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FLORA OF EXPERIMENTAL BOTANIC GARDEN, NAGDEV, PAURI GARHWAL

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ABSTRACT

The present paper deals with the angiospermic plants growing wild in the Experimental Botanic Garden, Nagdev, Pauri Garhwal. A total number of 256 species distributed over 215 genera and 66 families have been recorded and arranged according to the classification of Bentham & Hooker (1862-1883). For each taxon correct binomial with author's name, local name in iverted comma, habit, flower colour, flowering & fruiting period, collector's number etc., have been given. For collector's name please read Ansari and Ghana Nand. A list of gymnosperms available in the garden is also appended.

INTRODUCTION

The Experimental Botanic Garden at Nagdev, Pauri Garhwal under Northern Circle of the Botanical Survey of India was established in 1975. The total area is about 12 hectares lying in between 30°-0' N latitude and 78°-46' E longitude sharing with the outer himalayan range with altitudinal variation in between 1800 to 1950 m. With the modern development and advancement in botanical studies of the himalayn regions, knowledge of the vegetational wealth from different localities has become a pre-requisite aspect. With this objective the present investigation was started in 1979. Since then the authors have collected and observed flowering plants of the area in different seasons. The area consists of vegetation of *Cupressus Cedrus Pinus* and *Rhododendron Quercus* communities with luxuriant under growth of various kinds.

Duthie (1906) published a "Catalogue of plants of Kumaon and the adjacent portions of Garhwal and Tibet" based on the collections of Strachey and Winterbottom during the years 1845-1849. Later on in 1927 Osmaston published "Forest Flora of Kumaon" in which he described trees, shrubs & climbers of Kumaon division including Garhwal district.

Recently in 1982 Naithani and Tiwari published a check list of flowering plants from Pauri and adjacent portion, which is fragmentary keeping in view of the richness of the flora. They, however, included mostly plants of lower altitude.

The present paper deals with the angiospermic plants growing wild in the Experimental Botanic Garden, Nagdev, Pauri Garhwal. A total number of 256 species distributed over 215 genera and 66 families have been recorded and presented in table 1. A list of gymnosperms available in the garden is also appended in table 2. The herbarium specimens are deposited in the herbaria of northern circle of BSI at Dehra Dun (BSD) and Pauri Garhwal.

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TABLE 1 : Angiosperms of the garden

Botanical name and Local name	Family	Habit	Colour of flower and fruit	Flowering & fruiting time	Collector's number
Anemone vitifolia Buch.-Ham. ex DC.	Ranunculaceae	E.Pr. Herb	White	Aug.-Nov.	68313
Aquilegia pubiflora Wall. ex Rolfe	,,	E. Herb	Voilet-bluish	June-Aug.	69081
Clematis connata DC.	,,	Cl.	Whitish-green	Sept.-Nov.	68412
C. grata Wall.	,,	Cl.	Dull white	Sept.-Nov.	68687
Delphinium denudatum Wall. ex Hook. f. & Thoms.	,,	E. Herb	Violet	Aug.-Oct.	68784
Ranunculus hirtellus Royle ex D. Don	,,	E. Pr. Herb	Yellow	Aug.-Oct.	68339
Thalictrum foliolosum DC.	,,	Sl. Herb	Dull white	Aug.-Oct.	6496
Stephania elegans Hook.f. & Thoms.	Menispermaceae	Cl.	Greenish	Aug.-Dec.	68379
S. glabra (Roxb.) Miers	,,	L. Cl.	Yellowish	May-July	69069
Berberis asiatica Roxb. ex DC. 'KINGORA'	Berberidaceae	Sh.	Yellow	Mar.-June	69020, 69008
B. chitria L. 'KINGORA'	,,	Sh.	Yellow, Fr. violet	Mar.-June	69059
B. lycium Royle 'KINGORA'	,,	Under Sh. or Sh.	Yellow, Fr. blackish	Mar.-June	69018
Arabis pterosperma Edgew.	Brassicaceae	Sm-Herb	Yellow	July-Aug.	68562
Lepidium virginicum L.	,,	E. Herb	White, Fr. greenish	Apr.-June	69055
Rorippa nasurtium- aquaticum (L.) Hayek	,,	E. Herb	White, Fr. greenish	Mar.-June	69024
Descurainia sophia (L.) Webb. ex Prantl.	,,	E. Herb	Yellowish	Apr.-July	69018
Viola biflora L. 'BANAFSA'	Violaceae	S. Herb	Yellowish	Feb.-Apr.	68705
V. canescens Wall. 'BANAFSA'	,,	Sp. Herb	White or blue	Feb.-Apr.	68706
Polygala crotalarioides Buch.-Ham. ex DC.	Polygalaceae	Decu. Herb	Violet	Sept.-Nov.	68567
Silene indica Roxb. ex Otth	Caryophyllaceae	Proc. Herb	Light blue	Sept.-Nov.	68314
Stellaria media (L.) Vill.	,,	Sm. Herb	White	Mar.-June	68572
Hypericum elodeoides Choisy	Hypericaceae	Sm. E. Herb	Yellow	Aug.-Oct.	68310, 68406
H. oblongifolium Choisy	,,	E. Herb	Yellow	Aug.-Oct.	68406
Sida humilis Willd.	Malvaceae	Tr. under Sh.	Yellow	Sept.-Nov.	68739
Grewia optiva J.R. Drumm. ex Burret 'BHEMAL'	Tiliaceae	Sh.		Not seen in flowering	69045
Triumfetta annua L.	,,	Er. Herb	Yellow	June-Oct.	24202
Reinwardtia indica Dumort	Linaceae	Sp. Herb	Yellow	Feb.-Apr.	69002
Geranium wallichianum D.Don ex St.	Geraniaceae	Pros. Herb	Bluish-violet	Aug.-Oct.	69322
Oxalis corniculata L. 'KHATTI- MEETHI'	Oxalidaceae	Sl. Herb	Yellow	Throughout the year	43939
O. dehradunensis Raizada	,,	Sl. Herb	Violet blue or pink	June-Sept.	69073
Impatiens scabrida DC.	Balsaminaceae	E. Herb	White or yellow	Sept.-Nov.	68332, 68691
Boenninghausenia albiflora (Hook.) Reichb. ex Meissn	Rutaceae	T. Sl. Herb	White	Aug.-Oct.	68334

