



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

**INDEX
SEMINUM
2018-2019
NATIONAL BOTANICAL GARDEN OF IRAN**



Jurinea macrocephala DC.

**INDEX
SEMINUM
2018-2019**

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

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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 Albourz 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 Albourz 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.

Hyrcanian 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 Albourz 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 Albourz 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 area 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.

Those seeds of this list marked with (*) indicate the plants collected in 2017.

Aceraceae

- 1 *Acer monspessulanum* L. 12-8

Alliaceae

- 2 *Allium akaka* Gmel. 18-4*
3 *Allium hirtifolium* Boiss. 20-5*
4 *Allium scabriscapum* Boiss. 19-1*

Amaranthaceae

- 5 *Aerva persica* (Burm.f.) Merr. 17-1

Apiaceae

- 6 *Ammi visnaga* (L.) Lam. 20-1*
7 *Apium graveolens* L. 19-6
8 *Bilacunaria microcarpa* (M. Bieb.) Pimenov
& V.N. Tikhom. 19-5*
9 *Bunium paucifolium* DC. 19-1*
10 *Cervaria cervariifolia* (C.A. Mey.) M. Pimen. 19-6
11 *Chaerophyllum macrospermum* (Willd. ex
Sult.) Fisch. & C.A. Mey. 5-5
12 *Chaerophyllum macrospermum* (Willd. ex
Sult.) Fisch. & C.A. Mey. 6-3
13 *Conium maculatum* L. 20-4*
14 *Echinophora sibthorpiana* Guss. 20-4*
15 *Falcaria vulgaris* Bernh. 19-6
16 *Hippomarathrum microcarpum* (M.Bieb.)
Petrov 1-8
17 *Leutea petiolaris* (DC.) Pimenov. 19-4*
18 *Malabaila secacul* (Mill.) Boiss. 19-1*
19 *Physospermum cornubiense* (L.) DC 6-6
20 *Prangos ferulacea* Lindl. 19-3*
21 *Prangos haussknechtii* Boiss. 19-4*
22 *Prangos latiloba* Korov. 19-3*
23 *Sium sisaroides* DC. 5-5
24 *Smyrniium cordifolium* Boiss. 14-1
25 *Zosima absinthifolia* Link 12-2*

Apocynaceae

- 26 *Nerium indicum* L. 7-2*

Asteraceae

27	<i>Achillea clavennae</i> L.	19-6
28	<i>Achillea millefolium</i> L.	1-7
29	<i>Achillea pannonica</i> Scheele.	19-6
30	<i>Achillea vermicularis</i> Trin.	1-7
31	<i>Amberboa sosnovskyi</i> Iljin.	19-1*
32	<i>Anthemis tinctoria</i> L.	19-6
33	<i>Centaurea aucheri</i> (DC.) Wagenitz.	8-3*
34	<i>Centaurea behen</i> L.	12-7*
35	<i>Centaurea imperialis</i> Hausskn. Ex Bornm.	20-1*
36	<i>Centaurea lanata</i> Roxb.	14-4
37	<i>Cirsium echinus</i> (M. Bieb.) Sch.Bip.	5-4*
38	<i>Cnicus benedictus</i> L.	14-4
39	<i>Codonocephalum peacockeanum</i> Aitch. & Hemsl.	20-4*
40	<i>Cousinia amplissima</i> Boiss.	19-2*
41	<i>Cousinia calocephala</i> Jaub. & Spach	1-2
42	<i>Cousinia phyllocephala</i> Bornm. & Gauba	14-4
43	<i>Echinops cephalotes</i> DC.	19-1*
44	<i>Echinops mosulensis</i> Rech.f.	14-2
45	<i>Inula helenium</i> L.	20-3*
46	<i>Inula salicina</i> L.	5-3*
47	<i>Jurinea macrocephala</i> DC.	1-1
48	<i>Leontodon asperrimus</i> (Willd.) Endl.	19-4*
49	<i>Picris strigosa</i> M. Bieb.	19-2*
50	<i>Pulicaria dysenterica</i> (L.) Bernh.	12-9*
51	<i>Santolina pinnata</i> Donn.	19-6*
52	<i>Scorzonera laciniata</i> L.	18-3*
53	<i>Scorzonera tortuosissima</i> Boiss.	19-1*
54	<i>Senecio mollis</i> Willd.	20-3*
55	<i>Serratula cerinthifolia</i> (Sm.) Boiss	14-4
56	<i>Serratula coriacea</i> Fisch. & C.A. Mey. Ex. DC.	12-6*
57	<i>Serratula cerinthifolia</i> (Sm.) Boiss.	14-4
58	<i>Tanacetum parthenium</i> Sch.Bip.	1-6

