



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

INDEX
SEMINUM
2020-21
NATIONAL BOTANICAL GARDEN OF IRAN



Ligularia persica Boiss.

**INDEX
SEMINUM
2020-21**

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

Please use the enclosed form for your order

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Z. Noghani

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.

Alliaceae

- 1 *Allium akaka* S.G. Gmel. ex Schult. & Schult.f. 14--4
- 2 *Allium scabriscapum* Boiss. 18--1
- 3 *Allium victorialis* L. 18--4

Amaranthaceae

- 4 *Aerva javanica* (Burm.f.) Juss. ex Schult., Syst. Veg., ed. 5--1
- 5 *Aerva persica* (Burm.f.) Merr. 16--1

Anacardiaceae

- 6 *Pistacia atlantica* DC. 2--4

Apiaceae

- 7 *Ammi visnaga* (L.) Lam. 1--5
- 8 *Apium graveolens* L. 1--6
- 9 *Cervaria cervariifolia* (C.A. Mey.) M. Pimen. 2--2
- 10 *Chaerophyllum macrospermum* (Willd. ex Schult.) Fisch. & C.A. Mey. 9--2
- 11 *Chaerophyllum macrospermum* (Willd. ex Schult.) Fisch. & C.A. Mey. 9--2
- 12 *Conium maculatum* L. 10--1
- 13 *Dorema ammoniacum* D. Don 12--2
- 14 *Echinophora platyloba* DC. 12--3
- 15 *Echinophora sibthorpiana* Guss. 13--1
- 16 *Eryngium billardierei* Heldr. ex Boiss. 13--2
- 17 *Eryngium caeruleum* M. Bieb. 13--3
- 18 *Ferula assa-foetida* L. 13--4
- 19 *Bilacunaria microcarpa* (M. Bieb.) Pimenov & V.N. Tikhom 18--1
- 20 *Johreniopsis stricticaulis* (Rech.f.) Pimenov 18--3
- 21 *Leutea petiolaris* (DC.) Pimenov. 18--3
- 22 *Malabaila secacul* (Mill.) Boiss. 18--3
- 23 *Oenanthe pimpinelloides* L. 18--4

	24	<i>Pastinaca sativa</i> L.	18--4
	25	<i>Pimpinella affinis</i> Ledeb.	18--4
	26	<i>Pimpinella aurea</i> DC.	18--4
	27	<i>Pimpinella dichotoma</i> Hort ex Steud.	18--4
	28	<i>Prangos ferulacea</i> Lindl.	18--4
	29	<i>Prangos haussknechtii</i> Boiss.	19--1
	30	<i>Scaligeria meifolia</i> Boiss.	19--3
	31	<i>Smyrniium cordifolium</i> Boiss.	19--3
	32	<i>Zosima absinthifolia</i> Link	20--3
Asclepiadaceae			
	33	<i>Cynanchum acutifolium</i> Reiche	13--4
Asparagaceae			
	34	<i>Bellevalia glauca</i> Kunth	18--4
Asteraceae			
	35	<i>Achillea collina</i> (Becker ex Rchb.f.) Heimerl	1--3
	36	<i>Achillea eriophora</i> DC.	1--4
	37	<i>Achillea millefolium</i> L.	2--1
	38	<i>Achillea pannonica</i> Scheele.	9--3
	39	<i>Achillea tenuifolia</i> Lam.	1--4
	40	<i>Achillea vermicularis</i> Trin.	9--4
	41	<i>Acroptilon repens</i> (L.) DC.	9--5
	42	<i>Anthemis altissima</i> L.	10--2
	43	<i>Anthemis tinctoria</i> L.	10--4
	44	<i>Artemisia aucheri</i> Boiss.	10--4
	45	<i>Artemisia scoparia</i> Waldst. & Kit.	10--4
	46	<i>Artemisia sibirica</i> Maxim.	10--4
	47	<i>Aster amellus</i> L.	12--3
	48	<i>Aster diplostephioides</i> Benth. & Hook.f.	12--4

