

A Catalogue of The Higher Plants of The Adhwani Temperate Forest and Its Fringe Areas (Western Himalaya, India)

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Abstract

The present study deals with the floristic inventory of higher plants (angiosperms and gymnosperms) found in a richly biodiverse temperate forest area (Adhwani forest; 30°06'1"–30°06'7" N and 78°72'3"–78°72'6" E; 1700–2200 m asl (above sea level) in western Himalaya, India. A total of 477 species of flowering plants belonging to 105 families and 315 genera were recorded in the Adhwani forest and its fringe areas. The information on plant life form, flowering and fruiting, local elevational distribution, indigenous uses and availability status are provided. An account of the invasive and alien species occurring in the area is also provided. *Gentiana cephalodes* Edgew. (Gentianaceae) and *Buddleja crispa* Benth. (Buddlejaceae) are revealed as new distribution recordings among the flora of Garhwal district. Asteraceae (47 species and 33 genera) was the dominant family followed by Fabaceae, Poaceae, Lamiaceae, Rosaceae and Ranunculaceae. *Desmodium* (9 species) was a dominant genus in the study area followed by *Crotolaria*, *Cyperus* and *Euphorbia* (6 species each). The herbs dominate the life forms of the area with 317 species (66.45%) followed by shrubs (14.46%), trees (12.99%) and climbers (6.07%). The flora of the area represents three IUCN index species viz. *Quercus lamellosa* (NT), *Quercus oblongata* (NT) and *Ulmus wallichiana* (VU) and 57 invasive and alien species. The presented catalogue with comprehensive information on of higher plants will be helpful to the plant scientists, planners and forest department when for developing and managing this richly biodiverse forest area.

Keywords: Himalayan forests; Uttarakhand; Phytodiversity; Invasive plants; Indigenous uses.

Introduction

Uttarakhand, a great repository of flora and fauna, represents the western Himalayan landscape of the Indian Himalaya mountains. It has unique topographic features and a wide elevational range with roughly 70% forest cover. The forest area of the state can be categorized as very dense forest (5046.76 km²), moderately dense forest (12,805.24 km²) and open forest (6,451.04 km²) on the basis of forest canopy density [1]. The state's forest vegetation extends from tropical dry deciduous forests in the foothills to dry temperate forests at the timber line and alpine meadows up to the snow line. The temperate forests of the region consist of oak forests, moist deodar forests, mixed coniferous forests, blue pine forests, fir forests, rhododendron forests, chir-pine forests, and so on. The most common coniferous species in the temperate forests are silver fir (*Abies pindrow*), blue pine (*Pinus wallichiana*), Himalayan cedar (*Cedrus deodara*), Himalayan cypress (*Cupressus torulosa*), spruce (*Picea smithiana*), Himalayan yew (*Taxus wallichiana*) and chir-pine (*Pinus roxburghii*). In the Indian Himalayas,

forests in the vicinity of human settlements play an important role in the lives and livelihood of the local people. They depend on the nearby forest in the vicinity for basic needs such as fodder, fuel wood, timber, and medicines making a part of area's livelihood and economy [2]. The extraction of natural resources from these forests often leads to forest degradation.

Botanical exploration in the state accelerated after the establishment of Botanical Garden in Saharanpur (in 1887) and the Forest Research Institute in Dehradun (in 1906). Various workers have contributed valuable information on the flora of the Uttarakhand for many years [3-13]. The state is home to about 4,700 species of flowering plants and embodies more than one-fourth of the total vegetation found in India [14]. A floristic survey to document the native floral elements is one of the important steps towards the biodiversity assessment of any region. The thorough collection, identification and documentation of plants from any ecoregion is an essential step in evaluating the total wealth of biodiversity at the

regional scale [15]. Floristic checklist is the baseline information for the executive's specialists to give due significance to its environmental abundance while arranging any advancement in future [16]. Comprehensive and updated floristic checklist help researchers, policy makers, naturalists and forest personnel to understanding the vegetation of a particular area and to carry out management activities.

The invasive and alien species assume a urgent part in the destruction of regional flora of a region and are likewise profoundly widespread in the valleys of Garhwal Himalaya [17-18]. Invasive and alien species causes changes in floristic composition and required appropriate checking [13]. Although many taxonomic inventories exist for Garhwal Himalaya but adwani forest area is still unexplored. In this context, the present work serves as base line information regarding local name, flowering and fruiting phenology, elevational distribution, availability status and utility of the plant wealth of this mountainous region and can provide vital responses for conservation and bioprospecting. The study is hypothesized for the following objectives. 1.) To prepare a catalogue of the flowering plants (angiosperms and gymnosperms). 2.) To collect the information on local name. 3.) To collect the information on flowering and fruiting phenology, elevational distribution, availability status. 4.) To collect the information on utility values of the plants in the area (the Adhwani forest) with the help of fresh plant samples and photographs.

Materials and Methods

Study Area

The present study was carried out in a temperate forest (Adhwani forest) of Garhwal Himalaya, Uttarakhand, India. It is found between 30°06'1"–30°06'7" N and 78°72'3" –78°72'6" E with an elevation range of 1700–2200 m asl (above sea level) (Figure. 1). The name of 'Adwani' forest is gotten from the 'Adheshwar Mahadev Temple' (Lord Shiva Temple) which is situated in the mid forest and is a significant predetermination for tourists and devotees nearby [19]. The climatic conditions of the Adhwani forest are characterized by cold winters and pleasant summers with an annual temperature range between 3°C and 29°C and annual rainfall between 100 cm and 150 cm. May and June are the most sizzling season as greatest temperature goes up to 35°C. The rankling environment starts at the end of March and continues till monsoon. The precipitation happens principally during June-September and outrageous precipitation typically happens in July. The colder climate of year starts from October and continues till the end of February. The snowfall is of ordinary occasion during December and January, the coldest months of the period [19].

The soil was acidic to somewhat basic in nature and pale brown to brownish in colour. The area is overwhelmingly covered by enormous coniferous tree (*Pinus roxburghii* Sarg.) at the lower elevation and in the fringe while broadleaved species (*Quercus oblongata* D. Don, *Rhododendron arboreum* Sm. and so forth) are more profound toward the deeper and ridge-top stands. The area is encircled by numerous villages including Kathood, Thapli, Kaljikhhal, Manjakot and Pokhri. The occupants of these villages are dependent on this forest for various requirements especially medicine, fodder and timber resources. A road (Danda Nagraja Road) additionally goes through the forest.

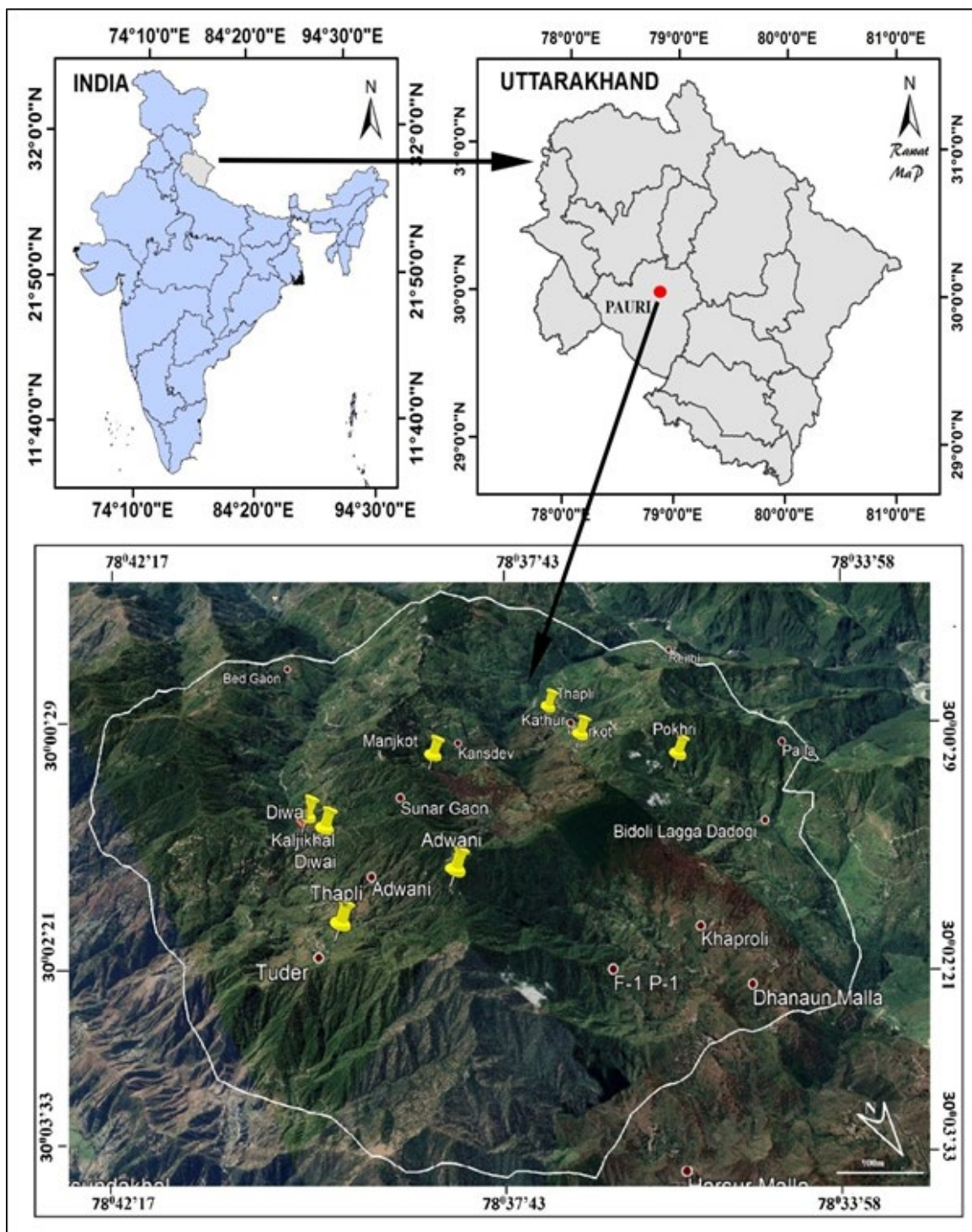


Figure 1: Map of the study area.

Methodology

Extensive field surveys were conducted in different localities (i.e. road sides, village edges, stream sides) of the Adhwani forest area between 2017 and 2020 to assess the floristic diversity of higher plants (gymnosperms and angiosperms). The plant specimens were collected, pressed, dried and identified with the help of regional floras [20-22] and Herbaria (Garhwal University Harbar-

ium (GUH), Botanical survey of India, Northern Circle Centre, Dehradun (BSD). Information about specimens' local names, life form, fruiting and flowering period, elevational distributions and availability status were gathered during the field surveys.

Data about local names was gathered from local people of the area in Garhwali tongue. Life forms, fruiting and flowering is recorded

in the occasional field visits. The distribution range in terms of elevation (m) has been reported for each species in the area. The availability status (i.e. common, uncommon or rare) of each species was determined on the basis of field observations following earlier studies [15, 23]. “Common” status was given to the species that grow abundantly in the area, “uncommon” status represented the species occurring only in patches or scattered forms, and “rare” status was used to describe those species that were recorded as the only specimen or with only few individuals in the area. Information on local uses of plants was collected from local peoples from the area including local healers, vaidyas (traditional medical practitioners), older men and women in local dialect (Garhwali). Primary data sources [24-28] were used in the identification of invasive and alien plants. Plants were classified according to Bentham and Hooker’s system of classification and taxonomical categories (genera and species) within the family were arranged alphabetically [15]. IUCN online data-base (<https://www.iucnredlist.org>) [29] as used for the identification of IUCN redlisted plants. Only one recently accepted name of each taxa is given here (excluding synonyms) following online plant databases of the plants list (<http://www.theplantlist.org/>) [30], international plant names index (<https://www.ipni.org/>) [31], tropicos data base (<https://www.tropicos.org/home>) [32].