59	<i>Tanacetum polycephalum</i> Sch.Bip.	12-11*
60	<i>Tanacetum vulgare</i> L.	19-6*
61	<i>Zoegea leptaurea</i> L.	14-4
62	<i>Zoegea purpurea</i> Fresen.	19-6*
Berberidaceae		
63	<i>Berberis vulgaris</i> L.	16-5
Bignoniaceae		
64	<i>Catalpa bignonioides</i> Walter.	19-6
65	<i>Chilopsis linearis</i> (Cav.) Sweet	19-6*
Boraginaceae		
66	<i>Echium italicum</i> L.	12-5*
67	<i>Echium plantagineum</i> L.	19-6
68	<i>Trachelanthus cerinthoides</i> Kunze.	19-3*
Brassicaceae		
69	<i>Aethionema grandiflorum</i> Boiss. & Hohen.	2-1*
70	<i>Aethionema grandiflorum</i> Boiss. & Hohen.	8-4
71	<i>Alyssum moellendorffianum</i> Asch.	19-6
72	<i>Aubrieta parviflora</i> Boiss.	14-1
73	<i>Fibigia suffruticosa</i> (Vent.) Sweet.	3-1*
74	<i>Isatis cappadocica</i> Desv.	12-9*
75	<i>Matthiola alyssifolia</i> (DC.) Bornm.	19-5*
76	<i>Peltaria angustifolia</i> DC.	14-3
77	<i>Pseudocamelina campylopoda</i> Bornm. & Gauba ex. Bornm.	19-1*
78	<i>Thlaspi stenocarpum</i> (Boiss.) Hedge	19-4*
Buddlejaceae		
79	<i>Buddleja davidii</i> Franch.	19-6
Caesalpiniaceae		
80	<i>Gymnocladus dioicus</i> (L.) K.Koch	19-6
Calycanthaceae		
81	<i>Calycanthus occidentalis</i> Hook. & Arn.	19-6
82	<i>Chimonanthus praecox</i> L.	19-6
Campanulaceae		
83	<i>Campanula latifolia</i> L.	1-6
84	<i>Platycodon grandiflorus</i> A.DC.	19-6

Capparaceae

- 85 *Capparis parviflora* Boiss. 19-6*

Caprifoliaceae

- 86 *Lonicera bracteolaris* Boiss. & Buhse. 9-1*
87 *Sambucus canadensis* Thunb. 19-6
88 *Sambucus nigra* L. 5-3*
89 *Viburnum rhytidophylloides* Suringar 19-6

Caryophyllaceae

- 90 *Acanthophyllum bracteatum* Boiss. 19-1*
91 *Acanthophyllum sordidum* Bunge ex. Boiss. 19-2*
92 *Arenaria polycnemifolia* Boiss. 19-1*
93 *Dianthus carthusianorum* L. 19-6
94 *Dianthus kiusiana* Makino. 19-6
95 *Dianthus orientalis* Donn 1-4
96 *Dianthus orientalis* Donn 14-3
97 *Dianthus plumarius* Auct. ex Pers. 1-2
98 *Lychnis flos-cuculi* L. 19-6
99 *Lychnis coronaria* (L.) Desr. 19-6
100 *Silene aucheriana* Boiss. 8-6
101 *Silene caesarea* Boiss. & Bal. 19-5*
102 *Silene meyeri* Fenzl ex. Boiss. & Buhse. 5-2*
103 *Vaccaria pyramidata* Medik. 1-2

Celasteraceae

- 104 *Euonymus latifolius* Marshall 16-1

Chenopodiaceae

- 105 *Chenopodium foliosum* Asch. 1-7
106 *Chenopodium foliosum* Asch. 6-4
107 *Eurotia ceratoides* (L.) C.A. Mey. 21-1*
108 *Halostachys caspica* C.A. Mey. 7-1

