

A CHECKLIST OF ANGIOSPERMIC FLORA IN AND AROUND THE LUMBINI SACRED GARDEN, NEPAL

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Abstract

Lumbini Sacred Garden has stretches of *Saccharum* dominated grassland and patches of *Dalbergia* forest. A total of 354 species belonging to 75 families and 245 genera of angiospermic plants has been documented from the Lumbini Sacred Garden and its adjoining areas. Out of these, 258 species belong to 61 families and 187 genera of dicotyledons whereas, 96 species to 14 families and 58 genera of monocotyledons. There are 246 species of herbs, 54 species of trees, 29 species of shrubs and 25 species of climbers. The paper attempts to give the list of the plants with habit and habitat occurred in Lumbini Sacred Garden and adjoining places.

Key Words: Angiosperm, flora, Lumbini, Nepal.

Introduction

Lumbini Sacred Garden (27° 29'47.8" N and 83° 16'59.8" E) lies in the Rupandehi district of Central Nepal. It is a part of Terai lowland (approx. 150m) and experiences a tropical type of climate and vegetation. The mean maximum temperature in the area is 36 °C during May and means minimum temperature is 8 °C during January; the annual precipitation is 1700 mm. The Garden located 8 km west from Bhairahawa city, a headquarters of the district. It is a birth place of Buddha, a site of pilgrimage for the Buddhists and peace loving people of the world and also recognized as a World Heritage Site in 1997. Buddhist literatures declare that the newly born prince Siddhartha (Buddha) took seven steps and uttered some precious words as epoch-making message to the suffering humanity. It happened in the beautiful Sal (*Shorea robusta*) grove of lush green trees where queen Maya Devi gave birth to the Buddha in 623 BC during that time she took support of the branch of a tree (Brochure, Lumbini Development Trust). There are different views about the identification of the birth tree, some authorities claimed as Asokha tree (*Saraca asoca*), whereas others as Sal tree (*Shorea robusta*), Mango tree (*Mangifera indica*), Pipal tree (*Ficus religiosa*), Banyan tree (*Ficus benghalensis*), Black berry (*Syzygium cumini*), etc. (Bidari, 1995). The ancient monuments and records are the witness to glorify the Lumbini as a birthplace. The history of the area between 15th to 19th centuries is not clear. It had remained neglected and changed the beautiful garden into cultivated land. Until about 3 decade ago, the area was occupied by cultivated lands and settlements but after the initiation of Lumbini Development Project in 1970 the settlements has shifted and developed greenery by planting over 3,71,182 tree saplings (Khan and Yoshino 1995). *Dalbergia sissoo* is the major planted species (about 295,000 saplings) followed by *Shorea robusta*, *Syzygium cumini*, *Acacia catechu*, *Azadirachta indica*, *Tectonia grandis*, *Eucalyptus citridora*, *Callistemon citrinus*, *Anthocephalus sinensis*, *Albizia* spp., *Magnifera indica*, etc. Among them only about 1, 91,000 trees are existed in the garden area

(Lumbini Development Trust Record, 1999) however; the number may be decreasing due to die of several stands of *Dalbergia* by some fungal infections. Presently, the area has stretches of *Saccharum* dominated grasslands with patches of *Dalbergia* forest. There is no any information about the list of plants occurring in the famous pilgrimage site; therefore, an attempt has been made to enumerate the angiospermic species distributed in the Lumbini Sacred Garden and its adjoining areas.

Methods

The paper is based on the species observed during August-December, 2000. Information was collected by making regular field visit and species were identified by using available literature (Haines, 1961; Hara et al., 1978, 1982; Hara and Williams, 1979; Press et al., 2000; Siwakoti and Varma, 1999). Attempt has been made to enumerate the family, genera and species in alphabetical order with botanical name followed by local name, habit and habitat and presented in a tabular form.

Results and Discussion

A total of 354 species belonging to 75 families and 245 genera of angiospermic plants has been documented from the Lumbini Sacred Garden and its adjoining areas (table 1). Out of these, 258 species belong to 61 families and 187 genera of dicotyledons whereas, 96 species to 14 families and 58 genera of monocotyledons. The largest 10 families are Poaceae (46 species), Fabaceae (42 species), Asteraceae (26 species), Cyperaceae (24 species), Euphorbiaceae (15 species), Scrophulariaceae (11 species), Acanthaceae (10 species) and Amaranthaceae, Moraceae and Verbenaceae with 9 genera in each family. Similarly, the largest genera include *Cyperus* (11 species), *Eragrostis* (6 species), *Ficus* (6 species), *Lindernia* (6 species), *Cassia* (5 species), *Ipomoea* (5 species) and *Amaranthus*, *Desmodium*, *Euphorbia*, *Phyllanthus*, *Persicaria* and *Solanum* with 4 species in each genus. Majority of the plants are herbaceous, there are 246 species of herbs, 54 species of trees, 29 species of shrubs and 25 species of climbers. Majority of trees are planted species. Similarly, most of the species are occurred in fallow lands/ grasslands and wetlands.

