



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

INDEX
SEMINUM
2022-23
NATIONAL BOTANICAL GARDEN OF IRAN



Hypericum androsaemum L.

**INDEX
SEMINUM
2022-23**

**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.

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 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.

Aceraceae

- 1 *Acer tataricum* ssp. *ginnala* (Maxim.) Westm. 20-4

Alliaceae

- 2 *Allium affine* Ledeb. 11-2

Amaranthaceae

- 3 *Aerva javanica* (Burm.f.) Juss. ex Schult. 6-1
4 *Atriplex canescens* (Pursh) Nutt. 20-4
5 *Ceratocarpus arenarius* L. 20-4

Amaryllidaceae

- 6 *Allium stipitatum* Regel 10-1

Apiaceae

- 7 *Ammi visnaga* (L.) Lam. 1-14
8 *Astrodaucus orientalis* (L.) Drude 11-3
9 *Bilacunaria microcarpa* (M.Bieb.) Pimenov & V. N.Tikhom 1-6
10 *Cervaria cervariifolia* (C.A. Mey.) M. Pimen. 2-1
11 *Echinophora sibthorpiana* Guss. 13-11
12 *Eryngium billardierei* F. Delaroché 13-8
13 *Eryngium caeruleum* M.Bieb. 13-9
14 *Eryngium kotschyi* Boiss. 1-4
15 *Ferula orientalis* L. 22-3
16 *Ferula ovina* (Boiss.) Boiss. 8-5
17 *Oenanthe pimpinelloides* L. 20-4
18 *Prangos haussknechtii* Boiss 13-14
19 *Prangos acaulis* (DC.) Bornm. 13-4
20 *Scaligeria meifolia* Fenzl 21-2
21 *Sium sisarum* L. 21-2
22 *Smyrniium cordifolium* Boiss. 21-2
23 *Smyrniium cordifolium* Boiss. 22-3

	24	<i>Zosima absinthifolia</i> (Vent.) Link	13-2
Aristolochiaceae			
	25	<i>Aristolochia bottae</i> Jaub. & Spach	8-5
Asclepiadaceae			
	26	<i>Periploca aphylla</i> Decne.	1-4
Asteraceae			
	27	<i>Achillea tenuifolia</i> Lam.	1-13
	28	<i>Achillea millefolium</i> L.	1-4
	29	<i>Achillea vermicularis</i> Trin.	8-6
	30	<i>Acroptilon repens</i> (L.) DC.	8-7
	31	<i>Anthemis altissima</i> L.	10-2
	32	<i>Anthemis cretica</i> L.	9-2
	33	<i>Artemisia scoparia</i> Waldst. & Kit.	10-4
	34	<i>Artemisia deserti</i> Krasch.	20-4
	35	<i>Artemisia sieberi</i> Besser	14-4
	36	<i>Aster amellus</i> L.	12-2
	37	<i>Aster altaicus</i> (Willd.) Novopokr.	1-4
	38	<i>Carthamus glaucus</i> M.Bieb.	13-11
	39	<i>Centaurea behen</i> L.	1-2
	40	<i>Centaurea lanata</i> Roxb.	13-5
	41	<i>Centaurea pulchella</i> Ledeb.	1-2
	42	<i>Centaurea virgata</i> Lam.	1-6
	43	<i>Cirsium echinus</i> (M. Bieb.) Hand.-Mzt.	13-5
	44	<i>Cirsium congestum</i> Fisch. & C. A. Mey.	1-2
	45	<i>Cirsium vulgare</i> (Savi) Ten.	11-2
	46	<i>Cnicus benedictus</i> L.	13-5
	47	<i>Cousinia calocephala</i> Jaub. & Spach	13-8
	48	<i>Cousinia hypoleuca</i> Boiss.	11-2