49	<i>Aster tataricus</i> Turcz.	12--5
50	<i>Centaurea aucheri</i> (DC.) Wagenitz.	12--5
51	<i>Centaurea imperialis</i> Hausskn. ex Bornm.,	12--6
52	<i>Centaurea lanata</i> Roxb.	13--1
53	<i>Centaurea virgata</i> Lam.	13--1
54	<i>Cichorium intybus</i> L.	13--1
55	<i>Cirsium echinus</i> (M. Bieb.) Sch.Bip.	13--1
56	<i>Cnicus benedictus</i> L.	13--1
57	<i>Cousinia calocephala</i> Jaub. & Spach	13--2
58	<i>Cousinia phyllocephala</i> Bornm. & Gauba	13--3
59	<i>Cousinia turcomanica</i> C.Winkl.	13--2
60	<i>Dittrichia graveolens</i> (L.) Greuter	13--3
61	<i>Echinacea paradoxa</i> Britton	14--1
62	<i>Echinacea purpurea</i> (L.) Moench	13--3
63	<i>Echinops cephalotes</i> DC.	15--1
64	<i>Echinops cephalotes</i> DC.	15--2
65	<i>Echinops mosulensis</i> Rech.f.	17--4
66	<i>Echinops ritrodes</i> Bunge	15--5
67	<i>Helichrysum oligocephalum</i> DC.	18--1
68	<i>Heteropappus altaicus</i> Novopokrov.	18--3
69	<i>Inula helenium</i> L.	18--4
70	<i>Jurinea macrocephala</i> DC.	18--4
71	<i>Leontodon asperrimus</i> (Willd.) Endl.	18--4
72	<i>Leucanthemella serotina</i> (L.) Tzvelev	18--4
73	<i>Picris strigosa</i> M.Bieb	18--4
74	<i>Pulicaria dysenterica</i> (L.) Bernh.	18--4
75	<i>Sanvitalia procumbens</i> Lam.	18--4
76	<i>Scozonera laciniata</i> L.	18--4

	77	<i>Scorzonera tortuosissima</i> Boiss.	18--4
	78	<i>Senecio mollis</i> Willd.	18--4
	79	<i>Serratula cerinthifolia</i> (Sm.) Boiss.	18--4
	80	<i>Serratula coriacea</i> Fisch. & C.A. Mey. Ex. DC.	18--4
	81	<i>Tanacetum parthenium</i> Sch.Bip.	18--4
	82	<i>Tanacetum polycephalum</i> Sch.Bip.	19--1
	83	<i>Verbesina encelioides</i> (Cav.) Benth. & Hook.f. ex A.Gray	19--2
	84	<i>Zoegea purpurea</i> Fresen.	19--2
Berberidaceae			
	85	<i>Berberis integerrima</i> Bunge	15--2
Betulaceae			
	86	<i>Betula pendula</i> Roth	18--4
Bignoniaceae			
	87	<i>Chilopsis linearis</i> (Cav.) Sweet	18--4
Boraginaceae			
	88	<i>Anchusa italica</i> Retz.	9--3
	89	<i>Echium italicum</i> L.	13--4
Brassicaceae			
	90	<i>Aethionema grandiflorum</i> Boiss. & Hohen.	13--2
	91	<i>Aubrieta deltoidea</i> (L.) DC.	13--3
	92	<i>Fibigia eriocarpa</i> Boiss.	13--4
	93	<i>Fortuynia garcinii</i> Shuttlew. ex Boiss.	13--4
	94	<i>Isatis cappadocica</i> Desv.	17--1
	95	<i>Isatis minima</i> Bunge	18--1
	96	<i>Lepidium draba</i> L.	18--3
	97	<i>Lepidium perfoliatum</i> L.	18--4
	98	<i>Pseudocamelina campylopoda</i> Bornm. & Gauba ex Bornm.	18--4
	99	<i>Thlaspi stenocarpum</i> Boiss. & Hohen.	20--4

