

ANGIOSPERM FLORA OF DARBHANGA (MITHILA, NORTH BIHAR)—III

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ABSTRACT

This includes a total of 147 species, 114 genera and 49 families. 42 families, 90 genera and 109 species belong to dicots; and 7 families, 24 genera and 38 species to monocots. In addition, 7 gymnosperms and 13 pteridophytes have also been listed. This makes the last and final part of the work, as far as this author could do.

ENUMERATION

ANGIOSPERMS

DICOTYLEDONAE

MAGNOLIACEAE

Magnolia stellata Maxim.

In gardens, flowering, Darbhanga, Feb. 70.

Michelia suberosa Benth. & H. K. f.

In gardens, Darbhanga, Feb. 70.

ANNONACEAE

Atrabotrys hexapetala (Linn.) Bhandari

In gardens, flowers and fruits, Darbhanga, Feb. 70.

A. odoratissimus R. Br.

In gardens, flowers, Darbhanga, Feb. 70.

BIXACEAE

Bixa orellana Linn.

Wild, occasional, small tree, fruits, Darbhanga, Feb. 70.

FLACOURTIACEAE

Flacourtia sepiaria Roxb.

Wild, small tree, fruits, Darbhanga, Feb. 70.

CARYOPHYLLACEAE

Polyocarpon loeflingae Benth. & Hook.

Wild herb in shade, Mahathour, Aug. 70.

AIZOACEAE

Mesembrianthemum crinifolium Linn.

Flowers, Darbhanga, Feb. 70.

TAMARICACEAE

Tamarix aphylla (Linn.) Karst.***T. indica*** Ehrenb.***T. troupii*** Hole.

All species wild shrub, by the side of rivers, Pusa, April 70.

MALVACEAE

Malvaviscus arboreus Cav.

Small shrubby plant, in gardens, flowers, Darbhanga, Feb. 70.

Sida rhombifolia Linn.

Wild, herb, in orchards, Pusa, March 71.

STERCULIACEAE

Guazuma tomentosa H. B. & K.

In gardens, Darbhanga, Sept. 71.

Heritiera fomas F. B. I.

Common wild tree, Chaprar, Jan. 71.

Kleinhovia hospita Linn.

Ornamental, cultivated, Darbhanga.

Melochia corchorifolia Linn.

In gardens, Darbhanga, Feb. 70.

Pterospermum acerifolium Willd.

In gardens, Darbhanga, Feb. 70.

Sterculia acerifolia A. Cunn.

In gardens, Darbhanga.

S. alata Roxb.

In gardens, Darbhanga.

S. fulgens Wall.

In gardens, Darbhanga.

LINACEAE

Reinwardtia indica Dumort.

Ornamental, Darbhanga, Feb. 70.

MALPIGHIACEAE

Hiptage madablota Gaertn.

In gardens, Darbhanga, Dec. 70.

GERANIACEAE

Averrhoa carambola Linn.

Rare, road sides, fruits for pickles, Darbhanga, March 70.

RUTACEAE

Citrus decumena Linn.

In orchards, flowers and fruits, Mahathour, March 71.

Murraya koenigii Spreng.

In gardens, Darbhanga, Feb. 70.

RHAMNACEAE

Zizyphus oenophila Mill.

Wild along road sides, Kamtaul, Sept. 70.

SAPINDACEAE

Dodonaea viscosa Linn.

In gardens, Darbhanga, April 70.

Filicium decipiens Thw.

In gardens, Darbhanga, April 70.

Schlecheira trijuga Willd.

In gardens, Darbhanga, Dec. 70.

LEGUMINOSAE

Acacia auriculiformis A. Cunn. ex Benth.

Ornamental tree in gardens, Darbhanga, June 70.

A. farnesiana Willd.

In gardens, Darbhanga.

A. nilotica var. **indica** (Benth.) Brenan.

In gardens.

Caesalpinia ferruginea Miq.

In gardens, Darbhanga, Nov. 70.

Crotalaria prostrata Roxb.

Wild herb in shade, Manigachi, Feb. 71.

Desmodium triflorum DC.

Wild, orchards, Darbhanga, March 70.

