hm	DE, S	SA, SL	GR, HF		BO, MQ	Convolvulaceae
Ipomoea purpurea (L.) Roth.	Hm	N	CU	ME		OC	Convolvulaceae
Lantana camara L. **	Ph	N	WE, WA	ME		OC	Verbenaceae
Lemna gibba L.	Hy	N, O, ME	AQ	GR, OT		BO	Araceae
Lolium perenne L.	Th	N, O, ME	CU	ME, HF		OC	Poaceae
Lotus glaber Mill.	Th	N, O, ME	WE,CU, AQ	HF,ME,TI,OT	NF	OC	Fabaceae
Malva parviflora L.	Th	N, O, ME, DE, R, GE, S	CU,WA, SA	GR, ME, HF		BO, OC, DT	Malvaceae

Appendix Cont 3.

Species	Life forms	Phytogeo-graphical regions	Natural habitats	Economic uses	Environ-mental benefits	Local Threats	Family
Malva sylvestris L.	Th	N, ME, S	CU	HF		DT	Malvaceae
Medemia argun (Mart.) Wurttenb. ex H.Wendl. *	Ph	O, DE	SA	OT		OC	Arecaceae
Medicago lupulina L.	Th	ME, O, S	WE, CU	OT		DT	Fabaceae
Medicago sativa L. sub. sp. *sativa* **	Th	N, O, ME, S	CU, WA	HF, ME		OC, MQ, DT	Fabaceae
Melilotus albus Medik	Hm	N, S	CU	GR, ME	NF, WP	BO, OC	Fabaceae
Mentha longifolia (L.) Huds.	Th	N, O, S	AQ	ME, HF		OC	Lamiaceae
Mimosa pigra Justenius	Th	N, DE	AQ, WE	OT		MQ	Fabaceae
Moringa peregrina (Forssk.) Fiori	Ph	S, DE	RO	ME, HF, OT		OC	Moringaceae
Narcissus tazetta L.	Th	ME, S	SA	OT	SA	CA	Amaryllidaceae
Nicotiana glauca Graham **	Ph	N, O, ME, DE, S	WA	ME		OC	Solanaceae
Nigella sativa L. **	Th	N, ME	CU	ME, HF, OT		OC	Ranunculaceae
Nymphaea lotus L.*	Hy	N, ME	AQ	ME		OC	Nymphaeaceae
Olea europea L.sub sp. *europea*	Ph	N, O, ME, DE, S	CU	HF, ME, OT		OC, DT	Oleaceae
Oxalis pes-caprae L. **	Ph	N, ME, S	WE, CU	ME, HF		OC	Oxalidaceae
Papaver rhoeas L.	Th	N, ME, DE, S	CU	ME		OC, DT	Papaveraceae
Pennisetum setaceum (Forssk.) Chiov.	Ge, He	N, ME, DE, GE, S	SA, RO, CU	GR, OT		BO, CA	Poaceae
Phoenix dactylifera L.	Ph	N, ME, O, DE, R, GE, S	SA,AQ, CU	GR, ME, HF, FU, TI, OT	WB	BO, OC	Arecaceae
Phragmites australis (Cav.) Trin. Ex Steud.	Ge, He	N, O, ME, DE, R, S	AQ, SA, WE	GR, OT	WP	BO, CA	Poaceae
Phyla nodiflora (L.) Greene	Hm	N, O, ME, DE, S	WE, AQ	HF, OT		BO	Verbenaceae
Phyllanthus reticulatus Poir.	Ph	N	CU	ME, OT		OC, DT	Phyllanthaceae
Pistacia lentiscus L.	Ph	ME	SA, RO	OT		CA	Anacardiaceae
Pistia stratiotes L.	Hy	N	AQ	HF			Araceae
Portulaca oleracea L.	Th	N, GE	CU, WE	GR, ME, HF		BO, OC, CA	Portulacaceae
Prosopis farcta (Banks & Sol.) J.F.Macbr.	Ph	N, O, ME, DE, S	SA, CU, AQ	ME, OT	NF	OC, CA	Fabaceae

Appendix Cont. 4.

Species	Life forms	Phytogeographical regions	Natural habitats	Economic uses	Environmental benefits	Local threats	Family
Pteris vittata L.*	Hm	N	RO	OT	NF	HL	Pteridaceae
Ricinus communis L. **	Ph	N, ME, O, DE, R, GE, S	SA, CU	ME, OT	WB, SA	OC	Euphorbiaceae
Salix mucronata Thunb.	Ph	N, O, ME, DE, S	AQ, CU	ME	RR, WB	OC	Salicaceae
Salix tetrasperma Roxb.**	Ph	N, ME, DE	AQ, CU	ME, TI, OT	RR, WB	OC	Salicaceae
Salvadora persica L.	Ph	N, O, R, GE, S	SA, RO	ME, OT		OC, CA	Salvadoraceae
Senna occidentalis (L.) Link.	Ph	N, O	CU	OT	NF	MQ, DT	Fabaceae
Sesbania sesban (L.) Merrill	Ph	N, ME, O, S	AQ, CU	GR, ME, HF, TI, OT	SH	BO, OC, MQ	Fabaceae
Solenostemma arghel (Delile) Hayne	Ph	DE, S, GE	RO, SA	ME		OC, CA	Apocynaceae
Tamarix aphylla (L.) Karst.	Ph	N, O, ME, DE, R, GE, S	SL, SA	OT	WB	CA	Tamaricacaeae
Tamarix nilotica (Ehrenb.) Bunge	Ph	N, O, ME, DE, R, GE, S	SA, SL	ME, FU, TI, OT	WB, SA	OC, CA	Tamaricacaeae
Withania somnifera (L.) Dunal	Ch	N, O, ME, GE	WA	ME		OC	Solanaceae
Ziziphus spina-christi (L.) Desf. Willd. **	Ph	N, O, ME, DE, R, GE, S	SA, RO	HF, TI, FU, TI, OT	WB, SA, SH	CA	Rhamnaceae