Results and Discussion

A total of 477 plant species (473 angiosperms and 4 gymnosperms) having place with 105 families (103 angiosperms and 2 gymnosperms) and 315 genera (312 angiosperms and 3 gymnosperms) were recorded from the study area (Appendix 1). Dicotyledons were addressed by 408 species, 263 genera and 94 families,

while monocotyledons by 65 species, 49 genera and 9 families. The occurrence 477 plant species (higher plants) in single temperate forest area (Adhwani forest) suggests that the Adhwani forest has supported exceptionally rich plant diversity. Nonetheless, anthropogenic pressure may threaten the diversity of the area. The habitat degradation, over grazing, forest fire and over exploitation can cause forest degradation later on.

Among the 10 predominant families revealed in the review region as far as species wealth were Asteraceae (47, 9.81%), trailed by Fabaceae (36, 7.51 %), Poaceae (33, 6.89%), Rosaceae (18 (3.76%), Ranunculaceae (12, 2.51%), Cyperaceae (10, 2.09%), and Gentianaceae, Solanaceae and Urticaceae (9, 1.88% each). Suyal et al., [16]; Gairola et al., [2] and Sharma et al., [33] also reported similar kind of pattern for predominant families for adjoining region of the study area. (Table.1). Desmodium (9 species) was found as predominant genera in the study area followed by Croton, Cyperus and Euphorbia (6 species each), Ficus, Polygala and Swertia (5 Species each), Clematis, Gentiana, and Rubus (4 species each), Anaphalis, Androsace, Berberis, Cornus, Persicaria, Rumex, Salix, Tagetes and Viola (3 species each). Herbs overwhelm the life forms in the studied region with 317 species (66.45%) (Figure. 2) followed by shrubs 69 species (14.46%), trees 62 species (12.99%) and climbers with 29 species (6.07%). The findings are concurred earlier studies from nearby areas. Gairola et al., [2], Sharma et al., [33], Rawat et al., [15] likewise revealed Asteraceae, Fabaceae and Rosaceae as the prevailing families and herbs are more dominant in comparison to other life form in the adjoining area.

Table 1. Dominant families of the study area

Families	Species %	Genera %
Asteraceae	9.81	10.12
Fabaceae	7.51	5.52
Poaceae	6.89	8.28
Lamiaceae	6.26	6.13
Rosaceae	3.76	3.68
Ranunculaceae	2.51	1.54
Cyperaceae	2.09	1.53
Gentianaceae	1.88	0.93
Rubiaceae	1.88	2.15
Solanaceae	1.88	1.53

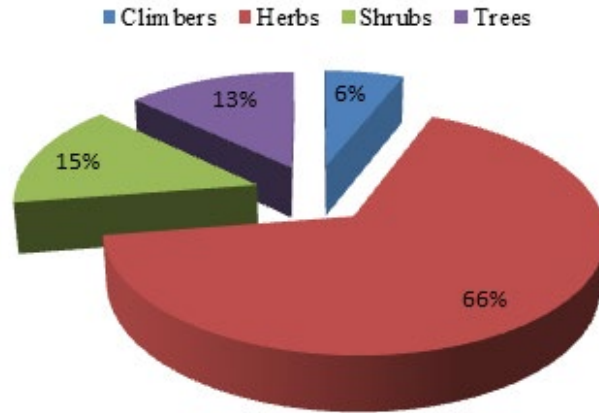


Figure 2: Species percentage according to different life forms in Adwani forest area.

According to indigenous uses maximum 296 species are utilized as medicinal, trailed by fodder species (151 species), and edible species (37 species). *Asparagus adscendens*, *Barlaria cristata*, *Begonia picta*, *Phyllanthus emblica*, *Thalictrum foliolosum*, *Tinospora sinensis*, *Valerina jatamansi* and *Zanthoxylum armatum* are a portion of commonly involved medicinal plants nearby. Common wild edible resources were *Cornus capitata*, *Myrica esculenta*, *Rhododendron arboreum*, *Rubus ellipticus* and *Rubus paniculatus*, while *Cannabis sativa*, *Daphne papyracea* and *Grewia optiva* were commonly used fiber assets nearby. *Euonymous echinatus*, *Quercus spp.*, *Ulmus wallichiana*, *Toona serrata* were used as fodder resources, *Boehmeria rugulosa*, *Pinus spp.*, *Toona serrata* and *Salix spp.* as timber (Appendix 1).

The flora of the study region addressed three IUCN index species

viz. *Quercus lamellosa* (NT), *Quercus oblongata* (NT), *Ulmus wallichiana* (VU) and 57 invasive and alien species were accounted from the area. Larger part of the invasive and alien species belongs to family Asteraceae (09 species), Cyperaceae and Solanaceae (Appendix 1). *Ageratum conyzoides*, *Bidens pilosa*, *Lantana camara* and *Oxalis latifolia* were some invasive and alien species of the study area. Rawat et al., [26], Khanduri et al., [27] likewise revealed that Asteraceae and Solanaceae among the top families with invasive and alien species.

Greater part of the species 408 (85.17%) were of 'common' occurrence while 41 (8.55%) 'uncommon' and 30 (6.26%) 'rare' (Figure. 3). Rare occurrence status was observed for *Astilbe rivularis*, *Fraxinus micrantha*, *Polygala tatarinowii*, *Sorbus acuparia*, *Swertia cordata* and *Ulmus wallichiana*, and so on.

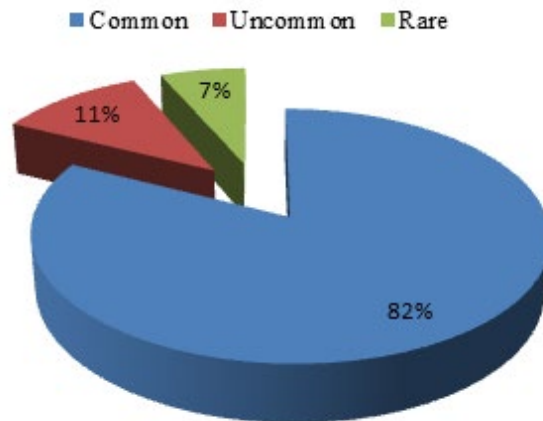


Figure 3: Occurance percentage of plants in Adwani forest area.



Figure 4: A&B. Far view of forest C. Pine dominated forest type D. Oak dominated forest type E. Road going through forest F. Centre of the forest adwani temple entry gate G. Woman carrying fuel wood H. Livestock grazing in the forest.



Figure 5: (A). *Papavur dubium*. (B). *Parochetus communis* (C). *Berberis lycium* (D). *Swertia angustifolia* (E). *Rhynchosia rothii* (G). *Pedicularis bifida* (H). *Gentiana cephalodes* (I). *Flemingia strobilifera* (J). *Prunus cerasoides* (K). *Dipsacus inermis* (L). *Euonymus pendulus*

Conclusion

It is the first checklist of the flowering plants of Adwani forest of western Himalaya. Adwani forest has rich plant diversity with amazingly high significance as medicine, fodder, fiber, timber, wild edible and so forth. The impromptu utilization of forest resources and territory debasement due to anthropogenic activities

is threatening diversity in this forest area. This study has given far reaching data on altitudinal distribution of higher plants in Adwani forest which will be helpful to the plant researchers, organizers and particularly to the state forest department for developing strategies and action plans for creating procedures and activity plans for the administration of this biodiversity rich forests. Forest product:

timber non-timber can additionally upgrade the provincial work of the adjoining villages with maintainable utilization of forests. Forest based small industries i.e. bee-keeping, furniture industry, dairy, wild fruit and flowers processing centre possibly have potential to control the migration of neighborhood residents. Forest resources are abundantly present inside the forests which are financially practical and which have high potential for the monetary improvement of the adjacent villages as well as the state.

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References

- FSI. (2019). India state of forest report. Forest Survey of India.
- Gairola, S., Sharma, C. M., Rana, C. S., Ghildiyal, S. K., & Suyal, S. (2010). Phytodiversity (Angiosperms and Gymnosperms) in Mandal-Chopta forest of Garhwal Himalaya, Uttarakhand, India. *Nature and Science*, 8(1), 1-17.
- Rau, M. A. (1975). High altitude flowering plants of West Himalaya.
- Polunin, O., & Stainton, A. (1984). *Flowers of the Himalaya*. Oxford University Press.
- Hajra, P. K., & Rao, R. R. (1990). Distribution of vegetation types in northwest Himalaya with brief remarks on phytogeography and floral resource conservation. *Proceedings: Plant Sciences*, 100, 263-277.
- Gaur, R. D., Rawat, D. S., & Dangwal, L. R. (1993). Status of some vulnerable plant species from Garhwal Himalaya. *Himalayan Biodiversity: Conservation Strategies*. Kosi Almora: GB Pant Institute of Himalayan Environment and Development, 191-204.
- Rawat, G. S. (1994). Protected areas and conservation of rare endemic plants in the Himalaya. *High Altitudes of Himalaya*. Gyanodaya Prakashan, Nainital, 89-101.
- Samant, S. S., & Dhar, U. (1997). Diversity, endemism and economic potential of wild edible plants of Indian Himalaya. *The International Journal of Sustainable Development & World Ecology*, 4(3), 179-191.
- Rawat, D. S., Bhandari, B. S., & Gaur, R. D. (2001). Vegetation Wealth of Garhwal Himalaya. *Himalaya: Nature, Culture and Society*, Transmedia, Srinagar Garhwal, 69-92.
- Kala, C. P. (2007). Local preferences of ethnobotanical species in the Indian Himalaya: Implications for environmental conservation. *Current science*, 1828-1834.
- Srivastav, M., Kumar, A., & Hussain, T. (2015). Diversity of angiospermic plants in Dhanaulti Region, Uttarakhand: an emerging tourist destination in Western Himalaya. *Check List*, 11(4), 1702-1702.
- Adhikari, B., Kumar, A., Mitra, M., & Rawat, G. (2016). Flora of Niti valley: a cold arid region of Nanda Devi Biosphere reserve, Western Himalaya, India. *Check list*, 12(1), 1-16.
- Monika, B., Sekar, K. C., Rajni, K., Kumar, A., Paramjit, S., & Dhani, A. (2018). Floristic diversity in Valley of Flowers National Park, Indian Himalayas. *Phytotaxa*, 379(1), 1-26.
- Uniyal, B. P. (2007). Flowering plants of Uttarakhand. Bishen Singh Mahendra Pal Singh.
- Rawat, D. S., Tiwari, J. K., Tiwari, P., & Singh, H. (2016). Floristic diversity of montane zone of western Ramganga valley, Uttarakhand, India. *J. Econ. Taxon. Bot.*, 40(3-4), 104-125.
- Suyal, S., Sharma, C. M., Gairola, S., Ghildiyal, S. K., Rana, C. S., & Butola, D. S. (2010). Phytodiversity (angiosperms and gymnosperms) in Chaurangikhal forest of Garhwal Himalaya, Uttarakhand, India. *Indian Journal of Science and Technology*, 3(3), 267-275.
- Joshi, S. K., & Sanjay, G. (2003). *Cuscuta europaea* Linn. (Dodder plant): an emerging threat to plant diversity of Valley of Flowers. *Current Science*, 84(10), 1285-1286.
- Negi, V. S., Giri, L., & Sekar, K. C. (2018). Floristic diversity, community composition and structure in Nanda Devi National Park after prohibition of human activities, Western Himalaya, India. *Current Science*, 115(6), 1056-1064.
- Singh, N., Tiwari, P., Bagri, A. S., Rawat, V., Rautela, B., & Rawat, D. S. (2021). Pattern of forest resource utilization in some villages of Pauri Garhwal, Uttarakhand, India. *Journal of Mountain Research*, 16(3), 279-289.
- Gaur, R. D. (1999). *Flora of the District Garhwal, North West Himalaya*. Transmedia.
- Naithani, B. D. (1984). *Flora of Chamoli*, Botanical Survey of India.
- Pusalkar, P. K., & Srivastava, S. K. (2018). *Flora of Uttarakhand: Gymnosperms and Angiosperms (Ranunculaceae-Moringaceae)*. Botanical Survey of India.
- Radha, B., Singh, R. D., Tiwari, J. K., Tiwari, P., & Gairola, A. (2013). Wild edible plant resources of the Lohba range of Kedarnath forest division (KFD), Garhwal Himalaya, India. *Int. Res. J. Biol. Sci.*, 2(11), 65-73.
- K Chandra, S. (2012). Invasive alien plants of Indian Himalayan region—diversity and implication. *American Journal of Plant Sciences*, 2012.
- Chandra Sekar, K., Manikandan, R., & Srivastava, S. K. (2012). Invasive alien plants of Uttarakhand Himalaya. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, 82, 375-383.
- Rawat, D. S., Tiwari, J. K., & Tiwari, P. (2016). Invasive alien flora of western Ramganga Valley, Uttarakhand. *Phytotaxonomy*, 16, 111-114.
- Khanduri, A., Biswas, S., & Vasistha, H. B. (2017). Forest invasive species assessment study in different village forests of Garhwal Himalaya. *International Journal of Current Research and Review*, 9(17), 8-18.
- Arora, S., & Davey, A. (2018). Inventory of the wooden alien flora of Uttarakhand Himalayas—A review. *Proceedings*