49	<i>Cousinia multiloba</i> DC.	1-6
50	<i>Cousinia phyllocephala</i> Bornm. & Gauba	13-9
51	<i>Echinacea purpurea</i> (L.) Moench	13-9
52	<i>Echinacea paradoxa</i> (Norton) Britton	14-1
53	<i>Echinops ritrodes</i> Bunge	17-4
54	<i>Echinops cephalotes</i> DC.	5-2
55	<i>Echinops cephalotes</i> DC.	20-4
56	<i>Echinops haussknechtii</i> Boiss.	8-4
57	<i>Echinops kurdicus</i> Bunge	5-4
58	<i>Echinops mosulensis</i> Rech.f.	19-4
59	<i>Helichrysum litoreum</i> Guss.	20-4
60	<i>Heteropappus altaicus</i> (Willd.) Novopokrov.	20-1
61	<i>Inula helenium</i> L.	20-4
62	<i>Jurinea macrocephala</i> DC.	5-1
63	<i>Koelpinia linearis</i> Pall.	11-1
64	<i>Lactuca serriola</i> L.	1-5
65	<i>Leucanthemella serotina</i> (L.) Tzvelev	20-4
66	<i>Pulicaria gnaphalodes</i> (Vent.) Boiss.	1-8
65	<i>Sanvitalia procumbens</i> Lam.	20-4
66	<i>Scozonera laciniata</i> L.	20-4
67	<i>Serratula cerinthifolia</i> (Sm.) Boiss.	20-4
68	<i>Tanacetum kotschyi</i> (Boiss.) Grierson	20-4
69	<i>Tanacetum parthenium</i> (L.) Sch.Bip.	1-6
70	<i>Tanacetum pinnatum</i> Boiss.	1-6
71	<i>Verbesina encelioides</i> (Cav.) Benth. & Hook.f. ex. A.Gray	21-1
72	<i>Zoegea purpurea</i> Fresen.	21-1
Berberidaceae		
73	<i>Berberis integerrima</i> Bunge	1-6

Betulaceae

74 *Betula pendula* Roth 20-4

Bignoniaceae

75 *Catalpa bignonioides* Walter 20-4

Boraginaceae

76 *Anchusa italica* Retz. 8-3

77 *Anchusa arvensis* ssp. *orientalis* (L.) Nordh. 1-4

78 *Cordia myxa* L. 20-4

79 *Echium italicum* L. 13-10

Brassicaceae

80 *Aethionema grandiflorum* Boiss. & Hohen. 13-8

81 *Alyssum strigosum* Banks & Sol. 13-14

82 *Aubrieta deltoidea* (L.) DC. 13-9

83 *Conringia orientalis* (L.) Dumort. 1-4

84 *Fibigia eriocarpa* Boiss. 13-10

85 *Fortuynia garcinii* Shuttlew. ex. Boiss. 13-10

86 *Isatis cappadocica* Desv. 19-1

87 *Isatis kotschyana* Boiss. & Hohen. ex. Boiss. 13-12

88 *Isatis tinctoria* L. 16-1

89 *Lepidium draba* L. 20-2

90 *Lepidium perfoliatum* L. 20-4

91 *Lepidium latifolium* L. 1-6

92 *Lepidium vesicarium* L. 20-3

93 *Camelionopsis campylopoda* (Bornm. & Gauba) A. G. Miller. 20-4

94 *Thlaspi stenocarpum* Boiss. & Hohen. 23-3

Campanulaceae

95 *Campanula bononiensis* L. 1-12

96 *Campanula rotundifolia* L. 20-4

	97	<i>Campanula latifolia</i> L.	20-4
	98	<i>Platycodon grandiflorus</i> (Jacq.) A. DC.	20-4
Capparaceae			
	99	<i>Capparis parviflora</i> Boiss.	20-4
Caprifoliaceae			
	100	<i>Lonicera iberica</i> M.Bieb.	13-15
	101	<i>Lonicera floribunda</i> Boiss. & Buhse	13-12
	102	<i>Sambucus canadensis</i> L.	20-4
	103	<i>Symphoricarpos albus</i> (L.) S. F. Blake	20-4
	104	<i>Viburnum lantana</i> Wall. ex D. Don	20-4
Caryophyllaceae			
	105	<i>Acanthophyllum speciosum</i> Schiman-Czeika	1-15
	106	<i>Dianthus armeria</i> L.	19-3
	107	<i>Dianthus haematocalyx</i> Boiss. & Heldr.	13-16
	108	<i>Dianthus kiusianus</i> Makino	20-4
	109	<i>Dianthus orientalis</i> Adams	23-4
	110	<i>Dianthus plumarius</i> L.	19-2
	111	<i>Dianthus sylvestris</i> Wulfen.	19-3
	112	<i>Gypsophila libanotica</i> Boiss.	20-4
	113	<i>Lychnis chalcedonica</i> L.	20-4
	114	<i>Lychnis coronaria</i> Franch. & Sav.	20-4
	115	<i>Lychnis flos-cuculi</i> L.	20-4
	116	<i>Silene armeria</i> M. Bieb.	20-4
	117	<i>Silene virgata</i> Stapf	13-11
	118	<i>Silene vulgaris</i> (Moench) Garcke	20-4
	119	<i>Silene brahuica</i> Boiss.	20-4
	120	<i>Spergularia diandra</i> (Guss.) Heldr.	
	121	<i>Vaccaria hispanica</i> (Mill.) Rauchert	20-4

