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Supplementary material 3. List of segetal species in the traditional agroecosystems of the Rif Mountains (Morocco). **Bou Ahmed** (BA). **Bellota** (BE). **Boujediane** (BJ). **Jnan Annich** (JN). **Tafza** (TZ). **Tanakoub** (TA). **Absolute frequency** (Fa). **Relative frequency** (Fr). **Life forms** (LF) **are:** Th: Therophyte, G: Geophyte, Hem: Hemicryptophyte, Ch: Chamaephyte. **Chorotypes** (CT) are: **Regional:** Ibero-Maghrebian (B). **Extended:** North-Africa (A); West-Mediterranean (C); West-Mediterranean, Macaronesian (F). **Mediterranean broad-ranging:** Mediterranean (D); West-Mediterranean and Europe (G); South-Mediterranean - Saharo-arabic (H); Mediterranean - Saharo–Arabic (I); Mediterranean - Macaronesian (J); Mediterranean - Irano-Turanian (K); Mediterranean - West-Asia (L); Mediterranean - Europe (M); Mediterranean – Eurasia (N); Mediterranean – Atlantic (O); Mediterranean - West-Asia - Europe (R); Mediterranean – Macaronesian - Irano-Turanian (S); Mediterranean – Macaronesian – Atlantic (T); Mediterranean – Atlantic – Paleotropical (U); Mediterranean – Macaronesian – Europe (V); Mediterranean – Macaronesian – Eurasia (W); Mediterranean – Macaronesian – Eurosiberian (X); Mediterranean - West-Asia – Neotropical (Y); Mediterranean – Macaronesian - Irano–Turanian - Europe (AA); Mediterranean – Macaronesian - West and Center Asia (AB); Mediterranean – Macaronesian - West-Asia – Europe (AC). **Palearctic:** North-Africa – Eurasian – Macaronesian (Z); Eurasian (E); Eurasian - North-Africa (P); Europe - North-Africa (Q). **Global:** Subcosmopolite (AD); Cosmopolite (AE); Paleotemperate (AF); Holarctic (AG); Neotropical (AH); North America (AI); South-Africa (AJ). **Weed types (WT) are:** Agrestal (Ag); Apophyte (Ap); Ruderal (Rd). **Habitat types** (HT) **are:** Agricultural Habitat (AgH); Sparsely vegetated natural habitat (NHO); Natural habitat, well vegetated (NHC); Ruderal (Rud).

Species	Family	LF	CT	FS	HT	Fa. BA	Fa. BE	Fa. BJ	Fa. JN	Fa. TN	Fa. TA	Fa	Fr
Adonis aestivalis L.	Ranunculaceae	Th	R**	Ag	AgH	4	0	5	0	1	4	14	14.9
Allium nigrum L.	Alliaceae	G	C	Ag	AgH, NHO	3	3	6	7	3	5	27	28.7
