



Islamic Republic of Iran  
Ministry of Jihad-e-Agriculture  
Agricultural Research Organization  
Research Institute of Forests and Rangelands

INDEX  
SEMINUM  
2021-22  
NATIONAL BOTANICAL GARDEN OF IRAN



*Rheum ribes* L.

**INDEX  
SEMINUM  
2020-21**

**NATIONAL BOTANICAL GARDEN OF IRAN  
(NBGI)**

Please use the enclosed form for your order

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## NATIONAL BOTANICAL GARDEN OF IRAN

The garden was founded in 1968. An area of about 150 hectares was allocated to the garden where is situated by the freeway between Tehran and Karaj at an altitude of about 1320 m .

The area is flat and slopes gently to the south. The Alborz Mountains form the background. The climate is dry with an average annual precipitation of about 240 mm falling between November and May. Temperature reaches as much as 42 – 43° C during July and August. During winter the temperature may fall to –10° C or lower. The natural vegetation of the area is dry *Artemisia sieberi* steppe .

The garden includes 22 different collections representing Iranian and exotic habitats and vegetation types .

Six lakes have been excavated, and filled with water. Three hills (the highest reaching 19 m), have been built up to represent the Alborz and Zagros Mountains, (the largest mountain chains of Iran) and Himalaya Mountain. A large rock garden with cliff walls and a waterfall has been completed as well as a special section for Iranian bulbous plants. The Horticultural Display Area has been established and planted mainly with exotic species.

Hyrceanian Forest habitat (8 hectares) and Zagros Oak Forest habitat (2.9 hectares) are well established in garden.

Another cliff wall with waterfall has been built up in Alborz Section. Furthermore a wetland area has been designed and cultivated in this section.

A river about 1 km long circulating between Caspian Lake and Reservoir Lake has been constructed. Another river runs from Alborz Waterfall into the Caspian Lake.

A section for desert plants with sand dunes, a salt lake and a wadi have been constructed .

Medicinal Plants section has been planted with native and exotic medicinal, aromatic and industrial plant species .

The fruit garden is planted using different native fruit cultivars .

Hills representing Himalaya Mountains have been constructed and partly planted .

The systematic garden also has been constructed, designed according to Cronquist's system and planted according to plant families order.

The forest and walkway with some pavilions and other facilities have been prepared.

The Japanese and Chinese gardens are parts of the garden which have been completed in an area about 2.5 hectares.

Arboretum is a new section in the garden which has been established in an area of 15 hectares. The path ways and a lake of about one hectare have been constructed. The native trees and shrubs of Iran as well as exotic species are being planted in this part of the garden .

The Europe, America, Broad Leaf Evergreens, Caucasus Sections and the central part of the garden representing a Persian Garden Design and rose garden have been established .

Southern Iran Greenhouse has been constructed and planted with subtropical species of south Iran .

The Garden is open to the public and many social events including educational programs are running for students and NGO organizations.

## Alliaceae

- 1 *Allium affine* Ledeb. 10-1

## Amaranthaceae

- 2 *Aerva javanica* (Burm.f.) Juss. ex Schult., Syst. Veg., ed. 5-1  
3 *Aerva persica* (Burm.f.) Merr. 15-1

## Apiaceae

- 4 *Ammi visnaga* (L.) Lam. 1-12  
5 *Astrodaucus orientalis* Drude 10-2  
6 *Bilacunaria microcarpa* (M.Bieb.) Pimenov & V.N.Tikhom 1-5  
7 *Cervaria cervariifolia* (C.A. Mey.) M. Pimen. 2-1  
8 *Chaerophyllum macrospermum* (Willd. ex Schult.) Fisch. & C.A.Mey. 8-2  
9 *Conium maculatum* L. 9-1  
10 *Echinophora sibthorpiana* Guss. 12-6  
11 *Eryngium billardierei* Heldr. ex Boiss. 12-3  
12 *Eryngium caeruleum* M.Bieb. 12-4  
13 *Eryngium kotschyi* Boiss. 1-3  
14 *Oenanthe pimpinelloides* L 17-3  
15 *Pimpinella acuminata* (Edgew.) C.B. Clarke 1-1  
16 *Prangos acaulis* Bornm. 12-1  
17 *Prangos haussknechtii* Bioss 12-10  
18 *Scaligeria meifolia* Boiss. 18-3  
19 *Smyrniium cordifolium* Boiss. 18-3

## Asclepiadaceae

- 20 *Periploca aphylla* Decne. 1-3

## Asteraceae

- 21 *Achillea clavennae* L. 1-13  
22 *Achillea millefolium* L. 1-3  
23 *Achillea tenuifolia* Lam. 1-11