Celastraceae

122 *Evonymus latifolia* (L.) Miller 11-6

Chenopodiaceae

123 *Atriplex griffithii* Moq. 1-11

124 *Ceratocarpus arenarius* L. 1-11

125 *Chenopodium foliosum* Asch. 14-3

126 *Salsola aucheri* (Moq.) Bunge ex Iljin 1-11

127 *Salsola kali* L. 1-11

128 *Salsola montana* Litv. 14-4

129 *Salsola nitraria* Pall. 1-10

130 *Suaeda dendroides* (C. A. Mey.) Moq. 14-4

Cistaceae

131 *Helianthemum apenninum* (L.) Mill. 20-4

Convolvulaceae

132 *Convolvulus tricolor* L. 5-3

133 *Convolvulus arvensis* L. 20-4

Cornaceae

134 *Cornus amomum* Mill. 20-4

Cucurbitaceae

135 *Ecballium elaterium* (L.) A. Rich 13-11

136 *Citrullus colocynthis* (L.) Schrad. 18-1

137 *Citrullus colocynthis* (L.) Schrad. 18-2

Dipsacaceae

138 *Dipsacus laciniatus* L. 20-4

139 *Scabiosa olivieri* Coult. 16-1

Ebenaceae

140 *Diospyros lotus* L. 4-1

Elaeagnaceae

	141	<i>Hippophae rhamnoides</i> L.	1-1
Ephedraceae			
	142	<i>Ephedra major</i> Host	13-11
	143	<i>Ephedra intermedia</i> Schrenk & C. A. Mey.	20-4
Fabacea			
	144	<i>Amorpha fruticosa</i> L.	20-4
	145	<i>Colutea buhsei</i> (Boiss.) Shap.	20-4
	146	<i>Ebenus stellata</i> Boiss.	7-3
	147	<i>Gymnocladus dioica</i> (L.) K. Koch	20-4
	148	<i>Lathyrus latifolius</i> L.	20-4
	149	<i>Lotus gebelia</i> Vent.	13-3
	150	<i>Onobrychis caput-galli</i> (L.) Lam.	9-2
	151	<i>Prosopis farcta</i> (Banks & Sol.) J. F. Macbr.	20-4
	152	<i>Sophora alopecuroides</i> L.	1-4
	153	<i>Sophora mollis</i> (Royle) Baker	20-4
	154	<i>Styphnolobium japonicum</i> (L.) Schott.	20-4
	155	<i>Trifolium fragiferum</i> L.	13-7
	156	<i>Wisteria sinensis</i> (Sims) Sweet	20-4
Hyacinthaceae			
	157	<i>Muscari neglectum</i> Guss. ex. Ten.	20-4
Hypericaceae			
	158	<i>Hypericum helianthemoides</i> (Spach) Boiss.	1-9
	159	<i>Hypericum scabrum</i> L.	1-7
Iridaceae			
	160	<i>Gladiolus italicus</i> Mill.	13-14
Ixioliriaceae			
	161	<i>Ixiolirion tataricum</i> (Pall.) Schult. & Schult.f.	20-4
Lamiaceae			

162	<i>Ballota nigra</i> L.	20-4
163	<i>Eremostachys laciniata</i> (L.) Bunge.	1-13
164	<i>Lallemantia canescens</i> (L.) Fisch. & C. A. Mey.	2-2
165	<i>Marrubium anisodon</i> K.Koch	7-1
166	<i>Marrubium cuneatum</i> Russel	10-4
167	<i>Marrubium vulgare</i> L.	8-5
168	<i>Mentha pulegium</i> L.	20-4
169	<i>Monarda citriodora</i> Cerv. ex Lag.	11-5
170	<i>Monarda fistulosa</i> L.	12-2
171	<i>Monarda punctata</i> L.	12-3
172	<i>Nepeta macrosiphon</i> Boiss.	13-9
173	<i>Ocimum basilicum</i> L.	20-4
174	<i>Origanum vulgare</i> L.	11-3
175	<i>Otostegia aucheri</i> Boiss.	17-2
176	<i>Phlomis cancellata</i> Bunge	17-3
177	<i>Phlomis maximowizii</i> Regel	17-4
178	<i>Phlomis bruguieri</i> Desf.	18-3
179	<i>Phlomis fruticosa</i> L.	20-4
180	<i>Phlomis rigida</i> Labill.	13-3
181	<i>Phlomis tuberosa</i> L.	20-4
182	<i>Salvia aethiopis</i> L.	20-4
183	<i>Salvia nemorosa</i> L.	20-4
184	<i>Salvia pratensis</i> L.	20-4
185	<i>Salvia roemeriana</i> Scheele	20-4
186	<i>Salvia hydrangea</i> DC. ex Benth.	13-3
187	<i>Salvia palaestina</i> Benth.	8-1
188	<i>Salvia spinosa</i> L.	13-17
189	<i>Salvia verticillata</i> L.	1-2