Alyssum simplex Rudolphi	Brassicaceae	Th	K	Rd	AgH, NHO	6	0	0	0	0	0	6	6.4
Amaranthus blitoides S. Watson	Amaranthaceae	Th	AI	Rd	R	0	0	0	0	1	0	1	1.1
Amaranthus retroflexus L.	Amaranthaceae	Th	AD	Rd	R	0	1	2	2	1	0	6	6.4
Ammi majus L.	Apiaceae	Th	D	Ag	AgH, NHO	7	4	0	0	0	0	11	10.7
Ammi visnaga (L.) Lam.	Apiaceae	Th	D	Ag	AgH, NHO	0	0	0	5	4	0	9	9.6
Anacyclus clavatus (Desf.) Pers.	Asteraceae	Th	D	Ag	AgH, NHO	2	0	2	0	0	0	4	4.3
Anacyclus radiatus Loisel.	Asteraceae	Th	D	Rd	NHO, R	18	0	1	0	0	0	19	20.2
Anagallis arvensis L.	Primulaceae	Th	AG	Ag	AgH, NHO	16	2	14	13	6	12	63	67
Anchusa azurea Mill.	Boraginaceae	Hem	E	Rd	AgH, NHO, R	7	5	0	5	7	1	25	26.6
Andryala integrifolia L.	Asteraceae	Th, Hem	D	Rd	NHC, NHO, R	3	1	7	0	1	7	19	20.2
Anisantha madritensis (L.) Nevski	Poaceae	Th	J	Ag	NHC, NHO	16	3	6	14	5	6	50	53.2
Anisantha rigida (Roth) Hylander	Poaceae	Th	J	Rd	NHC, NHO, R	0	0	0	0	1	0	1	1.1
Anisantha rubens (L.) Nevski	Poaceae	Th	J	Ag	AgH, NHO	5	0	0	5	0	0	10	10.6
Anisantha sterilis (L.) Nevski	Poaceae	Th	J	Ag	AgH, NHC, NHO	3	0	0	0	0	0	3	3.2
Anthyllis cornicina L.	Fabaceae	Th	C	Ap	NHO	0	0	3	0	0	0	3	3.2
Arenaria leptoclados (Reichenb.) Guss.	Caryophyllaceae	Th	D	Ap	AgH, NHC, NHO	0	0	8	0	0	0	8	8.5
Arisarum vulgare subsp. *simorrhinum* (Durieu) Maire & Weiller	Araceae	G	D	Rd	R	0	2	0	1	2	2	7	7.4
Aristida adscensionis L.	Poaceae	Th, Hem	H	Ap	NHO	1	0	0	0	0	0	1	1.1
Aristolochia paucinervis Pomel	Aristolochiaceae	G	F	Ap	NHO, NHC, AgH	0	2	1	1	5	0	9	9.6
Asperula hirsuta Desf.	Rubiaceae	Ch, Hem	B	Ap	NHO	0	2	0	0	0	0	2	2.1
Astragalus boeticus L.	Fabaceae	Th	S	Ap	NHO	0	0	0	2	0	0	2	2.1
Astragalus pelecinus (L.) Barneby	Fabaceae	Th	J	Ap	NHO	3	0	0	0	0	0	3	3.2
Avena sativa L.	Poaceae	Th	AE	Ag	AgH	1	0	0	0	0	0	1	1.1
Avena sterilis L.	Poaceae	Th	AD	Ag	AgH, NHO	11	4	12	2	4	9	42	44.7

Bellis sylvestris Cirillo	Asteraceae	Hem	D	Ap	NHC	0	0	0	7	0	0	7	7.4
Beta macrocarpa Guss.	Chenopodiaceae	Th	J	Rd	R, NHO	1	0	0	2	2	0	5	5.3
Beta vulgaris subsp. maritima (L.) Arcang.	Chenopodiaceae	Th, Hem	J	Ap	NHO	5	0	2	6	0	0	13	13.8
Bifora testiculata (L.) Spreng.	Apiaceae	Th	Y	Ag	AgH	0	0	2	0	0	0	2	2.1
Biscutella auriculata L.	Brassicaceae	Hem	C	Ag	AgH	6	3	6	0	0	7	22	23.4
