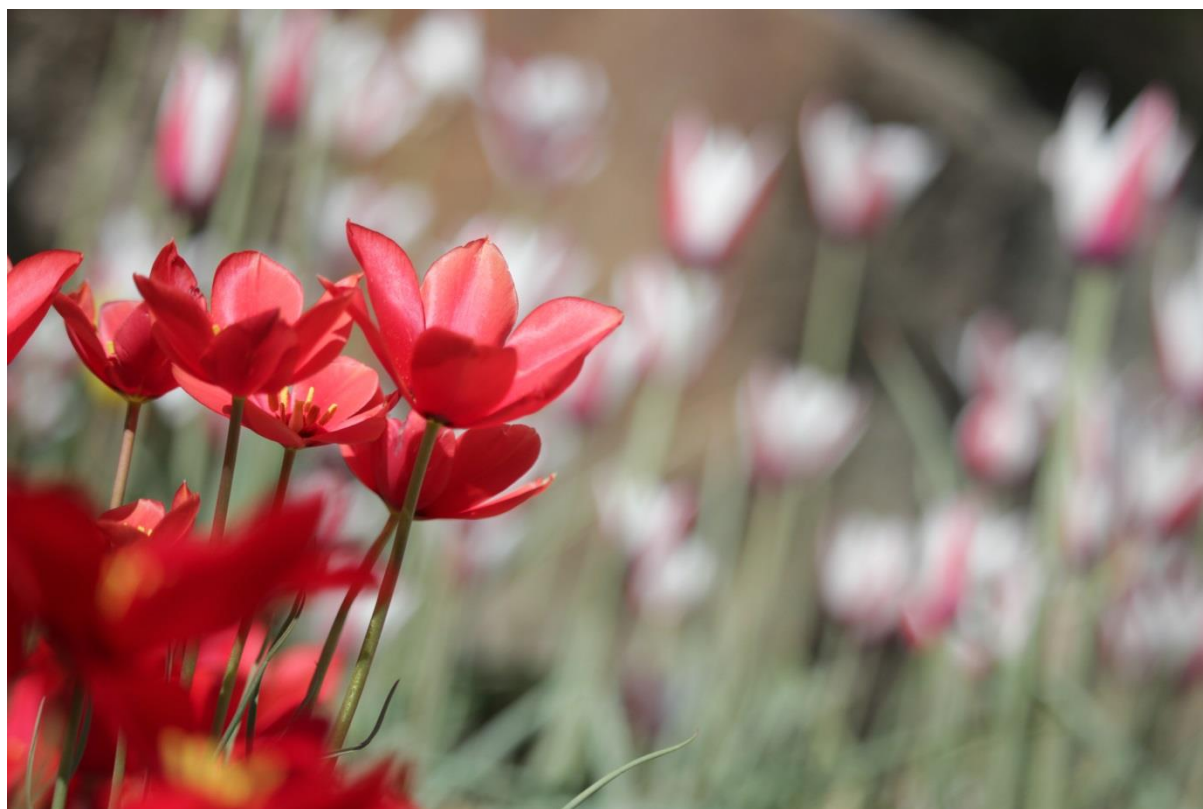




Islamic Republic of Iran
Ministry of Jihad-e-Agriculture
Agricultural Research Organization
Research Institute of Forests and Rangelands

**INDEX
SEMINUM
2019-20
NATIONAL BOTANICAL GARDEN OF IRAN**



Tulipa montana Lindl.