	100	<i>Calycanthus occidentalis</i> Hook. & Arn.	18--4
Campanulaceae			
	101	<i>Campanula bononiensis</i> L.	1--3
	102	<i>Campanula latifolia</i> L.	18--4
	103	<i>Campanula rotundifolia</i> Boiss.	18--4
	104	<i>Platycodon grandiflorus</i> A.DC.	18--4
Cannabaceae			
	105	<i>Celtis tournefortii</i> Lam.	3--2
	106	<i>Celtis trinervia</i> Roxb.	18--4
Capparaceae			
	107	<i>Capparis parviflora</i> Boiss.	18--4
Caprifoliaceae			
	108	<i>Lonicera iberica</i> M.Bieb.	13--5
	109	<i>Pterocephalus canus</i> Coult. ex. DC.	15--3
	110	<i>Sambucus canadensis</i> L.	18--4
	111	<i>Symphoricarpos albus</i> (L.) S.F.Blake	18--4
	112	<i>Viburnum lantana</i> Wall. ex D.Don	18--4
	113	<i>Viburnum rhytidophylloides</i> Suringar	18--4
Caryophyllaceae			
	114	<i>Acanthophyllum speciosum</i> Schiman-Czeika	1--7
	115	<i>Dianthus armeria</i> L.	17--3
	116	<i>Dianthus carthusianorum</i> L.	12--7
	117	<i>Dianthus haematocalyx</i> Boiss. & Heldr.	13--3
	118	<i>Dianthus kiusiana</i> Makino	15--2
	119	<i>Dianthus orientalis</i> Adams	15--3
	120	<i>Dianthus plumarius</i> Gunn. ex Spreng.	17--2
	121	<i>Dianthus sylvestris</i> Boiss.	17--3

	122	<i>Gypsophila libanotica</i> Boiss.	18--4
	123	<i>Lychnis chalconica</i> L.	18--4
	124	<i>Lychnis flos-cuculi</i> L.	18--4
	125	<i>Lychnis coronaria</i> Franch. & Sav.	18--4
	126	<i>Silene armeria</i> M.Bieb.	18--4
	127	<i>Silene aucheriana</i> Boiss.	18--4
	128	<i>Silene dichotoma</i> Ehrh.	18--4
	129	<i>Silene vulgaris</i> (Moench) Garcke	18--4
	130	<i>Spergularia diandra</i> (Guss.) Boiss.	18--4
	131	<i>Stellaria alsinoides</i> Boiss. & Buhse	18--4
	132	<i>Vaccaria pyramidata</i> Medik.	18--4
Celastraceae			
	133	<i>Euonymus latifolius</i> Marshall	11--5
Chenopodiaceae			
	134	<i>Atriplex griffithii</i> Moq.	1--4
	135	<i>Chenopodium foliosum</i> Asch.	14--3
Cistaceae			
	136	<i>Helianthemum apenninum</i> Boiss.	18--4
Clusiaceae			
	137	<i>Hypericum perforatum</i> L.	13--4
Clusiaceae			
	138	<i>Hypericum scabrum</i> L.	18--4
Convolvulaceae			
	139	<i>Convolvulus tricolor</i> L.	18--4
Cornaceae			
	140	<i>Cornus australis</i> C.A. Mey.	11--5
Cupressaceae			
	141	<i>Juniperus communis</i> L.	15--3