Blackstonia perfoliata (L.) Hudson	Gentianaceae	Th	AG	Ap	NHO	0	3	0	0	0	0	3	3.2
Borago officinalis L.	Boraginaceae	Th	J	Rd	R	2	0	0	5	0	2	9	9.6
Brassica barrelieri (L.) Janka	Brassicaceae	Th	B	Ap	NHO	0	8	0	0	0	0	8	8.5
Briza maxima L.	Poaceae	Th	D	Ag	AgH, NHO	0	0	0	0	1	0	1	1.1
Bromus hordeaceus L.	Poaceae	Th	X	Ag	AgH, NHC, NHO	1	0	0	0	0	0	1	1.1
Bromus lanceolatus Roth	Poaceae	Th	J	Ag	AgH, NHO	0	0	1	0	0	0	1	1.1
Bupleurum lancifolium Hornem.	Apiaceae	Th	D	Ag	AgH	0	0	0	1	0	0	1	1.1
Calendula arvensis (Vaill.) L.	Asteraceae	Th	D	Rd	R	1	6	0	8	0	0	15	16
Calendula stellata Cav.	Asteraceae	Th	D	Rd	R	0	0	0	1	0	0	1	1.1
Capsella bursa-pastoris (L.) Medik.	Brassicaceae	Th, Hem	AE	Rd	R	6	4	5	0	4	0	19	20.2
Carduus pycnocephalus L.	Asteraceae	Th	G	Rd	R, NHO	6	0	0	13	1	0	20	21.3
Carex pendula Hudson*	Cyperaceae	Hem	AF	Ap	NHO	0	0	0	1	0	0	1	1.1
Centaurea calcitrapa L.	Asteraceae	Th, Hem	M	Ap	NHO, R	1	0	0	0	6	5	12	12.8
Centaurea melitensis L.	Asteraceae	Th	D	Ap	NHO, Agh	1	0	0	3	0	0	4	4.3
Centaurea pullata L.	Asteraceae	Th, Hem	B	Ap	NHO	0	2	0	0	0	2	4	4.3
Cerastium brachypetalum Pers.	Caryophyllaceae	Th	Q	Ap	NHC, NHO	0	0	0	0	0	3	3	3.2
Chamaemelum fuscatum (Brot.) Vasc.	Asteraceae	Th	C	Ap	NHO	0	0	0	0	0	5	5	5.3
Chamaerops humilis L.	Arecaceae	Phan	C	Ap	NHC, NHO	0	0	0	2	0	0	2	2.1
Chenopodiastrum murale (L.) S.Fuentes, Uotila & Borsch	Chenopodiaceae	Th	AE	Rd	R, AgH	8	0	0	6	1	0	15	16
Chenopodium album L.	Chenopodiaceae	Th	AD	Ag	AgH, R	0	0	4	4	2	1	11	11.7
Cichorium intybus L.	Asteraceae	Hem	R	Ag	AgH, R, NHO	0	0	0	8	1	2	11	11.7
Cistus salviifolius L.*	Cistaceae	Ch, Ph	D	Ap	NHC	0	0	0	2	0	0	2	2.1
Cladanthus arabicus (L.) Cass.	Asteraceae	Th	B	Ag	AgH, NHO	4	0	0	2	0	0	6	6.4
Convolvulus althaeoides L.	Convolvulaceae	Hem	J	Ag	AgH, NHO ,NHC	11	3	11	2	5	11	43	45.7

Convolvulus arvensis L.	Convolvulaceae	G, Hem	AD	Ag	AgH, NHO, R	2	5	9	6	2	8	32	34
Convolvulus tricolor L.	Convulvulaceae	Th, Hem	J	Ag	NHO	0	0	0	0	1	4	5	5.3
Coronilla scorpioides (L.) Koch	Fabaceae	Th	J	Ag	AgH, NHO	0	1	0	0	0	1	2	2.1
Crataegus monogyna Jacquin*	Rosaceae	Phan	M	Ap	NHC	0	0	0	2	0	0	2	2.1
Cynara cardunculus L.*	Asteraceae	Hem, G	D	Ap	NHO	0	0	0	3	0	0	3	3.2
Cynodon dactylon (L.) Pers.	Poaceae	G, Hem	AE	Rd	R, AgH, NHO	4	0	8	3	4	1	20	21.3