**INDEX
SEMINUM
2019-2020**

**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 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.

Aceraceae	1	<i>Acer campestre</i> L.	18-3
	2	<i>Acer velutinum</i> Boiss.	20-6
Alliaceae	3	<i>Allium akaka</i> S.G. Gmel. ex Schult. & Schult.f.	17-3*
	4	<i>Allium scabriscapum</i> Boiss.	20-1*
Amaranthaceae	5	<i>Aerva javanica</i> (Burm.f.) Juss. ex Schult., Syst. Veg., ed.	19-1
	6	<i>Aerva persica</i> (Burm.f.) Merr.	7-1*
Apiaceae	7	<i>Ammi visnaga</i> (L.) Lam.	21-1*
	8	<i>Apium graveolens</i> L.	20-6*
	9	<i>Cervaria cervariifolia</i> (C.A. Mey.) M. Pimen.	20-6*
	10	<i>Chaerophyllum macrospermum</i> (Willd. ex Schult.) Fisch. & C.A. Mey.	3-5*
	11	<i>Conium maculatum</i> L.	21-4*
	12	<i>Echinophora sibthorpiana</i> Guss.	21-4*
	13	<i>Ferula assa-foetida</i> L.	10-2
	14	<i>Heptaptera anisoptera</i> (DC.) Tutin	1-9
	15	<i>Hippomarathrum microcarpum</i> (M.Bieb.) B.Fedtsch.	1-7*
	16	<i>Johreniopsis stricticaulis</i> (Rech.f.) Pimenov	15-1
	17	<i>Leutea petiolaris</i> (DC.) Pimenov.	20-4*
	18	<i>Malabaila secacul</i> (Mill.) Boiss.	20-1*
	19	<i>Physospermum cornubiense</i> DC.	9-6*
	20	<i>Prangos ferulacea</i> Lindl.	20-3*
	21	<i>Prangos haussknechtii</i> Boiss.	20-4*
	22	<i>Prangos latiloba</i> Korovin.	20-3*
	23	<i>Pycnocycla aucherana</i> Decne. ex Boiss.	19-1
	24	<i>Sium sisaroides</i> DC.	3-5*
	25	<i>Smyrniium cordifolium</i> Boiss.	13-4
	26	<i>Smyrniium cordifolium</i> Boiss.	13-1*
	27	<i>Smyrniium cordifolium</i> Boiss.	13-3*
	28	<i>Zosima absinthifolia</i> Link	11-2*
Apocynaceae	29	<i>Rhazya stricta</i> Decne.	19-3
	30	<i>Vincetoxicum pumilum</i> Decne.	15-4
Asparagaceae	31	<i>Bellevalia glauca</i> Kunth	20-6
Asteraceae	32	<i>Achillea clavennae</i> L.	20-6*
	33	<i>Achillea millefolium</i> L.	1-6*
	34	<i>Achillea pannonica</i> Scheele.	20-6*
	35	<i>Achillea tenuifolia</i> Lam.	9-5
	36	<i>Achillea vermicularis</i> Trin.	1-6*
	37	<i>Acroptilon repens</i> (L.) DC.	15-3
	38	<i>Amberboa sosnovskyi</i> Iljin.	20-1*
	39	<i>Amberboa turanica</i> Iljin	18-1
	40	<i>Anthemis tinctoria</i> L.	20-6*
	41	<i>Artemisia aucheri</i> Boiss.	15-2
	42	<i>Bupthalmum salicifolium</i> L.	20-6
	43	<i>Centaurea aucheri</i> (DC.) Wagenitz.	20-6
	44	<i>Centaurea imperialis</i> Hausskn. ex Bornm.,	21-1*
	45	<i>Centaurea lanata</i> Roxb.	13-5*
	46	<i>Centaurea virgata</i> Lam.	15-1

	47	<i>Centaurea virgata</i> Lam.	18-3
	48	<i>Centaurea virgata</i> Lam.	15-3
	49	<i>Cirsium echinus</i> (M. Bieb.) Sch.Bip.	3-4*
	50	<i>Cnicus benedictus</i> L.	13-5*
	51	<i>Cousinia calocephala</i> Jaub. & Spach	1-10*
	52	<i>Cousinia phyllocephala</i> Bornm. & Gauba	13-5*
	53	<i>Cousinia turcomanica</i> C.Winkl.	15-3
	54	<i>Echinacea paradoxa</i> Britton	20-6
	55	<i>Echinops cephalotes</i> DC.	20-1*
	56	<i>Echinops mosulensis</i> Rech.f.	13-2*
	57	<i>Echinops ritrodes</i> Bunge	18-5
	58	<i>Inula helenium</i> L.	21-3*
	59	<i>Jurinea macrocephala</i> DC.	11-6*
	60	<i>Jurinea macrocephala</i> DC.	1-9
	61	<i>Leontodon asperrimus</i> (Willd.) Endl.	20-4*
	62	<i>Picris strigosa</i> M. Bieb.	20-2*
	63	<i>Picris strigosa</i> M.Bieb	15-4
	64	<i>Pulicaria dysenterica</i> (L.) Bernh.	11-6*
	65	<i>Scozonera laciniata</i> L.	17-2*
	66	<i>Scorzonera tortuosissima</i> Boiss.	20-1*
	67	<i>Senecio mollis</i> Willd.	21-3*
	68	<i>Serratula cerinthifolia</i> (Sm.) Boiss.	13-5*
	69	<i>Serratula coriacea</i> Fisch. & C.A. Mey. Ex. DC.	11-5*
	70	<i>Tanacetum parthenium</i> Sch.Bip.	1-5*
	71	<i>Tanacetum polycephalum</i> Sch.Bip.	18-2
	72	<i>Zoegea lept aurea</i> L.	13-5*
	73	<i>Zoegea purpurea</i> Fresen.	20-6*
	74	<i>Zoegea purpurea</i> Fresen.	18-1
Berberidaceae			
	75	<i>Berberis integerrima</i> Bunge	18-3
	76	<i>Berberis integerrima</i> Bunge	18-2
Bignoniaceae			
	77	<i>Chilopsis linearis</i> (Cav.) Sweet	20-6*
Boraginaceae			
	78	<i>Caccinia strigosa</i> Boiss.	18-2
	79	<i>Echium italicum</i> L.	11-4*
	80	<i>Trachelanthus cerinthoides</i> Kunze.	20-3*
Brassicaceae			
	81	<i>Aethionema grandiflorum</i> Boiss. & Hohen.	16-8
	82	<i>Alyssum marginatum</i> Steud.	18-4
	83	<i>Aubrieta deltoidea</i> (L.) DC.	20-6
	84	<i>Fibigia suffruticosa</i> (Vent.) Sweet.	21-6*
	85	<i>Fortuynia garcinii</i> Shuttlew. ex Boiss.	22-3
	86	<i>Isatis cappadocica</i> Desv.	11-6*
	87	<i>Matthiola alyssifolia</i> (DC.) Bornm.	20-5*
	88	<i>Pseudocamelina campylopoda</i> Bornm. & Gauba ex Bornm.	20-1*
	89	<i>Thlaspi stenocarpum</i> Boiss. & Hohen.	20-4*
Calycanthaceae			
	90	<i>Chimonanthus praecox</i> (L.) Link	20-6*
Campanulaceae			
	91	<i>Campanula latifolia</i> L.	1-5*
Cannabaceae			
	92	<i>Celtis tournefortii</i> Lam.	4-3*
	93	<i>Celtis trinervia</i> Roxb.	20-6*
Capparaceae			