Dipsacaceae		
142	<i>Dipsacus laciniatus</i> Falk	18--4
143	<i>Scabiosa columbaria</i> Willk. ex Willk. & Lange	18--4
Elaeagnaceae		
144	<i>Hippophae rhamnoides</i> L.	18--4
Ephedraceae		
145	<i>Ephedra foliata</i> Boiss. ex C.A. Mey.	4--1
Fabacea		
	<i>Acacia salicina</i> Lindl.	1--2
147	<i>Coronilla varia</i> L.	3--1
148	<i>Ebenus stellata</i> Boiss.	8--2
149	<i>Lathyrus latifolius</i> L.	18--4
150	<i>Sophora japonica</i> L.	18--4
151	<i>Alhagi maurorum</i> Medik.	13--1
152	<i>Cercis chinensis</i> Bunge	18--4
153	<i>Cercis siliquastrum</i> L.	18--4
154	<i>Halimodendron halodendron</i> (Pall.) Druce	18--4
155	<i>Wisteria sinensis</i> (Sims) Sweet	18--4
Hyacinthaceae		
156	<i>Muscari neglectum</i> Guss. ex Ten.	18--4
Ixioliriaceae		
157	<i>Ixiolirion tataricum</i> (Pall.) Herb. & Traub	18--4
Lamiaceae		
158	<i>Eremostachys laciniata</i> Aitch.	1--4
159	<i>Lallemantia canescens</i> (L.) Fisch. & C.A.Mey.	2--3
160	<i>Marrubium anisodon</i> K.Koch	6--1
161	<i>Marrubium astracanicum</i> Jacq.	10--3
162	<i>Marrubium cuneatum</i> [Soland.]	10--4

163	<i>Marrubium vulgare</i> L.	10--4
164	<i>Monarda citriodora</i> Cerv. ex Lag.	11--2
165	<i>Monarda fistulosa</i> Hook.	12--3
166	<i>Monarda punctata</i> L.	12--7
167	<i>Nepeta crispa</i> Willd.	13--1
168	<i>Nepeta fissa</i> Benth.	13--3
169	<i>Nepeta macrosiphon</i> Boiss.	13--3
170	<i>Origanum strobilaceum</i> Mobayen & Ghahr.	13--3
171	<i>Origanum vulgare</i> L. subsp. <i>gracile</i> (K.Koch) letsw.	13--7
172	<i>Otostegia aucheri</i> Boiss.	15--3
173	<i>Perovskia atriplicifolia</i> Benth.	15--3
174	<i>Phlomis cancellata</i> Bunge.	15--4
175	<i>Phlomis bruguieri</i> Desf.	16--1
176	<i>Phlomis cancellata</i> Bunge	16--2
177	<i>Phlomis maximowizii</i> Regel	15--5
178	<i>Phlomis tuberosa</i> L.	18--4
179	<i>Salvia aethiopsis</i> L.	18--4
180	<i>Salvia argentea</i> L.	18--4
181	<i>Salvia cadmica</i> Boiss.	18--4
182	<i>Salvia coccinea</i> Juss. ex. Murray.	18--4
183	<i>Salvia kopetdaghensis</i> Kudr.	18--4
184	<i>Salvia macrosiphon</i> Boiss.	18--4
185	<i>Salvia napifolia</i> Jacq.	18--4
186	<i>Salvia nemorosa</i> L.	18--4
187	<i>Salvia pratensis</i> L.	18--4
188	<i>Salvia reuteriana</i> Boiss.	18--4
189	<i>Salvia roemeriana</i> Torr.	18--4
190	<i>Salvia santolinifolia</i> Boiss.	18--4

	191	<i>Salvia scabiosifolia</i> Lam.	18--4
	192	<i>Salvia verticillata</i> L.	18--4
	193	<i>Stachys byzantina</i> K.Koch	18--4
	194	<i>Stachys pubescens</i> Ten.	18--4
	195	<i>Stachys turcomanica</i> Trautv.	18--4
	196	<i>Teucrium orientale</i> L.	18--4
	197	<i>Teucrium polium</i> L.	18--4
	198	<i>Teucrium stocksianum</i> Boiss.	18--4
	199	<i>Thymbra spicata</i> L.	18--4
	200	<i>Thymus fallax</i> Fisch. & C.A.Mey.	18--4
	201	<i>Thymus serpyllum</i> L.	18--4
	202	<i>Ziziphora clinopodioides</i> Lam.	18--4
	203	<i>Ziziphora tenuior</i> L.	18--4
Liliaceae			
	204	<i>Tulipa biflora</i> Pall.	20--1
	205	<i>Tulipa clusiana</i> Shepherd ex Schult.f.	18--4
Linaceae			
	206	<i>Linum perenne</i> L.	13--1
	207	<i>Linum rubrum</i> Raf.	18--4
Lythraceae			
	208	<i>Lagerstroemia indica</i> L.	18--4
Malvaceae			
	209	<i>Alcea kopetdaghensis</i> Iljin	12--1
	210	<i>Hibiscus manihot</i> L.	18--4
Moraceae			
	211	<i>Broussonetia papyrifera</i> (L.) Vent.	18--4
Nitrariaceae			
	212	<i>Nitraria schoberi</i> L.	20--2