- of the Himalayan Researchers Consortium, 1(1).
 29. <https://www.iucnredlist.org> (assessed on 29 Dec 2020).
 30. <http://www.theplantlist.org> (assessed on 29 Dec 2020).
 31. <https://www.ipni.org> (assessed on 29 Dec 2020).

32. <https://www.tropicos.org/home>. (assessed on 29 Dec 2020).
 33. Ghildiyal, S. K., & Gairola, S. (2013). Phytodiversity along an altitudinal gradient in Dudhatoli forest of Garhwal Himalaya, Uttarakhand, India. *Int J Med Arom Plants*, 3(4), 439-51.

Appendix 1:

Checklist of higher plants (angiosperms and gymnosperms) of Adwani forest area of Pauri Garhwal, Uttarakhand.

Family/ Species	Vernacular Name	LF	Fl-Fr	ER	IU	AS
Acanthaceae						
<i>Barleria cristata</i> L.	<i>Kala-bansa</i>	H	Sept-Dec	1700-1900	Fd, Md	Co
<i>Dicliptera bupleuroides</i> Nees	<i>Kuthhi</i>	H	Jan-Dec	2000-2200	Fd, Md	Co
<i>Dicliptera chinensis</i> (L.) Juss.	-	H	Nov-Feb	1700-2200	Fd, Md	Co
* <i>Peristrophe paniculata</i> (Forssk) Brumitt	<i>Kaknadi</i>	H	Jul-Nov	1700-1800	Fd, Md	Co
<i>Pteracanthus angustifrons</i> (C.B. Clarke) Bremek	<i>Pathora</i>	H	Aug-Jan	1700-2200	-	Co
<i>Strobilanthus atropurpureus</i> Nees	<i>Kangdai</i>	H	Jan-Aug	1700-2200	-	Un
<i>Strobilanthus pentstemonoides</i> Nees	-	H	Aug-Oct	1700-2200	Fd	Co
Amaranthaceae						
* <i>Achyranthes aspera</i> L.	<i>Lachkura</i>	H	Mar-Dec	1700-2200	Md	Co
<i>Achyranthes bidentata</i> Blume	<i>Lich-kuri</i>	H	Aug-Dec	1700-2200	Md	Co
<i>Cyathula capitata</i> Moq.	<i>Bada-lachkura</i>	S	Aug-Nov	1700-2200	Fd, Md	Co
<i>Cyathula tomentosa</i> (Roth) Moq.	<i>Lachkura</i>	S	Jul-Nov	1700-2000	Fd, Md	Co
Anacardiaceae						
<i>Cotinus coggygria</i> Scop.	<i>Jal-tunglu</i>	S	Jun-Nov	1700-2200	Fd, Tm	Co
<i>Picrasma quassioides</i> (D. Don) Benn.	-	T	May-Oct	2000-2200	Fd, Tm	Un
<i>Rhus parviflora</i> Roxb.	<i>Tunglu</i>	S	May-Oct	1700-2200	Ed, Fd, Tm	Co
Apiaceae						
<i>Bupleurum falcatum</i> L.	-	H	Jun-Oct	1700-2200	Md	Co
<i>Bupleurum gracillimum</i> Klotzsch	-	H	Jul-Nov	2000-2200	Md	Un
* <i>Bupleurum hamiltonii</i> N.P. Balakr.	<i>Jangli-jeera</i>	H	Jul-Nov	1700-2000	Fd, Md	Co
<i>Bupleurum lanceolatum</i> Wall. ex DC.	-	H	Jul-Sept	1700-2200	Fd	Un
<i>Pimpinella acuminata</i> (Edgew.) C.B. Clarke	<i>Raulee</i>	H	Jul-Oct	1700-2000	Md	Co
<i>Pimpinella diversifolia</i> DC.	<i>Phoree</i>	H	Jul-Oct	1700-2200	Md	Co
* <i>Selinum candollii</i> DC.	<i>Bhutkeshi</i>	H	Aug-Oct	1800-2200	Md	Co
Aquifoliaceae						
<i>Ilex dipyrena</i> Wall.	<i>Kanel</i>	T	Mar-Oct	1700-2200	Wd	Co
Araceae						
<i>Ariseama intermedium</i> Blume	<i>Meen</i>	H	May-Aug	1700-2200	Md	Co
<i>Ariseama jacquemontii</i> Blume	<i>Khaprya</i>	H	May-Sept	1700-2000	Md	Un
<i>Remusatia vivipara</i> (Roxb.) Schott	-	H	Apr-May	1700-2200	-	Ra
Araliaceae						
<i>Hedera nepalensis</i> K. Koch	<i>Laguli</i>	C	Sep-Aug	1700-2200	Md	Co
Asclepiadaceae						
<i>Periploca calophylla</i> (Wight) Falc.	<i>Parh</i>	C	Jul-Nov	1700-1800	Md	Un

<i>Telosma pallida</i> (Roxb.) Craib	<i>Surkillia</i>	C	Jun-Nov	1700-1800	Fd, Md	Un
Asteraceae						
<i>Achillea millefolium</i> L.	<i>Gandrain</i>	H	May-Oct	1700-2200	Md	Un
<i>Adenostemma lavenia</i> (L.) Kuntze	-	H	Apr-Sept	1700-1800	-	Co
* <i>Ageratum conyzoides</i> L.	<i>Gundrya</i>	H	Jan-Dec	1700-1800	Fd, Md	Co
<i>Ainsliaea aptera</i> DC.	<i>Khad-jari</i>	H	Mar-Oct	1700-2200	Md	Co
* <i>Anaphalis busua</i> (Buch.Ham.) DC.	<i>Buglya</i>	H	Jan-Dec	1700-2200	Fd, Md	Co
<i>Anaphalis margaritacea</i> (L.) Benth	<i>Bugliya</i>	H	Aug-Dec	1700-1900	Fbr, Md	Co
<i>Anaphalis triplinervis</i> (Sims) Sims ex C.B. Clarke	<i>Buglya</i>	H	Aug-Oct	2000-2200	Md	Co
<i>Artemisia nilagirica</i> (C.B. Clarke) Pamp.	<i>Kunja</i>	H	Jul-Dec	1700-1900	Fd, Md	Co
<i>Artemisia roxburghiana</i> Wall. ex Bess.	<i>Kunjaa</i>	H	Spt-Nov	1700-1800	Fd, Md	Co
<i>Aster albescens</i> (DC.) Hand-Mazz.	-	H	Aug-Oct	1700-2200	-	Un
<i>Aster molliusculus</i> (Lindl. ex DC.) C.B. Clarke	-	H	Mar-Aug	1700-2000	-	Co
<i>Bidens biternata</i> (Lour.) Merr. & Sherff.	-	H	Feb-Jul	1700-2000	Md	Co
* <i>Bidens pilosa</i> L.	<i>Magan-kura</i>	H	Mar-Aug	1700-2000	Fd, Md	Co
<i>Bidens tripartita</i> L.	<i>Kumur</i>	H	Feb-Jul	1700-2200	Fd, Md	Un
* <i>Blumea lacera</i> (Burm.f.) DC.	-	H	Jan-Dec	1700-1900	Fd, Md	Co
<i>Carpesium abrotanoides</i> L.	-	H	Aug-Nov	1900-2100	Md	Un
<i>Carpesium nepalense</i> Less.	-	H	Aug-Nov	1700-2000	Md	Un
* <i>Chromolaena odorata</i> L.	<i>Bhansya-khaud</i>	H	Oct-Mar	1700-1900	Fd, Md	Co
<i>Cicerbita macrorhiza</i> (Royle) G. Beauv.	-	H	Aug-Oct	1700-2200	-	Un
<i>Cirsium verutum</i> (D. Don) Spreng.	<i>Kandara</i>	H	Aug-Dec	1700-2000	Ed, Md	Co
<i>Cirsium wallichii</i> DC.	<i>Kandara</i>	H	Jul-Nov	1700-2200	Ed, Md	Co
<i>Conyza leucantha</i> (D. Don) Ludlow & Raven	-	H	Mar-Sept	1700-2000	-	Co
<i>Dichrocephala integrifolia</i> (L. f.) Kuntze	-	H	Mar-Oct	1700-2200	Fd	Co
<i>Echinops cornigerus</i> DC.	<i>Kantela</i>	H	Jul-Oct	1700-2000	Md	Co
<i>Echinops niveus</i> Wallich ex Royle	<i>Jangli-supari</i>	H	Aug-Nov	1700-2000	Md	Co
<i>Erigeron annuus</i> (L.) Pers.	-	H	Apr-Nov	1700-2000	Md	Un
<i>Erigeron bonariensis</i> L.	-	H	Feb-Sept	1700-2000	-	Co
<i>Erigeron karvinskianus</i> DC.	-	H	Jan-Dec	1700-2200	-	Co
* <i>Galinsoga parviflora</i> Cav.	<i>Marchya</i>	H	Apr-Oct	1700-2000	Fd, Md	Co
* <i>Gerbera gossypina</i> (Royle) Beauv.	<i>Kapasee</i>	H	Mar-Aug	1700-2200	Fbr, Fd, Md	Co
<i>Gochnatia spectabilis</i> (D. Don) Less	<i>Pandwa</i>	S	Mar-Jun	1700-1800	Fd	Un
<i>Himalaiella heteromalla</i> (D. Don) Raab Straube	-	H	Mar-Sept	1700-2000	Md	Co
<i>Inula cappa</i> (Buch. - Ham. ex D. Don) DC.	-	H	Jul-Sept	2000-2200	Md	Co
<i>Lactuca dissecta</i> D. Don	-	H	Apr-Sept	2000-2200	-	Co
<i>Launaea acaulis</i> (Roxb.) Babcock ex Kerr	<i>Dudhliya</i>	H	Feb-Jun	1700-1800	Md	Co
<i>Prenanthes brunoniana</i> Wallich ex DC.	-	H	Aug-Nov	2000-2200	Fd, Md	Un
<i>Siegesbeckia orientalis</i> L.	<i>Liskura</i>	H	Jul-Nov	1700-2000	Md	Co
* <i>Sonchus asper</i> (L.) Hill	<i>Pili-dudhi</i>	H	Mar-Sept	1700-2200	Md	Co
<i>Symphyotrichum ericoides</i> (L.) G.L. Nesom	-	H	Mar-Aug	1700-2200	Md	Un
<i>Tagetes minuta</i> L.	-	H	Sept-Dec	1700-2000	-	Co
<i>Tagetes patula</i> L.	-	H	Sept-Dec	1700-2200	Md, Or	Co