	94	<i>Capparis parviflora</i> Boiss.	20-6*
Caprifoliaceae	95	<i>Lonicera bracteolaris</i> Boiss. & Buhse.	5-1*
	96	<i>Lonicera iberica</i> M.Bieb.	18-3
	97	<i>Pterocephalus canus</i> Coult. ex. DC.	16-1*
	98	<i>Symphoricarpos albus</i> (L.) S.F.Blake	20-6
	99	<i>Sambucus nigra</i> L.	3-3*
	100	<i>Sambucus canadensis</i> L.	20-6
	101	<i>Viburnum rhytidophylloides</i> Suringar	20-6*
Caryophyllaceae	102	<i>Acanthophyllum bracteatum</i> Boiss.	20-1*
	103	<i>Acanthophyllum sordidum</i> Bunge ex. Boiss.	20-2*
	104	<i>Acanthophyllum speciosum</i> Schiman-Czeika	15-5
	105	<i>Acanthophyllum spinosum</i> (Desf.) C.A.Mey.	18-4
	106	<i>Dianthus carthusianorum</i> L.	20-6*
	107	<i>Dianthus armeria</i> L.	20-6
	108	<i>Dianthus kiusianus</i> Makino	20-6
	109	<i>Dianthus orientalis</i> Adams	18-3
	110	<i>Dianthus orientalis</i> Adams	18-2
	111	<i>Gypsophila libanotica</i> Boiss.	20-6
	112	<i>Lychnis flos-cuculi</i> L.	20-6*
	113	<i>Lychnis coronaria</i> (L.) Desr.	20-6*
	114	<i>Minuartia lineata</i> Bornm.	18-4
	115	<i>Silene aucheriana</i> Boiss.	16-4*
	116	<i>Silene caesarea</i> Boiss. & Bal.	20-5*
	117	<i>Silene dichotoma</i> Ehrh.	20-6
	118	<i>Silene meyeri</i> Fenzl ex. Boiss. & Buhse.	3-2*
	119	<i>Vaccaria pyramidata</i> Medik.	1-10*
Celastraceae	120	<i>Euonymus latifolius</i> Marshall	14-6*
Chenopodiaceae	121	<i>Chenopodium foliosum</i> Asch.	1-6*
	122	<i>Eurotia ceratoides</i> (L.) C.A. Mey.	22-1*
	123	<i>Halostachys caspica</i> C.A. Mey.	4-1*
Cornaceae	124	<i>Cornus australis</i> C. A. Mey.	14-5
	125	<i>Cornus australis</i> C.A. Mey.	14-7*
Cupressaceae	126	<i>Cupressus funebris</i> Endl.	20-6
	127	<i>Juniperus communis</i> L.	14-4*
	128	<i>Juniperus communis</i> L.	18-3
Elaeagnaceae	129	<i>Hippophae rhamnoides</i> L.	20-6
Ephedraceae	130	<i>Ephedra foliata</i> Boiss. ex C.A. Mey.	5-2*
	131	<i>Ephedra major</i> Host	18-1
	132	<i>Ephedra sarcocarpa</i> Aitch. & Hemsl.	9-2*
Euphorbiaceae	133	<i>Euphorbia boissieriana</i> (Woronow) Prokh.	20-5*
	134	<i>Euphorbia buhsei</i> Boiss.	20-1*
	135	<i>Euphorbia macroclada</i> Boiss.	3-5*
Fabacea	136	<i>Acacia salicina</i> Lindl.	4-2*
	137	<i>Acacia victoriae</i> Benth.	4-4*
	138	<i>Albizia julibrissin</i> Durazz.	4-2*

