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(Poaceae)

(Papilionaceae)

(Brassicaceae)

(Asteraceae)

(Lamiaceae)

(H_1, H_2)

(H_4, H_5)

(Miller and Hobbs, 2002)

" "

(Walbridge, 1997)

(Sudnik-Wójcikowska,

1998)

(Sukopp and Trautmann,

.1976; Tüxen, 1961)

(Low, 2000)

(Shochat et al., 2006)

(Shochat et al., 2004)

(Gilbert, 1989; Pickett et al., 2001)

(Strafinger and Sukopp, 1994)

(Savard et al., 2000; Gupta, 2002; Mckinney, 2002)

(Schulte and Sukopp, 2000)

(Riffo and Villarroel, 2000)

(Weber

(Müeller, 1997)

(Rost,

and Bede, 1998)

(Habit and Parra, 2001)

(Rothig, 2002)

2002)

(Lofvenhaft and Bjorin, 2002)

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(Sukopp, 2002)
(1925)

(Sukopp, 2002)

(Sukopp, 2002)

(Schulte et al., 1993)

(Sukopp and

.Weiler, 1998)

: (Müeller, 1997)

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(Rechinger, 1963-2005)

(Komarov,

(Davis, 1965-1988)

(Townsend et al., 1966-1985)

1934-1954)

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(Tutin et al., 1980)

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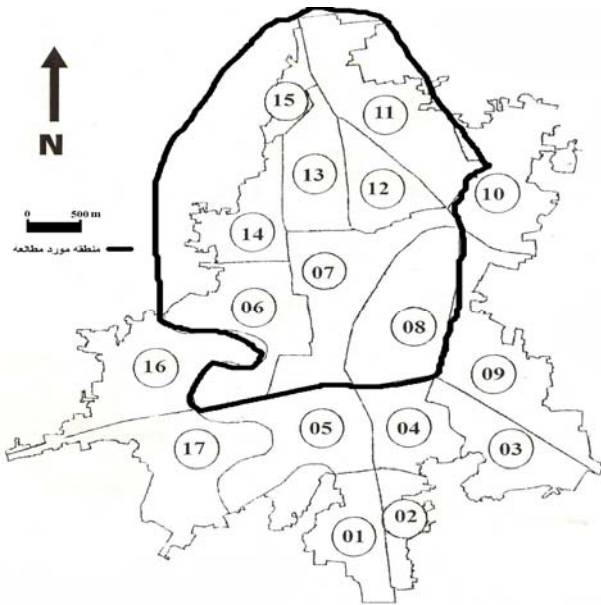
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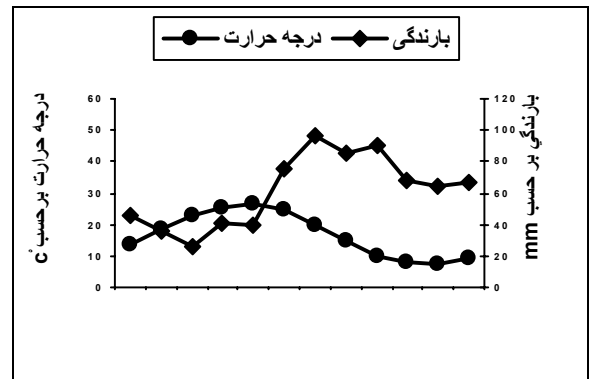
Takhtajan

(1973) Zohary (1986)

(Raunkiaer, 1934)

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(Labiatae) (% /) (Papilionaceae)
 (% /)
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 (Poaceae)
 () (%) (Asteraceae) (%)
 (% /) (Brassicaceae)
 : ()
 = M = F = N = T = IT { = Thr = Hyd = Euxino-Hyrcanian } = Hem = Hel = Geo = Cha (Life form)
 = ES = Cos (Chorology)
 = Scos = Pl
 = E = D = C = B = A (Biotope)
 = M = L = K = J = I = H = G
 = S = R = Q = P = O