Dactylis glomerata L.*	Poaceae	Th, Hem	D	Ap	NHC, NHO	4	0	0	1	0	0	5	5.3
Datura stramonium L.	Solanaceae	Th	AH	Rd	R, AgH	0	0	0	1	0	0	1	1.1
Diplotaxis catholica (L.) DC.	Brassicaceae	Th	B	Ag	AgH, NHO	4	0	0	0	0	0	4	4.3
Dittrichia viscosa (L.) Greuter	Asteraceae	Ch	D	Rd	R	16	2	2	10	1	5	36	38.3
Dysphania ambrosioides (L.) Mosyakin & Clemants	Chenopodiaceae	Th, Hem	AE	Rd	R, AgH	7	0	0	4	0	0	11	11.7
Echinops spinosissimus Turra	Asteraceae	Hem	D	Ap	NHO	0	0	0	0	1	3	4	4.3
Echium horridum Batt.	Boraginaceae	Th	A	Ap	NHO	16	0	0	10	0	0	26	27.7
Echium plantagineum L.	Boraginaceae	Th	J	Rd	R	1	2	8	1	0	4	16	17
Emex spinosa (L.) Campd.	Polygonaceae	Th	J	Rd	R	4	4	11	2	8	11	40	42.6
Erodium cicutarium (L.) L'Hér.	Geraniaceae	Th	Z	Ag	AgH, NHO	4	1	3	0	0	0	8	8.5
Erodium moschatum (L.) L'Hér.	Geraniaceae	Th	J	Ag	AgH, NHO	6	0	0	4	0	2	12	12.8
Eryngium campestre L.	Apiaceae	Hem	N	Ap	NHO	0	0	2	0	1	0	3	3.2
Euphorbia exigua L.	Euphorbiaceae	Th	V	Ag	AgH	5	0	0	6	0	0	11	11.7
Euphorbia helioscopia L.	Euphorbiaceae	Th	AE	Ag	Agh, NHO	0	0	0	0	3	0	3	3.2
Euphorbia medicaginea Boiss.	Euphorbiaceae	Th	B	Ag	AgH, NHO	1	3	2	0	1	0	7	7.4
Fallopia convolvulus (L.) A. Löve	Polygonaceae	Th	Z	Ag	AgH, NHO	0	0	3	0	2	0	5	5.3
Fedia cornucopiae (L.) Gaertner	Valerianaceae	Th	B	Ag	AgH, NHO	0	1	0	10	3	1	15	16
Filago gallica L.	Asteraceae	Th	D	Ag	AgH, NHO	1	0	0	0	0	0	1	1.1
Filago micropodioides Lange	Asteraceae	Th	C	Ap	NHO	1	0	0	0	0	0	1	1.1
Filago pyramidata L.	Asteraceae	Th	D	Ap	NHO	5	0	0	0	0	0	5	5.3
Filago ramosissima Lange*	Asteraceae	Th	B	Ap	NHO	0	0	0	0	3	6	9	9.6
Foeniculum vulgare Miller	Apiaceae	Hem	AF	Rd	R, NHO	2	0	0	0	0	0	2	2.1
Fumaria agraria Lag.	Papaveraceae	Th	F	Ag	AgH, NHC, NHO	6	0	0	0	0	0	6	6.4

Fumaria melillaica Pugsley*	Papaveraceae	Th	B	Ag	AgH, NHO	0	0	0	0	0	2	2	2.1
Fumaria officinalis L.	Papaveraceae	Th	M	Ag	AgH, NHO	0	0	0	4	3	3	10	10.6
Fumaria parviflora Lam.	Papaveraceae	Th	D	Ag	AgH, NHO	2	0	0	8	1	0	11	11.7
Galactites tomentosus Moench	Asteraceae	Th	D	Rd	R	4	1	11	5	2	6	29	30.9
Galium aparine L.	Rubiaceae	Th	AD	Ag	AgH, NHO	1	3	0	1	2	0	7	7.4
Galium tricornutum Dandy	Rubiaceae	Th	X	Ag	AgH	2	0	0	4	0	0	6	6.4
Galium verrucosum Hudson	Rubiaceae	Th	J	Ag	AgH, NHO	7	0	0	1	3	9	20	21.3