	139	<i>Cercis siliquastrum</i> L.	20-6*
	140	<i>Colutea buhsei</i> (Boiss.) Shap.	20-1*
	141	<i>Coronilla varia</i> L.	1-4*
	142	<i>Ebenus stellata</i> Boiss.	10-2
	143	<i>Gymnocladus dioicus</i> (L.) K.Koch	20-6*
	144	<i>Halimodendron halodendron</i> (Pall.) Druce.	9-7*
	145	<i>Lathyrus latifolius</i> L.	20-6*
	146	<i>Melilotus albus</i> Medik.	20-1*
	147	<i>Oreophysa triphylla</i> (Bunge ex. Boiss.) Bornm.	20-6*
	148	<i>Prosopis farcta</i> (Banks & Sol.) J.F.Macbr.	4-2
	149	<i>Prosopis juliflora</i> (Swartz) DC.	4-2*
	150	<i>Sophora japonica</i> L.	20-6*
	151	<i>Vicia ciceroidea</i> Boiss.	20-4*
Geraniaceae			
	152	<i>Biebersteinia multifida</i> DC.	22-1*
Hyacinthaceae	153		
	154	<i>Muscari longipes</i> Boiss.	21-5*
Hypericaceae			
	155	<i>Hypericum hirsutum</i> L.	15-2
	156	<i>Hypericum perforatum</i> L.	1-4*
	157	<i>Hypericum scabrum</i> L.	16-1*
Lamiaceae			
	158	<i>Lallemantia canescens</i> (L.) Fisch. & C.A.Mey.	16-6
	159	<i>Marrubium cuneatum</i> Banks & Sol.	18-4
	160	<i>Marrubium vulgare</i> L.	20-6*
	161	<i>Monarda punctata</i> L.	20-6
	162	<i>Nepeta fissa</i> Benth.	13-3*
	163	<i>Origanum vulgare</i> L. subsp. <i>gracile</i> (K.Koch) Ietsw.	20-6*
	164	<i>Otostegia aucheri</i> Boiss.	19-3
	165	<i>Phlomis bruguieri</i> Desf.	13-3*
	166	<i>Phlomis cancellata</i> Bunge.	18-5
	167	<i>Phlomis cancellata</i> Bunge.	15-1
	168	<i>Phlomis cancellata</i> Bunge	18-3
	169	<i>Phlomis maximowizii</i> Regel.	20-6*
	170	<i>Phlomis tuberosa</i> L.	1-6*
	171	<i>Salvia aethiopsis</i> L.	20-6*
	172	<i>Salvia argentea</i> L.	20-6*
	173	<i>Salvia cadmica</i> Boiss.	20-6*
	174	<i>Salvia coccinea</i> Juss. ex. Murray.	20-6*
	175	<i>Salvia kopetdaghensis</i> Kudr.	20-6*
	176	<i>Salvia macrosiphon</i> Boiss.	8-1*
	177	<i>Salvia macrosiphon</i> Boiss.	13-5*
	178	<i>Salvia napifolia</i> Jacq.	20-6*
	179	<i>Salvia nemorosa</i> L.	20-6*
	180	<i>Salvia officinalis</i> L.	20-6*
	181	<i>Salvia pratensis</i> L.	20-6
	182	<i>Salvia reuteriana</i> Boiss.	13-5*
	183	<i>Salvia santolinifolia</i> Boiss.	19-1
	184	<i>Salvia scabiosifolia</i> Lam.	20-6*
	185	<i>Salvia verticillata</i> L.	1-6*
	186	<i>Sideritis montana</i> L.	15-1
	187	<i>Stachys byzantina</i> K.Koch	18-3
	188	<i>Stachys inflata</i> Benth.	18-4
	189	<i>Stachys turcomanica</i> Trautv.	18-5
	190	<i>Stachys turcomanica</i> Trautv.	15-5