Adiantaceae ()				
<i>Adiantum capillus – veneris</i> L.	Geo	Scos	E,J,S	10001
Amaranthaceae ()				
<i>Amaranthus chlorostachys</i> willd.	Thr	Pl	S,T	10002
<i>Amaranthus lividus</i> L. var. <i>ascendens</i> (Loisel.) Thell.	Thr	Scos	C,N,Q,T	10003
<i>Amaranthus viridus</i> L.	Thr	Pl	T,F	10004
Apiaceae ()				
<i>Ammis majus</i> L.	Thr	IT,M	P, T	10005
<i>Bupleurum marschallianum</i> C. A. Mey	Hem	ES	R	10006
<i>Eryngium caucasicum</i> Trautv.	Hem	ES,IT,M	C,P,R,T	10007
<i>Pimpinella affinis</i> Ledeb.	Hem	ES,IT,M	C,R,S,T	10008
<i>Torilis arvensis</i> (Huds.) Link.	Thr	Pl	C,S,T	10009
Asteraceae (= Compositae) ()				
<i>Artemisia annua</i> L.	Thr	ES,IT,M	B,C,H,I,J,P,R,S,T	10010
<i>Artemisia vulgaris</i> L.	Hem	Pl	L	10011
<i>Carduus arabicus</i> Jacq. ex Murray.	Thr	ES,IT,M	C,R,T	10012
<i>Centaurea iberica</i> Trer. ex Spreng.	Thr	Pl	R, T	10013
<i>Centaurea</i> sp.	Hem		L	10014
<i>Chondrilla juncea</i> L.	Hem	ES,IT,M	R,C	10015
<i>Cichorium intybus</i> L.	Hem	Pl	R,S	10016
<i>Conyza bonariensis</i> (L.) Cronq.	Thr	Cos	C,H,I,J,N,O,P,Q,R, S,T	10017

<i>Conyza canadensis</i> (L.) Cronq .	Thr	Cos	C,T	10018
<i>Conyzanthus squamatus</i> (Spreng.) Tamasch.	Hem	Scos	B,C,I,N,O,P,Q,R,S, T	10019
<i>Dittrichia graveolens</i> (L.) Greuter	Thr	IT,M	R,C	10020
<i>Eclipta prostrata</i> (L.) L.	Thr	Pl	R,C	10021
<i>Filago vulgaris</i> (Savi.) Ten.	Thr	ES	C	10022
<i>Galinsoga parviflora</i> Cav.	Thr	Pl	I	10023
<i>Senecio vernalis</i> Waldst. & Kit.	Thr	ES,IT	C,D,E,J,N,O,P,R,S, T	10024
<i>Silybium marianum</i> (L.) Gaerth.	Hem	Pl	C,R,S,T	10025
<i>Sonchus asper</i> L.	Hem	Pl	B,C,I,J,N,O,P,Q,S,T	10026
<i>Sonchus oleraceus</i> L.	Thr	Cos	B,C,I,J,N,O,P,Q,S,T	10027
<i>Taraxacum</i> sp.	Hem		P	10028
<i>Xanthium brasiliicum</i> Vellozo.	Thr	Pl	T	10029
<i>Xanthium spinosum</i> L.	Thr	Scos	F	10030
Boraginaceae ()				
<i>Heliotropium lasiocarpum</i> Fisch. & C.A. Mey.	Thr	IT,M	F,S,T	10031
<i>Nonnea lutea</i> (Desr.) Reichenb. ex DC.	Thr	ES	C,O,S,T,R	10032
Brassicaceae (=Cruciferae) ()				
<i>Arabis nepetifolia</i> Boiss.	Hem	ES	R,T	10033
<i>Brassica</i> sp.	Thr		S,T	10034
<i>Capsella bursa-pastoris</i> (L.) Medicus.	Hem	Pl	B,I,M,N,P,Q,S	10035
<i>Cardamine hirsuta</i> L.	Thr	COS	J	10036
<i>Coronopus didymus</i> (L.) Sm.	Thr/Hem	SCOS	I,Q	10037
<i>Descurainia sophia</i> (L.) Schur.	Hem	Pl	J	10038
<i>Lepidium latifolium</i> L.	Hem	Pl	R,T	10039
<i>Raphanus raphanistrum</i> L.	Thr	Pl	R	10040
<i>Rorippa islandica</i> (Oeder) Borbas	Hel	Pl	R,S	10041
<i>Sisymbrium loeselii</i> L.	Thr/Hem	ES,IT,M	C,S,T	10042
<i>Sisymbrium officinale</i> (L.) Scop.	Thr	Pl	C,E,S,T	10043
<i>Thlaspi umbellatum</i> Stev.	Thr	ES	I	10044
Campanulaceae ()				
<i>Campanula rapunculoides</i> L.	Hem	ES	R	10045
Caprifoliaceae ()				
<i>Sambucus ebulus</i> L.	Geo	Pl	R,S,T	10046
Caryophyllaceae ()				
<i>Cerastium glomeratum</i> Thuill.	Thr	Pl	I,M,N,P,Q	10047
<i>Minuartia hybrida</i> (Vill.) Schischk.	Thr	Pl	H	10048
<i>Polycarpon tetraphyllum</i> (L.) L.	Thr	Pl	A,G,H,I	10049
<i>Silene conica</i> L.	Thr	Pl	L	10050
<i>Silene latifolia</i> Poir	Hem	ES,IT	P,Q	10051
<i>Stellaria media</i> (L.) Cyr.	Thr	Scos	A,B,D,G,H,I,K,M, N,P,Q	10052
Chenopodiaceae ()				
<i>Chenopodium album</i> L.	Thr	Cos	B,C,F,H,I,N,P,Q,S, T	10053