Oleaceae		
	213	<i>Fraxinus ornus</i> L. 18--4
	214	<i>Jasminum fruticans</i> L. 18--4
Papaveraceae		
	215	<i>Papaver dubium</i> L. 7--1
Phytolaccaceae		
	216	<i>Phytolacca americana</i> L. 18--4
Plantaginaceae		
	217	<i>Plantago lanceolata</i> L. 13--3
	218	<i>Plantago lanceolata</i> L. 13--4
Plumbaginaceae		
	219	<i>Goniolimon eximium</i> Boiss. 13--1
	220	<i>Limonium minutum</i> (L.) Fourr. 18--4
	221	<i>Plumbago europaea</i> L. 18--4
Poaceae		
	222	<i>Echinaria capitata</i> (L.) Desf. 12--3
	223	<i>Melica persica</i> Kunth 12--3
	224	<i>Pennisetum orientale</i> L. C. Rich. 12--7
	225	<i>Phleum phleoides</i> H.Karst. 15--5
Polemoniaceae		
	226	<i>Phlox drummondii</i> Hook. 18--4
Polygalaceae		
	227	<i>Polygala irregularis</i> Boiss. 8--2
	228	<i>Atraphaxis spinosa</i> L. 8--1
	229	<i>Pteropyrum aucheri</i> Jaub. & Spach 13--1
	230	<i>Rheum ribes</i> L. 13--3
	231	<i>Rumex pulcher</i> L. 13--3
	232	<i>Rumex vesicarius</i> L. 16--1

Ranunculaceae

233	<i>Aquilegia alpina</i> L.	18--4
234	<i>Aquilegia bernardii</i> Gren. & Gord.	18--4
235	<i>Aquilegia californica</i> Hartw.	13--1
236	<i>Aquilegia chrysantha</i> A.Gray	18--4
237	<i>Aquilegia formosa</i> Fisch. ex DC.	18--4
238	<i>Aquilegia formosa</i> Fisch. ex DC.	18--4
239	<i>Aquilegia fragrans</i> Benth.	18--4
240	<i>Aquilegia vulgaris</i> L.	18--4
241	<i>Clematis orientalis</i> L.	18--4
242	<i>Nigella damascena</i> L.	18--4

Resedaceae

243	<i>Ochradenus baccatus</i> Delile	13--1
244	<i>Reseda lutea</i> L.	16--2

Rhamnaceae

245	<i>Frangula alnus</i> Mill.	18--4
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Rosaceae

246	<i>Cotoneaster affinis</i> DC.	1--1
247	<i>Cotoneaster allochrous</i> Pojark.	1--3
248	<i>Cotoneaster morulus</i> Pojark.	1--1
249	<i>Cotoneaster nummularioides</i> Pojark.	9--1
250	<i>Cotoneaster nummularius</i> Fisch. & C.A.Mey.	11--1
251	<i>Crataegus atosanguinea</i> Pojark.	18--4
252	<i>Crataegus azarolus</i> L.	11--3
253	<i>Crataegus melanocarpa</i> Bory & Chaub.	18--4
254	<i>Crataegus meyeri</i> Pojark.	11--4
255	<i>Crataegus oxyacantha</i> L.	11--5
256	<i>Crataegus pinnatifida</i> Bunge.	18--4