Botanical name and Local name	Family	Habit	Colour of flower and fruit	Flowering & fruiting time	Collector's number
Zanthoxylum armatum DC. 'TIMRII'	Rutaceae	Ar. Sh.	Yellowish	Apr.-July	68707
Rhamnus procumbens Edgew. 'JHIUN'	Rhamnaceae	Under Sh.	Greenish yellow Fr. Black	Dec.-Apr.	68708
Ampelocissus divaricata (Wall. ex Laws.) Planch.	Vitaceae	Cl.	Greenish	Aug.-Oct.	42252
Cotinus coggygria Scop. 'JALTOONG'	Anacardiaceae	Sh.	Yellow, Fr. pink	May-Aug.	69068
Rhus parviflora Roxb.	,,	M. Tree	Yellowish	May-Oct.	68430
Aesculus indica (Colebr. ex Camp.) Hook. 'PANKHAR'	Hippocastanaceae	D. Tree	White, Fr. greenish	Mar.-Sept.	69037
Acacia dealbata Link.	Fabaceae (Leguminosae)	Sm. Tree	Yellow	Feb.-Apr.	69003
Campylotropsis eriocarpa (DC.) Sch.	,,	Woody Under Sh.	Violet	Aug.-Oct.	68700
Crotalaria albida Heyne ex Roth	,,	E. Herb	Yellow	June-Sept.	68317
C. sessiliflora L.	,,	E. Herb	Pale blue	Aug.-Oct.	68645
Desmodium microphyllum (Thunb.) DC.	,,	Pros. Pr. Herb	Light blue or whitish	Sept.-Nov.	68355,68415
D. oxyphyllum DC.	,,	Sc. Herb	White or blue	Aug.-Oct.	68684
D. podocarpum DC.	,,	T. E. Herb	Blue	Aug.-Oct.	68347
Indigofera heterantha Wall. ex Brandis 'SAKIN'	,,	Low Sh.	Violet, Fr. brown	Aug.-Nov.	68343, 69064
Lathyrus aphaca L.	,,	Tw. Herb	Yellow	Sept.-Nov.	68417
L. sativus L.	,,	Tw. Herb	White	Sept.-Nov.	68418
Lespedeza juncea (L.) Pers. var. *sericea* (Thunb.) Forbes & Hemsl.	,,	T.E. Herb	White	Sept.-Nov.	68681
Flemingia vestita Benth. ex Baker	,,	Tr. Herb	Violet	Sept.-Nov.	68335
Trifolium repens L.	,,	Sm. E. Herb	Dull white	May-Aug.	69066
Vigna vexillata (L.) A. Rich.	,,	Cl.	Yellow	Sept.-Nov.	68420
Agrimonia eupatoria L.	Rosaceae	E. Herb	Yellow	Sept.-Nov.	68333
Cotoneaster microphyllus Wall. ex Lindl.	,,	Woody Sh.	White	June-Oct.	31053
Duchesnea indica (Andr.) Focke	,,	Pr. Herb	Yellow	Aug.-Oct.	68410
Potentilla fulgens Wall. ex Hook.	,,	Pros. Pr. Herb	Yellow	Sept.-Nov.	68402
Prinsepia utilis Royle 'BHEKAL'	,,	Sh.	White Fr. greenish	Feb.-Apr.	69010
Prunus cerasoides D.Don 'PANYIAN'	,,	Sm. Tree	Not seen in flowering		*s.n.*
Pyracantha crenulata (D.Don) Roem. 'GHINGHARII'	,,	Under Sh. or Sh.	White, Fr. orange red	Mar.-Aug.	69022
Rosa brunonii Lindl. 'KUNJA'	,,	Cl. Sh.	White, Fr. red	Apr.-July	69065
Rubus ellipticus Smith 'HINSER'	,,	Ar. Str. Sh.	White, Fr. yellow	Feb.-May	69009