<i>Tragopogon gracilis</i> D. Don	-	H	Mar-Nov	1700-2000	Md	Co
<i>Taraxacum officinale</i> Weber	<i>Karatu</i>	H	Feb-Oct	1700-2000	Md	Co
* <i>Tridax procumbens</i> L.	<i>Kumra</i>	H	Jan-Dec	1700-1900	Md	Co
<i>Vernonia cinerea</i> (L.) Lessing	<i>Kaljiri</i>	H	Jan-Dec	1700-2000	Md	Co
* <i>Youngia japonica</i> (L.) DC.	-	H	Jan-Dec	1700-1800	-	Co
Balsaminaceae						
* <i>Impatiens balsamina</i> L.	<i>Bheelmodi</i>	H	Jul-Oct	1700-1800	Md	Co
<i>Impatiens scabrifida</i> DC.	<i>Ban-til</i>	H	Aug-Oct	1700-2200	Md	Co
Begoniaceae						
<i>Begonia picta</i> Sm.	<i>Patharchatta</i>	H	Jul-Oct	1700-2200	Md	Co
Berberidaceae						
<i>Berberis aristata</i> DC.	<i>Kingor</i>	S	Mar-Jul	1800-2200	Ed, Fd, Md	Co
<i>Berberis asiatica</i> Roxb. ex DC.	<i>Kilmora</i>	S	Apr-Aug	1700-2000	Ed, Fd, Md	Co
<i>Berberis lycium</i> Royle	<i>Kingor</i>	S	Apr-Sept	1700-2000	Ed, Fd, Md	Co
Betulaceae						
<i>Betula alnoides</i> Buch.Ham. ex D. Don	<i>Saur</i>	T	Mar-Jun	2000-2200	Fd, Tm	Co
Boraginaceae						
<i>Cynoglossum lanceolatum</i> Forrsk,	<i>Lichkura</i>	H	Jul-Oct	1700-2200	Md	Co
<i>Cynoglossum zeylanicum</i> (Lehm.) Brand	-	H	July-Oct	2000-2200	Md	Co
Brassicaceae						
<i>Capsella-bursa-pastoris</i> (L.) Medik.	<i>Tuntkya</i>	H	Feb-Oct	1700-1800	Md	Co
<i>Lepidium pinnatifidum</i> Ledebour	-	H	Feb-Jun	1700-1800	-	Co
<i>Lepidium virginicum</i> L.	-	H	Mar-Jul	1700-1900	-	Co
Buddlejaceae						
<i>Buddleja asiatica</i> Lour.	<i>Bhati</i>	S	Dec-Jul	1700-2000	Md	Co
<i>Buddleja paniculata</i> Wall.	<i>Phurpattia</i>	S	Jan- Aug	2000-2200	Md	Co
<i>Buddleja crispa</i> Benth	-	S	Nov- June	1700-2000	Md	Co
Campanulaceae						
<i>Campanula benthamii</i> Wall. ex Kitamura	-	H	Mar-Aug	1700-2000	-	Co
<i>Campanula cana</i> Wall.	-	H	Jul- Sept	2000-2200	-	Co
<i>Campanula pallida</i> Wall.	-	H	Jan- Nov	2000-2200	-	Co
Cannabaceae						
* <i>Cannabis sativa</i> L.	<i>Bhanglu</i>	H	May- Sept	1700-2000	Fbr, Fd, Md	Co
Caprifoliaceae						
<i>Lonicera angustifolia</i> Wall. ex DC.	<i>Piralu</i>	S	Apr-Oct	1700-2100	Fd, Md	Co
<i>Lonicera caucasica</i> Pallas	-	S	Apr- Oct	2000- 2200	-	Co
<i>Lonicera quinquelocularis</i> Hard.	<i>Bad-kukura</i>	S	Apr-Aug	1900- 2200	Fd, Md	Co
<i>Viburnum cotinifolium</i> D. Don	<i>Bhatnoi</i>	T	Mar-Oct	2100- 2200	Md	Co
<i>Viburnum cylindricum</i> Buch. - Ham. ex D. Don	<i>Lampatiya</i>	T	May- Sept	2000- 2200	Fd	Co
<i>Viburnum grandiflorum</i> Wall. ex DC.	<i>Teelinh</i>	T	Mar-Oct	2100- 2200	Md	Co
Caryophyllaceae						
<i>Cerastium cerastoides</i> L.	-	H	Apr- Oct	2100-2200	-	Un
<i>Silene conoidea</i> L.	<i>Tomdya</i>	H	Feb-June	1700-2000	Md	Co

<i>Silene edgeworthii</i> Bocquet	<i>Bakrolya</i>	H	Jul-Oct	2000-2200	Fd, Md	Un
<i>Silene falconeriana</i> Royle ex Benth.	-	H	July-Oct	1700-2000	-	Ra
* <i>Stellaria media</i> (L.) Vill.	<i>Badyalu</i>	H	Jan-Aug	1700-2200	Fd	Co
Celastraceae						
<i>Euonymus echinatus</i> Wall.	<i>Laduli</i>	T	Apr-Sept	1700-2200	Fd	Un
<i>Euonymus pendulus</i> Wall.	<i>Bhambeli</i>	T	Mar-Sept	1700-2200	Fd, Tm	Un
<i>Euonymus tingens</i> Wall.	-	T	Mar-Sept	2000-2200	Fd, Tm	Co
Chenopodiaceae						
* <i>Chenopodium album</i> L.	<i>Bethu</i>	H	Jan-Dec	1700-1800	Md	Co
Cleomaceae						
* <i>Cleome viscosa</i> L.	<i>Jakhyaa</i>	H	Jun-Sept	1700-1800	Md, Ed	Co
Commelinaceae						
* <i>Commelina benghalensis</i> L.	<i>Kanjula</i>	H	Jul-Dec	1700-1900	Md	Co
<i>Commelina maculata</i> Edgew.	-	H	Jun-Oct	2000-2200	Md	Co
<i>Cyanotis cristata</i> (L.) D. Don	-	H	Jun-Oct	1700-1800	Fd	Co
<i>Cyanotis vaga</i> (Lour.) Schult. & Schult. f.	-	H	Jul-Oct	2100-2200	-	Co
Convolvulaceae						
<i>Evolvulus alsinoides</i> L.	<i>Sankhpuspi</i>	H	Jan-Dec	1700-1800	Md	Co
* <i>Ipomoea hederifolia</i> L.	-	H	Jul-Dec	1700-1800	-	Co
* <i>Ipomoea nil</i> (L.) Roth	<i>Kaludanu</i>	H	Mar-Dec	2000-2200	Md	Co
* <i>Ipomoea pes-tigridis</i> L.	-	H	Jul-Dec	1700-1800	Md	Co
Coriariaceae						
<i>Coriaria nepalensis</i> Wall.	<i>Gangara</i>	S	Mar-Aug	1700-2200	Md, Tm	Ra
Cornaceae						
<i>Cornus capitata</i> Wall.	<i>Bhamora</i>	T	Apr-Nov	1700-2200	Ed, Md, Tm,	Co
<i>Cornus macrophylla</i> Wall.	-	T	Apr-Oct	2000-2200	Fd, Tm	Co
<i>Cornus oblonga</i> Wall.	-	T	Sept-May	1900-2100	Fd, Tm	Un
Corylaceae						
<i>Carpinus viminea</i> Lindl.	<i>Chamkharik</i>	T	May- Sept	2000-2200	Fd, Tm	Un
Crassulaceae						
<i>Bryophyllum pinnatum</i> (Lam.) Oken	<i>Bhis-khabru</i>	H	Mar-Jul	1700-1800	Md	Co
<i>Kalanchoe integra</i> (Medikus) Kuntze.	<i>Bhis-khaphru</i>	H	Mar-Jul	1700-1800	Md	Ra
<i>Rhodiola sinuata</i> (Royle ex Edgew.) Fu	-	H	July-Oct	2000-2200	-	Co
<i>Rhodiola wallichiana</i> (Hook.) Fu	-	H	Jun-Nov	2100-2200	-	Ra
<i>Rosularia rosulata</i> Edgew Ohba	-	H	Feb-Jul	1700-2200	-	Co
<i>Sedum multicaule</i> Wall. ex Lindl.	<i>Bagh-mungri</i>	H	Jun-Oct	1700-2200	Md	Co
Cucurbitaceae						
<i>Coccinia grandis</i> (L.) Voigt	-	C	Jan-Oct	1700-1800	Md	Co
<i>Cucumis hardwickii</i> Royle	<i>Elaroo</i>	C	Jul-Sept	1700-1800	Md	Co
<i>Gymnopetalum cochinchinense</i> (Lour.) Kurz	-	C	Sep-Dec	1700-2000	-	Ra
<i>Herpetospermum pedunculatum</i> (Seringe)Baillon	-	C	Sep-Dec	1700-1800	-	Un
<i>Trichosanthes tricuspidata</i> Lour	<i>Indrian</i>	C	Aug-Nov	1700-1800	Md	Co
Cupressaceae						