Table 1: List of plants

Family/ Species Name	Local Name	Habit (Habitat)
Dicotyledons		
ACANTHACEAE		
<i>Dicliptera bupleuroides</i> Nees		H(WD)
<i>Hemigraphis hirta</i> (Vahl) T.Anders.		H(FL)
<i>Hygrophila schulli</i> (F.Hamilton) M.R.& Almeida	Gokhula-k-kaant	H(WD)
<i>H. polysperma</i> (Roxb.) T. Anders.		H(WD)
<i>Justicia adhatoda</i> L.	Asuro	S(FL)

<i>Justicia quinqueangularis</i> J.Koning ex Roxb.		H (WD)
<i>J. procumbens</i> var. <i>simplex</i> (D.Don) T.Yamaz.		H(FL)
<i>Peristrophe bicalyculata</i> (Retz.) Nees		H(FL)
<i>Ruellia tuberosa</i> L.		H(WD)
<i>Rungia parviflora</i> (Retz.) Nees		H(FL)
AMARANTHACEAE		
<i>Achyranthes aspera</i> L.	Chirchirjda, Apamarg	H(FL)
<i>Aerva sanguinolenta</i> (L.) Blume		H(FL)
<i>Alternanthera paronychioides</i> St. Hil.		H(WD)
<i>Alternanthera sessilis</i> (L.) DC.	Saranchi	H(FL, WD)
<i>Amaranthus spinosus</i> L.	Kataiya	H(FL)
<i>A.hybridus</i> ssp. <i>cruentus</i> (L.)Thell.	Ginari Saag	H(CW)
<i>A. tricolor</i> L.		H(FL)
<i>A. viridis</i> L.	Jangalo Thariya ke Saag	H(FL)
<i>Celosia argentea</i> L.		H(CW)
<i>Gomphrena celosioides</i> Mart.	Giduni	H(FP, FL)
ANCARDIACEAE		
<i>Lannea coromandelica</i> (Houtt.) Merr.	Hallude	T(FP)
<i>Semecarpus anacardium</i> L.f.	Bhela, Bhalayo	T(FP)
APOCYNACEAE		
<i>Holarrhena pubescens</i> (Buch.-Ham.) Wall. ex G. Don		Madeshe Khirro S(FP)
<i>Ichnocarpus frutescens</i> (L.) R. Br.	Gahumani	C(FP)
<i>Thevetia peruviana</i> (Pers.) K. Schum.		S(FL)
<i>Plumeria rubra</i> L.		S (FL)
ASCLEPIADACEAE		
<i>Asclepias curassavica</i> L.		S(FL)
<i>Calotropis gigantean</i> (L.) Dryand.	Akon	S(FL)
<i>C. procera</i> (Aiton) Dryand.	Akon	C(FP)
<i>Cryptolepis buchananii</i> Roem & Schult.		C(FL)
<i>Oxystelma esculentum</i> Schult.		

ASTERACEAE

<i>Ageratum conyzoides</i> L.	Rawune, Gandhe	H(FL, WD)
<i>Artemisia indica</i> Willd.	Titepati	H(FL)
<i>Bidens biternata</i> L.		H(FL)
<i>Blumea lacera</i> (Burm.f.)DC.		H(FL)
<i>B. mollis</i> (D. Don) Merr.		H(FL)
<i>Breea arvensis</i> (L.) Less.	Thakal	H(FL)
<i>Caesulia axillaris</i> Roxb.	Thukaha	H(WD)
<i>Centipeda minima</i> (L.) A.Br. & Aschers.		H(FL)
<i>Conyza bonariensis</i> (L.) Crong.		H(FP)
<i>Cotula hemisphaerica</i> (Roxb.) Wall. ex Cl.		H(CW, FL)
<i>Eclipta prostrata</i> (L.) L.	Vangrila, Bhrigraj	H(FP)
<i>Emilia sonchifolia</i> (L.) DC.		H(FL)
<i>Elephantopus scaber</i> L.	Khotila Khar, Sabsoria, Mulapatey	H(FP)
<i>Gnaphalium affine</i> D. Don	Kairo Jhar	H(FL)
<i>G. polycaulon</i> Pers.		H(FL)
<i>Grangea maderaspatana</i> (L.) Poir.		H(FL)
<i>Ixeris polycephala</i> Cass.		H(FL)
<i>Launaea aspleniifolia</i> (Willd.) Hook. f.		H(FL, CW)
<i>Mikania micrantha</i> Kunth		C (FL)
<i>Parthenium hysterophorus</i> L.		H(FL)
<i>Sonchus asper</i> (L.) Hill		H(CW)
<i>Sphaeranthus indicus</i> L.	Bhukadam	H(FL)
<i>Spilanthes calva</i> A. Candolle		H (WD)
<i>Synedrella nodiflora</i> Gaertn.		H(FL)
<i>Tridax procumbens</i> L.		H(FL)
<i>Vernonia cinerea</i> (L.) Less.	Mirchiya	H(FL)
<i>Youngia japonica</i> (L.) DC.		H(FL)
<i>Xanthium strumarium</i> L.	Lapetuwa, Bhedekuro	S(FL, WD)