24	<i>Achillea vermicularis</i> Trin.	8-4
25	<i>Acroptilon repens</i> (L.) DC.	8-5
26	<i>Anthemis altissima</i> L.	9-2
27	<i>Anthemis tinctoria</i> L.	9-4
28	<i>Artemisia aucheri</i> Boiss.	12-7
29	<i>Artemisia scoparia</i> Waldst. & Kit.	9-4
30	<i>Artemisia sieberi</i> Besser	13-4
31	<i>Aster altaicus</i> Willd.	1-3
32	<i>Aster amellus</i> L.	11-3
33	<i>Aster diplostephioides</i> Benth. & Hook.f.	11-4
34	<i>Carthamus glaucus</i> M.Bieb.	12-6
35	<i>Centaurea aucheri</i> (DC.) Wagenitz.	11-5
36	<i>Centaurea behen</i> L.	1-2
37	<i>Centaurea lanata</i> Roxb.	12-2
38	<i>Centaurea pseudoscabiosa</i> Boiss. & Buhse	1-5
39	<i>Centaurea pulchella</i> Ledeb.	1-2
40	<i>Centaurea virgata</i> Lam.	1-5
41	<i>Cichorium intybus</i> L.	12-2
42	<i>Cirsium congestum</i> Fisch. & C.A.Mey. ex DC.	1-2
43	<i>Cirsium echinus</i> (M. Bieb.) Sch.Bip.	12-2
44	<i>Cirsium vulgare</i> (Savi) Ten.	10-1
45	<i>Cnicus benedictus</i> L.	12-2
46	<i>Cousinia calocephala</i> Jaub. & Spach	12-3
47	<i>Cousinia hypoleuca</i> Boiss.	10-1
48	<i>Cousinia multiloba</i> DC.	1-5
49	<i>Dittrichia graveolens</i> (L.) Greuter	12-4
50	<i>Echinacea paradoxa</i> Britton	13-1
51	<i>Echinacea purpurea</i> (L.) Moench	12-4

52	<i>Echinops ritrodes</i> Bunge	14-4
53	<i>Heteropappus altaicus</i> Novopokrov.	17-2
54	<i>Inula helenium</i> L.	17-3
55	<i>Lactuca serriola</i> L.	1-4
56	<i>Leontodon asperrimus</i> (Willd.) Endl.	17-3
57	<i>Leucanthemella serotina</i> (L.) Tzvelev	17-3
58	<i>Pulicaria dysenterica</i> (L.) Bernh.	17-3
59	<i>Sanvitalia procumbens</i> Lam.	17-3
60	<i>Scorzonera tortuosissima</i> Boiss.	17-3
61	<i>Scorzonera laciniata</i> Jacq.	17-3
62	<i>Senecio mollis</i> Willd.	17-3
63	<i>Serratula cerinthifolia</i> (Sm.) Boiss.	17-3
64	<i>Serratula coriacea</i> Fisch. & C.A. Mey. Ex. DC.	17-3
65	<i>Tanacetum abrotanifolium</i> (L.) Druce	1-4
66	<i>Tanacetum kotschyi</i> (Boiss.) Grierson	1-3
67	<i>Tanacetum parthenium</i> (L.) Sch.Bip.	1-5
68	<i>Tanacetum pinnatum</i> Boiss.	1-5
69	<i>Tanacetum polycephalum</i> Sch.Bip.	18-1
70	<i>Verbesina encelioides</i> (Cav.) Benth. & Hook.f. ex A.Gray	18-2
71	<i>Zoegea purpurea</i> Fresen.	18-2

#### **Berberidaceae**

72	<i>Berberis integerrima</i> Bunge	1-5
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#### **Betulaceae**

73	<i>Betula pendula</i> Roth	17-3
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#### **Bignoniaceae**

74	<i>Chilopsis linearis</i> (Cav.) Sweet	17-3
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#### **Boraginaceae**

75	<i>Anchusa italica</i> Retz.	8-3
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- 76 *Anchusa ovata* Lehm. 1-3  
 77 *Echium italicum* L. 12-5