Erythrina indica Lamk.

In gardens, Darbhanga, Feb. 70.

Haematoxylon capechainum Linn.

In gardens, Darbhanga, March 70.

Parkia biglandulosa W. & A.

Large shady tree in gardens, Darbhanga, April 70.

Peltophorum inerme (Roxb.) Ilanos.

Ornamental tree, Darbhanga, April 72.

Pongamia glabra Vent.

In gardens, Darbhanga, April 71.

Uraria lagopoides DC.

Wild in orchards, Sakri, March 70.

U. picta Desv.

Wild, Darbhanga, March 71.

ROSACEAE

Prunus persica Benth. & Hook.

In gardens, Darbhanga.

Pyrus malus Linn.

In gardens, Darbhanga, Feb. 70.

COMBRETACEAE

Terminalia belerica Roxb.

In gardens, Darbhanga.

T. catappa Linn.

Large ornamental tree, Darbhanga.

MYRTACEAE

Callistemon lanceolatus Sweet.

In gardens, Pusa.

Eucalyptus citriodora Hook.

In gardens, Darbhanga.

Eugenia operculata Roxb.

In gardens, Darbhanga.

CUCURBITACEAE

Cucumis trigonus Roxb.

Wild on river sides, Darbhanga, Aug. 70.

Trichosanthes palmata Roxb.

Wild in crop fields, Rasiyari.

BIGNONIACEAE

Jacaranda mimosifolia D. Don

In gardens, Darbhanga.

Kigellia pinnata DC.

Large shady tree in gardens, Darbhanga, April 71.

Millingtonia hortensis Linn.

Cultivated on road sides, Gausaghat, flowers, July 72.

RUBIACEAE

Gardenia florida Linn.

In gardens, flowers, Darbhanga, May 70.

G. lucida Roxb.

In gardens, Darbhanga.

Vangueria spinosa Roxb.

In gardens, Darbhanga.

COMPOSITAE

Arctotis stoechaditolia Berg.

Bhagwanpur, June 70.

Costus speciosus Sm.

Wild in shade, Darbhanga.

Cotula australis Hook. f.

Wild, Darbhanga, Aug. 71.

C. anthemoides Linn.

Weed in crop fields, Mahathour, Feb. 71.

Rudbeckia bicolor Nutt.

In waste land and orchards.

PLUMBAGINACEAE

Plumbago capensis Thunb.

In gardens, Darbhanga.

MYRSINACEAE

Jacquina ruscifolia Jacq.

SAPOTACEAE

Mimusops kauki Linn.

In gardens, Darbhanga.

EBENACEAE

Diospyros embryopteris Pers.

Large tree on road sides.

D. kaki Linn.

Cultivated and wild both, Darbhanga.

D. montana Roxb.

Small garden tree, Darbhanga, Dec. 71.

APOCYNACEAE

Aganosma caryophyllata G. Don

Wild in neglected areas, Laheriasarai, July 70.

Nerium indicum Mill.

In gardens, Darbhanga, Dec. 70.

Tracheolospermum ammi Spreng ex Turill.

Wild shrubby plant, Laheriasarai, July 70.

BORAGINACEAE

Coldenia procumbens Linn.**Cordia latifolia** Wall.

Wild, occasional.

C. myxa Linn.

Wild, large tree, Madhepur, June 71.

Heliotropium strigosum Willd.

Wild, Darbhanga, Jan. 70.

CONVOLVULACEAE

Ipomoea nil Roth

Garden climber.

I. rubro-caemlea Hook.

Garden climber, Darbhanga, Feb. 70.

SOLANACEAE

Brunfelsia latifolia Benth.

Wild, Mahathour, Nov. 70.

Hyoscyamus niger Linn.

Cultivated for spices.

Solanum torvum Sw.

Wild, Mahathour, Nov. 70.

SCROPHULARIACEAE

Russelia equisetiformis Linn.

In gardens, Darbhanga.

ACANTHACEAE

Daedalacanthus nervosus T. Anders.

Wild, in orchards, Darbhanga, March 70.

Hemigraphis hirta T. Anders.