BASELLACEAE

Basella alba L. Poye ke Saag C(FL)

BOMBACACEAE

Bombax ceiba L. Simal, Simar T(FP, WD)

BORAGINACEAE

Bothriospermum zeylanicum (Jack.) Druce H(FL)

Cynoglossum lanceolatum Forssk. Kanike H(FL)

Heliotropium indicum L. Heathi-sure H(FL)

Heliotropium strigosum ssp.
brevifolium (Wall.) Kazmi H (FL, WD)

BRASSICACEAE

Rorippa nasturtium-aquaticum
(L.) Hayek H(WD)

R. indica (L.) Hiern H(FL, WD)

CANNABACEAE

Cannabis sativa L. Bhangai, Ganja H(FL)

CAPPARACEAE

Capparis zeylanica L. Kabara S(FL)

Cleome gynandra L. H(FL)

C. viscosa L. Hurhur H(FL)

CERATOPHYLLACEAE

Ceratophyllum demersum L. Sewar H(WD)

CHENOPODIACEAE

Chenopodium ambrosioides L. Gahuana Khar H(FL)

COMBRETACEAE

Anogeissus latifolia (Roxb. ex DC.)
Wall & Perr. Banjhi T(FP, WD)

Terminalia alata Heyne ex Roth Asna, Saj T(FP, WD)

T. bellica (Gaertn.) Roxb. Baheri, Barro T(FP, WD)

CONVOLVULACEAE

Evolvulus nummularius (L.) L. H(FL)

Ipomoea aquatica Forssk. Karmi ke Saag C(WD)

I. cairica (L.) Sweet C(FL)

<i>I. carnea</i> Jacq. ssp. <i>fistulosa</i> (Mart. ex Choisy) Austin	Behaya, Besharam, Dudhiya	C(WD)
<i>I. nil</i> (L.) Roth		C(FL)
<i>I. quamoclit</i> L.		C(FL)
<i>Merremia hederacea</i> (Burm.f.) Hall.f.		C(FL)
CUCURBITACEAE		
<i>Citrullus lanatus</i> (Thunb.) Matsumura & Nakai	Tarbuja	C(FL, WD)
<i>Coccinea grandis</i> (L.) Voigt	Tilkor	C(FL)
<i>Cucumis melo</i> var. <i>agrestis</i> Naud	Ghurmi, Petul	C(FL, CW)
<i>Diplocyclos palmatus</i> (L.) C. Jeffrey		C(FL)
<i>Mukia maderaspatana</i> (L.) Roem.		C(FL)
CUSCUTACEAE		
<i>Cuscuta reflexa</i> Roxb.	Akashlati, Paheli Lahara	C(FP)
DIPTEROCARPACEAE		
<i>Shorea robusta</i> Gaertn. f.	Sakhuya, Sal	T(FP, WD)
ELATINACEAE		
<i>Bergia ammannioides</i> Roxb.		H(WD)
EUPHORBIACEAE		
<i>Bridelia stipularis</i> (L.) Blume		S(FL, FP)
<i>Croton bonplandianus</i> Baill.	Mirchaira	H(FP)
<i>E. heterophylla</i> L.		H(FL)
<i>E. hirta</i> L.	Dudhiya	H(FP)
<i>E. prostrata</i> Ait.	Dudhiya	H(FP)
<i>E. thymifolia</i> L.		H(FL)
<i>Jatropha curcas</i> L.	Bangrera	S(FL)
<i>J. gossypifolia</i> L.	Bangrera	S(FL)
<i>Mallotus philippensis</i> (Lam.) Muell.-Arg.	Roena, Sindure	T(WD, FP)
<i>Phyllanthus embelica</i> L.	Aura, Amla	T(FP)
<i>P. reticulatus</i> Poir.		S(FL, FP)
<i>P. urinaria</i> L.	Bhuin amla	H(FL)