Botanical name and Local name	Family	Habit	Colour of flower and fruit	Flowering & fruiting time	Collector's number
R. niveus Thunb. 'KALI HINSER'	,,	Ar. Str. Sh.	Pinkish, Fr. black	Mar.-June	68709
Spiraea gracilis Maxim.	Rosaceae	Sh.	Whitish	May-Aug.	69062
Bergenia ciliata (How.) Sternb. f. 'PASARBHED', 'PATHAR-CHATTA'	Saxifragaceae	Herb	Pinkish, pinkish-white or bluish-white	Feb.-Apr.	69007
Parnassia nubicola Wall. ex Royle	,,	Pr. Herb	White	Sept.-Nov.	68330
Kalanchoe integra (Medik.) O. Kuntze	Crassulaceae	E. Succ. Herb	Dull white	June-Aug.	*s.n.*
K. pinnata (Lam.) Persoon	,,	E. Succ. Herb	Yellow	Oct.-Jan.	*s.n.*
Rhodiola sinuata (Royle ex Edgew.) Fu	,,	E. Succ. Herb	Pink	Aug.-Oct.	68688
R. wallichiana (Hook.f.) Fu	,,	E. Succ. Herb	Yellow	June-Sept.	*s.n.*
Rosularia edenotricha (Wall. ex Edgew.) Janson	,,	E. Succ. Herb	Reddish or dull-white	Apr.-Aug.	69033
Sinocrassula indica (Decne.) Berger	Crassulaceae	E. Succ.	Light green	Sept.-Nov.	*s.n.*
Drosera peltata Sm. var. *lunata* (Buch.-Ham. ex DC.) Clarke	Droseraceae	E.Sl. Herb	White	Sept.-Nov.	68366
Osbeckia stellata Ker-Gawl.	Melastomataceae	D. under Sh.	Pink	Sept.-Dec.	41974
Epilobium royleanum Hassk	Onagraceae	T.E. Herb	Violet	Sept.-Nov.	68368
Hartmannia rosea G.Don	,,	Proc. Herb	Reddish pink	Apr.-Aug.	69017
Trichosanthes tricuspidata Lour. 'ILARU'	Cucurbitaceae	Cl.	White, Fr. red	Sept.-Nov.	43984
Begonia picta Sm.	Begoniaceae	Succ. Herb	Pinkish	Aug.-Oct.	23623
Apium graveolens L.	Apiaceae	E. Herb	White	June-Aug.	*s.n.*
A. leptophyllum (Pers.) Muell.	,,	Pros. Herb	White	July-Sept.	69096
Bupleurum hamiltonii Balakr.	,,	E. Herb	Yellow	Sept.-Nov.	68320
Centella asiatica (L.) Urban	,,	Tr. Herb	Reddish	Apr.-Oct.	68710
Heracleum thomsonii Clarke	,,	T.E. Herb	White	Aug.-Nov.	55925
Pimpinella diversifolia DC.	,,	T.E.Sl. Herb	White	Sept.-Nov.	68324
Selinum wallichianum (DC.) Raizada & Saxena	,,	T.Herb	White	Sept.-Nov.	68341
Hedera nepalensis Koch	Araliaceae	L.Cl.	Greenish-white, Fr. Greenish	Jan.-Mar.	69005
Dendrobenthamia capitata (Wall. ex Roxb.) Hutchins 'BHAMORA'	Cornaceae	Sm. Tree	White	June-Oct.	68544
Agrostemma verticillatum Wall.	Rubiaceae	Sm. E.Sl. Herb	White	July-Sept.	69094
Galium mollugo L. ssp. mollugo	,,	Sl. Cl.	Light brown or whitish	Sept.-Nov.	68356
G. mollugo L. ssp. *asperifolium* (Wall. ex Roxb.) Kitamura	,,	Sp. Herb	Greenish	Sept.-Nov.	68436
Leptodermis lanceolata Wall.	,,	E. Under Sh.	Bluish	Aug.-Sept.	68438

