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(Poaceae)

(Papilionaceae)

(Brassicaceae)

(Asteraceae)

(Lamiaceae)

(H_1, H_2)

(H_4, H_5)

(Miller and Hobbs, 2002)

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(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)

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(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 Bjin, 2002)

(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)

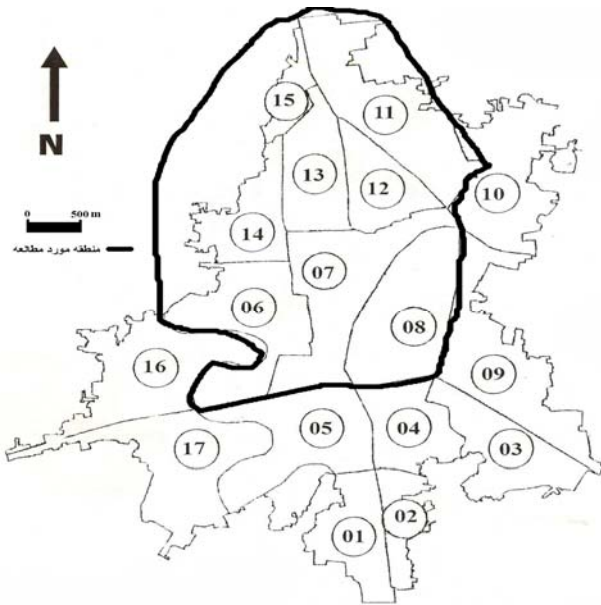
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Takhtajan

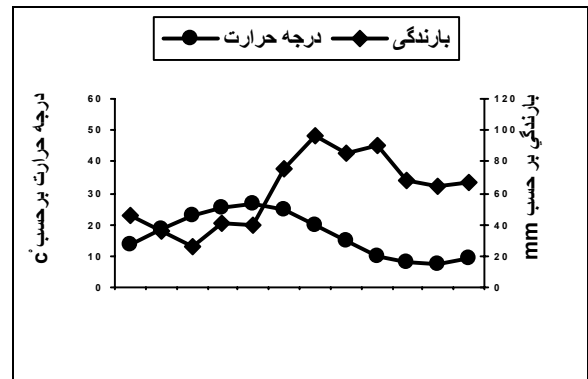
(1973) Zohary (1986)

(Raunkiaer, 1934)

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(Labiatae) (% /) (Papilionaceae)
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 (Poaceae)
 (Asteraceae) (%)
 (% /) (Brassicaceae)
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 = M = F = N = T = IT { = Euxino-Hyrcanian } = Thr = Hyd = Hem = Hel = Geo = Cha (Life form)
 = ES = Cos (Chorology) = Scos = Pl
 = D = C = B = A (Biotope)
 = 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 ambrosioides</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

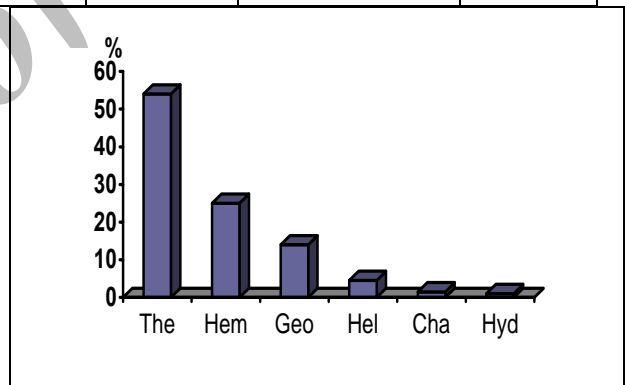
<i>Marrubium vulgare</i> L.	Geo	Pl	S	10087
<i>Mentha aquatica</i> L.	Hel	ES	B,C,N,O,P,Q,R,S,T	10088
<i>Mentha longifolia</i> (L.) Hudson	Geo	Pl	C,R,S,T	10089
<i>Origanum vulgare</i> L. subsp. <i>vulgare</i>	Hem	ES,IT	S	10090
<i>Prunella vulgaris</i> L.	Geo	Pl	C,R,T	10091
<i>Scutellaria tournefortii</i> 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 Stch.	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> Swarcz.	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