<i>P. virgatus</i> G. Forst	Amla jhar	H(FL)
<i>Ricinus communis</i> L.	Andir	S(FL)
<i>Trewia nudiflora</i> L.	Bhilor	T(FP)
FABACEAE		
<i>Abrus precatorius</i> L.	Karjani, Sakhine, Lalgedi	C(FL)
<i>Acacia catechu</i> (L. f.) Willd.	Khair, Katha	T(FP, WD)
<i>A. nilotica</i> ssp. <i>Indica</i> (Benth.) Brenan	Babul	T(FL, WD)
<i>Aeschynomene indica</i> L.	Chilbil	H(FL, WD)
<i>Aeschynomene asper</i> L.	Dhondia	H(FL, WD)
<i>Albizia procera</i> (Roxb.) Benth.	Siris	T(FP)
<i>A. lebbeck</i> (L.) Benth.	Siris	T(FP)
<i>A. chinensis</i> (Osbeck) Merr.	Siris	T(FP)
<i>Alysicarpus vaginalis</i> (L.) DC.		H(FL)
<i>Atylosia scarabaeoides</i> (L.) Benth.	Jilebi	C(FP)
<i>Bauhinia purpurea</i> L.	Koiralo	T(FP)
<i>B. vahlii</i> Wight & Arn.	Malhan, Bhorla	C(FP, WD)
<i>Caesalpinia bonduc</i> (L.) Roxb.		C (FL)
<i>Cassia fistula</i> L.	Rajbrikhsha, Amaltash	T(FP)
<i>C. occidentalis</i> L.	Tapre, Chakor	H(FL)
<i>C. siamea</i>		T (FL)
<i>C. sophera</i> L.	Tapre	H(FL)
<i>C. tora</i> L.	Chakor, Tapre	H(FL, WD)
<i>Crotalaria pallida</i> Ait.	Jhunjhuna	H(FP)
<i>C. prostrata</i> Rottb. ex Willd.		H(WD)
<i>Dalbergia sissoo</i> Roxb. ex DC.	Sisso	T(WD)
<i>Delonix regia</i> (Bojer ex Hook.) Raf.	Gulmohar	T(CW)
<i>Desmodium gangeticum</i> (L.) DC.		S (FL, CW)
<i>heterocarpon</i> (L.) DC.		H(FP)
<i>D. laxiflorum</i> (Willd.) DC.	Kuro	H(FP)
<i>D. triflorum</i> (L.) DC.	Tikuli (Septic)	H(FP)
<i>Flemengia macrophylla</i> (Willd.) Merr.		S(FP)

<i>Indigofera linifolia</i> (L. f.) Retz.		H(FL)
<i>Leucaena leucocephala</i> (Lam.) de Wit		T (FP)
<i>Medicago lupulina</i> L.		H(CW, FL)
<i>Melilotus alba</i> Medic.ex Desr.	Methi Jhar	H(CW, FL)
<i>Mimosa pudica</i> L.	Lajaunia Jhar	S(FL, WD)
<i>M. rubicaulis</i> Lam.	Arar	S(FP)
<i>Mucuna pruriens</i> (L.) DC.	Kauso	C(FL)
<i>Phyllodium pulchellum</i> (L.) Desv.	Kanani	S(FP)
<i>Saraca asoca</i> (Roxb.) de Wilde		T (CW)
<i>Sesbania bispinosa</i> (Jack.) W. F. Wight		H(FL, WD)
<i>Tamarindus indica</i> L.	Imli	T(FP)
<i>Uraria lagapodioides</i> (L.) Desv.		H(FP)
<i>U. picta</i> (Jacq.) Desv. ex DC.		H(FP)
<i>Vicia angustifolia</i> L.	Akta Misia	H(CW)
<i>V. hirsuta</i> (L.) S. F. Gray		H(FL)
GETIANACEAE		
<i>Canscora decussata</i> (Roxb.) R. & S.		H(WD)
<i>C. diffusa</i> (Vahl) R. Br.		H(WD, FL)
<i>Exacum tetragonum</i> Roxb.		H(FL, WD)
<i>Nymphoides hydrophyllum</i> (Lour.) Kuntze		H(WD)
<i>Nymphoides indica</i> (L.) Kuntze		H(WD)
HYDROPHYLLACEAE		
<i>Hydrolea zeylanica</i> (L.) Vahl		H(WD, FL)
HIPPOCRATEACEAE		
<i>Reissantia arborea</i> (Roxb.) Hara	Chatpatia	S(FP)
LAMIACEAE		
<i>Anisomeles indica</i> (L.) Kuntze	Ratochrapate	H(WD)
<i>Hyptis suaveolens</i> (L.) Poit.	Ban tulsi	H(FP, FL)
<i>Leucas cephalotes</i> (Roth.) Spreng.		H(FL)
<i>L. indica</i> (L.) R. Br. ex Vatke	Guma, Dulphe Jhar	H(FL)