190	<i>Satureja isophylla</i> Rech.f.	1-3
191	<i>Stachys pubescens</i> Ten.	20-4
192	<i>Stachys turcomanica</i> Trautv.	20-4
193	<i>Stachys byzantina</i> K. Koch	20-4
194	<i>Stachys inflata</i> Benth.	11-2
195	<i>Stachys multicaulis</i> Benth.	13-7
196	<i>Teucrium orientale</i> L.	20-4
197	<i>Teucrium flavum</i> L.	20-4
198	<i>Teucrium polium</i> L.	1-1
199	<i>Teucrium stocksianum</i> Boiss.	20-4
200	<i>Thymbra spicata</i> L.	20-4
201	<i>Thymus kotschyanus</i> Boiss. & Hohen.	13-12
202	<i>Thymus serpyllum</i> L.	20-4
203	<i>Thymus daenensis</i> Celak.	13-7
204	<i>Thymus fallax</i> Fisch. & C.A.Mey.	20-4
205	<i>Thymus kotschyanus</i> Boiss. & Hohen.	1-3
206	<i>Vitex negundo</i> L.	20-4
207	<i>Ziziphora clinopodioides</i> Lam.	5-1

Liliaceae

208	<i>Tulipa clusiana</i> DC.	20-4
209	<i>Tulipa biflora</i> Pall.	23-1

Linaceae

210	<i>Linum perenne</i> L.	13-5
211	<i>Linum peyronii</i> Post	8-5
212	<i>Linum usitatissimum</i> L.	20-4

Lythraceae

213	<i>Lagerstroemia indica</i> L.	20-4
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Malvaceae

	214	<i>Abelmoschus manihot</i> (L.) Medik.	20-4
	215	<i>Firmiana simplex</i> (L.) W.Wight	20-4
	216	<i>Malva sylvestris</i> L.	20-4
	217	<i>Alcea aucheri</i> (Boiss.) Alef.	20-4
	218	<i>Alcea kopetdaghensis</i> Iljin	12-1
Moraceae			
	219	<i>Broussonetia papyrifera</i> (L.) L'Hér. ex Vent.	20-4
Nitrariaceae			
	220	<i>Nitraria schoberi</i> L.	23-2
Oleaceae			
	221	<i>Jasminum fruticans</i> L.	20-4
	221	<i>Ligustrum tschonoskii</i> Decne.	204
Papaveraceae			
	223	<i>Papaver dubium</i> L.	13-11
	224	<i>Glaucium flavum</i> Crantz	20-4
		<i>Papaver orientale</i> L.	20-4
Plantaginaceae			
	225	<i>Plantago lanceolata</i> L.	11-3
Plumbaginaceae			
	226	<i>Acantholimon flexuosum</i> Boiss. & Hausskn. ex Bunge	1-4
	227	<i>Limonium minutum</i> (L.) Fourr.	20-4
	228	<i>Plumbago europaea</i> L.	1-2
	229	<i>Ceratostigma griffithii</i> C.B.Clarke	20-4
Poaceae			
	230	<i>Agropyron distans</i> (K.Koch) Nevski	1-11
	231	<i>Echinaria capitata</i> (L.) Desf.	12-2
	232	<i>Festuca ovina</i> L.	13-12
	233	<i>Festuca arundinacea</i> Schreb.	1-1