	191	<i>Teucrium hircanicum</i> L.	14-1
	192	<i>Teucrium orientale</i> L.	3-1*
	193	<i>Teucrium polium</i> L.	16-8
	194	<i>Teucrium polium</i> L.	16-3*
	195	<i>Teucrium stocksianum</i> Boiss.	19-2
	196	<i>Teucrium stocksianum</i> Boiss.	13-5*
	197	<i>Thymus fallax</i> Fisch. & C.A.Mey.	14-2
	198	<i>Ziziphora clinopodioides</i> Lam.	18-5
Liliaceae			
	199	<i>Tulipa biflora</i> Pall.	22-1
Linaceae			
	200	<i>Linum austriacum</i> L.	15-2
	201	<i>Linum perenne</i> L.	20-6
	202	<i>Linum rubrum</i> Raf.	20-6
Malvaceae			
	203	<i>Alcea sulphurea</i> Aef.	20-6*
	204	<i>Firmiana simplex</i> W.Wight	20-6*
Martyniaceae			
	205	<i>Proboscidea fragrans</i> Decne.	20-6*
Moraceae			
	206	<i>Broussonetia papyrifera</i> (L.) Vent.	20-6*
Nitrariaceae			
	207	<i>Nitraria schoberi</i> L.	22-2
Oleaceae			
	208	<i>Fraxinus velutina</i> Torr.	20-6*
Onagraceae			
	209	<i>Oenothera biennis</i> L.	20-6
Papaveraceae			
	210	<i>Argemone mexicana</i> L.	20-6*
	211	<i>Glaucium flavum</i> Crantz	1-3*
	212	<i>Papaver dubium</i> L.	9-5
	213	<i>Papaver fugax</i> Poir.	21-2*
	214	<i>Papaver rhoeas</i> L.	20-5
Poaceae			
	215	<i>Boissiera squarrosa</i> (Sol.) Nevski	18-4
	216	<i>Briza maxima</i> L.	20-6*
	217	<i>Echinaria capitata</i> (L.) Desf.	15-1
	218	<i>Festuca arundinacea</i> Schreb.	20-6*
	219	<i>Koeleria pyramidata</i> P. Beauv.	20-6*
	220	<i>Melica persica</i> Kunth.	9-5
	221	<i>Melica persica</i> Kunth	18-5
	222	<i>Pennisetum orientale</i> L. C. Rich.	15-1
	223	<i>Pennisetum orientale</i> (Willd.) Rich.	9-5
	224	<i>Phleum phleoides</i> H.Karst.	15-5
	225	<i>Stipa barbata</i> Michx.	7-1*
	226	<i>Stipa hohenackeriana</i> Trin. & Rupr. subsp. <i>assyriaca</i> (Hand.-Mazz.) F.M.Vázquez	9-8*
Polygalaceae			
	227	<i>Polygala irregularis</i> Boiss.	10-2
Polygonaceae			
	228	<i>Atraphaxis spinosa</i> L.	20-6*
	229	<i>Pteropyrum olivieri</i> Jaub. & Spach	18-2
	230	<i>Rheum ribes</i> L.	10-1
	231	<i>Rumex chalepensis</i> Mill.	1-6*
	232	<i>Rumex vesicarius</i> L.	19-1

Primulaceae			
	233	<i>Androsace maxima</i> L.	15-1
Ranunculaceae			
	234	<i>Aquilegia adoxoides</i> (DC.) Ohwi	20-6
	235	<i>Aquilegia alpina</i> L.	20-6
	236	<i>Aquilegia bernardii</i> Gren. & Gord.	20-6
	237	<i>Aquilegia californica</i> A.Gray.	20-6*
	238	<i>Aquilegia chrysantha</i> A.Gray	20-6*
	239	<i>Aquilegia formosa</i> Fisch. ex DC.	20-6
	240	<i>Aquilegia fragrans</i> Benth.	20-6
	241	<i>Aquilegia vulgaris</i> L.	20-6*
	242	<i>Clematis orientalis</i> L.	1-8*
	243	<i>Delphinium lasiantherum</i> W.T. Wang	20-2*
Resedaceae			
	244	<i>Ochradenus baccatus</i> Delile	19-3
	245	<i>Reseda lutea</i> L.	17-1*
Rhamnaceae			
	246	<i>Rhamnus pallasii</i> Fisch. C.A. Mey. subsp. <i>sintenssii</i> (Rech.f.) Browicz & Ziel.	
	247	<i>Ziziphus nummularia</i> (Burm.f.) Wight & Arn.	
Rosaceae			
	248	<i>Agrimonia eupatoria</i> L.	20-6*
	249	<i>Alchemilla mollis</i> (Buser) Rothm.	20-6
	250	<i>Amygdalus scoparia</i> Spach.	20-6*
	251	<i>Cerasus incana</i> Boiss.	20-2*
	252	<i>Cotoneaster affinis</i> DC.	20-6*
	253	<i>Cotoneaster allochrous</i> Pojark.	20-6
	254	<i>Cotoneaster morulus</i> Pojark.	11-1*
	255	<i>Cotoneaster nummularioides</i> Pojark.	20-6*
	256	<i>Cotoneaster nummularius</i> Fisch. & C.A. Mey.	9-3*
	257	<i>Cotoneaster nummularius</i> Fisch. & C.A.Mey.	20-6
	258	<i>Crataegus atosanguinea</i> Pojark.	14-3*
	259	<i>Crataegus azarolus</i> L.	1-2*
	260	<i>Crataegus melanocarpa</i> Bory & Chaub.	14-5*
	261	<i>Crataegus melanocarpa</i> M.Bieb.	20-6
	262	<i>Crataegus meyeri</i> Pojark.	1-2*
	263	<i>Crataegus microphylla</i> Gand.	14-3*
	264	<i>Crataegus oxyacantha</i> L.	20-6*
	265	<i>Crataegus pseudoheterophylla</i> Pojark.	1-2*
	266	<i>Crataegus pinnatifida</i> Bunge.	20-6*
	267	<i>Geum hispidum</i> Auct.Germ. ex Scheutz	20-6*
	268	<i>Hulthemia persica</i> Bornm. R.	15-3
	269	<i>Malus orientalis</i> Uglitzk.	20-2*
	270	<i>Potentilla recta</i> L.	16-7*
	271	<i>Prunus spinosa</i> L.	14-3*
	272	<i>Pyrus boissieriana</i> Buhse.	14-3*
	273	<i>Rosa beggeriana</i> Schrenk ex Fisch. & C.A.Mey.	18-2
	274	<i>Rosa canina</i> L.	1-5*
	275	<i>Rosa elymaitica</i> Boiss. & hausskn. ex. Boiss.	2-1*
	276	<i>Sorbus boissieri</i> C.K.Schneid.	14-8*
Rubiaceae			
	277	<i>Gaillonia aucheri</i> (Guill.) Jaub. & Spach	19-1
Rutaceae			
	278	<i>Ruta graveolens</i> L.	20-6*
Sapindaceae			