<i>Ocimum americana</i> L.	Babari Phool	H(FL)
<i>O. teniflorum</i> L.	Tulsi	H(CW, FL)
<i>Pogostemon benghalensis</i> (Burm.f.) Kuntze	Bokuwa, Utjar, Rijilo	S(FL)
<i>Salvia plebeia</i> R. Br.		H(WD)
LECYTHIDACEAE		
<i>Barringtonia acutangula</i> (L.) Gaertn.	Panaiya	T(FP)
LENTIBULARIACEAE		
<i>Utricularia aurea</i> Lour.		H(WD)
<i>U. exoleta</i> R. Br.		H(WD)
LYTHRACEAE		
<i>Ammannia baccifera</i> L.		H(WD)
<i>Lagerstroemia parviflora</i> Roxb.	Sidh, Bot Dahngreo	T(FP)
<i>Rotala indica</i> (Willd.) Koehne		H (WD)
<i>Woodfordia fruticosa</i> (L.) Kurz	Burghairo	S(FP)
		H(WD)
MALVACEAE		
<i>Abutilon indicum</i> (L.) Sweet		S(FP, FL)
<i>Gossypium herbaceum</i> L.	Kapas	S(FL)
<i>Sida acuta</i> Burm. f.	Bariyar, Balu	H(FL)
<i>S. cordata</i> (Burm. f.) Borss.	Bariyar	H(FL)
<i>S. rhombifolia</i> L.	Bariyar	H(FL)
<i>Thespesia lampus</i> (Cav.) Dalz. & Gibson		H(FP)
<i>Urena lobata</i> L.	Kakahi, Lapta, Thulo Ballu	H(FL)
MELIACEAE		
<i>Azadirachta indica</i> Juss.	Neem	T(FL)
<i>Melia azedarach</i> L.	Bakenu	T(FL)
MENISPERMACEAE		
<i>Cissampelos pariera</i> L.		C(FP)
<i>Tinospora sinensis</i> (Lour.) Merr.	Gurguj	C(FP)

<i>Tiliacora acuminata</i> (Lamk.) Hook.f. & Thompson		S (FP)
MORACEAE		
<i>Artocarpus lakoocha</i> Wall. ex Roxb.	Badhar	T(FL)
<i>A. heterophyllus</i> Lam.	Rukh Katahar	T(FL)
<i>Ficus benghalensis</i> L.	Bargat, Bar	T(FL)
<i>F. hispida</i> L. f.	Kothedumar, Khasreto	T(FL)
<i>F. racemosa</i> L.	Guilar, Dumri	T(FL)
<i>F. religiosa</i> L.	Pipal	T(FL)
<i>F. semicordata</i> Buch.-Ham. ex Sm.	Khnyo	T(FL)
<i>F. virens</i> Aiton	Pakar	T(FL)
<i>Streblus asper</i> Lour.	Sihora	T(FP, WD)
MORINGACEAE		
<i>Moringa oleifera</i> Lamk.	Sahinjan	T(FL)
MYRTACEAE		
<i>Eugenia kurzii</i> Duthie	Jamun	T(FP)
<i>Syzygium cumini</i> (L.) Skeels	Jamun	T(FP, WD)
NYMPHAEACEAE		
<i>Nelumbo nucifera</i> Gaertn.	Kamal, Purain	H(WD)
<i>Nymphaea nouchali</i> Burm. f.	Malkokka, Kamal, Kaiya	H(WD)
NYCTAGINACEAE		
<i>Boerhavia diffusa</i> L.	Punarnawa	H(FL)
ONAGRACEAE		
<i>Fissendocarpa linifolia</i> (Vahl) Bennet	Lwangi Jhar	H(WD)
<i>Ludwigia adscendens</i> (L.) Hara		H(WD)
<i>L. octovalvis</i> (Jacq.) Raven	Lwangi Jhar	H(WD)
<i>L. perennis</i> L.		H(WD)
OXALIDACEAE		
<i>Oxalis corniculata</i> L.	Amta, Chari amilo	H(WD)
PAPAVERACEAE		
<i>Argemone mexicana</i> L.	Kataiya, Thakal	H(FL, WD)