#### **Brassicaceae**

- 78 *Aethionema grandiflorum* Boiss. & Hohen. 12-3  
 79 *Alyssum strigosum* Banks & Sol. 12-10  
 80 *Aubrieta deltoidea* (L.) DC. 12-4  
 81 *Conringia orientalis* (L.) Dumort. 1-3  
 82 *Fibigia eriocarpa* Boiss. 12-5  
 83 *Isatis cappadocica* Desv. 16-1  
 84 *Isatis kotschyana* Boiss. & Hohen. ex Boiss. 12-7  
 85 *Isatis minima* Bunge 17-1  
 86 *Lepidium draba* L. 17-2  
 87 *Lepidium latifolium* L. 1-5  
 88 *Lepidium perfoliatum* L. 17-3

#### **Calycanthaceae**

- 89 *Calycanthus occidentalis* Hook. & Arn. 17-3

#### **Campanulaceae**

- 90 *Campanula bononiensis* L. 1-10  
 91 *Campanula latifolia* L. 17-3  
 92 *Campanula rotundifolia* Boiss. 17-3  
 93 *Platycodon grandiflorus* A.DC. 17-3

#### **Cannabaceae**

- 94 *Celtis tournefortii* Lam. 3-2  
 95 *Celtis trinervia* Roxb. 17-3

#### **Capparaceae**

- 96 *Capparis parviflora* Boiss. 17-3

#### **Caprifoliaceae**

- 97 *Lonicera floribunda* Boiss. & Buhse 12-7



98	<i>Lonicera iberica</i> M.Bieb.	12-11
99	<i>Pterocephalus canus</i> Coult. ex. DC.	14-2
100	<i>Sambucus canadensis</i> L.	17-3
101	<i>Symphoricarpos albus</i> (L.) S.F.Blake	17-3
102	<i>Viburnum lantana</i> Wall. ex D.Don	17-3
103	<i>Viburnum rhytidophylloides</i> Suringar	17-3

### Caryophyllaceae

104	<i>Acanthophyllum speciosum</i> Schiman-Czeika	1-13
105	<i>Dianthus armeria</i> L.	16-3
106	<i>Dianthus carthusianorum</i> L.	11-7
107	<i>Dianthus haematocalyx</i> Boiss. & Heldr.	12-12
108	<i>Dianthus kiusianus</i> Makino	17-3
109	<i>Dianthus orientalis</i> Adams	14-2
110	<i>Dianthus plumarius</i> Gunn. ex Spreng.	16-2
111	<i>Dianthus sylvestris</i> Boiss.	16-3
112	<i>Gypsophila libanotica</i> Boiss.	17-3
113	<i>Lychnis chalconica</i> L.	17-3
114	<i>Lychnis coronaria</i> Franch. & Sav.	17-3
115	<i>Lychnis flos-cuculi</i> L.	17-3
116	<i>Silene armeria</i> M.Bieb.	17-3
117	<i>Silene aucheriana</i> Boiss.	17-3
118	<i>Silene dichotoma</i> Ehrh.	17-3
119	<i>Silene virgata</i> Stapf	12-6
120	<i>Silene vulgaris</i> (Moench) Garcke	17-3
121	<i>Spergularia diandra</i> (Guss.) Boiss.	17-3
122	<i>Stellaria alsinoides</i> Boiss. & Buhse	17-3
123	<i>Vaccaria pyramidata</i> Medik.	17-3

### Celastraceae

	124	<i>Euonymus latifolius</i> Marshall	10-6
<b>Chenopodiaceae</b>			
	125	<i>Atriplex griffithii</i> Moq.	1-7
	126	<i>Ceratocarpus arenarius</i> L.	1-7
	127	<i>Chenopodium foliosum</i> Asch.	13-3
	128	<i>Salsola aucheri</i> (Moq.) Bunge ex Iljin	1-7
	129	<i>Salsola kali</i> L.	1-7
	130	<i>Salsola montana</i> Litv.	13-5
	131	<i>Salsola nitraria</i> Pall.	1-6
	132	<i>Suaeda dendroides</i> (C.A.Mey.) Moq.	13-5
<b>Cistaceae</b>			
	133	<i>Helianthemum apenninum</i> Boiss.	17-3
<b>Clusiaceae</b>			
	134	<i>Hypericum perforatum</i> L.	1-1
	135	<i>Hypericum scabrum</i> L.	17-3
<b>Convolvulaceae</b>			
	136	<i>Convolvulus tricolor</i> L.	17-3
<b>Crassulaceae</b>			
	137	<i>Rosularia paniculata</i> (Regel & Schmalh.) A.Berger	1-4
<b>Cucurbitaceae</b>			
	138	<i>Ecballium elaterium</i> (L.) Rich	12-6
<b>Dipsacaceae</b>			
	139	<i>Dipsacus laciniatus</i> Falk	17-3
	140	<i>Lomelosia cretica</i> (L.) Greuter & Burdet	17-3
	141	<i>Scabiosa calocephala</i> Boiss.	12-6
<b>Elaeagnaceae</b>			
	142	<i>Hippophae rhamnoides</i> L.	1-1
<b>Ephedraceae</b>			