<i>Cupressus torulosa</i> L.	<i>Surai</i>	T	Jun-Nov	1800-2200	Tm	Co
Cyperaceae						
<i>Bulbostylis densa</i> (Wall. ex Roxb.) Hand-Mazz.	-	H	Aug-Nov	2000-2200	-	Co
<i>Cyperus alulatus</i> Kern	-	H	Jul-Dec	1700-1800	-	Co
<i>Cyperus cyperoides</i> (L.) Kuntze	-	H	Jul-Dec	1700-2000	-	Co
* <i>Cyperus difformis</i> L.	-	H	Aug-Nov	1700-1800	-	Co
* <i>Cyperus niveus</i> Retz.	<i>Morya-ghas</i>	H	Apr-Nov	1700-1800	-	Co
<i>Cyperus pilosus</i> Vahl	-	H	Aug-Nov	1700-1800	Fd	Un
<i>Cyperus rotundus</i> L.	<i>Motha</i>	H	Jul-Dec	1700-1800	Md	Co
<i>Fimbristylis complanata</i> (Retz.) Link	-	H	Mar-Jul	1700-2000	-	Co
<i>Kyllinga nemoralis</i> (J.R.&G. Foster) Dandy	-	H	Jul-Nov	1700-1900	-	Co
<i>Pycrerus sanguinolentus</i> (Vahl) Nees	-	H	Aug-Dec	1700-1800	-	Co
Dioscoreaceae						
<i>Dioscorea belophylla</i> (Prain) J.O. Voigt ex Haines	<i>Tairu</i>	C	Jul-Fab	1700-1800	Ed, Md	Co
<i>Dioscorea bulbifera</i> L. ex Haines	<i>Genthi</i>	C	Jul-Feb	1700-1800	Ed, Md	Co
Dipsacaceae						
<i>Dipsacus inermis</i> Wall.	<i>Phulee</i>	H	Jul-Oct	1800-2200	Md	Co
Elaeagnaceae						
<i>Elaeagnus parvifolia</i> Wall. ex Royle	<i>Giwain</i>	S	Mar-Sept	1700-2200	Fd, Md	Co
Ericaceae						
<i>Lyonia ovalifolia</i> (Wall.) Drude	<i>Anyar</i>	T	Mar-Nov	2000-2200	Md, Tm	Co
<i>Rhododendron arboreum</i> Sm.	<i>Burans</i>	T	Mar-Nov	1700-2200	Ed, Md, Tm,	Co
Euphorbiaceae						
<i>Arachne cordifolia</i> (Decne.) Hurusawa	<i>Bhartoli</i>	S	Jan-Dec	1700-2000	Md	Co
* <i>Euphorbia heterophylla</i> L.	-	H	Mar-May	1700-2000	Md	Un
<i>Euphorbia peplus</i> L.	-	H	Mar-May	1800-2200	-	Un
<i>Euphorbia pilosa</i> L.	<i>Chuplya</i>	H	May- Sept	1800-2200	Md	Co
<i>Euphorbia prolifera</i> Buch-Ham ex D. Don	-	H	Apr-Sept	1700-1800	-	Co
* <i>Euphorbia royleana</i> Boiss. in DC.	<i>Sullu</i>	S	Mar-Jul	1700-1800	Md	Co
<i>Euphorbia wallichii</i> Hook. f.	-	H	May-Aug	1700-2200	Md	Un
<i>Falconeria insignis</i> Royle	<i>Khinna</i>	T	Feb-Jun	1700-1800	Md, Tm	Co
<i>Glochidion velutinum</i> Wight	<i>Mawa</i>	T	May- Sept	1700-2000	Tm	Co
<i>Phyllanthus emblica</i> L.	<i>Aonla</i>	T	Feb-Nov	1700-2000	Ed, Fd, Md	Co
<i>Phyllanthus parvifolius</i> Buch. - Ham. ex D. Don	-	H	Sept-Dec	1700-2200	Fd	Co
<i>Phyllanthus virgatus</i> G. Forest.	-	H	Mar-Nov	1700-1900	Md	Co
Fabaceae						
<i>Astragalus graveolens</i> Buch-Ham. ex D. Don	-	H	Aug-Nov	1700-2200	Fd	Un
<i>Campylotropis speciosa</i> (Royle ex Schindl) Schindl	-	S	Aug-Nov	1700-2200	Fd	Ra
<i>Crotalaria alata</i> Buch-Ham. ex D. Don	-	H	Aug-Dec	1700-2000	Fd	Co
<i>Crotalaria albida</i> Heyne ex Roth	<i>Chunchuni</i>	H	Jan-Dec	1700-2200	Md	Co
<i>Crotalaria humifusa</i> Graham ex Benth.	-	H	Jul-Dec	1700-2200	-	Co
<i>Crotalaria linifolia</i> L.f.	-	H	Jun-Nov	1700-2000	Md	Co
<i>Crotalaria prostrata</i> Willd	<i>Chunchhuni</i>	H	Jan-Dec	1700-2000	Md	Co

<i>Crotalaria spectabilis</i> Roth	-	H	Spt-Mar	1700-1800	-	Co
<i>Desmodium concinnum</i> DC.	<i>Saakina</i>	S	Aug-Nov	1700-2200	-	Co
<i>Desmodium elegans</i> DC.	<i>Chamlai</i>	S	Apr-Oct	1700-2200	Fd, Md	Co
<i>Desmodium gangeticum</i> (L.) DC.	-	S	Mar-Dec	1700-1800	Fd, Md	Co
<i>Desmodium laxiflorum</i> DC.	-	S	Aug-Dec	1700-2200	Fd	Co
<i>Desmodium microphyllum</i> (Thunb.) DC.	-	H	Jun-Nov	1700-2000	Fd	Co
<i>Desmodium multiflorum</i> DC.	-	S	Jul-Oct	2000-2200	Fd	Co
<i>Desmodium podocarpum</i> (Thunb.) DC.	-	S	Aug-Oct	2100-2200	-	Co
* <i>Desmodium triflorum</i> (L.) DC.	-	S	Jul-Sept	1800-2000	Fd	Co
<i>Desmodium velutinum</i> (Willd.) DC.	-	S	Sept-Dec	1700-2200	-	Un
<i>Dumasia villosa</i> DC.	-	H	Aug-Nov	1700-2000	-	Un
<i>Erythrina variegata</i> L.	<i>Mandar</i>	T	Apr-June	1700-1800	Md	Un
<i>Hedysarum kumoanense</i> Baker	<i>Mus-sakina</i>	H	Apr-Jul	1700-2200	Ed, Md	Co
<i>Flemingia bracteata</i> (Roxb.) Wight	-	H	Sept-Jan	1700-1900	Fd, Md	Co
<i>Flemingia procumbens</i> Roxb.	<i>Cheena</i>	H	Jul-Oct	1700-2000	Md	Co
<i>Flemingia strobilifera</i> (L.) W.T. Aiton	-	H	Jun-Oct	1700-2000	Md	Co
<i>Indigofera cassioides</i> DC.	<i>Sakena</i>	S	Mar-May	1800-2100	Fd, Md	Co
<i>Indigofera dosua</i> Buch. -Ham. ex D. Don	-	S	May- Sept	1700-2200	-	Co
* <i>Indigofera heterantha</i> Wall. ex Brandis	<i>Sakina</i>	S	May-Jul	1700-1800	Fd, Md	Co
<i>Lathyrus sativus</i> L.	-	H	Feb-Jun	1700-1800	-	Co
<i>Lespedeza juncea</i> (L.f.) Pers.	-	H	Aug-Oct	1700-1900	-	Co
<i>Parochetus communis</i> Buch. - Ham. ex D. Don	<i>Tripatri</i>	H	May-Oct	2000-2200	Md	Co
<i>Rhynchosia rothii</i> Aitch.	-	H	May-Oct	1700-2200	Md	Ra
<i>Shuteria involucrata</i> (wall.) Wight & Arn.	-	H	May-Sept	1700-2200	Md	Un
<i>Smithia ciliata</i> Royle	-	H	Jul-Sept	1700-1800	Fd	Co
<i>Trifolium pratense</i> L.	-	H	Jul-Sept	1700-2000	Fd, Md	Ra
<i>Trigonella corniculata</i> L.	<i>Ban-methi</i>	H	Apr-Jul	2000-2200	Md	Co
<i>Trigonella emodi</i> Benth.	-	H	Jun-Aug	1700-2200	-	Co
<i>Vicia sativa</i> L.	-	H	Mar-Oct	1700-2000	Fd	Co
Fagaceae						
<i>Quercus lamellosa</i> Sm.	-	T	Mar-Oct	1700-2100	-	Ra
<i>Quercus oblongata</i> A. Camus	<i>Banj</i>	T	Mar-Jan	1700-2200	Fd, Md, Tm,	Co
<i>Quercus semecarpifolia</i> Sm.	<i>Kharsu</i>	T	Mar-Sept	2100-2200	Tm	Co
Flacourtiaceae						
<i>Casearia graveolens</i> Dalzell	-	T	May-Jul	1700-1800	Fd, Tm	Co
<i>Flacourtia indica</i> (Burm. f) Merr.	<i>Bilangra</i>	T	Feb-Jun	1700-1800	Fd, Md, Tm	Co
Gentianaceae						
<i>Canscora decussata</i> (Roxb.) Schult	-	H	Jul-Sept	1700-1800	Md	Co
<i>Gentiana aprica</i> Decne.	<i>Chirotu</i>	H	Jan-Jun	1700-2000	Md	Co
<i>Gentiana capitata</i> Buch. - Ham. ex D. Don	-	H	Dec-Aug	1700-2000	-	Co
<i>Gentiana cephalodes</i> Edgew.	-	H	Jul-Oct	1700-1900	-	Co
<i>Gentiana pedicellata</i> (D. Don) Wall.	-	H	Feb-Jul	1800-2200	-	Co
<i>Swertia alata</i> (Royle ex D. Don) C.B. Clarke	<i>Chiratta</i>	H	Aug-Dec	1700-2000	Md	Co
<i>Swertia angustifolia</i> Buch. - Ham. ex D. Don	<i>Chirata</i>	H	Jul-Nov	1700-2200	Md	Co

<i>Swertia chirayita</i> (Roxb. ex Fleming) Karsten	<i>Chiraita</i>	H	Aug-Nov	1700-2200	Md	Ra
<i>Swertia cordata</i> (G. Don) C.B. Clarke	<i>Chirata</i>	H	Aug-Nov	1700-2200	Md	Ra
<i>Swertia paniculata</i> Wall.	-	H	Aug-Nov	1700-2200	Md	Co
Geraniaceae						
<i>Geranium nepalense</i> Sweet	<i>Syonli</i>	H	Mar-Nov	1700-2200	Md	Co
<i>Geranium ocellatum</i> Cambess	<i>Kaflya</i>	H	Feb-May	1700-1800	Md	Co
<i>Geranium wallichianum</i> D. Don ex Sweet	<i>Laljari</i>	H	Jul-Oct	1700-2200	Md	Co
Gesneriaceae						
<i>Chirita bifolia</i> D. Don	-	H	Jul-Aug	1700-1800	Md	Ra
<i>Chirita pumila</i> D. Don	-	H	Jul-Oct	1700-2200	-	Un
<i>Corallodiscus lanuginosus</i> (Wall. ex DC.) Burt	-	H	Jul-Sept	1700-2200	Md	Co
Hippocastanaceae						
<i>Aesculus indica</i> Colebr. ex Combess.) Hook	<i>Pangar</i>	T	Mar-Nov	1700-2200	Ed, Fd, Md	Co
Hydrangeaceae						
<i>Deutzia staminea</i> R.Br. ex Wall.	<i>Ghugtai</i>	S	Mar-Jan	1700-2200	Fd, Md	Co
<i>Hydrangea anomala</i> D. Don	<i>Kathmora</i>	C	Apr-Sept	2000-2200	-	Co
Hypericaceae						
<i>Hypericum elodeoides</i> Choisy	<i>Basanti</i>	H	Aug-Oct	1700-2200	-	Co
<i>Hypericum ericoides</i> L.	-	H	Jun-Sept	1700-2200	-	Ra
<i>Hypericum oblongifolium</i> Choisy	<i>Basant</i>	H	Mar-Jun	1700-2200	Fd, Md	Co
Hypoxidaceae						
<i>Hypoxis aurea</i> Lour.	-	H	Mar-Aug	1700-2000	Md	Co
Iridaceae						
<i>Iris kemaonensis</i> D. Don ex Royle	-	H	Mar-Sept	2100-2200	-	Ra
Juglandaceae						
<i>Engelhardtia spicata</i> Leschenaut ex Blume	<i>Gadh-mauha</i>	T	Mar-Jul	1700-1800	Md, Tm	Co
<i>Juglans regia</i> L.	<i>Akhor</i>	T	Mar-Oct	1700-2200	Ed, Md, Tm	Co
Juncaceae						
<i>Juncus articulatus</i> L.	-	H	May-Oct	1700-2000	-	Co
<i>Juncus inflexus</i> L.	-	H	May-Oct	1700-2000	-	Co
Lamiaceae						
<i>Ajuga bracteosa</i> Wall. ex Benth.	-	H	Jan-Dec	1700-2000	Md	Co
<i>Ajuga parviflora</i> Benth.	-	H	Mar-Oct	1700-2000	-	Un
<i>Anisochilus carnosus</i> (L.f.) Wall. ex Benth.	<i>Goplya</i>	S	Aug-Dec	1700-2000	Md	Co
<i>Anisomeles indica</i> (L.) Kuntze	<i>Kalabangra</i>	S	Jul-Oct	1700-1800	Md	Co
<i>Clinopodium umbrosum</i> (M. Bieb) C. Koch	-	H	Dec-Mar	1700-2000\	Md	Co
<i>Clinopodium vulgare</i> L.	-	H	Dec-Apr	1700-2200	Md	Co
<i>Colebrookia oppositifolia</i> Sm.	<i>Bindu</i>	S	May-Oct	1700-1800	Md	Co
<i>Coleus forskohlii</i> (Willd.) Briquet.	<i>Fiwain</i>	H	Aug-Oct	1700-2000	Md	Co
<i>Craniotome furcata</i> (Link) Kuntze	-	H	Jul-Nov-	1700-2000	-	Co
<i>Elsholtzia pilosa</i> Benth.	-	H	Sept-Nov	1800-2200	-	Co
<i>Elsholtzia strobilifera</i> Benth.	<i>Pothi</i>	H	Jul-Oct	2000-2200	Md	Co
* <i>Hyptis suaveolens</i> (L.) Poiteau	<i>Vilayti-tulsi</i>	H	Mar-Nov	1700-2000	Md	Co