<i>Fumaria indica</i> (Hauskn.) Pugsley		H(CW, WD)
PIPERACEAE		
<i>Peperomia pellucida</i> (L.) Kunth	Pipla Jhar	H(FL)
POLYGALACEAE		
<i>Polygala arvensis</i> Willd.		H (FL)
POLYGONACEAE		
<i>Persicaria barbatum</i> (L.) Hara	Bisnar, Pire Jhar	H(WD)
<i>P. hydropiper</i> (L.) Spach	Pre Jhar	H(WD)
<i>P. lapathifolia</i> var. <i>tomentosa</i> (Schränk) Gross	Mirmiriya	H(WD)
<i>Polygonum limbatum</i> (Meisn.) Hara	Baunka	H (WD)
<i>P. plebeium</i> R. Br.		H(WD)
<i>Rumex dentatus</i> L.	Halhale	H(WD)
PORTULACACEAE		
<i>Portulaca oleracea</i> L.	Nuniya ke Saag	H(FL)
PRIMULACEAE		
<i>Anagallis arvensis</i> L.	Aramale	H(FL)
<i>Androsace umbellata</i> (Lour.) Merr.		H(FL)
RANUNCULACEAE		
<i>Ranunculus sceteratus</i> L.		H(WD)
RHAMNACEAE		
<i>Ziziphus mauritiana</i> Lam.	Bayar	S(FL)
RUBIACEAE		
<i>Anthocephalus chinensis</i> (Lam.) A. Rich.ex Walp.	Kadam	T(FL, WD)
<i>Borreria alata</i> (Aubl.) DC.		H(FP, WD)
<i>Catunaregam uliginosa</i> (Retz.) Sivarajan	Pirar	T(FP, WD)
<i>Haldina cordifolia</i> (Roxb.) Ridsdale	Karma, Haldu	T(FP, WD)
<i>Hedyotis corymbosa</i> (L.) Lam.		H(CW, WD)
<i>Hedyotis diffusa</i> Willd.		H(CW, WD)
<i>Mitragyna parvifolia</i> (Roxb.) Korth.		T (FP)

RUTACEAE

Aegle marmelos (L.) Correa Bel T(FP)

SAPINDACEAE

Schleichera oleosa (Lour.) Oken Athiyar, Kusum T(FP)

SAPOTACEAE

Madhuca longifolia (Koenig) Macbride Ban Mahuwa T(FP)

SCROPHULARIACEAE

Dopatrium junceum (Roxb.) Buch.-Ham. ex Benth. H (WD)

Lindenbergia indica (L.) Vatke H(WD)

Lindernia anagallis (Burm.f.) Pennell H (WD)

L. antipoda (L.) Alston H (WD)

L. ciliata (Colsm.) Pennell H (WD)

L. crustacea (L.) F. Muell. H (WD, FP)

L. oppositifolia (L.) Mukerjee H (WD)

L. viscosa (Hornem.) Boldingh H (WD)

Mazus pumilus (Burm.f.) van Steenis H (WD)

Scoparia dulcis L. Mitho Jhar H (WD, FP)

Veronica anagallis-aquatica L. H (WD)

SOLANACEAE

Datura metel L. Dhaturu S (FL)

Physalis peruviana D.Don Jangali Mewa H (FL)

P. minima L. H (FL)

Solanum aculeatissima Jacq. Kantakari H (FL)

S. nigrum L. Kali gedi H (FL)

S. surattense Burm.f. Kantakari H (FL)

S. torvum Swartz Banbihi S (FL)

SPHENOCLEACEAE

Sphenoclea zeylanica Gaertn. Panimarich H (WD)

STERCULACEAE

Melochia corchorifolia L. Patuwa Jhar H (FL)

TILIACEAE

<i>Triumfetta rhomboides</i> Jacq.	Ban Patuwa	H (FL)
<i>Corchorus aestuans</i> L.		H (FL)

TRAPACEAE

<i>Trapa bispinosa</i> Roxb.	Pani-Singara	H (WD)
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ULMACEAE

<i>Trema orientalis</i> (L.) Blume	Madishe Khari	T (CW, FL)
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UTRICACEAE

<i>Boehmeria platyphylla</i> D.Don	Gargalo	H (WD, FL)
<i>Pouzolzia zeylanica</i> (L.) Benn. &R.Br.		H (WD)