Clusiaceae

- 109 *Hypericum perforatum* L. 1-5
110 *Hypericum perforatum* L. 8-6
111 *Hypericum scabrum* L. 8-1*

Cornaceae

- 112 *Cornus australis* C.A. Mey. 16-2

Cucurbitaceae

- 113 *Bryonia aspera* Steven 20-5*

Cupressaceae

- 114 *Cupressus sempervirens* L. 7-7*
115 *Juniperus communis* Thunb. 16-8
116 *Juniperus excelsa* M. Bieb. 7-5*
117 *Juniperus x media* pfitzeriana. 19-6*

Dipsacaceae

- 118 *Cephalaria microcephala* Boiss. 1-6
119 *Ptercephalus canus* Coult. ex. DC. 8-1*
120 *Scabiosa atropurpurea* L. 19-6

Elaeagnaceae

- 121 *Hippophae rhamnoides* L. 1-6

Ephedraceae

- 122 *Ephedra foliata* Boiss. Ex. C.A. Mey. 9-2*
123 *Ephedra major* Host. 13-1*
124 *Ephedra sarcocarpa* Aitch. & Hemsl. 6-1

Ericaceae

- 125 *Erica terminalis* Salisb. 19-6

Euphorbiaceae

- 126 *Euphorbia boissieriana* (Woronow) Prokh. 19-5*
127 *Euphorbia buhsei* Boiss. 19-1*
128 *Euphorbia macroclada* Boiss. 5-5

Fabaceae

- 129 *Albizia julibrissin* Durazz. 7-3*
130 *Astragalus alopecuroides* L. 5-2*
131 *Astragalus caraganae* Hohen. 19-4*
132 *Astragalus chrysostachys* Boiss. 19-1*
133 *Astragalus microcephalus* Willd. 12-3*
134 *Astragalus podolobus* Boiss. & Hohen. 19-3*
135 *Astragalus remotijugus* Boiss. & Hohen. 19-1*
136 *Cercis siliquastrum* L. 19-6*
137 *Colutea buhsei* (Boiss.) Shapar 19-1*
138 *Coronilla varia* L. 1-5
139 *Glycyrrhiza glabra* L. 12-4*

140	<i>Glycyrrhiza glabra</i> var. <i>glandulifera</i> (Waldst. & Kit.) Galushko	12-10*
141	<i>Halimodendron halodendron</i> (Pall.) Druce.	6-8
142	<i>Lathyrus latifolius</i> L.	19-6
143	<i>Lathyrus pratensis</i> L.	1-7
144	<i>Melilotus albus</i> Medik.	19-1*
145	<i>Onobrychis melanotricha</i> Boiss.	6-9
146	<i>Oreophysa triphylla</i> (Bunge ex. Boiss.) Bornm.	19-6*
147	<i>Sophora japonica</i> L.	19-6
148	<i>Trigonella elliptica</i> Boiss.	21-1*
149	<i>Vicia ciceroidea</i> Boiss.	19-4*
Frankeniaceae		
150	<i>Frankenia hirsuta</i> L.	20-3*
Geraniaceae		
151	<i>Biebersteinia multifida</i> DC.	21-1*
152	<i>Geranium montanum</i> J.Koenig ex O.Muell.	1-6
Hyacinthaceae		
153	<i>Muscari longipes</i> Boiss.	20-5*
Lamiaceae		
154	<i>Ajuga chamaecistus</i> Ging. ex Benth.	14-2
155	<i>Marrubium astracanicum</i> Jacq.	19-6
156	<i>Marrubium vulgare</i> L.	19-6
157	<i>Nepeta crassifolia</i> Boiss. & Buhse	1-7
158	<i>Nepeta fissa</i> Benth.	14-3
159	<i>Nepeta kotschyi</i> Boiss.	14-3
160	<i>Origanum vulgare</i> L. subsp. <i>gracile</i> (K.Koch) Ietsw.	19-6
161	<i>Phlomis bruguieri</i> Desf.	14-3
162	<i>Phlomis bruguieri</i> Desf.	14-4
163	<i>Phlomis maximowizii</i> Regel.	19-6
164	<i>Phlomis olivieri</i> Benth.	8-5*
165	<i>Phlomis tuberosa</i> L.	1-7
166	<i>Salvia aethiopsis</i> L.	19-6*
167	<i>Salvia argentea</i> L.	19-6