	257	<i>Geum hispidum</i> Auct.Germ. ex Scheutz	18--4
	258	<i>Pyrus boissieriana</i> Buhse	18--4
	259	<i>Rosa canina</i> L.	18--4
	260	<i>Sorbus boissieri</i> C.K.Schneid.	18--4
Rubiaceae			
	261	<i>Gaillonia aucheri</i> (Guill.) Jaub. & Spach	16--1
Rutaceae			
	262	<i>Haplophyllum acutifolium</i> (DC.) G.Don	13--2
	263	<i>Ruta graveolens</i> L.	18--4
Sapindaceae			
	264	<i>Xanthoceras sorbifolium</i> Bunge.	18--4
Scrophulariaceae			
	265	<i>Digitalis lutea</i> Sm.	10--3
	266	<i>Digitalis micrantha</i> Roth	10--4
	267	<i>Digitalis parviflora</i> Jacq.	13--3
	268	<i>Digitalis parviflora</i> Jacq.	18--4
	269	<i>Misopates orontium</i> (L.) Raf.	18--4
	270	<i>Penstemon digitalis</i> Nutt.	18--4
	271	<i>Scrophularia frigida</i> Boiss.	18--4
	272	<i>Scrophularia striata</i> Boiss.	18--4
	273	<i>Verbascum agrimoniifolium</i> (K.Koch) Hub.-Mor.	18--4
	274	<i>Veronica spicata</i> L.	18--4
273			
	275	<i>Hyoscyamus niger</i> L.	13--3
Sterculiaceae			
	276	<i>Firmiana simplex</i> W.Wight	18--4
Tamaricaceae			
	277	<i>Reaumuria alternifolia</i> Britten	14--2

	278	<i>Reaumuria alternifolia</i> Britten	18--2
Tiliaceae			
	279	<i>Tilia cordata</i> Mill.	18--4
Valerianaceae			
	280	<i>Valeriana officinalis</i> L.	18--4
Verbenaceae			
	281	<i>Verbena hispida</i> Ruiz & Pav.	18--4
	282	<i>Verbena stricta</i> Vent.	18--4
Zygophyllaceae			
	283	<i>Peganum harmala</i> L.	14--3
	284	<i>Zygophyllum atriplicoides</i> Fisch. & C.A.Mey.	15--1
	285	<i>Zygophyllum eurypterum</i> Boiss. & Buhse	18--4

Seed Collection Sites:

- 1-1. Alborz. Chalous road, Arange Village, 1840 m. N 35°55'.401", E 051°04'.370".
- 1-2. Alborz. Karaj to chalous road. Afrer Asara. 1740 m. N. 36°02'.24.7", E 51°11'.16.5".
- 1-3. Alborz. Karaj to chalous road. Afrer Nesa. 2200 m. N. 36°06'.11.6", E 51°18'.56.8".
- 1-4. Alborz. Karaj to chalous road. Azadbar village. 2477 m. N. 36°08'.16.3", E 51°14'.25.2".
- 1-5. Alborz. Karaj-Chalus road, 1 km after Nesa toward Gachsar, 2179 m. N. 36°05'.31.9", E 51°18'52.3".
- 1-6. Alborz. Taleghan. 1840 m. N. 36°09'.43.4", E 50°44'.40.7".
- 1-7. Alborz. Taleghan. 2200 m. N. 36°06'.581", E 50°39'.25.5".
- 2-1. East Azarbaijan, Marand to Tabriz, Tariyamishou, 1823 m. N 38°20'.174", E 45°47'.549".
- 2-2. East Azarbaijan, Tabriz to Maraghe, Solouk Village, 1716 m. N 37°32'.494", E 46°50'.444".
- 2-3. East Azerbaijan, Tabriz. 80 km. from Kalibar to Tabriz, 1733 m. N 38°47'.324", E 47°03'.578".
- 2-4. East Azerbaijan Province, Arasbaran. Boghalamoon station.
- 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. Isfahan, Qamsar, Jonian, 1920 m. N 33°41'.58", E 051°27'.23".
- 8-1. Kerman. Kiyanshah to Zarand, 33Km to Kiyanshah. 2248 m. N. 31°02'28.0", E 56°33'.31.1".
- 8-2. Kerman. Rafsanjan to Zarand. 2125 m. N. 30°36'35.9", E 56°14'.23.5".
- 9-1. Kermanshah, Dalahu, Gahvareh, Tutshami, 1595 m, N 34°21'.43", E 046°20'.25".
- 9-. Kermanshah, Kerend to Dalahu Road, 1736 m.
- 9-3. Kermanshah, Songhor to Kamyaran, km 60 Kyunanat, 2100 m. N 34°48'.079", E 47°02'.910".
- 9-4. Kermanshah. Kamyaran to Sanandaj, 1790-1800 m. N 34°53'.312", E 46°56'.573".