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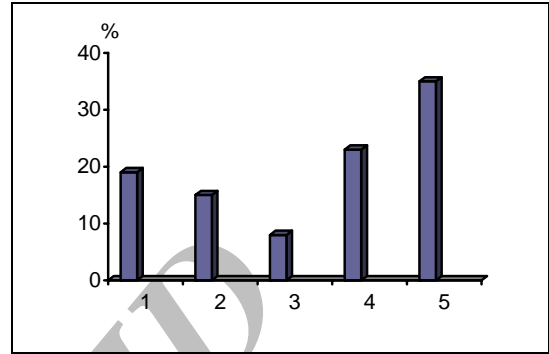
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(Kim et al., 2002)

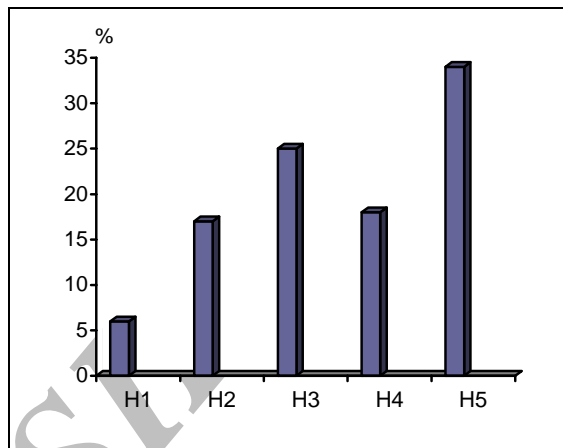
Oligohemerobic (H1)	
B-mesohemerobic (H2)	
A- mesohemerobic (H3)	
Euhemerobic (H4)	
Polyhemerobic (H5)	

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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 ,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 ,



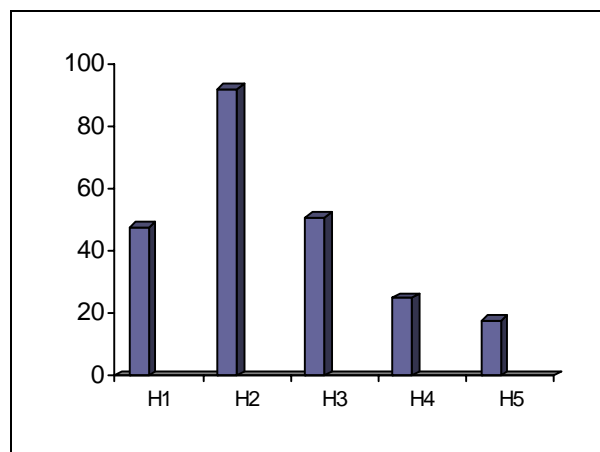
()

(n=) H5 H1

(H3, H2)

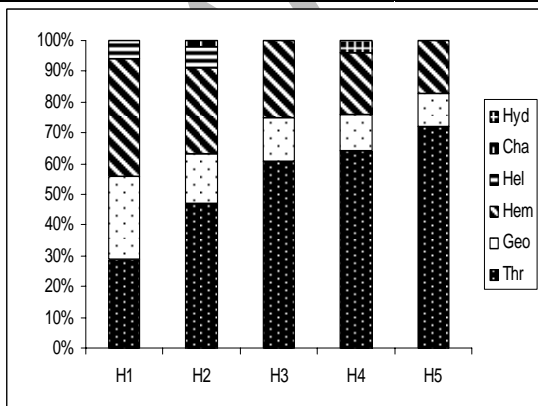
(H5)

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	(Zerbe et al., 2003)		
(
	Kunick, 1974, Schmitz, 2000)		
	(Grime, 2001))	
			(
(Zerbe et al.,)	(Kunick, 1974, Schmitz, 2000)		
	2003		
H ₁			
	H ₅		
		(Cilliers et al., 2004)	
		(Zerbe et al., 2003)	
		Asteraceae	Amaranthaceae
		Poaceae	Chenopodiaceae
			Caryophyllaceae
			Polygonaceae
1-Anthropogenic effects			
2-Biocoenose			
3-Urban Biotopes			(Hugin, 1992)
4-Succession			
5-Hemeroby			
6-Urbanization		»	
7-Native species			(1978) «
8-Biodiversity			
9-Ecological niches			
10-Invasive species			
11-Alien species		(Kunick, 1974;	
12-Urban ecology			(Zerbe et al., 2003)
13-Robert Ezra Park			
14-UNESCO's Intergovernmental Man and the Biosphere Programme.		H ₁	
15-Comprehensive study		H ₅	H ₁

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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