168	<i>Salvia atropatana</i> Bunge.	6-3
169	<i>Salvia cadmica</i> Boiss.	19-6*
170	<i>Salvia coccinea</i> Juss. ex. Murray.	19-6*
171	<i>Salvia forrestii</i> Diels.	19-6
172	<i>Salvia kopetdaghensis</i> Kudr.	19-6*
173	<i>Salvia macrosiphon</i> Boiss.	11-1
174	<i>Salvia macrosiphon</i> Boiss.	14-4
175	<i>Salvia macrosiphon</i> Boiss.	19-6
176	<i>Salvia napifolia</i> Jacq.	19-6
177	<i>Salvia nemorosa</i> L.	19-6*
178	<i>Salvia officinalis</i> L.	19-6*
179	<i>Salvia pratensis</i> L.	19-6*
180	<i>Salvia scabiosifolia</i> Lam.	19-6*
181	<i>Salvia verticillata</i> L.	1-7
182	<i>Salvia virgata</i> Aiton.	19-6*
183	<i>Salvia viridis</i> L.	19-6*
184	<i>Salvia reuteriana</i> Boiss.	14-4
185	<i>Satureja hortensis</i> L.	19-6
186	<i>Stachys inflata</i> Benth.	1-1
187	<i>Teucrium orientale</i> L.	5-1*
188	<i>Teucrium polium</i> L.	6-7
189	<i>Teucrium polium</i> L.	8-4
190	<i>Teucrium scorodonia</i> Sm.	19-6*
191	<i>Teucrium stocksianum</i> Boiss.	14-4
192	<i>Vitex pseudonegundo</i> (Hauskn.) Hand-Mazz.	6-2
Magnoliaceae		
193	<i>Liriodendron tulipifera</i> L.	19-6*
194	<i>Magnolia grandiflora</i> L.	19-6*
Malvaceae		
195	<i>Alcea sulphurea</i> Alef.	19-6*
Meliaceae		
196	<i>Melia azedarach</i> L.	19-6*
Mimosaceae		
197	<i>Acacia salicina</i> Lindl.	7-3*
198	<i>Acacia victoriae</i> Benth.	7-7*

199	<i>Prosopis farcta</i> Macbr.	7-3*
200	<i>Prosopis juliflora</i> (Swartz) DC.	7-3*
Moraceae		
201	<i>Ficus carica</i> L.	19-6*
202	<i>Broussonetia papyrifera</i> (L.) Vent.	19-6
Myrtaceae		
203	<i>Myrtus communis</i> L.	4-2*
Oleaceae		
204	<i>Fraxinus velutina</i> Torr.	19-6*
Papaveraceae		
205	<i>Argemone mexicana</i> L.	19-6*
206	<i>Glaucium flavum</i> Crantz	1-4
207	<i>Papaver fugax</i> Poir.	20-2*
208	<i>Papaver rhoeas</i> L.	19-5
Pedaliaceae		
209	<i>Proboscidea fragrans</i> Decne.	19-6*
Plumbaginaceae		
210	<i>Armeria maritima</i> Willd.	19-6
211	<i>Limonium dodartii</i> Kuntze.	19-6*
Poaceae		
212	<i>Aeluropus littoralis</i> (Gouan) Parl.	20-3*
213	<i>Briza maxima</i> L.	19-6*
214	<i>Festuca arundinacea</i> Schreb.	19-6*
215	<i>Koeleria pyramidata</i> P. Beauv.	19-6*
216	<i>Stipa barbata</i> Michx.	17-1
217	<i>Stipa hohenackeriana</i> Trin. & Rupr. subsp. <i>assyriaca</i> (Hand.-Mazz.) F.M.Vázquez	6-9
Polygonaceae		
218	<i>Atraphaxis spinosa</i> L.	19-6*
219	<i>Rheum ribes</i> L.	21-1*
220	<i>Rumex chalepensis</i> Mill.	1-7
221	<i>Rumex chalepensis</i> Mill.	3-1*
Ranunculaceae		
222	<i>Anemone multifida</i> Poir	19-6*
223	<i>Aquilegia californica</i> A.Gray.	19-6