Wild, in orchards.

Rhinacanthus nastusa (Linn.) Kurz

Ornamental, Darbhanga.

Swertia chirata Ham.

Cultivated, occasional.

VERBENACEAE

Lantana spp.

In gardens, Darbhanga.

Petreaa volubis Jacq.

In gardens.

NYCTAGINACEAE

Bougainvillea buttiana Holtum & Standley**B. peruviana** Hunb. & Boupl.**B. spectabilis** Willd.

All species in gardens.

Mirabilis jalapa Linn.

Very common in garden and courtyards, flowers, Darbhanga, April 71.

AMARANTHACEAE

Alternanthera pavonynchioides St. Hil.

In wet places, Darbhanga, March 70.

Talanthera ficoides Moq.

Mahathour, Aug. 71.

CHENOPODIACEAE

Chenopodium ambrosioides Linn.

Wild in fields, Darbhanga, Dec. 70.

EUPHORBIACEAE

Acalypha marginata Spreng.

In gardens.

Aleuritus triloba Forst.

Wild, Darbhanga, July 70.

Codiaeum variegatum Linn.

In gardens.

Jatropha gossypifolia Linn.

In gardens.

J. multifida Linn.

In gardens.

Phyllanthus reticulatus Poir.

On road sides, Darbhanga, flowers and fruits, Sept. 71.

P. simplex Retz.

Along rail-tracks, flowers, Laheriasarai, July 71.

Putranjiva roxburghii Wall.

In gardens, Darbhanga.

Xylophila elongatus Willd.

Succulent, in gardens.

URTICACEAE

Ficus carica Linn.

In gardens, Darbhanga.

F. elastica Roxb.

In gardens, Darbhanga.

F. roxburghiana Wall.

In gardens.

Morus nigra Linn.

Cultivated for fruits.

Streblus asper Lour.

Wild on road sides, small tree, Darbhanga, flowers, March 71.

BETULACEAE

Betula alnoides Buch.

In gardens, Darbhanga.

FAGACEAE

Quercus infectoria Oliv.

In gardens, Darbhanga.

MONOCOTYLEDONAE

AMARYLLIDACEAE

Curculigo orchoides Gaertn.

Ornamental garden plant.

Zephyranthes spp.

Wild in orchards during rains.

PONTEDERIACEAE

Pontederia rotundifolia Linn.

In ponds and ditches, Manigachi, Sept. 70.

P. sagittifolia Roxb.

In ditches, Manigachi.

COMMELINACEAE

Commelina obliqua Ham.

Wild, by the side of ponds, Laheriasarai, July 70.

Commelina spp.

Wild, Laheriasarai.

PALMACEAE

Hyphaenae thebaica Mart.

In gardens.

Metroxylon sagus Rottb.

In gardens.

ARACEAE

Caladium procumbens Linn.

Wild, flowers, Mahathour, March 70.

Typhonium trilobatum Schott.

Wild, Mahathour, March 70.

CYPERACEAE

Cyperus compressus Linn.

Wild, Darbhanga.

C. iria Linn.**Fimbristylis aestavalis** Vahl**F. diphylla** Vahl**F. monostachya** Hassk.**Juncellus pygmaeus** C. B. Cl.**Kyllinga brevifolia** Rottb.

All species wild, side of river, Darbhanga, Aug.-Sept. 71.

GRAMINACEAE

Andropogon aciculatus Retz.

Wild.

A. squarrosus Linn.

Wild.

Bambusa vulgaris Schrad.

In gardens, Mahathour.

Desmostachya bipinnata Stapf.

Wild.

Eleusine aegyptiaca Desf.

Wild.

E. indica Gaertn.

Wild.

Eragrostis cynosurioides Beauv.

Wild.

E. interrupta Beauv.

Wild.

E. tenella Benth.

Wild.

Eriochloa polystachya H. B. & K.

Wild.

Inuperata cylindrica Beauv.

Wild.

Leptochloa filiformis R. Br.

Wild.

Manisuris grandis Linn.

Wild.

Panicum colonum Linn.

Wild.

P. flavidum Retz.

Wild.