<i>Chenopodium ambrosoides</i> L.	Hem	Scos	F,S,T	10054
<i>Chenopodium botrys</i> L.	Thr	Pl	S	10055
Convulvulaceae ()				
<i>Calystegia sepium</i> (L.) R. Br.	Geo	Scos	R	10056
<i>Convulvulus arvensis</i> L.	Hem	Pl	C,N,Q,R,T	10057
Crassulaceae				
<i>Crassula alata</i> (Viv.) Berger.	Thr	IT,M	D	10058
Cyperaceae ()				
<i>Carex divulsa</i> Stoke	Geo	Pl	C,R,T	10059
<i>Carex songorica</i> Kar & Kir.	Hel	ES,IT	S,T	10060
<i>Cyperus difformis</i> L.	Thr	Cos	S	10061
<i>Cyperus odoratus</i> L.	Hel	ES,IT	S	10062
<i>Cyperus rotundus</i> L.	Geo	Cos	I,Q,S,C,T	10063
Euphorbiaceae ()				
<i>Acalypha australis</i> L.	Thr	Pl	A,B,C,F,G,I,H,Q,R, S,T	10064
<i>Chrozophora oblique</i> (Vahl.) Juss. ex Spreng.	Thr	IT	F,T	10065
<i>Euphorbia helioscopia</i> L.	Thr	ES,IT,M	M,C,N,O,P,I	10066
<i>Euphorbia peplus</i> L.	Thr	ES,IT,M	I,N,O,P	10067
<i>Euphorbia turcomanica</i> Boiss.	Thr	IT	A,G,H,I	10068
Fabaceae (=Papilionaceae) ()				
<i>Lathyrus aphaca</i> L.	Thr	ES,IT,M	R	10069
<i>Lathyrus hirsutus</i> L.	Hem	ES,IT,M	R	10070
<i>Lotus corniculatus</i> L.	Hem	Pl	I,P	10071
<i>Medicago polymorpha</i> L.	Thr	IT,M	I,N,O	10072
<i>Medicago sativa</i> L.	Hem	IT	I,N	10073
<i>Melilotus indicus</i> (L) All.	Thr	Pl	J,P,Q	10074
<i>Trifolium campestre</i> Schreb.	Thr	ES,IT,M	L,N,O,P	10075
<i>Trifolium repens</i> L.	Geo	ES,IT,M	M,N,Q	10076
<i>Trifolium resupinatum</i> L.	Thr	ES,IT,M	K,L,M	10077
<i>Trifolium suffocatum</i> L.	Thr	ES,IT,M	K,L,M	10078
<i>Vicia sativa</i> L.	Thr	ES,IT,M	R	10079
Geraniaceae ()				
<i>Geranium molle</i> L.	Hem	ES,IT	C,T	10080
Hypericaceae ()				
<i>Hypericum perforatum</i> L.	Hem	Pl	R,T	10081
Hypolepidaceae ()				
<i>Pteridium aquilinum</i> (L.) Kuhn.	Hel	Cos	R,S	10082
Juncaceae ()				
<i>Juncus bufonius</i> L.	Thr	Cos	S	10083
<i>Juncus maritimus</i> Lam.	Hel	ES,M	S	10084
Lamiaceae (=Labiatae) ()				
<i>Lamium album</i> L. subsp. <i>album</i>	Geo	ES,IT	C,R,S	10085
<i>Lycopus europaeus</i> L.	Hel	Pl	C,S	10086