VERBENACEAE

<i>Callicarpa arborea</i> Roxb.	Guyallo	S(FL)
<i>C. macrophylla</i> Vahl	Dudhiyadi ke Lawa	S(FL)
<i>Clerodendrum indicum</i> (L.) Kuntze	Babhnaithi	S (FL, FP)
<i>C. viscosum</i> Vent.	Bhat	S (FL, FP)
<i>Duranta erecta</i> L.	Nil Kanda	S (FL)
<i>Lippia geminate</i> H.B.&K.	Ban Tulsi	S (FL)
<i>Phyla alba</i> (Mill.) Britton ex Britton & Wilson		H (FL, WD)
<i>Tectonia grandis</i> L.f.	Teakj	T (FP)
<i>Verbena officinalis</i> L.		H (FL, WD)
<i>Vitex negundo</i> L.	Simali	S (FL)

VITACEAE

<i>Cayrantia trifolia</i> (L.) Domin Monocotyledons	Panlati	C (FP, WD)
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ARACEAE

<i>Amorphophallus bulbifera</i> (Schott) Blume	Oal	H (WD)
<i>A. poenoniifolius</i> (Dennst.) Nicolson	Oal	H (WD)
<i>Colocasia esculenta</i> (L.) Schott Karkalo	Arikoch, Pindalu,	H (WD)
<i>Pistia stratiotes</i> L.	Jal Kumbhi, Jal Kobhi	H (WD)

AMARYLLIDACEAE

Crinum defixum Ker-Gawl. Ban Piyaz H (WD)

CANNACEAE

Canna indica L. H(WD)

COMMELINACEAE

Commelina benghalensis L. Ban Kane H (WD)

C. paludosa Blume Ban Kane H (WD)

Murdania nudiflora (L.) Brenam Kaane Jhar H (WD)

Tonningia axillaris (L.) Kuntz. Kaane Jhar H (WD)

CYPERACEAE

Cyperus compactus Retz. Mothe H (WD)

C. compressus L. Mothe H (WD)

C. corymbosus Rottb. Mothe H (WD)

C. cyperoides (L.) Kuntze Mothe H (WD)

C. difformis L. Mothe H (WD)

C. distans L.f. Mothe, Fulena H (WD)

C. halpan L. Mothe H (WD)

C. iria L. Mothe H (WD)

C. pilosus Vahl Mothe H (WD)

C. pseudokyllingioides Kukuenth. Mothe H (WD)

C. rotundus L. Mothe H (WD)

Elaeocharis dulcis (Burm.f.) Trin. ex Henschel Mothe, Thoti H (WD)

E. congesta D.Don H (WD)

Fimbristylis aestivalis (Retz.) Vahl H (WD)

F. dichotoma (L.) Vahl Mothe, Murena H (WD)

F. miliacea (L.) Vahl Juwane H (WD)

F. schoenoides (Retz.) Vahl H (WD)

Kyllinga brevifolia Rottb Mothe H (WD)

Kyllinga nemoralis (J.R. & G. Forster) Dandy ex Hutch. & Dalziel Mothe H (WD)

Pycneus pumilus L. H (WD)

<i>P. sanguinolentus</i> (Vahl) Nees ex Cl.		H (WD)
<i>Schoenolectus juncooides</i> Palla		H (WD)
<i>S. articulatus</i> Palla		H (WD)
<i>S. mucronatus</i> (L.) Palla		H (WD)
ERIOCAULACEAE		
<i>Eriocaulon cinereum</i> R.Br.		H (WD)
HYDROCHARITACEAE		
<i>Hydrilla verticillata</i> (L.f) Royle		H (WD)
<i>Ottelia alismoides</i> (L.)Pers.	Chigairi	H (WD)
LEMNACEAE		
<i>Lemna perpusilla</i> Torrey	Leu	H (WD)
<i>Spirodela polyrhiza</i> (L.) Schleiden	Leu	H (WD)
LILIACEAE		
<i>Asparagus recemosus</i> Willd.	Santawar, Kurilo	S (FP)
<i>Chlorophytum tuberosum</i> (Roxb.) Baker		H (WD)
NAJADACEAE		
<i>Najas graminea</i> Dilile		H (WD)
POACEAE		
<i>Apluda mutica</i> L.	Dakle Khar	H (WD, FL)
<i>Bothriochloa bladhii</i> (Retz.) Blake		H (WD, FL)
<i>Brachiaria ramosa</i> (L.)Stapf	Likhe Banso	H (WD, FL)
<i>B. reptans</i> Gardn. & Hubb.		H (WD, FL)
<i>Chrysopogon aciculatus</i> (Retz.) Trin.	Kuro	H (WD, FL)
<i>Coix lachryma-jobi</i> L.	Jabe	H (WD, FL)
<i>Cynodon dactylon</i> (L.) Pers.	Dubo	H (WD, FL)
<i>Cyrtococcum accrescens</i> (Trin.) Stapf		H (WD)
<i>Dactyloctenium aegypticum</i> (L.) Beauv.		Makure JharH (WD, FL, CW)
<i>Desmostachya bipinnata</i> (L.) Stapf	Kush	H (WD, FL, CW)
<i>Dichanthium annulatum</i> (Forssk.) Stapf		H (WD, FL, CW)
<i>Digitaria ciliaris</i> (Retz.) Koeler	Chipe Banso, Janati	H (WD, FL, CW)