P. frumentaceum Roxb.

Wild.

P. javanicum Poir.

Wild.

Paspalum dialatum Poir.

Wild.

P. sanguinale Lamk.

Wild.

P. royleanum Nees

Wild.

P. scrobiculatum Linn.

Wild.

Sorghum cernuum Host.

Wild, all species in courtyard, back of houses, flowering, Darbhanga, Aug.-Sept. 71.

PTERIDOPHYTA

Adiantum caudatum Linn. (Polypodiaceae)**Asplenium esculentum** Presl (Polypodiaceae)**Azolla pinnata** R. Br. (Salviniaceae)**Equisetum diffusum** Don (Equisetaceae)**Lygodium pinnatifidum** Sw. (Schizaeaceae)**Marsilea quadrifolia** Linn. (Marsileaceae)**M. minuta** Linn. (Marsileaceae)**Nephrodium molle** Desv. (Polypodiaceae)**N. truncatum** Presl (Polypodiaceae)**Ophioglossum vulgatum** D'Almeida (Ophioglossaceae)**Pteris biaurita** Linn. (Polypodiaceae)**Salvinia natans** Hoffm. (Salviniaceae)**Selaginella proniflora** Bak. (Selaginellaceae)

All species wild, almost everywhere, all with fertile fronds, except for *Equisetum* that did not produce cones. Abundant in orchards, side of ponds, back of houses during October-March.

GYMNOSPERMAE

Araucaria cunninghamii R. Br. (Araucariaceae)**Biota compacta** Endl. (Pinaceae)**Cupressus sempervirens** Linn. (Pinaceae)

Cycas circinalis Linn. (Cycadaceae)

C. revoluta Thunb. (Cycadaceae)

Pinus longifolia Roxb. (Pinaceae)

Thuja orientalis Linn. (Pinaceae)

All species cultivated in Raj Gardens, Darbhanga.

Note: Pteridophytes and Gymnosperms arranged in alphabetical order. Angiosperms according to Bentham and Hooker (1862-83). Plants reported in Part I of this paper collected during 1964-68, those of Part II during 1968-70, and those of this Part III during 1970-72.

STATISTICAL ACCOUNT

The table below shows a numerical analysis of plants recorded.

CLASS	NUMBER OF PLANTS			
	PART I	PART II	PART III	TOTAL
ANGIOSPERMS				
Species	287	262	147	696
Genera	243	203	114	560
Families	93	63	49	205
DICOTS				
Species	236	233	109	578
Genera	196	176	90	462
Families	75	53	42	170
MONOCOTS				
Species	51	29	38	118
Genera	47	27	24	98
Families	18	10	7	35
Gymnosperms	—	—	7	7
Pteridophytes	—	—	13	13
Trees	53	54	45	152
Shrubs	35	47	16	98
Herbs	152	125	45	322
Aquatics	18	11	4	33
Ornamentals	45	70	40	155
Cultivated	85	105	14	204
Grasses	16	8	28	52

Many of the plants in the artificial groups overlap. They have been included in both. Those that may not be included in any group with certainty have been left. Five largest families are: Leguminosae (72 members), Graminae (52), Compositae (46), Euphorbiaceae (26), Solanaceae (26) and Cucurbitaceae (18).

NEW RECORDS

There are many cultivated crops, garden ornamentals, road side trees or garden trees that are not there in Haines (1921) and Mooney (1950). But those that are wild and not mentioned in these two floras are considered to be new; and also not because of nomenclatural changes. These are *Poa syn-
cruoides* Retz., *Dombeya mastersii* Hook. f., *Lupinus pubescens* Benth., *Majus rugosus* Lour., *Flacourtia sepiaria* Roxb., *Mesembryanthemum crumifolium* Linn., *Arctotis stoechaditolia* Boerg., *Jacquina ruscifolia* Jacq., *Brunfelsia latifolia* Benth.,

Acalypha marginata Spreng., *Aleurites triloba* Forst., *Alternanthera pavonichoides* St. Hil., *Tal-anthora ficoides* Moq., *Pontedaria sagittifolia* Roxb., *Inuperata cylindrea* Beauv.

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