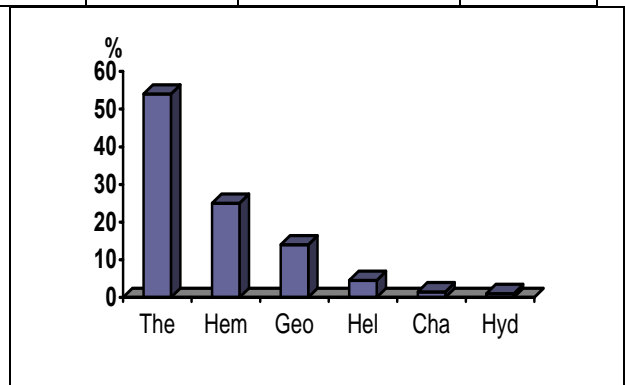
<i>Marrubium vulgare</i> L.	Geo	Pl	S	10087
<i>Mentha aquatica</i> L.	Hel	ES	B,C,N,O,P,Q,R,S,T	10088
<i>Mentha longifolia</i> (L.) Hudson	Geo	Pl	C,R,S,T	10089
<i>Origanum vulgare</i> L. subsp. <i>vulgare</i>	Hem	ES,IT	S	10090
<i>Prunella vulgaris</i> L.	Geo	Pl	C,R,T	10091
<i>Scutellaria tournefortii</i> Benth.	Geo	ES	C,R,T	10092
<i>Teucrium hyrcanicum</i> L.	Geo	ES	C,R,S,T	10093
Malvaceae ()				
<i>Alcea</i> sp.	Hem		S,T	10094
<i>Malva parviflora</i> L.	Thr	Pl	B,C,M,N,O,P,Q,T	10095
<i>Malva sylvestris</i> L.	Hem	ES,M,IT	C,O,T	10096
<i>Sida rhombifolia</i> L.	Thr	Pl	C	10097
Oxalidaceae ()				
<i>Oxalis articulata</i> Savigny	Geo	Scos	A,H,O,Q	10099
<i>Oxalis corniculata</i> L.	Thr	Scos	A,B,C,G,H,K,L,I, J,N,O,P,Q,R,T	10098
Papaveraceae ()				
<i>Chelidonium majus</i> L.	Hem	Pl	C,S	10100
<i>Glaucium</i> sp.	Hem		R	10101
<i>Papaver chelidonifolium</i> Boiss. & Buhse.	Thr	ES	C,S,T	10102
Phytolaccaceae ()				
<i>Phytolacca americana</i> L.	Hem	Pl	C,R,T	10103
Plantaginaceae ()				
<i>Plantago lanceolata</i> L.	Hem	ES,IT,M	J	10104
<i>Plantago major</i> L.	Hem	Scos	B,C,K,I,J,M,N,P, Q	10105
Poaceae (= Gramineae) ()				
<i>Aegilops tauschii</i> Cosson.	Thr	IT	O,R,	10106
<i>Alopecurus myosuroides</i> Hudson var. <i>breviaristatus</i> Manch. ex Steh.	Thr	Pl	O,T	10107
<i>Avena sativa</i> L.	Thr	Scos	R	
<i>Bromus japonicus</i> Thunb.	Thr	Pl	I,T	10109
<i>Bromus cf. inermis</i> Less.	Geo	Pl	I,O	10110
<i>Bromus madritensis</i> L.	Thr	ES,IT,M	I,O	10111
<i>Bromus sterilis</i> L.	Thr	ES,IT,M	I,O	10112
<i>Chloris virgata</i> Swartz.	Geo	Pl	Q,S,T	10113
<i>Cynodon dactylon</i> (L.) Pers.	Hem	Pl	B,C,O,Q	10114
<i>Dactylis glomerata</i> L. subsp. <i>glomerata</i>	Geo	Pl	R	10115
<i>Digitaria sanguinalis</i> (L.) Scop.	Thr	Pl	C,I,O,Q,T	10116
<i>Echinochloa colonum</i> (L.) Scop.	Thr	Scos	L	10117
<i>Echinochloa crus – galli</i> (L.) P. Beauv.	Thr	Scos	S,T	10118
<i>Eleusine indica</i> (L.) Gaertn.	Thr	Scos	C,H,I,J,O,P,Q,R,S, T	10119
<i>Eragrostis barrelieri</i> Dav.	Thr	Pl	Q,T	10120
<i>Hordeum spontaneum</i> C. Koch.	Thr	IT,M	I,O,T	10121
<i>Lolium rigidum</i> Gaudin.	Thr	ES,IT,M	C,O,T	10122