	234	<i>Hordeum murinum</i> L.	13-1
	235	<i>Melica persica</i> Kunth	13-14
	236	<i>Pennisetum orientale</i> Rich.	1-6
	237	<i>Phleum phleoides</i> (L.) H.Karst.	17-4
Polemoniaceae			
	238	<i>Phlox drummondii</i> Hook.	20-4
Polygalaceae			
	239	<i>Polygala irregularis</i> Boiss.	7-3
Polygonaceae			
	240	<i>Atraphaxis spinosa</i> L.	7-2
	241	<i>Pteropyrum aucheri</i> Jaub. & Spach	13-5
	242	<i>Rumex obtusifolius</i> L.	13-14
	243	<i>Rumex pulcher</i> L.	13-9
	244	<i>Rumex vesicarius</i> L.	18-3
Primulaceae			
	245	<i>Androsace maxima</i> L.	9-3
Ranunculaceae			
	246	<i>Aquilegia formosa</i> Fisch. ex DC.	20-4
	247	<i>Aquilegia vulgaris</i> L.	20-4
	248	<i>Aquilegia alpina</i> L.	20-4
	249	<i>Aquilegia bernardii</i> Gren. & Gord.	20-4
	250	<i>Aquilegia chrysantha</i> A.Gray	20-4
	251	<i>Aquilegia fragrans</i> Benth.	20-4
	252	<i>Clematis orientalis</i> L.	20-4
	253	<i>Clematis songarica</i> Siev. ex Steud.	1-1
	254	<i>Nigella damascena</i> L.	20-4
Resedaceae			
	255	<i>Ochradenus baccatus</i> Delile	13-5

	256	<i>Reseda lutea</i> L.	14-4
Rhamnaceae			
	257	<i>Frangula alnus</i> Mill.	20-4
	258	<i>Paliurus spina-christi</i> Mill.	20-4
	259	<i>Rhamnus alaternus</i> L.	20-4
Rosaceae			
	260	<i>Amygdalus lycioides</i> Spach	13-4
	261	<i>Amygdalus kotschy</i> Boiss. & Hohen.	8-5
	262	<i>Amygdalus lycioides</i> Spach	20-4
	263	<i>Amygdalus lycioides</i> Spach	8-5
	264	<i>Amygdalus scoparia</i> Spach	20-4
	265	<i>Cerasus microcarpa</i> (C.A.Mey.) Boiss.	20-4
	266	<i>Cerasus microcarpa</i> (C.A.Mey.) Boiss.	9-1
	267	<i>Cotoneaster ovatus</i> Pojark.	13-12
	268	<i>Cotoneaster acutifolius</i> Turcz.	20-4
	269	<i>Cotoneaster allochrous</i> Pojark.	1-12
	270	<i>Cotoneaster frigidus</i> Wall. ex. Lindl.	20-4
	271	<i>Cotoneaster melanocarpus</i> Fisch. ex A.Blytt	13-12
	272	<i>Cotoneaster nitens</i> Rehder & E.H.Wilson	20-4
	273	<i>Cotoneaster nummularioides</i> Pojark.	8-2
	274	<i>Cotoneaster nummularius</i> Fisch. & C.A.Mey.	11-4
	275	<i>Cotoneaster sikangensis</i> Flinck & B.Hylm"	20-4
	276	<i>Crataegus azarolus</i> L.	13-12
	277	<i>Crataegus microphylla</i> K.Koch	13-12
	278	<i>Crataegus oxyacantha</i> L.	11-6
	279	<i>Crataegus atrosanguinea</i> Pojark.	20-4
	280	<i>Crataegus pentagyna</i> Waldst. & Kit. ex Willd.	20-4
	281	<i>Crataegus pinnatifida</i> Bunge	20-4

282	<i>Crataegus songarica</i> K. Koch	1-6
283	<i>Geum hispidum</i> Fr.	20-4
284	<i>Potentilla recta</i> L.	13-14
285	<i>Potentilla recta</i> L.	13-3
286	<i>Prunus divaricata</i> Ledeb	13-13
287	<i>Prunus spinosa</i> L.	13-12
288	<i>Pyrus boissieriana</i> Buhse	20-4
289	<i>Pyrus betulifolia</i> Bunge	20-4
290	<i>Pyrus betulifolia</i> Bunge	20-4
291	<i>Pyrus floribunda</i> Lindl.	20-4
292	<i>Rosa canina</i> L.	1-1
293	<i>Rosa roxburghii</i> Tratt.	20-4
294	<i>Sanguisorba minor</i> Scop.	13-14
295	<i>Sorbus aucuparia</i> L.	20-4
296	<i>Spiraea kirilowii</i> (Regel & Tiling) Maxim.	20-4
Rubiaceae		
297	<i>Gaillonia aucheri</i> Guill.	18-3
Rutaceae		
298	<i>Haplophyllum acutifolium</i> (DC.) G. Don	13-8
299	<i>Ruta graveolens</i> L.	20-4
Sapindaceae		
300	<i>Xanthoceras sorbifolium</i> Bunge	20-4
Saxifragaceae		
301	<i>Saxifraga cartilaginea</i> Mill.	5-4
Scrophulariaceae		
302	<i>Digitalis lutea</i> L.	10-3
303	<i>Digitalis lutea</i> ssp. <i>australis</i> (Ten.) Arcang.	10-4
304	<i>Digitalis parviflora</i> Jacq.	20-4