Botanical name and Local name	Family	Habit	Colour of flower and fruit	Flowering & fruiting time	Collector's number
Randia tetrasperma (Roxb.) Benth. & Hook.f. ex Brandis	,,	Sm. under Sh.	Yellowish	Apr.-Oct.	69056
Rubia manjith Roxb.	,,	Cl. Herb	Greenish, Fr. black	Aug.-Oct.	68312
R. wallichiana Decne.	,,	Sl. Cl. Herb	Greenish, Fr. black	Aug.-Oct.	68437
Spermadictylon suaveolens Roxb.	,,	Under Sh. or Sh.	Bluish, rarely, white	Sept.-Nov.	68319
Valeriana jatamansi Jones 'SAMEVA'	Valerianaceae	Pr. Herb	White	Mar.-May	69016
Ageratum conyzoides L.	Asteraceae	E. Herb	White	July-Oct.	69098
Ainsliaea aptera DC.	,,	E. Sl. Herb	Pinkish	Mar.-May	69013
Anaphalis contorta (D.Don) Hook.f.	,,	T.E. Herb	Silky white	Sept.-Nov.	68357
A. nepalensis (Spreng.) Hand. Maz.	,,	E. Herb	Cream coloured	Sept.-Nov.	68372
Artemisia moorcroftiana Wall. ex DC.	,,	Under Sh. or Sh.	White	Sept.-Nov.	68354
Bidens bipinnata L.	,,	E. Herb	Yellow	Sept.-Nov.	68370
Circium wallichii DC. var. fasciculata Hook.f.	,,	Ar. E. Herb	White	Apr.-July	69054
Conyza stricta Willd.	,,	E. Herb	Yellow	Sept.-Nov.	68364
Emilia sonchifolia (L.) DC.	,,	Sl. Herb	Yellow	Aug.-Oct.	69015
Erigeron alpinus L.	,,	Sl. Herb	White	Mar.-June	69032
E. bonariensis L.	,,	T.E. Herb	Light yellow	Sept.-Nov.	68351
Hieracium crocatum Frics	,,	E. Herb	Yellow	July-Sept.	69080 a
Gnaphalium affine D.Don	,,	Herb	Golden yellow	May-Oct.	44009
Lactuca brunoniana (Wall.) Clarke	,,	T.Sl.E. Herb	Violet, light pink or whitish	Aug.-Oct.	68308
Myriactis nepalensis Less.	,,	E. Herb	Yellowish	Sept.-Nov.	68327
Senecio chrysanthemoides DC.	,,	T.E. Herb	Yellow	Aug.-Oct.	68696
Solidago virga-aurea L.	,,	Herb or Under Sh.	Yellow	Sept.-Nov.	68338
Sonchus barachyotus DC.	,,	Herb	Yellow	July-Sept.	69080 b
Taraxacum officinale Weber var. *parvulum* Hook.f.	,,	Pr. Herb	Yellow	Feb.-May	69012
Tridax procumbens L.	,,	Proc. Herb	Yellow	Mar.-May	69030
Campanula colorata Wall.	Campanulaceae	E. Herb	Blue	Aug.-Oct.	68344
Lyonia ovalifolia (Wall.) Drude 'ANYAR'	Ericaceae	Sm. Tree	White	Aug.-Oct.	68431
Rhododendron arboreum Sm. 'BHURANS'	,,	M. Tree	Red	Feb.-Apr.	69006
Monotropa hypopithys L.	Monotropaceae	E. Succ. Saprophyte	Whitish with yellow anthers	Aug.-Sept.	68307, 68433
Monotropastrum humile (D.Don) Hara	,,	E. Succ. Saprophyte	White	July-Oct.	*s.n.*
Androsace lanuginosa Wall.	Primulaceae	Sm.E. Herb	Pink, blue or white	Aug.-Nov.	68371
Lysimachia alternifolia Wall.	,,	Decu. Sl. Herb	Yellow	Aug.-Oct.	68686
L. debilis Wall.	,,	Pros. Herb	Yellow	July-Sept.	69079
L. ferruginea Edgew.	,,	-do-	Yellow	July-Sept.	69079