224	<i>Aquilegia chrysantha</i> A.Gray	19-6
225	<i>Aquilegia vulgaris</i> L.	19-6
226	<i>Clematis orientalis</i> L.	1-9*
227	<i>Delphinium lasiantherum</i> W.T. Wang	19-2*
Resedaceae		
228	<i>Reseda lutea</i> L.	18-1*
Rhamnaceae		
229	<i>Rhamnus pallasii</i> Fisch. C.A. Mey. subsp. <i>sintenssii</i> (Rech.f.) Browicz & Ziel.	10-1*
230	<i>Ziziphus nummularia</i> (Burm.f.) Wight & Arn.	7-4*
Rosaceae		
231	<i>Agrimonia eupatoria</i> L.	19-6*
232	<i>Amygdalus scoparia</i> Spach.	19-6*
233	<i>Cerasus incana</i> Boiss.	19-2*
234	<i>Cotoneaster affinis</i> DC.	19-6
235	<i>Cotoneaster morulus</i> Pojark.	12-1*
236	<i>Cotoneaster nummularius</i> Fisch. & C.A. Mey.	6-5
237	<i>Cotoneaster nummularius</i> Fisch. & C.A.Mey.	19-6
238	<i>Cotoneaster nummularioides</i> Pojark.	19-6
239	<i>Crataegus atrosanguinea</i> Pojark.	16-4
240	<i>Crataegus azarolus</i> L.	1-3*
241	<i>Crataegus meyeri</i> Pojark.	1-3*
242	<i>Crataegus pseudoheterophylla</i> Pojark.	1-3*
243	<i>Crataegus melanocarpa</i> Bory & Chaub.	16-6
244	<i>Crataegus melanocarpa</i> Bory & Chaub.	19-6
245	<i>Crataegus microphylla</i> Gand.	16-3
246	<i>Crataegus oxyacantha</i> L.	19-6*
247	<i>Crataegus pinnatifida</i> Bunge.	19-6
248	<i>Geum hispidum</i> Auct.Germ. ex Scheutz	19-6
249	<i>Malus orientalis</i> Uglitzk.	19-2*
250	<i>Mespilus germanica</i> L.	9-2*
251	<i>Potentilla recta</i> L.	1-7
252	<i>Potentilla recta</i> L.	8-2
253	<i>Prunus spinosa</i> L.	16-3
254	<i>Pyrus boissieriana</i> Buhse.	16-3

255	<i>Rosa elymaitica</i> Boiss. & hausskn. ex. Boiss.	4-1*
256	<i>Rosa canina</i> L.	1-6
257	<i>Rosa canina</i> Sol. ex Bab.	19-6
258	<i>Sorbus boissieri</i> C.K.Schneid.	16-7
Rutaceae		
259	<i>Ruta graveolens</i> L.	19-6*
Sapindaceae		
260	<i>Koelreuteria paniculata</i> Laxm.	19-6
261	<i>Xanthoceras sorbifolium</i> Bunge.	19-6
Scrophulariaceae		
262	<i>Paulownia tomentosa</i> (Thunb.) Steud.	19-6*
263	<i>Scrophularia striata</i> Boiss.	14-3
264	<i>Scrophularia striata</i> Boiss.	18-2*
265	<i>Verbascum agrimoniifolium</i> (K.Koch) Hub.Mor.	14-4
Sterculiaceae		
266	<i>Firmiana simplex</i> W.Wight	19-6
Tamaricaceae		
267	<i>Reaumuria alternifolia</i> Britten	19-2*
Thymelaeaceae		
268	<i>Daphne angustifolia</i> K.Koch	14-2
269	<i>Daphne mucronata</i> Royle	8-2
270	<i>Dendrostellera lessertii</i> Tiegh.	1-4
Ulmaceae		
271	<i>Celtis australis</i> L.	15-1
272	<i>Celtis tournefortii</i> Lam.	7-6*
273	<i>Celtis trinervia</i> Roxb.	19-6
Verbenaceae		
274	<i>Verbena hispida</i> Ruiz & Pav.	19-6*
Zygophyllaceae		
275	<i>Zygophyllum atriplicoides</i> Fisch. & C.A.Mey.	19-6
276	<i>Zygophyllum eurypterum</i> Boiss. & Buhse	21-1*