	305	<i>Misopates orontium</i> (L.) Raf.	20-4
	306	<i>Penstemon digitalis</i> Nutt. ex. Sims.	20-4
	307	<i>Scrophularia frigida</i> Boiss.	20-4
	308	<i>Scrophularia striata</i> Boiss.	1-4
	309	<i>Scrophularia variegata</i> M.B.	13-7
	310	<i>Verbascum agrimoniifolium</i> Huber Morath	20-4
	311	<i>Verbascum cheiranthifolium</i> Boiss.	11-2
	312	<i>Veronica spicata</i> L.	20-4
Solanaceae			
	313	<i>Hyoscyamus niger</i> L.	13-9
	314	<i>Hyoscyamus reticulatus</i> L.	11-2
Tamaricaceae			
	315	<i>Reaumuria alternifolia</i> (Labill) Britten	14-2
Verbenaceae			
	316	<i>Verbena stricta</i> Vent.	20-4
Zygophyllaceae			
	317	<i>Peganum harmala</i> L.	1-4
	318	<i>Zygophyllum atriplicoides</i> Fisch. & C.A.Mey.	1-11
	319	<i>Zygophyllum fabago</i> L.	13-11
	320	<i>Zygophyllum eurypterum</i> Boiss. & Buhse	17-1

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, Kojur, 1638 m. N 36°.22'.29.93", E 51°.39'.30.45"
- 1-4 Alborz, Chalous road, Kondor village, 1850 m. N 35°.50'.28", E 51°.06'.05"
- 1-5 Alborz, Chalous road, Purkan, 1620-1700 m. N 35°.53'.49", E 051°.02'.46"
- 1-6 Alborz, Chalous road, to Shahrestanak, 2250 m. N 35°.58'.42", E 051°.20'.12"
- 1-7 Alborz, Karaj to Chalus road, Asara, 1801 m. N 36°.00'.54.7", E 51°.08'.40.6"
- 1-8 Alborz, Karaj, M. Dashteh, 2403 m. N 35°.47'.41.6", E 51°.05'.43.6"
- 1-9 Alborz, karaj. M.Dashte, 1928 m. N 35°.46'.47.39", E 51°.06'.14.45"
- 1-10 Alborz, Kordan to Baraghan, 1750 m. N 35°.59'.36", E 50°.54'.52"
- 1-11 Alborz, salty desert around Eshtehard, to BuinZahra, 1150 m. N 35°.49'.17", E 50°.30'.28"
- 1-12 Alborz. Karaj to chalous road. Afrer Nesa. 2200 m. N. 36°.06'.11.6", E 51°.18'.56.8".
- 1-13 Alborz. Karaj to chalous road. Azadbar village. 2477 m. N. 36°.08'.16.3", E 51°.14'.25.2".
- 1-14 Alborz. Karaj-Chalus road, 1 km after Nesa toward Gachsar, 2179 m. N. 36°.05'.31.9", E 51°.18'.52.3".
- 1-15 Alborz. Taleghan. 2200 m. N. 36°.06'.581", E 50°.39'.25.5".
- 2-1 East Azarbaijan, 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".
- 4-1 Golestan, Kalaleh.
- 5-1 Hamedan to Qorveh, near of Vey Nesar, 1860 m. N 35°.00'.39", E 48°.04'.55"
- 5-2 Hamedan to Qorveh, Km17, near of Saleh Abad, 1750 m. N 34°.54'.00", E 48°.23'.58"
- 5-3 Hamedan, Maryanj, Alvand heights, 2300-2400 m. N 34°.47'.43", E 48°.04'.55"
- 5-4 Hamedan, Paveh to Javanrud, 2370 m. N 34°.51'.38", E 48°.10'.18"
- 6-1 Hormozgan. Qeshm iland, Namak cave. 149 m N. 26°.65'.48", E 55°.46'.62.6".
- 7-1 Ilam,aivan,emamzade abdolah Altitudes,1370-1400 m. N. 33°.46'.25.1", E 46°.19'.21.7".