Botanical name and Local name	Family	Habit	Colour of flower and fruit	Flowering & fruiting time	Collector's number
Primula denticulata Sm.		Sm. E. Herb	White or bluish white	Feb.-Apr.	69004
Myrsine africana L.	Myrsinaceae	Sh.	Not seen in flowering		*s.n.*
Jasminum officinale L. var. *grandiflorum* (L.) Kobuski 'JAI'	Oleaceae	Scandent Sh.	Whitish	Aug.-Oct.	68683
Cynanchum dalhousiae Wight	Asclepiadaceae	Sl. Herb	Yellowish white	July-Oct.	69092
Gentiana aprica Decne	Gentianaceae	Sm. E. Herb	Dull-white or bluish white	Feb.-Apr.	69001
Gentianopsis contorta Royle	Gentianaceae	Sm.E. Herb	Yellowish-white with blusih tinge	Aug.-Oct.	68305
Halena elliptica D.Don		E.Herb	Pale-blue	Sept.-Oct.	*s.n.*
Swertia tetragona Edgew. 'CHIRAITA'	Gentianaceae	T.E.Herb	White	Aug.-Oct.	68315
Cynoglossum micranthum Desf.	Boraginaceae	E.Herb	Blue	Aug.-Nov.	68362
C. wallichii G.Don	,,	E. Herb	Blue or white	Aug.-Nov.	68699
Ipomoea purpurea (L.) Roth	Convolvulaceae	Sm.E. Herb	Pinkish	Aug.-Oct.	68331
Datura stramonium L.	Solanaceae	E. Herb or Under Sh.	White	July-Sept.	*s.n.*
Nicandra physaloides (L.) Gaertn.	,,	E. Herb	Bluish-white or violet	July-Oct.	68685
N. rustica L.	,,	E. Herb	Whitish-yellow or pinkish	June-Sept.	*s.n.*
Solanum nigrum L. 'MAKOI'	,,	E.Herb	Yellow, Fr. black	July-Oct.	68665
Leptorhabados parviflora (Benth.) Benth.	Scrophulariaceae	T.E.Herb	Violet	Aug.-Oct.	68304,68340
Lindendbergia grandiflora (Buch.-Ham. ex D. Don) Benth.	,,	Herb	Yellow	Aug.-Nov.	*s.n.*
Mazus pumilus (Burm.f.) Steen.	,,	Sm. E. Herb	Light blue or white	July-Sept.	*s.n.*
M. surculosus D.Don	,,	Sm. Sl. Herb	Blue or whitish with bluish tinge	July-Sept.	69078
Pedicularis bifida (Buch.-Ham. ex D.Don) Pennell	,,	E. Herb	Bluish-violet	Aug.-Oct.	68337
Torenia cordifolia Roxb.	,,	Herb	Bluish-violet	July-Sept.	*s.n.*
Chirita bifolia D.Don	Gesneriaceae	E.Herb	Blue	July-Oct.	38615
C. pumila D.Don	,,	Sm.E. Herb	White or pale-purple	July-Oct.	42003
Corallodiscus lanuginosus (Wall. ex DC.) Burtt.	,,	Sm. E. Herb	White, Fr. brown	July-Sept.	69089
Rhynchoglossum obliquum Bl.	,,	E.Sl. Herb	Blue	Sept.-Nov.	68684
Barlaria cristata L.	Acanthaceae	E. Herb	Blue or violet	June-Oct.	*s.n.*
Dicliptera bupleuroides Nees	,,	Tufted Herb	Violet with whitish tinge	Throught the year, chiefly Mar.-Apr.	69021
Justicia procumbens L. var. *simplex* (D.Don) Yamazaki	,,	Sm. E. Herb	Violet or pink	Aug.-Oct.	6834