<i>D. setigera</i> Roth ex R.&S.		H (WD, FL)
<i>Echinochloa colona</i> (L.) Link	Sama	H (WD)
<i>E. crusgalli</i> (L.) Beauv.	Sama	H (WD)
<i>Eleusine indica</i> (L.) Gaertn.	Kode Jhar	H (WD, FL, CW)
<i>Eragrostis atrovirens</i> (Desf.) Trin.ex Steud.	Tike Jhar	H (WD, FL, CW)
<i>E. gangetica</i> (Roxb.) Steud.	Banso	H (WD, FL, CW)
<i>E. japonica</i> (Thunb.) Trin.	Banso	H (WD, FL, CW)
<i>E. tenella</i> (L.) Beauv. ex R.&S.	Juge Banso	H (WD, FL, CW)
<i>E. uniloides</i> (Retz.) Nees ex Steud.		H (WD)
<i>Eriochloa procera</i> C.B. Hubb.		H (WD, FL)
<i>Eulaliopsis bipinnata</i> (Retz.) Hubb.	Sabo, Babiyo	(FL, WD)
<i>Hemarthria compressa</i> (L.f.) R.Br.		H (WD)
<i>Hygroryza aristata</i> (Retz.) Nees ex Wight & Arn.		H (WD)
<i>Imperata cylindrica</i> (L.) Beauv.	Bhaluwai, Siru	H (WD, FL)
<i>Ischaemum rugosum</i> Salisb.		H (WD)
<i>Leersia hexandra</i> Sw.	Karaute Jhar	H (WD)
<i>Oryza rufipogon</i> Griff.	Tinni, Jangali Dhan	H (WD)
<i>Oplismenus burmanii</i> (Retz.) Beauv.	Chitre Banso	H (WD, FL)
<i>O. compositus</i> (L.) Beauv.		H (WD, FL)
<i>Panicum paludosum</i> Roxb.	Urila	H (WD, FL)
<i>P. trypheron</i> Schult.		H (WD)
<i>Paspalidum flavidum</i> (Retz.) A.Camus		H (WD, FL)
<i>Paspalum distichum</i> L.	Pani Dubo	H (WD, FL)
<i>P. scrobiculatum</i> L.		H (WD, FL)
<i>Phlaris minor</i> Retz.		H (WD, CW)
<i>Phragmites vallatoria</i> (L.) Veldk.	Narkat	H (WD)
<i>Saccharum spontaneum</i> L.		H (WD, FL)
<i>S. bengalensis</i> Ham.		H (WD, FL)
<i>Sacciolepis indica</i> (L.) A.Chase		H (WD)
<i>Setaria galuca</i> (L.) Beauv.	Bansi Jhar	H (WD, FL)

<i>S. pumila</i> (Poir.) R.&S.		H (WD, FL)
<i>Sporobolus indicus</i> var. <i>diander</i> Jov. & Gued.		H (WD, FL)
<i>Vetiveria zizanioides</i> (L.) Nash	Badani, Barni	H (WD, FL)
PONTEDERIACEAE		
<i>Eichhornia crassipes</i> (Mart.) Solm.	Talpatana, Jal Kumbhi	H (WD)
<i>Monochoria hastata</i> (L.) Solm.		H (WD)
<i>M. vaginalis</i> (Burm.f.) C.Presl.		H (WD)
POTAMOGETONACEAE		
<i>Potamogeton criospus</i> L.		H(WD)
<i>P. pectinatus</i> L.		H(WD)
TYPHACEAE		
<i>Typha angustifolia</i> L.	Pater, Patarah	H(WD)
ZINGIBERACEA		
<i>Costus speciosus</i> (Koenig.) Smith	Betlauri	H (FP)

Note: H=herb; S=shrub; T=tree; C=climber; CW=cropland; FL=fallow land/Grassland; FP=forest plant; WD=wetland dependent.

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