- 7-2 Kerman. Kiyanshah to Zarand, 33Km to Kiyanshah. 2248 m. N. 31°02'28.0", E 56°33'.31.1".
- 7-3 Kerman. Rafsanjan to Zarand. 2125 m. N. 30°36'35.9", E 56°14'.23.5".
- 8-1 Kermanshah, cheshme gilán, 1838 m. N 34°52'.48", E 47°19'.03"
- 8-2 Kermanshah, Dalahu, Gahvareh, Tutshami, 1595 m, N 34°21'.43", E 046°20'.25".
- 8-3 Kermanshah, Songhor to Kamyaran, km 60 Kyunanat, 2100 m. N 34°48'.079", E 47°02'.910".
- 8-4 Kermanshah, Paveh to Javanrud, 1700 m. N 34°53'.07", E 46°31'.50"
- 8-5 Kermanshah, Sonqor to Kamyaran, Qeshlaq, 2100-2200 m. N 34°51'.25", E 47°12'.13"
- 8-6 Kermanshah. Kamyaran to Sanandaj, 1790-1800 m. N 34°53'.312", E 46°56'.573".
- 8-7 Kermanshah. Kamyaran, after Shirvane Village, 1826 m. N 34°47'.08", E 47°04'.574".
- 9-1 Kordestan, Dehgolan, km60, 1600m. N 34°50'.31", E 46°56'.47"
- 9-2 Kordestan, Dehgolan, Ban-lilakh heights, 1830 m. N 35°03'.36", E 47°07'.02"
- 9-2 Kordestan, sanandaj to kamyaran, km60, 1600m. N 34°50'.31", E 46°56'.47"
- 10-1 Lorestan, Aleshtar,
- 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, Yush to Baladeh,
- 11-2 Mazandaran, Pol-e Zanguleh to Yush, 2600-2700 m. N 36°13'.47", E 51°24'.09"
- 11-3 Mazandaran, Siah Bisheh, to Marzanabad, 2350 m. N 36°15'.27", E 51°17'.35"
- 11-4 Mazandaran. Between gij & Zanus. Uper than emamzade. 1300 to 1400 m
- 11-5 Mazandaran. Chalush Road. Pole Khab, 1955 m. N 36°00'.43.6", E 51°08'.48.9".
- 11-6 Mazandaran. Noushahr. Kojur, Zanus Valley. 250 m. N 36°30'.66", E 51°52'.85"
- 11-6 Mazandaran. Noushahr. Kojur, Zanus Valley. 600 m. N 36°30'.66", E 51°52'.85".
- 12-1 North Khorasan. Bojnurd. 1137 m. N. 37°05'37.42", E 56°57'.08.0"
- 12-2 North Khorasan. Bojnurd. Charkharvar Village. 1070 m. N. 33°29'.31", E 57°17'.53".
- 12-3 North Khorasan. Bojnurd. Sisab. 1300 m. N. 37°25'.11", E 57°39'.20"