Botanical name and Local name	Family	Habit	Colour of flower and fruit	Flowering & fruiting time	Collector's number
Pteracanthus angustifrons (Clarke) Bremk.	,,	E. Under Sh. or Sh.	Blue	Aug.-Oct.	68316
Ajuga bracteosa Wall. ex Benth. 'NEELBARI'	Lamiaceae	Sm. E. Herb	Violet	July-Oct.	69091
Anisomeles indica (L.) O.Kuntze	,,	E. Under Sh.	Yellow with violet tips	Aug.-Oct.	68675
Cranioteme furcata (Link) O.Kuntze	,,	T.E. Herb	Dull-white	Aug.-Oct.	68424
Elsholtzia fruticosa (D.Don) Rehdar	,,	E.Under Sh.	White or yellowish	Aug.-Oct.	68311,68422
E. ciliata (Thunb.) Heyland 'BHANGJEERA'	,,	E. Under Sh.	White	July-Oct.	68672
Isodon coetsa (Buch.-Ham. ex D.Don) Kudo	Lamiaceae	T.E. Herb	Dark blue	Sept.-Nov.	68369
I. striatus (Benth.) Kudo	,,	E.Herb	White	July-Sept.	68345, 68346
Leucas lanata Benth.	,,	E.Herb	White	Aug.-Oct.	68329, 68426
Micromeria biflora Benth.	,,	Sm. tufted Herb	Blue	July-Sept.	68321
Origanum vulgare L.	,,	E. Herb	White	Aug.-Oct.	68348
Prunella vulgaris L.	,,	Proc. Herb	Bluish	July-Oct.	69082
Roylea cinerea (D.Don) Baill.	,,	Tufted under Sh,	White, tinged with pink	Aug.-Sept.	68427
Salvia lanata Roxb.	,,	Sm. E. Herb	Blue	Mar.-May	69028
S. nubicola Wall. ex Sw.	,,	E. Herb	Dull white	Aug.-Oct.	68441
Scutellaria repens Buch.-Ham. ex D.Don	,,	Uner Sh.	White or yellowish white	Mar.-May	69029
Teucrium quadrifarium Buch.-Ham. ex D.Don	,,	T.E. Herb	Dull white or violet	Sept.-Nov.	68350,68428
Nepeta leucophylla Benth.	,,	E.Herb	Pinkish	July-Oct.	*s.n.*
Plantago erosa Wall.	Plantaginaceae	Herb	Pinkish-white	July-Sept.	41445
Achyranthes aspera L.	Amaranthaceae	E.Herb	Greenish with red staminodes	Aug.-Nov.	60851
Phytolacca acinosa Roxb. 'LUNYA'	Phytolaccaceae	Stout E.Herb	Pale-green	Aug.-Sept.	68626
Polygonum capitatum Buch.-Ham. ex D.Don	Polygonaceae	Pros.Herb	Pink	Apr.-Oct.	68473
P. nepalensis Meissn.	,,	E. Herb	White	Feb.-Nov.	68318
P. tubulosum Boiss.		Pros. Herb	White	Aug.-Sept.	69070
Bistorta amplexicaule (D.Don) Greene	,,	T.E. Herb	Pink	June-Oct.	68692
Rumex hastatus D.Don 'ALMORU'	,,	E. Herb	Pink	Apr.-Oct.	60847, 68464
Persicaria polystachya (Wall. ex Meissn.) H. Gross.	,,	E. Under Sh.	Red	May-Aug.	68689
Houttuynia cordata Thunb.	Piperaceae	E. Herb	White	May-Sept.	68480
Peperomia tetraphylla (Forst.f.) Hook. & Arn.	,,	Succ. Herb	Green	Aug.-Oct.	*s.n.*
Daphne papyracea Wall. ex Steud.	Thymelaceae	Sh.	White	Feb.-June	68602