<i>Lophocolea phleoides</i> (Vill.) Reichenb.	Thr	Pl	C,T	10123
<i>Microstegium vimineum</i> (Trin.) A. Camus.	Thr	Pl	L	10124
<i>Panicum miliaceum</i> L.	Thr	Pl	Q	10125
<i>Paspalum dilatatum</i> Poir.	Geo	Pl	B,C	10126
<i>Paspalum paspaloides</i> (Michx.) Scribuer.	Geo	Pl	B,C,N,O,T	10127
<i>Phalaris minor</i> Retz.	Thr	Scos	R	10128
<i>Poa annua</i> L.	Thr	Pl	B,H,I,K,J,L,M,N, O,P,Q,S,T	10129
<i>Poa bulbosa</i> L.	Geo	ES,IT	T,R	10130
<i>Poa trivialis</i> L.	Geo	Pl	O,P,Q	10131
<i>Polypogon fugax</i> Ness. ex Steud.	Thr	Pl	T,S	10132
<i>Polypogon monspeliensis</i> (L.) Desf.	Thr	Scos	T	10133
<i>Polypogon semiverticillatus</i> (Forssk.) Hyl.	Thr	Pl	T,S	10134
<i>Setaria glauca</i> (L.) P. Beauv.	Thr	Pl	B,F,H,J,N,O,P,Q, R,S,T	10135
<i>Sorghum halepense</i> (L.) Pers.	Geo	Cos	R,T	10136
<i>Vulpia myuros</i> (L.) J.F.Gmel.	Thr	IT,M	R	10137
Polygonaceae ()				
<i>Polygonum arenastrum</i> Boreau.	Thr	Pl	H,I,L,Q,S	10138
<i>Polygonum mite</i> Schrank.	Thr	ES,M	S,T	10139
<i>Polygonum patulum</i> M.B.	Thr	ES,IT	H,I,Q,S	10140
<i>Polygonum persicaria</i> L.	Thr	Pl	F,S,T	10141
<i>Rumex plucher</i> L.	Hem	ES, IT, M	N,Q,C,S	10142
<i>Rumex sanguineus</i> L.	Hem	ES	B,C,O,S	10143
Polypodiaceae ()				
<i>Polypodium vulgare</i> L.	Geo	Pl	D	10144
Portulacaceae ()				
<i>Portulaca oleracea</i> L.	Thr	ES, IT, M	I,J,Q	10145
Primulaceae ()				
<i>Anagalis arvensis</i> L.	Thr	Pl	I	10146
Ranunculaceae ()				
<i>Batrachium tricophyllum</i> (Chaix.) Bosch.	Hyd	Scos	J	10147
<i>Ranunculus cicutarius</i> Schlechtend.	Geo	ES (Euxino- hyrcanian)	R	10148
<i>Ranunculus muricatus</i> L.	Thr	IT, M	L,M	10149
Rosaceae ()				
<i>Potentilla reptans</i> L.	Hem	ES, IT	C,O,P,Q	10150
<i>Rubus caesius</i> L.	Cha	ES, IT	S,T	10151
<i>Rubus persicus</i> Boiss.	Cha	ES (Hyrcanian)	T	10152
<i>Sanguisorba minor</i> Scop.	Hem	Pl	C,P,R,S	10153
Rubiaceae ()				
<i>Galium</i> sp.	Hem		R,S	10154