- 143 *Ephedra foliata* Boiss. ex C.A. Mey. 4-1  
 144 *Ephedra major* Host. 12-6

### **Fabacea**

- 145 *Acacia salicina* Lindl. 1-9  
 146 *Alhagi maurorum* Medik. 12-2  
 147 *Cercis chinensis* Bunge 17-3  
 148 *Cercis siliquastrum* L. 17-3  
 149 *Colutea abyssinica* Kunth & Bouche 1-6  
 150 *Coronilla varia* L. 3-1  
 151 *Ebenus stellata* Boiss. 7-2  
 152 *Glycyrrhiza glabra* L. 12-6  
 153 *Halimodendron halodendron* (Pall.) Druce 17-3  
 154 *Lathyrus latifolius* L. 17-3  
 155 *Sophora alopecuroides* L. 1-3  
 156 *Sophora japonica* L. 17-3  
 157 *Wisteria sinensis* (Sims) Sweet 17-3

### **Hyacinthaceae**

- 158 *Muscari neglectum* Guss. ex Ten. 17-3

### **Iridaceae**

- 159 *Gladiolus segetum* Ker Gawl. 12-10

### **Ixioliriaceae**

- 160 *Ixiolirion tataricum* (Pall.) Herb. & Traub 17-3

### **Lamiaceae**

- 161 *Eremostachys laciniata* Aitch. 1-11  
 162 *Lallemantia canescens* (L.) Fisch. & C.A.Mey. 2-2  
 163 *Marrubium anisodon* K.Koch 6-1  
 164 *Marrubium astracanicum* Jacq. 9-3  
 165 *Marrubium cuneatum* [Soland.] 9-4

166	<i>Marrubium vulgare</i> L.	10-2
167	<i>Monarda citriodora</i> Cerv. ex Lag.	10-4
168	<i>Monarda fistulosa</i> Hook.	11-3
169	<i>Monarda punctata</i> L.	11-7
170	<i>Nepeta fissa</i> C. A. Mey	12-8
171	<i>Nepeta macrosiphon</i> Boiss.	12-4
172	<i>Origanum strobilaceum</i> Mobayen & Ghahr.	12-4
173	<i>Origanum vulgare</i> L.	10-2
174	<i>Otostegia aucheri</i> Boiss.	14-2
175	<i>Perovskia atriplicifolia</i> Benth.	14-2
176	<i>Phlomis bruguieri</i> Desf.	15-1
177	<i>Phlomis cancellata</i> Bunge.	14-3
178	<i>Phlomis cancellata</i> Bunge	15-2
179	<i>Phlomis maximowizii</i> Regel	14-4
180	<i>Phlomis tuberosa</i> L.	17-3
181	<i>Salvia aethiopsis</i> L.	17-3
182	<i>Salvia argentea</i> L.	17-3
183	<i>Salvia cadmica</i> Boiss.	17-3
184	<i>Salvia ceratophylla</i> L.	12-10
185	<i>Salvia coccinea</i> Juss. ex. Murray.	17-3
186	<i>Salvia kopetdaghensis</i> Kudr.	17-3
187	<i>Salvia napifolia</i> Jacq.	17-3
188	<i>Salvia macrosiphon</i> Boiss.	17-3
189	<i>Salvia nemorosa</i> L.	17-3
190	<i>Salvia pratensis</i> L.	17-3
191	<i>Salvia reuteriana</i> Boiss.	17-3
192	<i>Salvia roemeriana</i> Torr.	17-3
193	<i>Salvia scabiosifolia</i> Lam.	17-3

194	<i>Salvia santolinifolia</i> Boiss.	17-3
195	<i>Salvia verticillata</i> L.	1-2
196	<i>Stachys byzantina</i> K.Koch	17-3
197	<i>Stachys inflata</i> Benth.	10-1
198	<i>Stachys pubescens</i> Ten.	17-3
199	<i>Stachys turcomanica</i> Trautv.	17-3
200	<i>Teucrium orientale</i> L.	17-3
201	<i>Teucrium polium</i> L.	1-1
202	<i>Teucrium stocksianum</i> Boiss.	17-3
203	<i>Thymbra spicata</i> L.	17-3
204	<i>Thymus kotschyanus</i> Boiss. & Hohen	12-7
205	<i>Thymus fallax</i> Fisch. & C.A.Mey.	17-3
206	<i>Thymus serpyllum</i> L.	17-3
207	<i>Ziziphora clinopodioides</i> Lam.	1-6
208	<i>Ziziphora tenuior</i> L.	17-3