Geranium molle L.	Geraniaceae	Th	AF	Ag	AgH, NHO	0	0	2	3	0	3	8	8.5
Geranium rotundifolium L.	Geraniaceae	Th	AF	Rd	R, NHO	0	1	0	0	0	0	1	1.1
Gladiolus italicus Mill.	Iridaceae	G	S	Ag	AgH, R	0	1	2	0	6	1	10	10.6
Glaucium flavum Crantz	Papaveraceae	Hem	T	Ap	NHO	0	0	0	5	0	0	5	5.3
Glebionis coronaria (L.) Spach	Asteraceae	Th	D	Ag	AgH, NHO	3	7	11	5	1	10	37	39.4
Glebionis segetum (L.) Fourr.	Asteraceae	Th	M	Ag	AgH	18	0	0	0	1	9	28	29.8
Helminthotheca echioides (L.) Holub	Asteraceae	Hem	L	Ag	AgH	0	0	0	0	5	1	6	6.4
Herniaria hirsuta L.	Caryophyllaceae	Th	P	Ag	AgH, NHO	2	0	0	0	0	0	2	2.1
Heteranthemis viscidehirta Schott	Asteraceae	Th	B	Ag	AgH, NHO	0	0	1	0	2	0	3	3.2
Hirschfeldia incana (L.) Lagrèze -Fossat	Brassicaceae	Hem, Th	K	Rd	R, AgH	9	3	5	5	3	5	30	31.9
Hordeum murinum L.	Poaceae	Th	AF	Rd	R, AgH	16	0	1	6	1	0	24	25.5
Hyparrhenia sinaica (Delile) G. López*	Poaceae	Th	AD	Ap	NHO	0	0	0	0	1	0	1	1.1
Hypochaeris glabra L.	Asteraceae	Hem, Th	O	Ag	AgH, NHO	3	0	1	5	0	0	9	9.6
Hypochaeris radicata L.	Asteraceae	Hem	M	Ap	NHC, NHO	0	0	3	5	0	0	8	8.5
Lactuca serriola L.	Asteraceae	Th	AD	Rd	R, NHC, NHO	1	0	0	16	0	0	17	18.1
Lamarckia aurea (L.) Moench	Poaceae	Th	AB	Ap	NHO	9	0	0	1	0	0	10	10.6
Lamium amplexicaule L.	Lamiaceae	Th	AG	Ag	AgH	6	0	0	4	0	0	10	10.6
Lathyrus cicera L.	Fabaceae	Th	J	Ag	AgH, NHC, NHO	0	0	0	0	3	0	3	3.2
Lathyrus clymenum L.	Fabaceae	Th	J	Ag	AgH	0	1	4	1	0	0	6	6.4
Launaea nudicaulis (L.) Hook. f.	Asteraceae	Th	B	Ap	NHO	9	0	0	1	6	0	16	17
Lavandula stoechas L.*	Lamiaceae	Ch	J	Ap	NHC, NHO	0	0	0	2	0	0	2	2.1
Leontodon tuberosus L.	Asteraceae	Hem	D	Ap	NHO	0	2	4	1	0	0	7	7.4

Linaria incarnata (Vent.) Sprengel	Scrophulariaceae	Th	B	Ag	AgH, NHC	0	0	0	0	0	1	1	1.1
Linaria latifolia Desf.	Scrophulariaceae	Th	B	Ag	AgH, NHC	2	2	0	0	0	0	4	4.3
Lobularia maritima (L.) Desv.	Brassicaceae	Hem	J	Ap	NHO	6	0	0	6	0	0	12	12.8
Lolium multiflorum Lam.	Poaceae	Th, Hem	P	Ap	AgH, NHC, NHO	0	0	0	0	1	5	6	6.4
Lolium rigidum Gaudin	Poaceae	Th	D	Ag	AgH, NHC, NHO	15	0	0	9	0	1	25	26.6
Lolium temulentum L.	Poaceae	Th	AD	Ag	AgH	0	3	13	0	0	0	16	17
Lonicera implexa Aiton*	Caprifoliaceae	Phan	D	Ap	NHC	1	0	0	0	0	0	1	1.1
Lotus pedunculatus Cav.*	Fabaceae	Hem	N	Ap	NHO	3	0	0	2	0	0	5	5.3