- 9-5. Kermanshah. Kamyaran, after Shirvane Village, 1826 m. N 34°.47'.08", E 47°.04'.574".
- 10-1. Lorestan. Khramabad to Poldokhtar road. Mlavi canyon. 1750 m. N. 33°.44'.383", E 49°.22'.769".
- 10-2. Lorestan.25th Km Doroud to Azna road. 1922 m. N. 35°.25'.482", E 48°.54'.315".
- 10-3. Lorestan.25th Km doroud to Oshtorankouh mountain road. North mountain slope Tiun Village. 2212 m. N. 33°. 25'.636", E 48°.52'.076".
- 10-4. Lorestan.Khoramabad. Bishe. Chenar Village & Cheshme pariyan Village. 1634 m. N. 33°.27'.846", E 48°.22'.468".
- 11-1. Mazandaran. Between gij & Zanus. Uper than emamzade. 1300 to 1400 m.
- 11-2. Mazandaran.Chalush Road. Pole Khab, 1955 m. N 36°.00'.43.6", E 51°.08'.48.9" .
- 11-3. Mazandaran.Noushahr. Kojour, Lashak Valley, 500 m. N 36°.32'.264", E 01°.60'.636".
- 11-4. Mazandaran.Noushahr. Kojur, Zanoos Valley, 2052m. N 36°.32'.205", E 51°.60'.66".
- 11-5. Mazandaran.Noushahr. Kojur, Zanoos Valley. 250 m. N 36°.30'.66", E 51°.52'.85".
- 12-1. North Khorasan Province. Bojnurd to Rāz befor Gol Tappeh. 1057 m. N 37°.05'.37", E 59°.57'.08".
- 12-2. North Khorasan Province. Esfarāyen. Qanbar Baghi. 1740 m. N 36°.44'.12", E 58°.02'.17".
- 12-3. North Khorasan. Bojnurd. Charkharvar Village. 1070 m. N. 33°.29'.31", E 57°.17'.53".
- 12-4. North Khorasan. Bojnurd. Esfidan Village. 1570 m. N. 37°.25'.46", E 57°.10'.14".
- 12-5. North Khorasan. Bojnurd. Gharkhoad national park. 1250 m. N. 37°.29'.51", E 56°.21'.42".
- 12-6. North Khorasan. Bojnurd. Kohkamar Village. 1150 m. N. 37°.27'.23", E 57°.17'.22".
- 12-7. North Khorasan. Bojnurd. Sisab. 1300 m. N. 37°.25'.11", E 57°.39'.20".
- 13-1. Qazvin, Buin Zahra, Abyek, 1600 m. N 35°.39'.55", E 50°.08'.02"
- 13-2. Qazvin, Qazvin to Abyek, Between Qazvin to Abyek old road and Highway. 1200 m. N 36°.03'.49", E 50°.23'.15"
- 13-3. Qazvin, Qazvin to Abyek, Jazame village 1360 m. N 36°.06'.42", E 50°.26'.20"
- 13-4. Qazvin, Qazvin to Abyek, uper Jazame village 1400 m. N 36°.07'.28", E 50°.28'.47"
- 13-5. Qazvin. Abgarm to Sagharan and Arteshabad, 1670 m. N 35°.42'.406", E 49°.19'.566"
- 13-6. Qazvin. Ghazvin to Zereshk village road. Barjin village, 1560 m. N 36°.21'.17.6", E 50°.04'.29.3"
- 13-7. Qazvin.Alamot. Pichbon, 300 m.