<i>Justicia procumbens</i> L.	-	H	Mar-Nov	1700-2000	Md	Co
<i>Leucas aspera</i> (Willd.) Link	-	H	Jun-Oct	1700-2000	Md	Co
<i>Leucas cephalotes</i> (Roth) Spreng.	-	H	Jul-Nov	1700-1800	Md	Co
* <i>Leucas lanata</i> Benth.	-	H	Jan-Dec	1700-2000	Md	Co
<i>Mentha arvensis</i> L.	<i>Padnya</i>	H	Jul-Sept	1700-2200	Md	Un
* <i>Micromeria biflora</i> (Buch. - Ham. ex D. Don	<i>Ban-ajwain</i>	H	Jan-Dec	1700-2200	Md	Co
<i>Nepeta ciliaris</i> Wall. ex Benth.	-	H	Jul-Nov	1700-2000	Md, Or	Un
<i>Nepeta elliptica</i> Royle ex Benth.	-	H	Jul-Oct	1700-2000	Md	Ra
* <i>Nepeta graciliflora</i> Benth.	<i>Uprya ghas</i>	H	Feb-May	1700-1800	-	Co
<i>Origanum vulgare</i> L.	<i>Bantulsi</i>	H	May-Oct	1700-2200	Md	Co
<i>Perilla frutescens</i> (L.) Britton	<i>Bhangjeera</i>	H	Jul-Oct	1700-2200	Md	Co
<i>Rabdosia coetsa</i> (Buch-Ham. ex D. Don) Hara	-	S	Aug-Nov	1700-2200	Fd	Co
<i>Rabdosia rugosa</i> (Wall. ex Benth.) Hara	<i>Bharada</i>	S	May-Nov	1700-2200	Md	Co
<i>Roylea cinerea</i> (D. Don) Baillon	<i>Kadwe</i>	S	Feb-Aug	1700-2000	Md	Co
<i>Salvia lanata</i> Roxb.	-	H	Mar-Jul	1700-2000	Md	Co
<i>Salvia nubicola</i> Wall. ex Sweet	-	H	Aug-Oct	1700-2200	Md	Co
<i>Scutellaria grossa</i> Wall. ex Benth	-	H	Jul-Oct	2000-2200	-	Co
<i>Scutellaria scandens</i> Buch. - Ham. ex D. Don	<i>Kappu</i>	H	Mar-May	2000-2200	Md	Co
<i>Teucrium quadrifarium</i> Buch. - Ham. ex D. Don	-	H	Jun-Nov	2000-2200	Md	Co
Lauraceae						
<i>Cinnamomum tamala</i> (Buch. - Ham.) Nees & Eberm.	<i>Dalchini</i>	T	Frb-Jul	1700-2200	Md	Co
<i>Lindera pulcherrima</i> (Nees) Benth. ex Hook	<i>Cheri</i>	T	Apr-Oct	2000-2200	-	Co
<i>Machilus duthiei</i> King.	<i>Sairi</i>	T	Feb-Sept	2000-2200	Fd, Tm	Co
<i>Neolitsea cuipala</i> (Buch. - Ham. ex D. Don) Kos-term.	<i>Lampatiya</i>	T	Mar-Oct	2000-2200	Fd, Md, Tm,	Un
<i>Neolitsea pallens</i> (D. Don) Momiy & Hara	<i>Bilaru</i>	T	Mar-Oct	2000-2200	Md, Tm	Co
Liliaceae						
<i>Asparagus adscendens</i> Buch. - Ham. ex Roxb.	<i>Jhirni</i>	S	Aug-Nov	1700-2000	Fd, Md,	Co
<i>Cardiocrinum giganteum</i> (Wall.) Makino	-	H	Jul-Sept	2000-2200	Md	Ra
<i>Iphigenia indica</i> (L.) A. Gray	-	H	Jun-Sept	1700-1800	Md	Co
<i>Polygonatum verticillatum</i> (L.) Allioni	-	H	Jun-Sept	1800-2200	Md	Ra
Linaceae						
* <i>Reinwardtia indica</i> Dumort.	<i>Phiunli</i>	S	Feb-Sept	1700-2200	Md	Co
Lobeliaceae						
<i>Lobelia pyramidalis</i> Wall.	-	H	Mar-Sept	1700-2200	-	Un
Loranthaceae						
<i>Viscum album</i> L.	<i>Banda</i>	S	Mar-Dec	1700-2200	-	Co
Lythraceae						
<i>Rotala rotundifolia</i> (Buch-Ham. ex D. Don) Koehne	-	H	Feb-Apr	2000-2200	-	Co
<i>Woodfordia fruticosa</i> (L.) Kurz	<i>Dhauila</i>	S	Jan-Jun	1700-2000	Ed, Fd, Md	Co
Malvaceae						
<i>Abelmoschus crinitus</i> Wall.	-	H	Jul-Oct	1700-1800	Fbr, Md	Co

<i>Malva sylvestris</i> L.	-	H	Aug-Jan	1700-1800	Md	Co
* <i>Urena lobata</i> L.	<i>Chatkura</i>	H	Aug-Dec	1700-2000	Fbr, Fd, Md	Co
Melastomataceae						
<i>Osbeckia stellata</i> Buch. - Ham. ex D. Don	<i>Kukria-makuri</i>	S	Aug-Oct	17000-2200	Md	Co
Meliaceae						
<i>Toona serrata</i> (Royle) M. Roem.	<i>Pahari-tun</i>	T	May-Dec	1700-2000	Fd, Md, Wd,	Co
Menispermaceae						
<i>Cissampelos pareira</i> L.	<i>Pahari</i>	C	Apr-Nov	1700-2000	Fd, Md	Co
<i>Stephania glabra</i> (Roxb.) Miers	<i>Gindaru</i>	C	Jul-Oct	2000-2200	Fd, Md	Co
<i>Tinospora sinensis</i> (Lour.) Merr.	<i>Giloei</i>	C	Feb-Jul	1700-1800	Fd, Md	Un
Mimosaceae						
* <i>Acacia dealbata</i> Link	-	T	Jan-May	1700-2000	Fd, Md, Wd	Un
<i>Acacia nilotica</i> (L.) Willd.	<i>Babul</i>	T	Mar-Nov	1700-1800	Fd, Md, Tm	Un
<i>Albizia julibrissin</i> Durazz.	-	T	Apr-Dec	1700-2000	Fd, Md, Tm	Co
Monotropaceae						
<i>Monotropa uniflora</i> L.	-	H	Sept-Nov	1700-2200	-	Ra
Moraceae						
<i>Ficus hederacea</i> Roxb.	<i>Beduli</i>	T	Feb-Jul	1700-1800	Fd	Co
<i>Ficus neriifolia</i> Sm.	-	T	Mar-Sept	1700-2000	Fd	Un
<i>Ficus palmata</i> Frossk.	<i>Bedu</i>	T	May-Aug	1700-1800	Ed, Fd, Md	Co
<i>Ficus sermentosa</i> Buch. - Ham. ex Sm.	<i>Beduli</i>	C	Feb-May	1700-2200	Fd	Co
<i>Ficus semicordata</i> Buch. - Ham. ex Sm.	<i>Khaina</i>	T	May-Oct	1700-1800	Ed, Fbr, Fd	Co
Myricaceae						
<i>Myrica esculenta</i> Buch.Ham. ex D.Don	<i>Kaphal</i>	T	Aug-Jun	1700-2200	Md	Co
Myrsinaceae						
<i>Myrsine africana</i> L.	-	S	Mar-Jun	1700-2000	Ed, Md	Co
Nyctaginaceae						
* <i>Boerhavia diffusa</i> L.	-	H	Aug-Dec	1700-2000	Md	Co
Oleaceae						
<i>Fraxinus micrantha</i> Lingelsh.	<i>Angu</i>	T	Mar-Sept	1700-2200	Md, Tm	Ra
<i>Jasminum arborescens</i> Roxb.	-	S	Mar-Aug	1700-2000	Md	Co
<i>Jasminum humile</i> L.	<i>Pili-chameli</i>	S	Mar-Dec	1700-3000	Md	Co
<i>Olea glandulifera</i> Wall. ex G. Don	-	T	Mar-Feb	1700-2000	Fd, Md, Tm,	Co
Onagraceae						
<i>Epilobium royleanum</i> Hausskn.	-	H	Jul-Oct	1800-2200	Md	Co
<i>Oenothera rosea</i> L. Her. ex Aiton	-	H	Mar-Nov	1700-2200	-	Co
Orchidaceae						
<i>Calanthe plantaginea</i> Lindl.	-	H	Mar-Jun	1700-2200	-	Ra
<i>Goodyera repens</i> (L.) R.Br.	-	H	Aug-Oct	1800-2200	Md	Co
<i>Habenaria intermedia</i> D. Don	-	H	Jul-Spt	1700-2200	Md	Co
<i>Satyrium nepalense</i> DC.	-	H	Jul-Oct	1700-2000	Md	Co
Orobanchaceae						
<i>Pedicularis bifida</i> (Buch. - Ham.ex D. Don) Pennell	-	H	Jul-Oct	1700-2200	-	Co