<i>Galium ghilanicum</i> Stapf.	Thr	IT	C,I,S	10155
Scrophulariaceae ()				
<i>Kickxia elatine</i> (L.) Dumort.	Thr	M	R,T	10156
<i>Veronica anagalis-aquatica</i> L.		Pl	J	10157
<i>Veronica crista-galli</i> Stev.	Thr	ES	R,T	10158
<i>Veronica persica</i> Poir.	Thr	Scos	A,B,C,H,I,M,N,O, P,R	10159
Solanaceae ()				
<i>Solanum nigrum</i> L.	Thr	Scos	F,Q,T	10160
Urticaceae ()				
<i>Urtica dioica</i> L.	Geo	Pl	C,R,S,T	10161
Verbenaceae ()				
<i>Phylla nodiflora</i> (L.) Greene.	Hel	Pl	R	10162
<i>Verbena officinalis</i> L.	Hem	Pl	F,R,T	10163

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Echinochloa colonum

Oxalis Sida rhombifolia

articulata

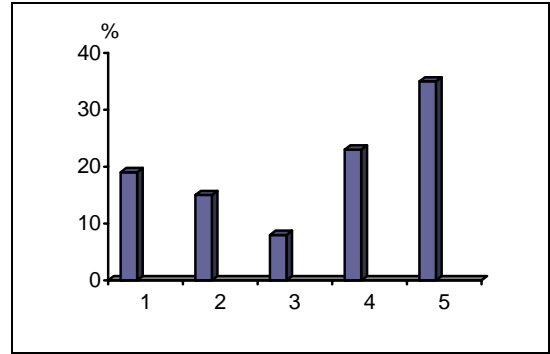
(Amini et al., 2003; Ghahremani-nejad, 2006)

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(Kim et al., 2002)

Oligohemerobic (H1)	
B-mesohemerobic (H2)	
A- mesohemerobic (H3)	
Euhemerobic (H4)	
Polyhemeric (H5)	

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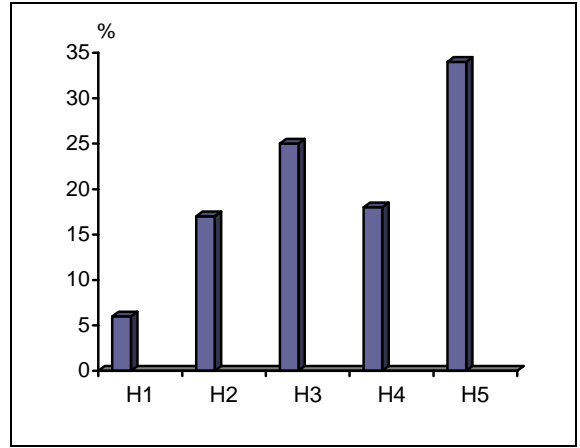
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<i>Acalypha australis</i>	A,B,C,G,F,H,I,Q, R,S,T	H ₄ ,H ₃ ,H ₂ ,H ₅ ,H ₄ , H ₅ ,H ₃ ,H ₃ ,H ₁ ,H ₂ ,H ₂
<i>Artemisia annua</i>	B,C,H,I,J,P,R,S,T	H ₃ ,H ₂ ,H ₅ ,H ₃ ,H ₄ , H ₃ , H ₁ ,H ₂ ,H ₂
<i>Chenopodium album</i>	B,C,F,H,N,I,P,Q, S,T	H ₃ ,H ₂ ,H ₄ ,H ₅ ,H ₃ , H ₃ ,H ₃ ,H ₂ ,H ₂
<i>Conyza bonariensis</i>	C,H,I,J,N,O,P,Q, R,S,T	H ₂ ,H ₅ ,H ₃ ,H ₄ ,H ₃ , H ₃ ,H ₃ ,H ₃ ,H ₁ ,H ₂ ,H ₂
<i>Conyzanthus squamatus</i>	B,C,I,N,O,P,R,S, T	H ₃ ,H ₂ ,H ₃ ,H ₃ ,H ₃ , H ₁ ,H ₂ ,H ₂
<i>Eleusine indica</i>	C,H,I,J,K,O,P,Q, R,T	H ₂ ,H ₅ ,H ₃ ,H ₄ ,H ₅ , H ₃ ,H ₃ ,H ₃ ,H ₁ ,H ₂
<i>Mentha aquatica</i>	B,C,N,O,P,Q,R,S, T	H ₃ ,H ₂ ,H ₃ ,H ₃ ,H ₃ , H ₃ ,H ₁ ,H ₂ ,H ₂
<i>Oxalis corniculata</i>	A,B,C,G,H,I,J,K, L,N,O,Q,R,T	H ₄ ,H ₃ ,H ₂ ,H ₅ ,H ₅ , H ₃ ,H ₄ ,H ₅ ,H ₅ ,H ₃ , H ₃ ,H ₃ ,H ₁ ,H ₂
<i>Poa annua</i>	A,B,C,H,I,M,N,O, P,R	H ₄ ,H ₃ ,H ₂ ,H ₅ ,H ₃ , H ₄ ,H ₃ ,H ₃ ,H ₃ ,H ₁
<i>Senecio vernalis</i>	C,D,E,J,N,O,P,R, S,T	H ₂ ,H ₅ ,H ₅ ,H ₄ ,H ₃ , H ₃ ,H ₃ ,H ₃ ,H ₁ ,H ₂ ,H ₂
<i>Setaria glauca</i>	B,F,H,J,N,O,P,R, S,T	H ₃ ,H ₄ ,H ₅ ,H ₄ ,H ₃ , H ₃ ,H ₃ ,H ₁ ,H ₂ ,H ₂
<i>Sonchus asper</i>	B,C,I,J,N,O,P,Q,S, T	H ₄ ,H ₂ ,H ₃ ,H ₄ ,H ₃ , H ₃ ,H ₃ ,H ₃ ,H ₂ ,H ₂
<i>Sonchus oleraceus</i>	B,C,I,J,N,O,P,Q,S, T	H ₄ ,H ₂ ,H ₃ ,H ₄ ,H ₃ , H ₃ ,H ₃ ,H ₃ ,H ₂ ,H ₂
<i>Stellaria media</i>	A,B,D,G,H,I,K,M, N,P,Q	H ₄ ,H ₃ ,H ₅ ,H ₅ ,H ₅ , H ₃ ,H ₅ ,H ₄ ,H ₃ ,H ₃
<i>Veronica persica</i>	A,B,C,H,I,M,N,O, P,R	H ₄ ,H ₃ ,H ₂ ,H ₅ ,H ₃ , H ₄ ,H ₃ ,H ₃ ,H ₃ ,H ₁ ,