#### **Liliaceae**

209	<i>Tulipa clusiana</i> Shepherd ex Schult.f.	17-3
210	<i>Tulipa biflora</i> Pall.	19-1

#### **Linaceae**

211	<i>Linum perenne</i> L.	12-2
212	<i>Linum rubrum</i> Raf.	17-3

#### **Lythraceae**

213	<i>Lagerstroemia indica</i> L.	17-3
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#### **Malvaceae**

214	<i>Alcea kopetdaghensis</i> Iljin	11-1
215	<i>Hibiscus manihot</i> L.	17-3

#### **Moraceae**

216	<i>Broussonetia papyrifera</i> (L.) Vent.	17-3
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**Nitrariaceae**

217 *Nitraria schoberi* L. 19-2

**Oleaceae**

218 *Jasminum fruticans* L. 17-3

**Papaveraceae**

219 *Papaver dubium* L. 12-6

**Phytolaccaceae**

220 *Phytolacca americana* L. 17-3

**Plantaginaceae**

221 *Plantago lanceolata* L. 10-2

**Plumbaginaceae**

222 *Acantholimon flexuosum* Boiss. & Hausskn. ex Bunge 1-3

223 *Goniolimon eximium* Boiss. 12-2

224 *Limonium minutum* (L.) Fourr. 17-3

225 *Plumbago europaea* L. 1-2

**Poaceae**

226 *Agropyron distans* K.Koch 1-7

227 *Echinaria capitata* (L.) Desf. 11-3

228 *Festuca ovina* L. 12-7

229 *Festuca arundinacea* Schreb. 1-1

230 *Melica persica* Kunth 12-10

231 *Pennisetum orientale* Rich. 1-5

232 *Phleum phleoides* H.Karst. 14-4

**Polygonaceae**

233 *Atraphaxis spinosa* L. 7-1

**Polemoniaceae**

234 *Phlox drummondii* Hook. 17-3

**Polygalaceae**

235 *Polygala irregularis* Boiss. 7-2

### **Polygonaceae**

236 *Pteropyrum aucheri* Jaub. & Spach 12-2

237 *Rheum ribes* L. 12-4

238 *Rumex obtusifolius* L. 12-10

239 *Rumex pulcher* L. 12-4

240 *Rumex vesicarius* L. 15-1

### **Ranunculaceae**

241 *Aquilegia alpina* L. 17-3

242 *Aquilegia bernardii* Gren. & Gord. 17-3

243 *Aquilegia californica* A.Gray. 17-3

244 *Aquilegia chrysantha* A.Gray 17-3

245 *Aquilegia formosa* Fisch. ex DC. 17-3

246 *Aquilegia fragrans* Benth. 17-3

247 *Aquilegia vulgaris* L. 17-3

248 *Clematis orientalis* L. 17-3

249 *Clematis songarica* Siev. ex Steud. 1-1

250 *Nigella damascena* L. 17-3

### **Resedaceae**

251 *Ochradenus baccatus* Delile 12-2

252 *Reseda lutea* L. 13-5

### **Rhamnaceae**

253 *Frangula alnus* Mill. 17-3

### **Rosaceae**

254 *Amygdalus lycioides* Spach 12-1

255 *Cotoneaster acuminatus* Wall. ex Lindl. 12-7

256 *Cotoneaster affinis* DC. 1-8

257 *Cotoneaster allochrous* Pojark. 1-10

258	<i>Cotoneaster melanocarpus</i> Fisch. ex A.Blytt	12-7
259	<i>Cotoneaster morulus</i> Pojark.	1-8
260	<i>Cotoneaster nummularioides</i> Pojark.	8-1
261	<i>Cotoneaster nummularius</i> Fisch. & C.A.Mey.	10-3
262	<i>Cotoneaster ovatus</i> Pojark.	12-7
263	<i>Crataegus atrosanguinea</i> Pojark.	17-3
264	<i>Crataegus azarolus</i> L.	12-7
265	<i>Crataegus melanocarpa</i> M.Bieb.	17-3
266	<i>Crataegus meyeri</i> Pojark.	10-5
267	<i>Crataegus microphylla</i> K.Koch	12-7
268	<i>Crataegus oxyacantha</i> L.	10-6
269	<i>Crataegus pinnatifida</i> Bunge.	17-3
270	<i>Crataegus songarica</i> K. Koch	1-5
271	<i>Geum hispidum</i> Auct.Germ. ex Scheutz	17-3
272	<i>Potentilla recta</i> L.	12-10
273	<i>Prunus divaricata</i> Ledeb	12-9
274	<i>Prunus spinosa</i> L.	12-7
275	<i>Pyrus boissieriana</i> Buhse	17-3
276	<i>Rosa canina</i> L.	1-1
277	<i>Sanguisorba minor</i> Scop	12-10
278	<i>Sorbus boissieri</i> C.K.Schneid.	17-3