<i>Striga asiatica</i> (L.) Kuntze	-	H	Sept-Dec	1700-1800	Md	Co
Oxalidaceae						
* <i>Oxalis corniculata</i> L.	<i>Bhilmori</i>	H	Jan-Dec	1700-1800	Md	Co
* <i>Oxalis latifolia</i> Kunth	<i>Khattu-khaur</i>	H	Jun-Nov	1700-2000	-	Co
Papaveraceae						
<i>Papaver dubium</i> L.	-	H	Mar-May	1700-2100	Md	Un
Pedaliaceae						
<i>Sesamum orientale</i> L.	<i>Til</i>	H	Aug-Nov	1700-1800	Md, Ol	Co
Pinaceae						
<i>Cedrus deodara</i> (Roxb. ex D. Don) G. Don	<i>Deodar</i>	T	Sept-Dec	1700-2200	Md, Wd	Co
<i>Pinus roxburghii</i> Sarg.	<i>Kulain</i>	T	Mar-Jan	1700-2200	Ed, Md, Wd	Co
<i>Pinus wallichiana</i> A.B. Jacks.	<i>Kail</i>	T	Mar-Jun	2000-2200	Md, Wd	Co
Piperaceae						
<i>Peperomia tetraphylla</i> (G. Forst.) Hook. & Arn.	<i>Tirpirya</i>	H	Mar-Oct	1700-2000	-	Co
<i>Piper mullesua</i> D. Don	-	H	May-Dec	1700-2200	-	Ra
Plantaginaceae						
<i>Misopates orontium</i> (L.) Raf.	-	H	Mar-Jul	1700-2100	-	Co
<i>Plantago erosa</i> Wall.	-	H	May-Oct	1700-2000	Md	Co
Plumbaginaceae						
<i>Plumbago zeylanica</i> L.	-	H	Jan-Dec	1700-2200	Fd, Md	Co
Poaceae						
<i>Agrostis nervosa</i> Nees ex Trin.	-	H	Sept-Oct	1700-2200	Fd	Co
<i>Agrostis pilosula</i> Trin.	-	H	Aug-Sept	1700-2000	Fd	Co
<i>Apluda aristata</i> L.	-	H	Aug-Sept	1700-2000	Fd	Co
<i>Arthraxon prionodes</i> (Steudel) Dandy	-	H	Dec-Jan	1700-2000	Fd	Co
<i>Arundinella birmanica</i> Hook. f.	-	H	Aug-Sept	1700-2000	Fd	Co
<i>Arundinella nepalensis</i> Trinius	-	H	Oct-Nov	1700-1900	-	Co
<i>Arundinella pumila</i> (Hochst.) Steud.	-	H	Oct-Nov	1700-1900	Fd	Un
<i>Arundo donax</i> L.	-	H	Sept-Dec	1700-2200	Fd	Co
<i>Avena fatua</i> L.	<i>Jawati</i>	H	Mar-May	1700-2000	Fd	Co
<i>Bothriochloa bladhii</i> (Retz.) Blake	-	H	Sept-Oct	1700-1900	Fd	Un
<i>Bothriochloa kuntzeana</i> (Hack.) Henrard	-	H	Oct-Nov	1700-1800	Fd	Ra
<i>Brachiaria villosa</i> (Lam.) A. Camus	<i>Malchu</i>	H	Jul-Aug	1700-1900	Fd	Co
* <i>Bromus catharticus</i> Vahl	-	H	May-Jun	1700-2000	Fd	Co
<i>Capillipedium assimile</i> (Steud.) A. Camus	-	H	Aug-Dec	1700-2000	Fd	Co
<i>Cenchrus ciliaris</i> L.	-	H	Aug-Sept	1700-1800	Fd	Ra
<i>Chrysopogon fulvus</i> (Spreng.) Chiov.	-	H	Sept-Nov	1700-1900	-	Co
<i>Chrysopogon gryllus</i> (L.) Trin.	-	H	Jul-Aug	1700-2000	-	Un
<i>Cymbopogon gidarba</i> (Buch. - Ham. sx Steud.) A. Camus	-	H	Aug-Oct	1700-1900	Fd	Co
* <i>Cynodon dactylon</i> (L.) Pers.	-	H	Apr-Oct	1700-2200	Fd	Co
<i>Dactyloctenium aegyptium</i> (L.) P. Beauv.	-	H	May-Nov	1700-2000	Fd	Co
<i>Eleusine indica</i> (L.) Gaertn.	<i>Jhadya-kodu</i>	H	Jul-Nov	1700-1800	Fd	Co

<i>Eragrostis nigra</i> Nees ex Steud.	-	H	Jun-Sept	1700-2200	-	Co
<i>Himalayacalamus falconeri</i> (Hook.ex Munro) Keng.	Ringal	H	May-Oct	2000-2200	Fd	Co
* <i>Imperata cylindrica</i> Raeusch.	Sirau	H	Jan-Dec	1700-1900	Fd, Md	Co
<i>Paspalum scrobiculatum</i> L.	-	H	Jul-Dec	1700-1800	Md	Co
<i>Pennisetum orientale</i> L.	-	H	Jul-Nov	1700-2000	Fd	Co
* <i>Saccharum spontaneum</i> L.	Kanslu	H	Spt-Nov	1700-1800	Md	Co
<i>Sacciolepis indica</i> (L.) Chase	-	H	Jul-Oct	1700-2000	-	Co
<i>Setaria glauca</i> (L.) Beauv.	-	H	Jul-Oct	1700-2200	-	Co
<i>Setaria italica</i> (L.) P. Beauv.	Koni	H	Jul-Sept	1700-2200	Fd, Md	Co
<i>Sinarundinaria falcata</i> (Neess) Chao & Renoize	Ringal	H	Apr-Oct	1800-2200	Fd, Md	Co
<i>Stipa sibirica</i> (L.) Lam.	-	H	Aug-Oct	1700-2200	Fd, Md	Co
<i>Themeda triandra</i> Frossk.	-	H	Aug-Oct	1700-2000	Fd	Co
Polygalaceae						
<i>Polygala abyssinica</i> R.Br. ex Fresen.	-	H	Jun-Oct	1700-2200	-	Co
<i>Polygala arvensis</i> Willd.	Sanjivani	H	Jul-Nov	1700-1800	Md	Co
<i>Polygala crotalarioides</i> Buch. - Ham. ex DC.	-	H	Apr-Nov	2000-2200	Md	Co
<i>Polygala passicariifolia</i> DC.	-	H	Jul-Nov	1700-2000	-	Co
<i>Polygala tatarinowii</i> Regel	-	H	Aug-Nov	1700-2200	-	Ra
Polygonaceae						
<i>Fagopyrum esculentum</i> (L.) Moench	-	H	Aug-Nov	1700-1900	Md	Co
<i>Persicaria amplexicaulis</i> (D. Don) Ronse Decr.	-	H	Jun-Nov	2000-2200	Md	Co
<i>Persicaria barbata</i> (L.) H. Hara	-	H	Jan-Dec	1700-2000	-	Co
<i>Persicaria capitata</i> (Buch. - Ham. ex D. Don) H. Gross	Kaflya	H	Jan-Oct	1900-2200	-	Co
<i>Persicaria microcephala</i> (D. Don) H. Gross	-	H	Jul-Sept	1700-2200	-	Un
<i>Persicaria nepalensis</i> (Meisn.) Miyabe	-	H	Jul-Oct	1700-2200	-	Co
<i>Rumex dentatus</i> L.	Jungli-palak	H	Feb-Mar	1700-1900	-	Co
* <i>Rumex hastatus</i> D. Don	Amelda	H	Feb-Oct	1700-2000	Md	Co
<i>Rumex nepalensis</i> Spreng.	-	H	Apr-Oct	1700-2100	Md	Co
Portulacaceae						
<i>Portulaca grandiflora</i> Hook.	-	H	Jan-Dec	1700-2000	Or	Co
Primulaceae						
* <i>Anagallis arvensis</i> L.	-	H	Feb-Sept	1700-1800	Md	Co
<i>Anagallis pumila</i> Swartz	-	H	Sept-Nov	1700-2100	-	Co
<i>Androsace lanuginosa</i> Wall.	-	H	May-Sept	1700-2200	-	Co
<i>Androsace rotundifolia</i> Hardw.	-	H	Apr-Oct	1700-2200	-	Co
<i>Androsace umbellata</i> (Lour.) Merr.	-	H	Feb-May	1700-1800	-	Co
<i>Primula denticulata</i> Sm.	-	H	Apr-Jul	1700-2000	Md	Co
<i>Primula floribunda</i> Wall.	-	H	Feb-Sept	1700-2200	-	Co
Ranunculaceae						
<i>Anemone rivularis</i> Buch. - Ham. ex DC.	Angeli	H	Jun-Oct	1700-2200	Md	Co
<i>Anemone vitifolia</i> Buch. - Ham. ex DC.	-	H	Jun-Oct	1700-2200	Md	Co
<i>Clematis acuminata</i> DC.	-	C	Oct-Apr	1700-2200	-	Ra

* <i>Clematis gouriana</i> Roxb. ex DC.	<i>Belkun</i>	C	Aug-Mar	1700-2000	Fbr	Co
<i>Clematis grata</i> Wall.	<i>Laguli</i>	C	Aug-Dec	1700-2200	Fd	Co
<i>Clematis roylei</i> Rehder	-	C	Nov-Apr	1700-2000	Fbr	Co
* <i>Delphinium denudatum</i> Wall. ex Hook.f. & Thomson	<i>Nirbishi</i>	H	Apr-Jul	1700-2000	Md	Co
<i>Ranunculus arvensis</i> L.	-	H	Feb-May	1700-2000	Md	Co
<i>Ranunculus diffusus</i> DC.	-	H	Apr-Aug	1700-2200	-	Co
<i>Ranunculus laetus</i> Wall. ex D. Don	-	H	Apr-Aug	1700-2000	-	Co
<i>Thalictrum foliolosum</i> DC.	<i>Mamira</i>	H	Jun-Oct	1700-2200	Md	Co
<i>Thalictrum javanicum</i> Blume	<i>Makdya-ghas</i>	H	Jun-Aug	1700-2000	Md	Co
Rhamnaceae						
<i>Rhamnus triquetra</i> (Wall.) Lawson	<i>Gauntu</i>	S	May-Dec	1700-1800	Fd, Md, Tm	Co
<i>Rhamnus virgatus</i> Roxb.	<i>Chheduli</i>	S	Feb-Jun	1700-2200	Fd, Md, Tm	Co
Rosaceae						
<i>Agrimonia pilosa</i> Ledeb.	<i>Lesukuria</i>	H	Apr-Oct	1700-1900	Md	Co
<i>Cotoneaster bacillaris</i> Wall.	<i>Ruins</i>	S	Apr-Oct	2000-2200	Fd, Md, Tm	Co
<i>Cotoneaster rotundifolia</i> Wall. ex Lindl.	<i>Ghodu</i>	S	Mar-Sept	1700-2200	Fd, Tm	Co
<i>Duchesnia indica</i> (Andrews) Focke	<i>Bhwin-kafal</i>	H	Mar-Apr	1700-2200	Ed, Md	Co
<i>Potentilla fulgens</i> Wall. ex Hook.	<i>Bajardanti</i>	H	Jul-Nov	1700-2200	Md	Co
<i>Prinsepia utilis</i> Royle	<i>Bhenkuli</i>	S	Feb-Oct	1700-2200	Ed, Fd, Md	Co
<i>Prunus cerasoides</i> Ehrlich	<i>Panyyan</i>	T	Oct-Mar	1700-2200	Ed, Fd, Md, Tm	Co
<i>Pyracantha crenulata</i> (D. Don) M. Roemer	<i>Ghingaru</i>	S	Mar-Oct	1700-2200	Ed, Fd, Md	Co
<i>Pyrus pashia</i> Buch. - Ham ex D. Don	<i>Melu</i>	T	Feb-Dec	1700-2200	Ed, Fd, Md, Tm	Co
* <i>Rosa brunonii</i> Lindl.	<i>Kunju</i>	C	Mar-Jul	1700-2000	Fd, Md	Co
<i>Rosa macrophylla</i> Lindl.	<i>Jungli-gulab</i>	S	Jul-Nov	1700-2200	Ed, Fd, Md	Co
* <i>Rubus ellipticus</i> Sm.	<i>Hinsar</i>	S	Mar-Jun	1700-2000	Ed, Fd, Md	Co
<i>Rubus foliolosus</i> D. Don	<i>Kala-hissar</i>	C	Apr-Sept	1700-2200	Ed	Co
* <i>Rubus niveus</i> Thunb.	<i>Kali-hisar</i>	C	Apr-Oct	1700-2200	Ed, Md	Co
<i>Rubus paniculatus</i> Sm.	<i>Kali-hisar</i>	C	Mar-Jul	1700-2200	Ed, Fd, Md	Co
<i>Sorbus aucuparia</i> L.	-	T	Jun-Oct	2000-2200	Fd, Md	Ra
<i>Spiraea canescens</i> D. Don	-	H	May-Oct	1700-2200	Fd, Tm	Co
<i>Spiraea vacciniifolia</i> D. Don	<i>Phulanga</i>	H	Apr-Oct	1700-2200	Fd	Co
Rubiaceae						
<i>Catunaregum spinosa</i> (Thunb.) Tirveng.	-	S	Apr-Feb	1700-1800	Md	Co
<i>Galium acutum</i> Edgew.	-	H	May-Oct	1700-2200	Md	Un
<i>Galium aparine</i> L.	<i>Kuri</i>	H	Feb-Aug	1700-2200	Md	Co
<i>Galium asperifolium</i> Wall.	<i>Kuri</i>	H	Jun-Nov	1700-2200	Md	Co
<i>Hedyotis corymbosa</i> (L.) Lam.	-	H	Jul-Nov	1700-2200	Md	Co
<i>Himalrandia tetrasperma</i> Wall.ex Roxb.	<i>Ghara</i>	S	Mar-Feb	1700-2200	Md, Tm	Co
<i>Kohautia coccinea</i> Royle	-	H	Jul-Nov	1700-1800	-	Ra
<i>Leptodermis lanceolata</i> Wall.	<i>Chhota-padaru</i>	S	Jun-Dec	1700-2200	Ed, Md	Co
* <i>Rubia cordifolia</i> L.	<i>Kuru</i>	H	Jul-Oct	1700-2200	Md	Co
<i>Rubia manjith</i> Roxb. ex Fleming	<i>Lichkuru</i>	H	Jul-Nov	1700-2200	Md	Co
<i>Spermadictyon suaveolens</i> Roxb.	<i>Bda-padaru</i>	S	Oct-May	1700-2000	Fd, Md	Co