	279	<i>Koelreuteria paniculata</i> Laxm.	20-6*
	280	<i>Xanthoceras sorbifolium</i> Bunge.	20-6*
Scrophulariaceae			
	281	<i>Scrophularia striata</i> Boiss.	13-3*
	282	<i>Verbascum agrimoniifolium</i> (K.Koch) Hub.-Mor.	13-5*
Solanaceae			
	283	<i>Withania coagulans</i> (Stocks) Dunal	19-3
Tamaricaceae			
	284	<i>Reaumuria alternifolia</i> Britten	20-2*
Thymelaeaceae			
	285	<i>Daphne angustifolia</i> K.Koch	13-2*
Verbenaceae			
	286	<i>Verbena hispida</i> Ruiz & Pav.	20-6*
Zygophyllaceae			
	287	<i>Zygophyllum atriplicoides</i> Fisch. & C.A.Mey.	20-6*
	288	<i>Zygophyllum eurypterum</i> Boiss. & Buhse	18-1

Seed Collection Sites:

- 1-1. Alborz, Chalous road, Sirachal, 1910 m. N 36°.01'.285", E 051°.09'.495".
- 1-2. Alborz. Chalous road, Arange Village, 1840 m. N 35°.55'.401", E 051°.04'.370".
- 1-3. Alborz. Karaj to Baraghan road. Befor Miyansar village. 1780 m. N. 35°.54'.25.6", E 50°.57'.57.3".
- 1-4. Alborz. Karaj to chalous road. Afrer Asara. 1740 m. N. 36°.02'.24.7", E 51°.11'.16.5".
- 1-5. Alborz. Karaj to chalous road. Afrer Nesa. 2200 m. N. 36°.06'.11.6", E 51°.18'.56.8".
- 1-6. Alborz. Karaj to chalous road. Azadbar village. 2477 m. N. 36°.08'.16.3", E 51°.14'.25.2".
- 1-7. Alborz. Karaj-Chalus road, 1 km after Nesa toward Gachsar, 2179 m. N. 36°.05'.31.9", E 51°.18'.52.3".
- 1-8. Alborz. Shahrestanak. 2120 m. N 35°.59'.655", E 51°.18'.645" .
- 1-9. Alborz. Taleghan. 1840 m. N. 36°.09'.43.4", E 50°.44'.40.7"
- 1-10. Alborz. Taleghan. 2200 m. N. 36°.06'.581", E 50°.39'.25.5".
- 2-1. Chaharmahal and Bakhtiari, Rig Mountain.
- 3-1. East Azerbaijan , Tabriz. 80 km. frome Kalibar to Tabriz, 1733 m. N 38°.47'.324", E 47°.03'.578".
- 3-2. East Azarbaijan, Khoy, Ghotour valley, 1586 m. N 38°.27'.150", E 44°.39'.279".
- 3-3. East Azarbaijan, Maraghe, Cheken Village, 1707 m. N 37°.23'.492", E 46°.43'.404".
- 3-4. East Azarbaijan, Marand to Tabriz, Tariyamishou, 1823 m. N 38°.20'.174", E 45°.47'.549".
- 3-5. East Azarbaijan, Tabriz to Maraghe, Solouk Village, 1716 m. N 37°.32'.494", E 46°.50'.444"
- 4-1. Fars, Estahbanat, road of Kherameh to Khir, 1550 m. N 29°.09'.484", E 53°.42'.571".
- 4-2. Fars, Firuzabad, road of Farashband to Kazeroun, 770 m. N 28°.49'.310", E 52°.06'.508".
- 4-3. Fars, Road of Shiraz to Abadeh, 2000 m. N 30°.04'.504", E 53°.09'.574".
- 4-4. Fars, Shiraz, Road of Shiraz to Fasa, 1800 m. N 29°.06'.085", E 52°.57'.364".
- 5-1. Gilan, Rezvanshahr, Pargam, Shafarood zone. 900 m.
- 5-2. Gilan, Road of Loshan to Tarom Sofla, 323 m. N 36°.38'.350", E 49°.27'.286".
- 6-1. Golestan, Golestan Park. 1670 m.
- 7-1. Hormozgan. Qeshm iland, Namak cave. 149 m N. 26.654855, E. 55.460626 .
- 8-1. Ilam,aivan,emamzade abdolah Altitudes,1370-1400 m. N. 33°.46'.25.1", E 46°.19'.21.7".
- 9-1. Isfahan Zayandeh Rood Dam.2024 m. N. 32.734032, E. 50.737188.