Seed Collection Sites:

- 1-1. Alborz. Taleghan. 2010 m. N. $36^{\circ}.10 .59.4''$, E $50^{\circ}.52 .34.0''$
- 1-2. Alborz. Taleghan. 2200 m. N. $36^{\circ}.06 .581''$, E $50^{\circ}.39 .25.5''$
- 1-3. Alborz. Chalous road, Arange Village, 1840 m. N $35^{\circ}.55 .401''$, E $051^{\circ}.04 .370''$
- 1-4. Alborz. Karaj to Baraghan road. Befor Miyansar village. 1780 m. N. $35^{\circ}.54 .25.6''$, E $50^{\circ}.57 .57.3''$
- 1-5. Alborz. Karaj to chalous road. Afrer Asara. 1740 m. N. $36^{\circ}.02 .24.7''$, E $51^{\circ}.11 .16.5''$
- 1-6. Alborz. Karaj to chalous road. Afrer Nesa. 2200 m. N. $36^{\circ}.06 .11.6''$, E $51^{\circ}.18 .56.8''$
- 1-7. Alborz. Karaj to chalous road. Azadbar village. 2477 m. N. $36^{\circ}.08 .16.3''$, E $51^{\circ}.14 .25.2''$
- 1-8. Alborz. Karaj-Chalus road, 1 km after Nesa toward Gachsar, 2179 m. N. $36^{\circ}.05'.31.9''$, E $51^{\circ}18'52.3''$
- 1-9. Alborz. Shahrestanak. 2120 m. N $35^{\circ}.59 .655''$, E $51^{\circ}.18 .645''$
- 2-1. Ardabil, Khalkhal to Hashtgin, 1630 m. N $37^{\circ}.26 .827''$, E $48^{\circ}.23 .544''$
- 3-1. Azarbaijan, Western Azerbaijan, Urumiyeh road to Oshnavieh, Ghassemlou valley forest reserve, 1348-1365 m. N $37^{\circ}.21 .086''$, E $45^{\circ}.09 .126''$
- 4-1. Chahar mahal va bakhtiyari, Rig Mountain.
- 4-2. Chaharmahal va bakhtiyari, Maadan Village. 2584 m. N $32^{\circ}.31 .025''$, E $50^{\circ}.12 .25''$.
- 5-1. East Azarbaijan , Tabriz. 80 km. frome Kalibar to Tabriz, 1733 m. N $38^{\circ}.47 .324''$, E $47^{\circ}.03 .578''$
- 5-2. East Azarbaijan, Khoy, Ghotour valley, 1586 m. N $38^{\circ}.27 .150''$, E $44^{\circ}.39 .279''$
- 5-3. East Azarbaijan, Maraghe, Cheken Village, 1707 m. N $37^{\circ}.23 .492''$, E $46^{\circ}.43 .404''$
- 5-4. East Azarbaijan, Marand to Tabriz, Tariyamishou, 1823 m. N $38^{\circ}.20 .174''$, E $45^{\circ}.47 .549''$