#### **Rubiaceae**

279	<i>Asperula setosa</i> Jaub. & Spach	10-1
280	<i>Gaillonia bruguieri</i> Rich ex. DC.	15-1

#### **Rutaceae**

281	<i>Haplophyllum acutifolium</i> (DC.) G.Don	12-3
282	<i>Ruta graveolens</i> L.	17-3

#### **Sapindaceae**



283 *Xanthoceras sorbifolium* Bunge. 17-3

### **Scrophulariaceae**

284 *Digitalis lutea* Sm. 9-3

285 *Digitalis micrantha* Roth 9-4

286 *Digitalis parviflora* Jacq. 17-3

287 *Misopates orontium* (L.) Raf. 17-3

288 *Penstemon digitalis* Nutt. 17-3

289 *Scrophularia striata* Boiss. 1-3

290 *Scrophularia umbrosa* Dumort. 1-1

291 *Verbascum agrimoniifolium* (K.Koch) Hub.-Mor. 17-3

292 *Verbascum acaule* (Bory & Chaub.) Kuntze 1-3

293 *Verbascum cheiranthifolium* Boiss 10-1

294 *Veronica spicata* L. 17-3

### **Solanaceae**

295 *Hyoscyamus niger* L. 12-4

296 *Hyoscyamus reticulatus* L. 10-1

### **Sterculiaceae**

297 *Firmiana simplex* W.Wight 17-3

### **Tamaricaceae**

298 *Reaumuria alternifolia* Britten 13-2

### **Tiliaceae**

299 *Tilia cordata* Mill. 17-3

### **Valerianaceae**

300 *Valeriana officinalis* L. 17-3

### **Verbenaceae**

301 *Verbena hispida* Ruiz & Pav. 17-3

302 *Verbena stricta* Vent. 17-3

### **Zygophyllaceae**

303	<i>Peganum harmala</i> L.	1-3
304	<i>Zygophyllum atriplicoides</i> Fisch. & C.A.Mey.	14-1
305	<i>Zygophyllum eurypterum</i> Boiss. & Buhse	1-7
306	<i>Zygophyllum fabago</i> L.	12-6