- 9-2. Isfahan, Aran and Bidgol, Khotbshekan Village, 940 m. N 34°13'12", E 051°33'19".
- 9-3. Isfahan, Kashan, Shahsavaran Road, 1860 m. N 33°42'57", E 051°30'22".
- 9-4. Isfahan, Natanz, Tameh, 2248 m. N 33°27'4863", E 51°50'5781"
- 9-5. Isfahan, Qamsar, Jonian, 1920 m. N 33°41'58", E 051°27'23".
- 9-6. Isfahan. Kashan, Jonian, 1900 m. N 33°41'58", E 051°03'243".
- 9-7. Isfahan. Zayandeh Rood Dam.2024 m. N. 32.734032, E. 50.737188.
- 10-1. Kerman. Kiyanshah to Zarand, 33Km to Kiyanshah. 2248 m. N. 31°02'28.0", E 56°33'31.1".
- 10-2. Kerman. Rafsanjan to Zarand. 2125 m. N. 30°36'35.9", E 56°14'23.5".
- 11-1. Kermanshah, Dalahu, Gahvareh, Tutshami, 1595 m, N 34°21'43", E 046°20'25".
- 11-2. Kermanshah, Kerend to Dalahu Road, 1736 m.
- 11-3. Kermanshah, Rijab, Abudojaneh shrine, 1003 m. N 34°22'41.1", E 046°03'37.9".
- 11-4. Kermanshah, Songhor to Kamyaran, km 60 Kyunanat, 2100 m. N 34°48'079", E 47°02'910".
- 11-5. Kermanshah. Kamyaran to Sanandaj, 1790-1800 m. N 34°53'312", E 46°56'573".
- 11-6. Kermanshah. Kamyaran, after Shirvane Village, 1826 m. N 34°47'08", E 47°04'574".
- 12-1. Kordestan, Bijar, 1650 m. N 35°54'007", E 47°20'372"
- 13-1. Lorestan. Khramabad to Poldokhtar road. Mlavi canyon. 1750 m. N. 33°44'383", E 49°22'769".
- 13-2. Lorestan.25th Km Doroud to Azna road. 1922 m. N. 35°25'482", E 48°54'315".
- 13-3. Lorestan.25th Km doroud to Oshtorankouh mountain road. North mountain slope Tiun Village. 2212 m. N. 33°25'636", E 48°52'076".
- 13-4. Lorestan.Khoramabad. Bishe. Chenar Village & Cheshme pariyan Village. 1272 m. N. 33°20'841", E 48°52'442".
- 13-5. Lorestan.Khoramabad. Bishe. Chenar Village & Cheshme pariyan Village. 1634 m. N. 33°27'846", E 48°22'468".
- 14-1. Mazandaran. Abbasabad to kelardasht, 413 m. N 36°38'04.8", E 051°06'48.4".
- 14-2. Mazandaran.Chalush Road. Pole Khab, 1955 m. N 36°00'43.6", E 51°08'48.9" .
- 14.3. Mazandaran.Noushahr. Kojour, Lashak Valley, 500 m. N 36°32'264", E 01°60'636" .
- 14-4. Mazandaran.Noushahr. Kojur, Lashak Valley. Darvish Ahmad village. 250 m. N 26°32'264", E 51°60'636".
- 14-5. Mazandaran.Noushahr. Kojur, Zanoos Valley, 2052m. N 36°32'205", E 51°60'66".