- 13-1 Qazvin, Above the Zereskh Village, 1950 m. N 36°.25'.41", E 50°.06'.18"
- 13-2 Qazvin, Alamut, Hiru village, 1700-2300 m. N 36°.35'.32", E 50°.14'.57"
- 13-3 Qazvin, Alamut, near the Rajaei Dasht, 1204 m. N 36°.27'.57", E 50°.18'.39"
- 13-4 Qazvin, Barajin Village to Zereskh, 1500-1580 m. N 36°.22'.33", E 50°.04'.20"
- 13-5 Qazvin, Buin Zahra, Abyek, 1600 m. N 35°.39'.55", E 50°.08'.02"
- 13-6 Qazvin, Daryabak, 2070 m. N 36°.26'.04", E 50°.07'.06"
- 13-7 Qazvin, Markazi, 1500 m. N 36°.39'.49", E 49°.44'.10"
- 13-8 Qazvin, Qazvin to Abyek, Between Qazvin to Abyek old road and Highway. 1200 m. N 36°.03'.49", E 50°.23'.15"
- 13-9 Qazvin, Qazvin to Abyek, Jazame village 1360 m. N 36°.06'.42", E 50°.26'.20"
- 13-10 Qazvin, Qazvin to Abyek, uper Jazame village 1400 m. N 36°.07'.28", E 50°.28'.47"
- 13-11 Qazvin, Qazvin to Alamut, 1100-2100 m. N 36°.23'.46", E 50°.13'.18"
- 13-12 Qazvin, Razmian road, 1100-1200 m. N 36°.31'.51", E 50°.09'.39"
- 13-13 Qazvin, Ziyaran to Taleqan, 2100-2120 m. N 36°.06'.56", E 50°.39'.24"
- 13-14 Qazvin, Taleqan, 1990-2210 m. N 50°.47'.11", E 36°.10'.00"
- 13-15 Qazvin. Abgarm to Sagharan and Arteshabad, 1670 m. N 35°.42'.406", E 49°.19'.566"
- 13-16 Qazvin. Ghazvin to Zereskh village road. Barjin village, 1560 m. N 36°.21'.17.6", E 50°.04'.29.3"
- 13-17 Qazvinj, Abyek to Karaj, Km16, 1267 m. N 36°.00'.27", E 50°.36'.53"
- 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, Qom to Parandak, 1100-1200 m. N 35°.15'.27", E 50°.58'.58"
- 14-4 Qom, south west of Namak Lake, 830 m. N 34°.54'.50", E 50°.57'.36"
- 15-1 Razavi Khorasan. 12 KM. Ferdows to Bashrooye. 1100 m. N. 33°.35'9.9", E 58°.02'.57.8"
- 16-1 Sanandaj, Abidar, km60, 1730-1800 m. N 35°.18'.35", E 46°.58'.11"
- 17-1 Semnan. Garmsar. Bon-e Kuh. 1109 m. N. 35°.18'.28", E 52°.26'.25"
- 17-2 Semnan. Rudbarak. 2484 m. N. 36°.02'.40", E 53°.36'.16"

- 17-3 Semnan. Shahmirzad. Shahmirzat to Foulad Mahalleh. 2195 m. N. 35°49'.37", E 53°25'.13"
Semnan. Shahrood. Khoshyeylāq. 1250 m. N. 37°29'.51", E 56°21'.42"
17-4
- 18-1 Sistan & Baluchestan. 130 KM. Bampur to Nikshahr, tang- e- sarhe 105 km to Khash. 1137 m. N. 26°29'46.8", E 59°57'.55.9"
- 18-2 Sistan & Baluchestan. 130 KM. Bampur to Nikshahr, tang- e- sarhe 105 km to Khash.
- 18-3 Sistan & Baluchestan. Iranshahr to Khash, 105 km to Khash. 840 m. N. 27°32'32.6", E 60°48'.14.7"
- 19-1 South Khorasan Province, boshruyeh to ferdus. 1060 m. N 33°34'.34", E 52°43'.48"
- 19-2 South Khorasan Province. Bamroud. 1328 m. N 33°44'.10", E 56°23'.20"
- 19-3 South Khorasan Province. Boshrouyeh. between Osfok & Deh-e Mohammad. 1211 m. N 34°00'.30", E 57°09'.49"
- 19-4 South Khorasan Province. Nehbandan to Chahdashi. 1099 m. N 32°29'.51", E 59°49'.58"
- 20-1 Tehran, Damavand, Tar lake from hover, 2585 m. N 35°42'.533", E 52°17'.595"
- 20-2 Tehran, Damavand, Tar lake, 2500 m. N 35°41'.521", E 52°16'.502"
- 20-3 Tehran, Tehran to Karaj, just after Metro station, 1285 m. N 35°45'.08.9", E 51°04'.41.0"
- 20-4 Tehran. Cultivated in National Botanical Garden of Iran. 1320 m. N. 35°44'.251", E 51°10'.242"
- 21-1 West Azerbaijan, Salmas to Abgarm, Khan Takhti village, 1445 m. N 37°32'.494", E 45°07'.073"
- 21-2 West Azerbaijan, Urumieh, Zeve, 1500 m. N 37°15'.061", E 44°54'.161"
- 22-3 West Azerbaijan, ghasemloo
- 23-1 Yazd, Bafq.
- 23-2 Yazd, Reserch departman of desert plant of sadooghi, 1261 m. N 31°49'.4698", E 54°21'.5473"
- 23-3 Yazd. Taft to Fdehbala, 3 Km after Tft. 1560 m. N. 31°43'39.1", E 54°12'.53.8".
- 23-4 Zahedan to Taleqan, 8Km to heights



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