## Seed Collection Sites:

- 1-1. Alborz, after Nesa, 2240 m. N 36°.05'.20", E 051°.18'.49"
- 1-2. Alborz, after Pol-e Khab, 1870-1900 m. N 36°.01'.45", E 051°.09'.12"
- 1-3. Alborz, Chalous road, Kondor village, 1850 m. N 35°.50'.28", E 51°.06'.05"
- 1-4. Alborz, Chalous road, Purkan, 1620-1700 m. N 35°.53'.49", E 051°.02'.46"
- 1-5. Alborz, Chalous road, to Shahrestanak, 2250 m. N 35°.58'.42", E 051°.20'.12"
- 1-6. Alborz, Kordan to Baraghan , 1750 m. N 35°.59'.36", E 50°.54'.52"
- 1-7. Alborz, salty desert around Eshtehard, to Buin Zahra , 1150 m. N 35°.49'.17", E 50°.30'.28"
- 1-8. Alborz. Chalous road, Arange Village, 1840 m. N 35°.55'.401", E 051°.04'.370."
- 1-9. Alborz. Karaj to chalous road. Afrer Asara. 1740 m. N. 36°.02'.24.7", E 51°.11'.16.5."
- 1-10. Alborz. Karaj to chalous road. Afrer Nesa. 2200 m. N. 36°.06'.11.6", E 51°.18'.56.8."
- 1-11. Alborz. Karaj to chalous road. Azadbar village. 2477 m. N. 36°.08'.16.3", E 51°.14'.25.2."
- 1-12. Alborz. Karaj-Chalus road, 1 km after Nesa toward Gachsar, 2179 m. N. 36°.05'.31.9", E 51°18'52.3."
- 1-13. Alborz. Taleghan. 2200 m. N. 36°.06'.581", E 50°.39'.25.5."
- 2-1. East Azerbaijan, Tabriz to Maraghe, Solouk Village, 1716 m. N 37°.32'.494", E 46°.50'.444"
- 2-2. East Azerbaijan , Tabriz. 80 km. frome Kalibar to Tabriz, 1733 m. N 38°.47'.324", E 47°.03'.578."
- 3-1. Fars, Firuzabad, road of Farashband to Kazeroun, 770 m. N 28°.49'.310", E 52°.06'.508."
- 3-2. Fars, Road of Shiraz to Abadeh, 2000 m. N 30°.04'.504", E 53°.09'.574."
- 4-1. Gilan, Road of Loshan to Tarom Sofla, 323 m. N 36°.38'.350", E 49°.27'.286."
- 5-1. Hormozgan. Qeshm island, Namak cave. 149 m N. 26.654855, E. 55.460626.
- 6-1. Ilam,aivan,emamzade abdolah Altitudes,1370-1400 m. N. 33°.46'.25.1", E 46°.19'.21.7."
- 7-1. Kerman. Kiyanshah to Zarand, 33Km to Kiyanshah. 2248 m. N. 31°.02'.28.0", E 56°.33'.31.1."
- 7-2. Kerman. Rafsanjan to Zarand. 2125 m. N. 30°.36'.35.9", E 56°.14'.23.5."
- 8-1. Kermanshah, Dalahu, Gahvareh, Tutshami, 1595 m, N 34°.21'.43", E 046°.20'.25."
- 8-2. Kermanshah, Kerend to Dalahu Road, 1736 m.
- 8-3. Kermanshah, Songhor to Kamyaran, km 60 Kyunanat, 2100 m. N 34°.48'.079", E 47°.02'.910."
- 8-4. Kermanshah. Kamyaran to Sanandaj, 1790-1800 m. N 34°.53'.312", E 46°.56'.573."
- 8-5. Kermanshah. Kamyaran, after Shirvane Village, 1826 m. N 34°.47'.08", E 47°.04'.574."
- 9-1. Lorestan. Khoramabad to Poldokhtar road. Mlavi canyon. 1750 m. N. 33°.44'.383", E 49°.22'.769."
- 9-2. Lorestan.25th Km Doroud to Azna road. 1922 m. N. 35°.25'.482", E 48°.54'.315."
- 9-3. Lorestan.25th Km doroud to Oshtorankouh mountain road. North mountain slope Tiun Village. 2212 m. N. 33°.25'.636", E 48°.52'.076."
- 9-4. Lorestan.Khoramabad. Bishe. Chenar Village & Cheshme pariyan Village. 1634 m. N. 33°.27'.846", E 48°.22'.468."
- 10-1. Mazandaran, Pol-e Zanguleh to Yush, 2600-2700 m. N 36°.13'.47", E 51°.24'.09"
- 10-2. Mazandaran, Siah Bisheh, to Marzanabad, 2350 m. N 36°.15'.27", E 51°.17'.35"
- 10-3. Mazandaran. Between gij & Zanus. Uper than emamzade. 1300 to 1400 m
- 10-4. Mazandaran.Chalush Road. Pole Khab, 1955 m. N 36°.00'.43.6", E 51°.08'.48.9. "
- 10-5. Mazandaran.Noushahr. Kojur, Zanus Valley, 2052m. N 36°.32'.205", E 51°.60'.66."
- 10-6. Mazandaran.Noushahr. Kojur, Zanus Valley. 250 m. N 36°.30'.66", E 51°.52'.85"
- 11-1. North Khorasan. Bojnurd to Rāz befor Gol Tappeh. 1057 m. N 37°.05'.37", E 59°.57'.08"
- 11-2. North Khorasan. Esfārāyen. Qanbar Baghi. 1740 m. N 36°.44'.12", E 58°.02'.17"
- 11-3. North Khorasan. Bojnurd. Charkharvar Village. 1070 m. N. 33°.29'.31", E 57°.17'.53."
- 11-4. North Khorasan. Bojnurd. Esfidan Village. 1570 m. N. 37°.25'.46", E 57°.10'.14."