Lythrum hyssopifolia L.	Lythraceae	Th	AE	Ap	NHO	0	0	0	0	1	0	1	1.1
Malva parviflora L.	Malvaceae	Th	AF	Rd	R	6	0	0	0	0	1	7	7.4
Malva trimestris (L.) Salisb.	Malvaceae	Th	D	Ag	AgH	0	0	4	0	0	0	4	4.3
Marrubium vulgare L.	Lamiaceae	Ch	P	Rd	R	0	0	0	2	0	0	2	2.1
Mauranthemum decipiens (Pomel) Vogt & Oberpr.*	Asteraceae	Th	B	Ap	NHO	3	0	0	9	0	0	12	12.8
Medicago murex Willd.	Fabaceae	Th	T	Ag	AgH, R	6	0	0	2	0	0	8	8.5
Medicago orbicularis (L.) Bart.	Fabaceae	Th	S	Ag	AgH, NHO	1	0	0	0	0	0	1	1.1
Medicago polymorpha L.	Fabaceae	Hem	AD	Ag	AgH, NHO, R	5	5	8	0	7	1	26	27.7
Melilotus sulcatus Desf.	Fabaceae	Th	J	Ag	AgH, NHO	0	6	3	0	2	2	13	13.8
Mercurialis annua L.	Euphorbiaceae	Th	AD	Rd	R, AgH	2	0	0	0	3	0	5	5.3
Misopates calycinum Rothm.*	Scrophulariaceae	Th	D	Ag	AgH, NHC	0	3	2	0	0	0	5	5.3
Misopates orontium (L.) Rafin.	Scrophulariaceae	Th	D	Ag	AgH, NHC	6	0	0	0	0	0	6	6.4
Muscari comosum (L.) Mill.	Asparagaceae	G	D	Ag	AgH, NHC, NHO	6	4	3	0	5	4	22	23.4
Myriolimon ferulaceum (L.) Lledó, Erben & Crespo	Caryophyllaceae	Ch	D	Ap	NHO	0	0	0	3	0	0	3	3.2
Myrtus communis L.*	Myrtaceae	Phan	D	Ap	NHC	0	0	0	1	0	0	1	1.1
Ochlopoa annua (L.) H. Scholz	Poaceae	Th	AD	Ag	AgH, NHO	0	0	3.5	9.5	2	3	18	19.1
Onopordum macracanthum Schousb.	Asteraceae	Hem	B	Rd	R, NHO	4	0	0	0	0	0	4	4.3
Oxalis pes-caprae L.	Oxalidaceae	Hem	AJ	Rd	R	0	0	0	1	0	0	1	1.1
Pallenis spinosa (L.) Cass.	Asteraceae	Hem	D	Ap	NHO	9	4	0	0	0	0	13	13.8
Papaver rhoeas L.	Papaveraceae	Th	AF	Ag	AgH	8	5	1	7	3	9	33	35.1
Papaver somniferum L.	Papaveraceae	Th	W	Ag	AgH	0	0	0	0	0	1	1	1.1

Paronychia argentea Lam.	Caryophyllaceae	Hem	J	Rd	R, NHO	3	0	0	2	0	0	5	5.3
Phalaris brachystachys Link	Poaceae	Th	D	Ag	AgH, NHO	10	3	9	2	2	2	28	29.8
Phalaris minor Retz	Poaceae	Th	D	Ag	AgH, NHO	7	1	0	7	0	2	17	18.1
Phalaris paradoxa L.	Poaceae	Th	D	Ag	AgH, NHO	0	0	0	0	2	0	2	2.1
Pistacia lentiscus L.*	Anacardiaceae	Phan	J	Ap	NHC	2	0	0	8	0	0	10	10.6
Plantago afra L.	Plantaginaceae	Th	AF	Ag	AgH, NHO	12	1	0	0	0	2	15	16
Plantago lanceolata L.	Plantaginaceae	Th, Hem	AF	Ap	NHO	2	0	0	0	0	0	2	2.1
Plantago serraria L.*	Plantaginaceae	Hem	C	Ap	NHO	0	0	1	0	0	0	1	1.1
Polycarpon tetraphyllum (L.) L.	Caryophyllaceae	Th	AD	Ap	NHO	10	0	0	3	0	0	13	13.8
Polygonum aviculare L.	Polygonaceae	Th	AE	Rd	R, AgH	0	0	3	9	4	3	19	20.2