- 14-6. Mazandaran.Noushahr. Kojur, Zanoos Valley. 250 m. N 36°30'.66", E 51°52'.85"
- 14-7. Mazandaran.Noushahr. Kojur, Zanoos Valley. 350 m. N 36°29'.84", E 51°51'.35"
- 14-8. Mazandaran.Noushahr. Kojur, Zanoos Valley. 600 m. N 36°30'.66", E 51°52'.85".
- 15-1. North Khorasan. Bojnurd. Charkharvar Village. 1070 m. N. 33°29'.31", E 57°17'.53".
- 15-2. North Khorasan. Bojnurd. Esfidan Village. 1570 m. N. 37°25'.46", E 57°10'.14".
- 15-3. North Khorasan. Bojnurd. Gharkhoad national park. 1250 m. N. 37°29'.51", E 56°21'.42"
- 15-4. North Khorasan. Bojnurd. Kohkamar Village. 1150 m. N. 37°27'.23", E 57°17'.22"
- 15-5. North Khorasan. Bojnurd. Sisab. 1300 m. N. 37°25'.11", E 57°39'.20"
- 16-1. Qazvin. Abgarm to Sagharan and Arteshabad, 1670 m. N 35°42'.406", E 49°19'.566"
- 16-2. Qazvin. Alamuot Pass, 2160-2200 m. N 36°22'.278", E 50°12'.258"
- 16-3. Qazvin. Barjin to Zereshk village road. 2060 m. N 36°26'.30.8", E 50°06'.42.4"
- 16-4. Qazvin. Ghazvin to Zereshk village road. Barjin village, 1560 m. N 36°21'.17.6", E 50°04'.29.3"
- 16-5. Qazvin. Pichbon, 3000 m. N. 36°24'.354", E 50°46'.588
- 16-6. Qazvin. Tarum-e-sofla ,Hossein abad forest.Alt: 1620 m. N 36°33'.12.0", E 49°16'.37.0"
- 16-7. Qazvin. Zereshk, 1800 m. N. 36°24'.559", E 50°05'.429"
- 17-1. Qom, Kahak, Vashnoh region, 2096 m. N 35°23'.616179", E 051°00'.001482"
- 17-2. Qom, Kahak, Vashnoh region, 8 km a Vashnoh to Qom, 1936 m. N 34°27'.016773", E 051°00'.105147"
- 17-3. Qom, Salafchegan, km 3 Salafchegan to Qom road, 1354 m. N 34°41'.866785", E 050°49'.376601".
- 18-1. Semnan. Garmsar. Bon-e Kuh. 1109 m. N. 35°18'.28", E 52°26'.25"
- 18-2. Semnan. Parvar. 1902 m. N. 35°59'.21", E 33°29'.08"
- 18-3. Semnan. Rudbarak. 2484 m. N. 36°02'.40", E 53°36'.16"
- 18-4. Semnan. Shahmirzad. Shahmirzad to Foulad Mahalleh. 2195 m. N. 35°49'.37", E 53°25'.13"
- 18-5. Semnan. Shahrood. Khoshyeylāq. 1250 m. N. 37°29'.51", E 56°21'.42"
- 19-1. Sistan & Baluchestan. Iranshahr to Khash, 105 km to Khash. 840 m. N. 27°32'.32.6", E 60°48'.14.7"
- 19-2. Sistan & Baluchestan. Iranshahr to Khash, 54 km to Khash. 1480 m. N. 27°56'.19.3", E 60°47'.35.6"

- 19-3. Sistan & Baluchestan. Khash to Iranshahr, 86 km to Iranshahr. 1341 m. N. 27°.53'41.3", E 60°.48'01.4"
- 20-1. Tehran, Damavand, Kilan, Tamison, 1800 m. N 35°.33'.527", E 52°.10'.598"
- 20-2. Tehran, Damavand, Mountain, Daliran, 2250 m. N 35°.53'.211", E 52°.06'.135"
- 20-3. Tehran, Damavand, Tar lake from hover, 2585 m. N 35°.42'.533", E 52°.17'.595"
- 20-4. Tehran, Damavand, Tar lake from hover, 2585 m. N 35°.42'.533", E 52°.17'.595"
- 20-5. Tehran, Road from Imamzadeh Davood to Talon. 2268 m. N 35°.54'.080", E 51°.17'.545".
- 20-6. Tehran. Cultivated in National Botanical Garden of Iran. 1320 m. N. 35°.44'.251", E 51°.10'.242"
- 21-1. West Azerbaijan, Aghbolagh to Oshnavieh, 1712 m. N 37°.11'.119", E 45°.07'.599".
- 21-2. West Azerbaijan, Rajan, Khalilkouh, 3100 m. N 37°.21'.489", E 44°.48'.319"
- 21-3. West Azerbaijan, Salmas to Abgarm, Khan Takhti village, 1445 m. N 37°.32'.494", E 45°.07'.073"
- 21-4. West Azerbaijan, Urumieh, Zeve, 1500 m. N 37°.15'.061", E 44°.54'.161"
- 21-5. West Azerbaijan, Urumiyeh road to Oshnavieh, Ghasemlou valley, 1650-1800 m. N 37°.13'.210", E 45°.07'.073"
- 21-6. Western Azerbaijan, Urumiyeh road to Oshnavieh, Ghasemlou valley forest reserve, 1348-1365 m. N 37°.21'.086", E 45°.09'.126"
- 22-1. Yazd, Bafq.
- 22-2. Yazd, Reserch departman of desert plant of sadooghi, 1261 m. N 31°.49'.4698", E 54°.21'.5473"
- 22-3. Yazd. Taft to Fdehbala, 3 Km after Tft. 1560 m. N. 31°.43'39.1", E 54°.12'.53.8".



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