- 14-1. Qom, Kahak, Vashnoh region, 8 km a Vashnoh to Qom, 1936 m. N 34°.27'.016773", E 051°.00'.105147".
- 14-2. Qom, near Namak Lake, 810 m. N 35°.03'.53", E 50°.56'.22".
- 14-3. Qom, near Namak Lake, 860 m. N 34°.55'.05", E 50°.53'.51".
- 14-4. Qom, Salafchegan, km 3 Salafchegan to Qom road, 1354 m. N 34°.41'.866785", E 050°.49'.376601".
- 15-1. Semnan. Garmsar. Bon-e Kuh. 1109 m. N. 35°.18'.28", E 52°.26'.25".
- 15-2. Semnan. Parvar. 1902 m. N. 35°.59'.21", E 33°.29'.08".
- 15-3. Semnan. Rudbarak. 2484 m. N. 36°.02'.40", E 53°.36'.16".
- 15-4. Semnan. Shahmirzad. Shahmirzad to Foulad Mahalleh. 2195 m. N. 35°.49'.37", E 53°.25'.13".
- 15-5. Semnan. Shahrood. Khoshyeylāq. 1250 m. N. 37°.29'.51", E 56°.21'.42".
- 16-1. Sistan & Baluchestan. Iranshahr to Khash, 105 km to Khash. 840 m. N. 27°.32'32.6", E 60°.48'.14.7".
- 16-2. Sistan & Baluchestan. Khash to Iranshahr, 86 km to Iranshahr. 1341 m. N. 27°.53'41.3", E 60°.48'01.4".
- 17-1. South Khorasan Province, boshruyeh to ferdus. 1060 m. N 33°.34'.34", E 52°.43'.48".
- 17-2. South Khorasan Province. Bamroud. 1328 m. N 33°.44'.10", E 56°.23'.20".
- 17-3. South Khorasan Province. Boshrouyeh. between Osfok & Deh-e Mohammad. 1211 m. N 34°.00'.30", E 57°.09'49"
- 17-4. South Khorasan Province. Nehbandan to Chahdashi. 1099 m. N 32°.29'.51", E 59°.49'58"
- 18-1. Tehran, Damavand, Kilan, Tamison, 1800 m. N 35°.33'.527", E 52°.10'.598".
- 18-2. Tehran, Damavand, Mountain, Daliran, 2250 m. N 35°.53'.211", E 52°.06'.135".
- 18-3. Tehran, Damavand, Tar lake from hover, 2585 m. N 35°.42'.533", E 52°.17'.595".
- 18-4. Tehran. Cultivated in National Botanical Garden of Iran. 1320 m. N. 35°.44'.251", E 51°.10'.242".
- 19-1. West Azerbaijan, Aghbolagh to Oshnavieh, 1712 m. N 37°.11'.119", E 45°.07'.599".
- 19-2. West Azerbaijan, Salmas to Abgarm, Khan Takhti village, 1445 m. N 37°.32'.494", E 45°.07'.073".
- 19-3. West Azerbaijan, Urumieh, Zeve, 1500 m. N 37°.15'.061", E 44°.54'.161"
- 20-1. Yazd, Bafq.

20-2. Yazd, Reserch departman of desert plant of sadooghi, 1261 m. N $31^{\circ}.49'.4698''$, E $54^{\circ}.21'.5473''$.

20-3. Yazd. Arsanjan. Barfkhane way.

20-4. Yazd. Taft to Fdehbala, 3 Km after Tft. 1560 m. N. $31^{\circ}.43'39.1''$, E $54^{\circ}.12'.53.8''$.



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National Botanical Garden of Iran
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