Botanical name and Local name	Family	Habit	Colour of flower and fruit	Flowering & fruiting time	Collector's number
Balanophora involucrata Hook.f.	Balanophoraceae	Parasitic Herb	Purplish-white	July-Oct.	60872
Arachne cordifolia (Dcne.) Hurusawa	Euphorbiaceae	Sh.	Green	June-Oct.	69088
Euphorbia hirta L.	,,	Decu. Herb	Purple	Jan.-Oct.	69090
E. peplus L.	,,	Sm. E. Herb	Yellowish	Apr.-Oct.	69026
E. pilosa L.	,,	T.Pr. Herb	Greenish-yellow	Apr.-Oct.	69067
Phyllanthus parvifolius Buch.-Ham. ex D.Don	,,	Sh.	Brown-purple	Jan.-Oct.	68353
Girardinia diversifolia (Link) Friis 'JYUDI KANDALI'	Urticaceae	T.E.Herb	Green	July-Oct.	68673
Lecanthus peduncularis (Wall. ex Royle) Wedd.	,,	Sm. E. Herb	Greenish, Fr. red	Aug.-Oct.	60852
L. wallichii Wedd.	Urticaceae	E. Herb	Greenish, Fr. purple	July-Oct.	68553
Pilea umbrosa Wedd. ex Bl.	,,	Sm. E. Herb	Green	July-Oct.	68567
Urtica ardens Link 'KANDALI'	,,	Pr. Herb	Greenish	Apr.-Oct.	60873
Myrica esculenta Buch.-Ham. ex D.Don 'KAPHAL'	Myricaceae	Sm. Tree	Greenish, Fr. red	Mar.-June	68556
Quercus leucotrichophora A. Camus 'BANJ'	Fagaceae	Tree	Greenish, Fr. brownish	Dec.-Mar.	68434
Q. semecarpifolia J.E. Sm.	,,	Tree	Not seen in flowering		60891
Salix lindleyana Wall. ex Anders.	Salicaceae	Sh.	Greenish	Nov.-Jan.	60893
Bulbophyllum umbellatum Lindl.	Orchidaceae	Epiphyte & Lithophyte	Cream-white	May-Oct.	60853
Cymbidium macrorhizon Lindl.	,,	Saprophyte	Pink	Aug.-Oct.	68424
Goodyera biflora Hook.f.	,,	Terr.E.Herb	Yellowish-pink	June-July	60854
Habenaria intermedia D.Don	,,	Terr.E.Herb	White or greenish white	July-Aug.	69085
H. latilabris (Lindl.) Hook.f.	,,	Terr. Sl. Herb	Green	Aug.-Sept.	69083
H. marginata Clebr.	,,	Terr.E. Herb	Greenish-yellow	Aug.-Sept.	68440
Herminium lanceum (Thunb.ex Sw.) Vuijk.	,,	Terr.E.Herb	Green	July-Oct.	68408, 69342
Liparis rostrata Reich.f.	,,	E. Herb	Yellow-green	June-Sept.	69093
Malaxis cylindrostachya (Lindl.) Kuntz.	,,	Terr.Herb	Yellow-green	June-Sept.	60874
Satyrium nepalense D.Don	,,	Terr.E.Herb	Red	July-Oct.	68407, 68336
Spiranthes sinensis (Pers.) Ames	Zingiberaceae	T. Herb	White	July-Sept.	60875
Hedychium spicatum Buch.-Ham. 'JANGAL-HALDI'	,,	T. Herb	White	July-Sept.	60975
Ophiopogon intermedius D.Don	Haemodoraceae	Sm. Herb	White	June-Nov.	69086
Hypoxis aurea Lour.	Hypoxidaceae	Sm. Pr. Herb	Yellow	July-Oct.	69076
Asparagus curillus Buch.-Ham. ex Roxb. 'JHIRNA'	Liliaceae	Under Sh.	White	July-Oct.	69072

Botanical name and Local name	Family	Habit	Colour of flower and fruit	Flowering & fruiting time	Collector's number
Gagea elegans Wall. ex D.Don	,,	Sm. Herb	Yellowish	Apr.-July	69076
Polygonatum cirrhifolium (Wall.) Royle	,,	T. Sl. Herb	White	May-July	60876
Smilax asper L. 'KUKARDARA'	Smilaceae	Cl. Sh.	White	May-Oct.	68363
Commelina benghalensis L. 'PINJAR'	Commelinaceae	Sl. Cr. Herb	Blue	Aug.-Oct.	68585
C. paludosa Bl. 'PINJAR'	,,	Sl. Cr. Herb	Bluish	Aug.-Oct.	68631
Cynotis vaga (Lour.) J.A. et J.H. Schult.	,,	Sl. Herb	Dark blue	Aug.-Oct.	68465
Juncus concinnus D.Don	Juncaceae	Pr. Herb	White	July-Oct.	60878
Arisaema tortuosum (Wall.) Schott. 'BAN MUNGARI'	Araceae	T. Herb	Pale-green	June-Oct.	60877
Gonatanthus pumilus (D.Don) Engl. & Krause	,,	Herb	Green	July-Sept.	60888
Typhonium diversifolium Wall. ex Schott.	,,	Sm.E. Herb	Greenish	Aug.-Oct.	69084
Eriocaulon nepalense Prescott ex Bong.	Eriocaulaceae	Sm.Pr. Herb	Blue	Aug.-Oct.	68731
Bulbostylis barbata (Rottlb.) Cl.	Cyperaceae	Tufted Sl.Herb	Brownish-green	Aug.-Sept.	60857
Carex foliosa D.Don	,,	E. Herb	Brownish	Apr.-May	60802
C. fusiformis Nees	,,	E. Herb	Brownish	May-June	60839
Cyperus alulatus Kern	,,	Sm. E. Herb	Greenish-yellow	Aug.-Sept.	60863
C. brevifolius (Rottb.) Hassk.		E. Herb	Greenish	Aug.-Sept.	60861
C. cyperoides (L.) Kuntz.	,,	E. Herb	Greenish	Aug.-Sept.	60858
C. metzii (Hochst. ex Steud.) O. Mattfild	,,	Tufted E. Herb	Brown-green	Aug.-Sept.	60879
C. sanguinolentus Vahl	,,	Decu.Herb	Brown	Aug.-Sept.	60862
Fimbristylis dichotoma (L.) Vahl	,,	Tufted Herb	Brown	May-Aug.	60870
Scirpus squarrosus L.	,,	Sl. Herb	Brown	Aug.-Sept.	60887
Agrostis pilosa Trin.	Poaceae (Gramineae)	Sl. E. Herb	Green	Aug.-Sept.	60859
Andropogon munroi Cl. 'MUSLYA'	,,	T.E.Pr. Herb	Green	Aug.-Sept.	60860
Apluda mutica L. 'TACHLU'	,,	Pr. Herb	Brownish-green	July-Oct.	60864
Arthraxon lancifolius (Trin.) Hochst.	,,	E. Herb	Greenish-purple	Sept.-Oct.	60865
Arundinella setosa Trin.	,,	Sl. Herb	Greenish	Sept.-Oct.	60868
Bothriochloa pertusa (L.) A. Camus	,,	Sl. Herb	Purple	Sept.-Oct.	60889
Brachiaria villosa (Lam.) A. Camus	,,	E. Herb	Greenish	Aug.-Sept.	60886
Chrysopogon serrulatus Trin.	,,	Sl. E. Herb	Purple	Sept.-Oct.	60885
Cymbopogon distans (Nees ex Steud.) W. Wats	,,	T. Pr. Herb	Brown	Sept.-Oct.	60866