Polypogon monspeliensis (L.) Desf.	Poaceae	Th	U	Ap	NHO	0	0	0	0	0	1	1	1.1
Quercus coccifera L.*	Fagaceae	Phan	C	Ap	NHC	0	0	0	3	0	0	3	3.2
Ranunculus muricatus L.	Ranunculaceae	Th	J	Ap	NHO	0	1	2	0	1	0	4	4.3
Raphanus raphanistrum L.	Brassicaceae	Th	D	Ag	AgH, R	9	0	8	1	0	9	27	28.7
Reichardia tingitana (L.) Roth	Asteraceae	Th, Hem	I	Ap	NHO	0	0	0	0	2	0	2	2.1
Reseda alba L.	Resedaceae	Th	D	Rd	R, NHO	2	0	0	0	0	0	2	2.1
Rhagadiolus stellatus (L.) Gaertn.	Asteraceae	Th	D	Ag	AgH, NHO	0	1	0	0	0	0	1	1.1
Ridolfia segetum (Guss.) Moris	Apiaceae	Th	D	Ag	AgH	0	1	0	0	2	1	4	4.3
Rostraria cristata (L.) Tzvelev*	Poaceae	Th	AD	Ag	AgH, R, NHC	0	0	0	2	0	0	2	2.1
Rubia peregrina L.	Rubiaceae	Hem	O	Ap	NHC	0	0	0	2	0	0	2	2.1
Rumex acetosella L.*	Polygonaceae	Hem	AE	Rd	R, NHO	0	0	0	5	0	0	5	5.3
Rumex bucephalophorus L.	Polygonaceae	Th	D	Rd	R, NHO	11	0	0	4	4	7	26	27.7
Rumex crispus L.	Polygonaceae	Hem	AD	Rd	R, NHO	0	0	0	5	0	0	5	5.3
Rumex induratus Boiss. & Reuter*	Polygonaceae	Ch, G	B	Ap	NHO	3	0	0	0	0	0	3	3.2
Rumex pulcher L.	Polygonaceae	Hem	AC	Rd	R, NHO	0	0	2	0	0	0	2	2.1
Rumex thyrsoides Desf.	Polygonaceae	Hem	C	Ap	NHO	0	0	0	0	0	8	8	8.5
Scandix pecten-veneris L.	Apiaceae	Th	AF	Ag	AgH, NHO	8	0	0	2	0	0	10	10.6
Scolymus maculatus L.	Asteraceae	Th	D	Ag	AgH, NHO	1	0	0	0	1	0	2	2.1
Scorpiurus muricatus L.	Fabaceae	Th	D	Ag	AgH, NHO	2	7	2	0	4	1	16	17

Scorzoneroides muelleri (Sch. Bip.) Greuter & Talavera	Asteraceae	Th	B	Ap	NHO	0	0	1	0	0	7	8	8.5
Scrophularia canina L.*	Scrophulariaceae	Ch	M	Ap	NHO	0	0	6	0	0	0	6	6.4
Senecio leucanthemifolius Poiret	Asteraceae	Th	D	Ag	AgH, NHO	9	0	0	10	0	15	34	36.2
Senecio vulgaris L.	Asteraceae	Th	AD	Ag	AgH, NHO, NHC	0	0	0	14	0	0	14	14.9
Setaria verticillata (L.) P. Beauv.	Poaceae	Th	AE	Rd	R, AgH	4	0	0	0	0	0	4	4.3
Sherardia arvensis L.	Rubiaceae	Th	AC	Ag	AgH, NHO	9	5	2	11	2	1	30	31.9
Silene diversifolia Otth*	Caryophyllaceae	Th	J	Ag	AgH, NHO	0	0	0	1	0	0	1	1.1
Silene gallica L.	Caryophyllaceae	Th	AD	Ag	AgH, NHO	20	2	7	5	1	12	47	50
Silene nocturna L.	Caryophyllaceae	Th	AF	Ap	NHO	0	0	0	1	0	0	1	1.1
Silene vulgaris (Moench) Garcke	Caryophyllaceae	Hem, G	AG	Ag	AgH, NHO	13	3	1	7	1	6	31	33
Silybum marianum (L.) Gaertn.	Asteraceae	Th, Hem	D	Rd	R, AgH	0	0	2	0	5	4	11	11.7