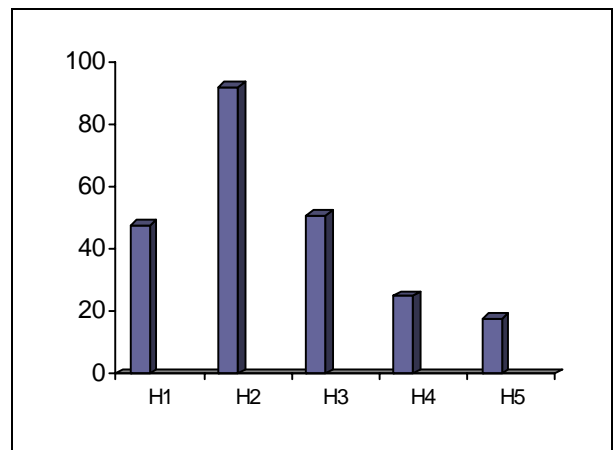
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(n=) H5 H1

(H3, H2)

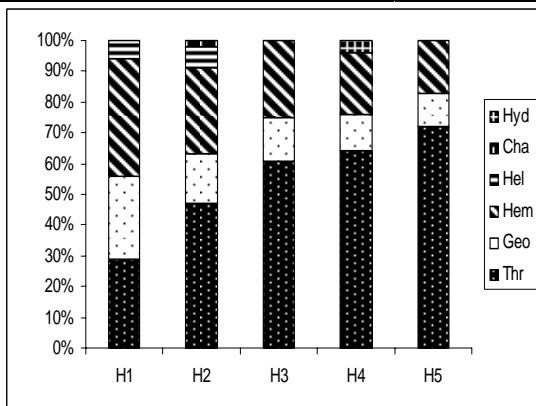
(H5)

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21-Intensive	16-Selective study
22-Extensive	17-Potchefstroom
23-Ruderal	18-Life form
24-Intermediate disturbance hypothesis	19-Raunkiaer classification
25-Connell	20-Pluriregional (PI)

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