Botanical name and Local name	Family	Habit	Colour of flower and fruit	Flowering & fruiting time	Collector's number
C. jawarancusa (Jones) Schultes	Poaceae (Gramineae)	Sl. E. Herb	Greenish-white	Feb.-Oct.	69039
Digitaria ciliaris (Retz.) Koeler	Poaceae	Decu. Herb	Greenish	Aug.-Sept.	60869
Eragrostis tenella (L.) Beauv. ex Roem. et Schult.	,,	Sl. Herb	Greenish	Aug.-Dec.	69099
Festuca gigantea (L.) Vill.	,,	Pr. Herb	Pale-green	Sept.-Oct.	60884
Imperata cylindrica (L.) Beauv.	,,	Pr. Herb	Silky-white	Mar.-Apr.	60882
Oplismenus burmanii (Retz.) P. Beauv.	,,	Pros. or Decu. Herb	Green with pale awns	Aug.-Oct.	60867
O. compositus (L.) P. Beauv.	,,	Proc. Herb	Green with reddish awns	Aug.-Oct.	68325
Paspalidium flavidum (Retz.) A. Camus	,,	T. Decu. Herb	Green	Aug.-Sept.	60881
Perotis latifolia Nees	,,	T.E. Herb	Greenish	Aug.-Sept.	68472
Poa annua L.	,,	Sl. Herb	Green	July-Sept.	60883
Polypogon fugax Nees ex Steud.	,,	Herb	Green	May-Sept.	60880
Setaria glauca (L.) P. Beauv.	,,	T.Sl.E. Herb	Greenish-yellow	Aug.-Nov.	69100
Saccharum spontaneum L.	,,	T.Pr.E. Herb	Reddish or purple	July-Oct.	60890
Tripogon filiformis Nees ex Steud.	,,	E. Herb	Greenish	Aug.-Sept.	60892

Table 2 : Gymnosperms of the garden

Botanical name and Local name	Family	Habit	Colour of cones	Flowering and fruiting time
Cupressus torulosa D.Don 'SURAHI'	Cupressaceae	Large evergreen tree	Brown	Apr.-Sept.
Cedrus deodara (Royle ex D.Don) G. Don 'DEODAR'	Pinaceae	-do-	Yellowish brown	Aug.-Nov.
Pinus roxburghii Sargent 'CHEER'	,,	-do-	Brown	Jan.-June
P. wallichiana Jacks 'KAIL'	,,	-do-	Brown	Sept.-Nov.

Abbreviation used : Ar. Armed, Cl. - Climber or climbing, Cr. Creeping, D. Deciduous, Decu. Decumbent. E - Erect, L Large, M - Medium-sized, Proc.-Procumbent, Pros.- Prostrate, Pr.-Perennial, Sc. Scandent, Sh. Shrub, Sl. - Slender, Sm. Small, Sp. - Spreading, Str. - Straggling, Succ. - Succulent, T. - Tall, Tr. - Trailing, Terr. - Terrestrial, Tw. - Twining.

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