Sinapis arvensis L.	Brassicaceae	Th	AG	Ag	AgH	2	0	5	0	8	8	23	24.5
Sisymbrium officinale (L.) Scop.	Brassicaceae	Th	AD	Ag	R	5	0	0	1	0	0	6	6.4
Smilax aspera L.*	Smilaxaceae	Phan	J	Ap	NHC, NHO	0	0	0	1	2	0	3	3.2
Solanum nigrum L.	Solanaceae	Th	AE	Rd	R, AgH	1	0	0	0	0	0	1	1.1
Sonchus asper (L.) Hill	Asteraceae	Th, Hem	AE	Rd	R, AgH	1	0	0	0	0	0	1	1.1
Sonchus oleraceus L.	Asteraceae	Th	AE	Rd	R, AgH	10	4	9	3	0	0	26	27.7
Spergula arvensis L.	Caryophyllaceae	Th	AD	Ag	AgH, NHO	0	0	0	0	0	1	1	1.1
Spergularia diandra (Guss.) Boiss.	Caryophyllaceae	Th	L	Ag	AgH, NHO	0	0	0	2	0	0	2	2.1
Stachys arvensis (L.) L.	Lamiaceae	Th	O	Ag	AgH, NHO	0	1	5	2	1	1	10	10.6
Stellaria media (L.) Cirillo	Caryophyllaceae	Th	AD	Rd	R	0	0	2	9	0	0	11	11.7
Teucrium fruticans L.*	Lamiaceae	Ch, Ph	C	Ap	NHC, NHO	1	0	0	2	0	0	3	3.2
Tolpis barbata (L.) Gaertn.	Asteraceae	Th	C	Ap	NHC, NHO	0	0	6	0	1	0	7	7.4
Tolpis barbata (L.) Gaertn.	Apiaceae	Th	AF	Ag	AgH, NHO	3	0	1	0	0	0	4	4.3
Trifolium angustifolium L.	Fabaceae	Th	J	Ap	NHC, NHO	0	0	0	3	0	0	3	3.2
Trifolium campestre Schreber	Fabaceae	Th	X	Ag	AgH, NHO	0	0	0	2	0	0	2	2.1
Trifolium stellatum L.	Fabaceae	Th	J	Ag	AgH, NHC, NHO	0	2	0	0	0	2	4	4.3
Tripodion tetraphyllum (L.) Fourr.	Fabaceae	Th	D	Ag	AgH, NHC, NHO	0	1	0	0	0	0	1	1.1
Umbilicus horizontalis (Guss.) DC.*	Crassulaceae	Hem	F	Ap	NHO	0	0	0	5	0	0	5	5.3

Urtica urens L.	Urticaceae	Th	M	Rd	R	2	0	0	4	1	0	7	7.4
Vaccaria hispanica (Miller) Rauschert	Caryophyllaceae	Th	AD	Ag	AgH	0	1	0	0	0	0	1	1.1
Verbascum sinuatum L.	Scrophulariaceae	Th, Hem	D	Rd	R, NHC	2	0	0	0	0	0	2	2.1
Verbesina encelioides (Cav.) A. Gray*	Asteraceae	Th, Hem	AI	Rd	R, AgH	0	0	0	0	0	4	4	4.3
Vicia benghalensis L.	Fabaceae	Th	D	Ag	AgH, NHO	0	0	0	0	0	5	5	5.3
Vicia lutea L.	Fabaceae	Th	AA	Ag	AgH, NHO	0	0	0	0	0	2	2	2.1
Vicia sativa subsp. nigra (L.) Ehrh.	Fabaceae	Th	AF	Ag	AgH, NHC, NHO	13	1	5	0	5	0	24	25.5
Vulpia bromoides (L.) Gray	Poaceae	Th	D	Ap	NHO, NHC	3	0	0	0	0	0	3	3.2
Vulpia sicula (C. Presl) Link*	Poaceae	Th, Hem	D	Ap	NHO, NHC	3	0	0	3	0	0	6	6.4

*: Species not listed in the index of segetal plants of Western and Central Morocco (Boulet et al. 1989)

**: Categorization is based on expert knowledge