Rutaceae						
<i>Boenninghausenia albiflora</i> (Hook.) Reich.ex Meisn.	<i>Upniyaghas</i>	H	Jul-Oct	1700-2200	Md	Co
<i>Zanthoxylum armatum</i> DC.	<i>Timroo</i>	S	Mar-Oct	1700-2000	Fd, Md, Tm	Co
Salicaceae						
<i>Salix denticulata</i> Anderson	<i>Bains</i>	T	Mar-Jul	1700-1900	Fd, Wd	Co
<i>Salix disperma</i> Roxb.ex D. Don	<i>Gad-bhains</i>	T	Mar-Jul	1700-2200	Fd, Wd	Co
<i>Salix tetrasperma</i> Roxb.	-	T	Sep-Dec	1700-2200	Fd, Md, Wd	Co
Santalaceae						
<i>Osyris arborea</i> Wall. ex DC.	<i>Bakroliya</i>	S	Mar-Nov	1700-2200	Fd, Md	Co
Sapindaceae						
<i>Sapindus mukorossi</i> Gaertn.	<i>Reetha</i>	T	Mar-Dec	1700-1800	Fd, Md, Tm	Co
Saxifragaceae						
<i>Astilbe rivularis</i> Buch. - Ham.ex D. Don	-	S	Sept-Dec	1700-2200	Fd, Md	Ra
<i>Bergenia ciliata</i> (Haw.) Sternb.	<i>Kamlya</i>	H	Feb-Jun	1700-2200	Ed, Md	Co
<i>Parnassia nubicola</i> Wall. ex Royle	<i>Phutkya</i>	H	Jul-Oct	2000-2200	Md	Co
<i>Saxifraga diversifolia</i> Wall.ex Ser.	<i>Silyans</i>	H	Jul-Dec	2000-2200	Md	Co
Scrophulariaceae						
<i>Lindenbergia grandiflora</i> (Buch. - Ham. ex D. Don) Benth.	-	H	Feb-Dec	1700-1800	Md	Co
<i>Lindenbergia indica</i> Vatke	-	H	Mar-Nov	1700-2000	Md	Un
<i>Mazus pumilus</i> (Burm. f.) van Steenis	-	H	Mar-Nov	1700-2000	Md	Co
<i>Torenia cordifolia</i> Roxb.	-	H	Jul-Oct	1700-1800	-	Co
<i>Verbascum thapsus</i> L.	<i>Kakri-tamakhu</i>	H	Jan-Aug	1700-2200	Md	Co
<i>Veronica persica</i> Poir.	-	H	Feb-Jan	1700-2200	-	Co
Smilacaceae						
<i>Smilax aspera</i> L.	-	C	Jun-Dec	1700-2000	Md	Co
Solanaceae						
<i>Brugmansia suaveolens</i> (Humb. & Bonpl.ex Willd.) Bercht. & J. Presl.	<i>Dhaturo</i>	S	Jan-Dec	1700-1800	Md	Co
* <i>Datura innoxia</i> Mill.	-	H	May-Oct	1700-2000	Md	Un
* <i>Datura stramonium</i> L.	<i>Dhaturo</i>	H	May-Sept	1700-1800	Md	Co
<i>Nicandra physalodes</i> (L.) Gaertn.	-	H	Jul-Nov	1700-2200	Md	Co
* <i>Physalis minima</i> L.	-	H	Jul-Nov	1700-1800	Md	Co
* <i>Physalis peruviana</i> L.	<i>Rashbhari</i>	H	Jul-Nov	1700-1800	Ed, Md	Co
<i>Solanum incanum</i> L.	-	S	Jan-Dec	1700-1800	Md	Co
* <i>Solanum nigrum</i> L.	<i>Khathi-meethi</i>	H	Jan-Dec	1700-2200	Ed, Md	Co
* <i>Solanum pseudo-capsicum</i> L.	<i>Jungli-mirch</i>	S	Jul-Nov	1700-1800	Or	Co
Symplocaceae						
<i>Symplocos paniculata</i> (Thunb.) Miq.	<i>Lodh</i>	T	Sept-Dec	1700-2000	Fd, Md, Tm	Co
<i>Symplocos ramosissima</i> Wall. ex G. Don.	<i>Lodh</i>	T	May-Dec	2000-2200	Fd, Tm	Co
Thymelaeaceae						
<i>Daphne papyracea</i> Wall. ex G. Don	-	S	Mar-Jul	1700-2200	Fbr, Md	Co
Tiliaceae						

<i>Grewia optiva</i> J.R. Drummond ex Burret	<i>Bhimal</i>	T	Apr-Nov	1700-1800	Ed, Fbr, Fd, Md, Tm	Co
<i>Triumfetta pilosa</i> Roth	<i>Kura</i>	S	Jun-Jan	1700-2000	-	Co
Ulmaceae						
<i>Celtis eriocarpa</i> Decne.	<i>Kharik</i>	T	Mar-Nov	1700-1800	Ed, Fd, Md, Wd	Un
<i>Ulmus wallichiana</i> Planch.	<i>Hemar</i>	T	Mar-Jun	1700-2200	Fbr, Fd, Md	Ra
Urticaceae						
<i>Boehmeria platyphylla</i> D. Don	<i>Khagsu</i>	S	Aug-Jan	1700-2000	Fbr, Fd	Co
<i>Boehmeria rugulosa</i> Wedd.	<i>Genthi</i>	T	Jul-Nov	1700-1800	Fd, Md, Wd	Co
<i>Debregeasia longifolia</i> (Burm.f.) Wedd.	-	T	Feb-Jul	1700-1800	Fbr, Fd, Md	Co
<i>Debregeasia salicifolia</i> (D. Don) Rendle	<i>Syanru</i>	T	Feb-Aug	1700-2000	Fbr, Fd, Md	Co
<i>Girardinia diversifolia</i> (Link) Friis	<i>Desi-kandai</i>	H	Jul-Oct	1700-2200	Fbr, Md	Co
<i>Lecanthus peduncularis</i> (Royle) Wedd.	-	H	Aug-Oct	1700-1800	Fd	Co
<i>Pilea scripta</i> (Buch. - Ham. ex D. Don) Wedd.	-	H	May-Sept	1700-1800	Fd	Co
<i>Pouzolzia zeylanica</i> (L.) J. Benn.	-	H	Jul-Oct	1700-2000	-	Co
<i>Urtica dioica</i> L.	<i>Kandai</i>	H	Aug-Apr	1700-2200	Fbr, Md	Co
Valerianaceae						
<i>Valeriana jatamansii</i> Jones	-	H	Feb-Jun	2000-2200	Md	Co
Verbenaceae						
<i>Caryopteris foetida</i> (D. Don) Thell.	<i>Karwi</i>	S	Mar-Jul	1700-2200	Fd, Md	Co
* <i>Lantana camara</i> L.	<i>Laltain</i>	S	Jan-Dec	1700-2000	Md	Co
<i>Lantana indica</i> Roxb.	-	S	Mar-Oct	1700-2000	-	-
Violaceae						
<i>Viola betonicifolia</i> Sm.	<i>Budadi</i>	H	Mar-Sept	1700-1800	Md	Co
<i>Viola biflora</i> L.	<i>Banfasa</i>	H	May-Sept	1700-2200	Md	Co
<i>Viola canescens</i> Wall.	-	H	Apr-Sept	1700-2000	Md	Co
Vitaceae						
<i>Ampelocissus rugosa</i> (Wall.) Planch.	<i>Chhipari</i>	C	Apr-Oct	1700-2000	Md	Co
<i>Parthenocissus semicordata</i> (Wall.) Planch.	<i>Laguli</i>	C	May-Sept	1700-2200	Fd, Md	Co
<i>Tetrastigma serrulatum</i> (Roxb.) Planch.	-	C	Jun-Oct	1700-2200	Fd, Md	Co
<i>Vitis Jacquemontii</i> R. Parker	-	C	May-Aug	1700-2200	-	Co
<i>Vitis lanata</i> Roxb.	-	C	Sept-Dec	1700-200	-	Co
Zingiberaceae						
<i>Cautleya spicata</i> (Sm.) Baker	<i>Ban-haldu</i>	H	Jul-Oct	1700-2200	-	Co
<i>Hedychium spicatum</i> Buch. - Ham. ex Sm.	<i>Ban-haldu</i>	H	Jul-Oct	1800-2200	Md	Co
<i>Hedychium villosum</i> Wall.	-	H	Jul-Oct	2000-2200	Md	Un
<i>Roscoea purpurea</i> Sm.	-	H	Jul-Oct	1700-2200	Md	Co

¹LF = life form; C = Climber, H = herb, S = shrub, T = tree. ²Fl-Fr = flowering-fruiting time. ³Elv. range = elevation range. ⁴IU = Indigenous uses; F = Fodder, Fi = fiber, Me = medicinal, O = ornamental, W = wood. ⁵AS = availability status, Co = common, Un = uncommon; Ra = rare. *Invasive or alien species.

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