- 5-5. East Azarbaijan, Tabriz to Maraghe, Solouk Village, 1716 m. N
37°.32 .494", E 46°.50 .444"
- 6-1. Esfahan, Aran and Bidgol, Khotbshekan Village, 940 m. N
34°.13 .12", E 051°.33 .19"
- 6-2. Esfahan, Aran and Bidgol, Yakh Aab Mountains, 1280 m. N
34°.01 .46", E 052°.02 .24"
- 6-3. Esfahan, Freydushahr, to Langan spring, 2462 m. N. 32°.51 54.8", E
50°.02 .32.8"
- 6-4. Esfahan, Kashan, Rahaq, 1800 m. N 34°.09 .49", E 050°.57 .68"
- 6-5. Esfahan, Kashan, Shahsavaran Road, 1860 m. N 33°.42 .57", E
051°.30 .22".
- 6-6. Esfahan, Qamsar, Jonian, 1920 m. N 33°.41 .58", E 051°.27 .23"
- 6-7. Esfahan, Rahaq, 1760 m. N 34°.09 .31", E 050°.58 .36"
- 6-8. Esfahan. Kashan, Jonian, 1900 m. N 33°.41 .58", E 051°.03 .243"
- 6-9. Esfahan. Zayandeh Rood Dam.2024 m. N. 32.734032, E. 50.737188
- 7-1. Fars, Estahbanat, road of Kherameh to Khir, 1550 m. N 29°.09 .484",
E 53°.42 .571"
- 7-2. Fars, Shiraz, road of Shiraz to Sarvestan, before Koohenjan, Seifabad
village, 1600 m.
- 7-3. Fars, Firuzabad, road of Farashband to Kazeroun, 770 m. N
28°.49 .310", E 52°.06 .508"
- 7-4. Fars, Mamassani, in Jahad keshavarzi garden. 930 m.
- 7-5. Fars, Road of Estahbanat to Eij, 2000 m. N 29°.03 .519", E
54°.11 .375"
- 7-6. Fars, Road of Shiraz to Abadeh, 2000 m. N 30°.04 .504", E
53°.09 .574"
- 7-7. Fars, Shiraz, Road of Shiraz to Fasa, 1800 m. N 29°.06 .085", E
52°.57 .364"
- 8-1. Ghazvin. Abgarm to Sagharan and Arteshabad, 1670 m. N
35°.42 .406", E 49°.19 .566"
- 8-2. Ghazvin. Alamot, after moalem kelaieh village. , 1470-1500 m. N
36°.24 .48.0", E 50°.30 .32.3"
- 8-3. Ghazvin. Tarum-e-sofla , Hossein abad forest. Alt: 1620 m. N
36°.33 .12.0", E 49°.16 .37.0"

- 8-4. Ghazvin. Barjin to Zereshk village road. 2060 m. N 36°.26 .30.8", E 50°.06 .42.4"
- 8-5. Ghazvin. First Alamuot Pass to Rejaeidasht, 1965-2000 m. N 30°.21 .555", E 50°.11 .541"
- 8-6. Ghazvin. Ghazvin to Zereshk village road. Barjin village, 1560 m. N 36°.21 .17.6", E 50°.04 .29.3"
- 9-1. Gilan, Rezvanshahr, Pargam, Shafarood zone. 900 m
- 9-2. Gilan, Road of Loshan to Tarom Sofla, 323 m. N 36°.38 .350", E 49°.27 .286"
- 10-1. Golestan, Golestan Park. 1670 m.
- 11-1. Ilam, aivan, emamzade abdolah Altitudes, 1370-1400 m. N. 33°.46 .25.1", E 46°.19 .21.7"
- 12-1. Kermanshah, Dalahu, Gahvareh, Tutshami, 1595 m, N 34°.21 .43", E 046°.20 .25".
- 12-2. Kermanshah, Kerend to Dalahu Road, 1736 m
- 12-3. Kermanshah, Novva kuh, 2400 m. N 38°.19 .8.4", E 046°.06 .22.1"
- 12-4. Kermanshah, Ravansar to Nafteh, in altitudes close to Ovais Qarani shrine, 1413 m.
- 12-5. Kermanshah, Rijab, Abudojaneh shrine, 1003 m. N 34°.22 .41.1", E 046°.03 .37.9"
- 12-6. Kermanshah, Songhor to Kamyaran, km 60 Kyunanat, 2100 m. N 34°.48 .079", E 47°.02 .910"
- 12-7. Kermanshah, Zardeh village, Babayadegar, close to shrine Babayadegar, 1390 m. N 34°.23 .52.4", E 045°.58 .14.6"
- 12-8. Kermanshah. Baba yadegar, 1390 m. N 34°.32 .52.4", E 54°.58 .14.6".
- 12-9. Kermanshah. Kamyaran to Sanandaj, 1790-1800 m. N 34°.53 .312", E 46°.56 .573"
- 12-10. Kermanshah. Kamyaran, after Shirvane Village, 1826 m. N 34°.47 .08", E 47°.04 .574"
- 12-11. Kermanshah. Songhor to Kamyaran, Km 60, Kahelabad village, 2070-2100 m. N 34°.48 .011", E 47°.13 .114"
- 13-1. Kordestan, Baneh, Shoi village, 1580 m.