- 11-5. North Khorasan. Bojnurd. Gharkhod national park. 1250 m. N. 37°.29'.51", E 56°.21'.42"
- 11-6. North Khorasan. Bojnurd. Kohkamar Village. 1150 m. N. 37°.27'.23", E 57°.17'.22"
- 11-7. North Khorasan. Bojnurd. Sisab. 1300 m. N. 37°.25'.11", E 57°.39'.20"
- 12-1. Qazvin, Barajin Village to Zereshk, 1500-1580 m. N 36°.22'.33", E 50°.04'.20"
- 12-2. Qazvin, Buin Zahra, Abyek, 1600 m. N 35°.39'.55", E 50°.08'.02"
- 12-3. Qazvin, Qazvin to Abyek, Between Qazvin to Abyek old road and Highway. 1200 m. N 36°.03'.49", E 50°.23'.15"
- 12-4. Qazvin, Qazvin to Abyek, Jazame village 1360 m. N 36°.06'.42", E 50°.26'.20"
- 12-5. Qazvin, Qazvin to Abyek, uper Jazame village 1400 m. N 36°.07'.28", E 50°.28'.47"
- 12-6. Qazvin, Qazvin to Alamut, 1100-2100 m. N 36°.23'.46", E 50°.13'.18"
- 12-7. Qazvin, Razmian road , 1100-1200 m. N 36°.31'.51", E 50°.09'.39"
- 12-8. Qazvin, Taleqan road, 2240 m. N 36°.07'.40", E 50°.40'.37"
- 12-9. Qazvin, Ziyaran to Taleqan, 2100-2120 m. N 36°.06'.56", E 50°.39'.24"
- 12-10. Qazvin, Taleqan, 1990-2210 m. N 50°.47'.11", E 36°.10'.00"
- 12-11. Qazvin. Abgarm to Sagharan and Arteshabad, 1670 m. N 35°.42'.406", E 49°.19'.566"
- 12-12. Qazvin. Ghazvin to Zereshk village road. Barjin village, 1560 m. N 36°.21'.17.6", E 50°.04'.29.3"
- 13-1. Qom, Kahak, Vashnoh region, 8 km a Vashnoh to Qom, 1936 m. N 34°.27'.016773", E 051°.00'.105147"
- 13-2. Qom, near Namak Lake, 810 m. N 35°.03'.53", E 50°.56'.22"
- 13-3. Qom, near Namak Lake, 860 m. N 34°.55'.05", E 50°.53'.51"
- 13-4. Qom, Qom to Parandak , 1100-1200 m. N 35°.15'.27", E 50°.58'.58"
- 14-1. Semnan. Garmsar. Bon-e Kuh. 1109 m. N. 35°.18'.28", E 52°.26'.25"
- 14-2. Semnan. Rudbarak. 2484 m. N. 36°.02'.40", E 53°.36'.16"
- 14-3. Semnan. Shahmirzad. Shahmirzad to Foulad Mahalleh. 2195 m. N. 35°.49'.37", E 53°.25'.13"
- 14-4. Semnan. Shahrood. Khoshyeylāq. 1250 m. N. 37°.29'.51", E 56°.21'.42"
- 15-1. Sistan & Baluchestan. Iranshahr to Khash, 105 km to Khash. 840 m. N. 27°.32'.32.6", E 60°.48'.14.7"
- 15-2. Sistan & Baluchestan. Khash to Iranshahr, 86 km to Iranshahr. 1341 m. N. 27°.53'.41.3", E 60°.48'.01.4"
- 16-1. South Khorasan Province, boshruyeh to ferdus. 1060 m. N 33°.34'.34", E 52°.43'.48"
- 16-2. South Khorasan Province. Bamroud. 1328 m. N 33°.44'.10", E 56°.23'.20"
- 16-3. South Khorasan Province. Boshrouyeh. between Osfok & Deh-e Mohammad. 1211 m. N 34°.00'.30", E 57°.09'.49"
- 17-1. Tehran, Damavand, Kilan, Tamison, 1800 m. N 35°.33'.527", E 52°.10'.598"
- 17-2. Tehran, Damavand, Tar lake from hover, 2585 m. N 35°.42'.533", E 52°.17'.595"
- 17-3. Tehran. Cultivated in National Botanical Garden of Iran. 1320 m. N. 35°.44'.251", E 51°.10'.242"
- 18-1. West Azerbaijan, Aghbolagh to Oshnavieh, 1712 m. N 37°.11'.119", E 45°.07'.599"
- 18-2. West Azerbaijan, Salmas to Abgarm, Khan Takhti village, 1445 m. N 37°.32'.494", E 45°.07'.073"
- 18-3. West Azerbaijan, Urumieh, Zeve, 1500 m. N 37°.15'.061", E 44°.54'.161"
- 19-1. Yazd, Bafq.
- 19-2. Yazd, Reserch departman of desert plant of sadooghi, 1261 m. N 31°.49'.4698", E 54°.21'.5473"



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