- 14-1. Lorestan. Khranabad to Poldokhtar road. Mlavi canyon. 1750 m. N. 33°.44 .383", E 49°.22 .769"
- 14-2. Lorestan.25th Km Doroud to Azna road. 1922 m. N. 35°.25 .482", E 48°.54 .315"
- 14-3. Lorestan.25th Km doroud to Oshtorankouh mountain road. North mountain slope Tiun Village. 2212 m. N. 33°.25 .636", E 48°.52 .076"
- 14-4. Lorestan.Khoranabad. Bishe. Chenar Village & Cheshme pariyan Village. 1634 m. N. 33°.27 .846", E 48°.22 .468"
- 15-1. Markazi, Khomein, Bufian village, 2460 m. N 33°.52 .18", E 049°.50 .56".
- 16-1. Mazandaran.Noushahr. Kojur, Zanoos Valley. 250 m. N 36°.30 .66", E 51°.52 .85"
- 16-2. Mazandaran.Noushahr. Kojur, Zanoos Valley. 350 m. N 36°.29 .84", E 51°.51 .35"
- 16-3. Mazandaran.Noushahr. Kojour, Lashak Valley, 500 m. N 36°.32 .264", E 01°.60 .636"
- 16-4. Mazandaran.Noushahr. Kojour, Lashak Valley. 350 m. N 36°.32 .205", E 51°.60 .668"
- 16-5. Mazandaran.Noushahr. Kojur, Lashak Valley. Darvish Ahmad village. 250 m. N 26°.32 .264", E 51°.60 .636".
- 16-6. Mazandaran.Noushahr. Kojur, Zanoos Valley, 2052m. N 36°.32 .205", E 51°.60 .66"
- 16-7. Mazandaran.Noushahr. Kojur, Zanoos Valley. 600 m. N 36°.30 .66", E 51°.52 .85".
- 16-8. Mazandaran.Noushahr. Kojur, Zanoos Valley. 2100 m. N 36°.29 .06", E 51°.50 .75".
- 17-1. Hormozgan. Qeshm iland, Namak cave. 149 m N. 26.654855, E. 55.460626
- 18-1. Qom, Kahak, Vashnoh region, 2096 m. N 35°.23 .616179", E 051°.00 .001482"
- 18-2. Qom, Kahak, Vashnoh region, 2101 m. N 34°.23 .651186", E 050°.99 .88868".
- 18-3. Qom, Kahak, Vashnoh region, 8 km a Vashnoh to Qom, 1936 m. N 34°.27 .016773", E 051°.00 .105147"

- 18-4. Qom, Salafchegan, km 3 Salafchegan to Qom road, 1354 m. N 34°41 .866785", E 050°49 .376601".
- 19-1. Tehran, Damavand, Kilan, Tamison, 1800 m. N 35°33 .527", E 52°10 .598"
- 19-2. Tehran, Damavand, Mountain, Daliran, 2250 m. N 35°53 .211", E 52°06 .135"
- 19-3. Tehran, Damavand, Tar lake from hover, 2585 m. N 35°42 .533", E 52°17 .595"
- 19-4. Tehran, Damavand, Tar lake.2912 m. N 35°44 .058", E 52°13 .313"
- 19-5. Tehran, Road from Imamzadeh Davood to Talon. 2268 m. N 35°54 .080", E 51°17 .545"
- 19-6. Tehran. Cultivated in National Botanical Garden of Iran. 1320 m. N. 35°44 .251", E 51°10 .242"
- 20-1. West Azerbaijan, Aghbolagh to Oshnavieh, 1712 m. N 37°11 .119", E 45°07 .599"
- 20-2. West Azerbaijan, Rajan, Khalilkouh, 3100 m. N 37°21 .489", E 44°48 .319"
- 20-3. West Azerbaijan, Salmas to Abgarm, Khan Takhti village, 1445 m. N 37°32 .494", E 45°07 .073"
- 20-4. West Azerbaijan, Urumieh, Zeve, 1500 m. N 37°15 .061", E 44°54 .161"
- 20-5. West Azerbaijan, Urumiyeh road to Oshnavieh, Ghasemlou valley, 1650-1800 m. N 37°13 .210", E 45°07 .073"
- 21-1. Yazd, Bafq.



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