

Additions to Duthie's Flora of the Upper Gangetic Plain

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The Flora of the Upper Gangetic Plain and of the adjacent Siwalik and Sub-Himalayan Tracts including the descriptions of the families Ranunculaceae to Juncaceae was published by Duthie in three volumes from 1903-1920. Before his death in 1922, the families Palmae to Cyperaceae and Alismaceae were also completed by him. The descriptions of the rest of the families (except Gramineae) were written by Parker and Turrill and thus the families Palmae to Cyperaceae were published in 1929. The Flora of the Upper Gangetic Plain does not include an account of grasses but Duthie (1883, 1886, 1888) published some papers based on his extensive collections of the grasses of this region. Later, Bor (1941) published an account of 92 species of grasses from Uttar Pradesh in his treatise COMMON GRASSES OF UNITED PROVINCES. However, it was Raizada (1954) who gave a consolidated account of the grasses of this region listing 250 species distributed among 100 genera.

After the publication of Duthie's flora and Raizada's list of grasses of the Upper Gangetic Plain a large number of additions have been made to them. So far 314 species and 14 varieties belonging to 257 genera and 79 families have been reported by Raizada (1931, 1935, 1936, 1939, 1950, 1958); Raizada & Sharma (1962); Maheshwari, P. (1935); Mukherjee (1953); Srivastava (1955); Bharadwaja *et al.* (1956); Jain (1958); Venkatesh (1960, 1962); Kapoor and Srivastava (1960); Murty & Singh (1961 *a, b*, 1964, 1966); Rolla (1962); Bhattacharyya (1963 *a, b*, 1964); Maheshwari, J. K. (1963, 1966); Singh (1963, 1967); Vaid (1964); Bhandari & Singh (1965); Rajagopal (1965); Dixit & Siddiqui (1966); Malhotra (1966); Rajagopal & Panigrahi (1966, 1967); Husain (1967); Panigrahi & Rajagopal (1967); Saxena (1967); Singh & Murty (1966); Dixit & Singh (1968); Prakasa Rao & Biswas (1968) and Deva (1968) as new records for the Upper Gangetic Plain. While some of these species have escaped notice of earlier collectors, the others are recently introduced exotics which have become naturalized in this region.

While dealing with the plants of the Upper Gangetic Plain, Duthie's flora is being constantly referred to both by the students and the teachers of our colleges and universities and also by foresters. Hence at times necessity has been felt to have a consolidated account of all those species

which have been added in recent years. With this in mind, and as a first step in this direction, a list of all those plants, which have so far been reported as new records for the Upper Gangetic Plain by the various authors, has been compiled. The list is not claimed to be a complete one since many more plants will be added to it in the coming years. But it can serve as a supplement to Duthie's flora for the time being and will be of much help to those who consult the Flora of the Upper Gangetic Plain. The sequence of families, in the list given in the following pages is the same as adopted by Duthie in the Flora of the Upper Gangetic Plain. As far as possible, the names have been amended in accordance with the latest views on the subject.

RANUNCULACEAE

- Clematis cadmia* Buch.-Ham.
- C. grata* Wall.
- Naravelia zeylanica* DC.
- Ranunculus laetus* Wall.
- R. muricatus* Linn.
- R. arvensis* Linn.

MAGNOLIACEAE

- Michelia champaca* Linn.

ANONACEAE

- Uvaria hamiltoni* Hook. f.

MENISPERMACEAE

- Tinospora sinensis* (Lour.) Merr.
(= *T. malabarica* Miers.)

PAPAVERACEAE

- Argemone ochroleuca* Sweet

CRUCIFERAE

- Lepidium ruderae* Linn.
- L. parviflorum* Linn.

CAPPARIDEAE

- Cleome monophylla* Linn.
- C. burmanii* W. & A.
- Crataeva lophosperma* Kurz
- Capparis sepiaria* Linn. var. *retusella* Hook. f.
- C. spinosa* Linn. var. *vulgaris* Hook. f. & Thoms.

VIOLACEAE

- Viola canescens* Wall.

POLYGALEAE

- Polygala cantoniensis* Lour.
- P. irregularis* Boiss.
- P. furcata* Royle

FRANKENIACEAE

- Frankenia pulverulenta* Linn.

CARYOPHYLLEAE

- Cerastium vulgatum* Linn.
- Stellaria paniculata* Edgew.
- Sagina apetala* Linn.

PORTULACACEAE

- Portulaca tuberosa* Roxb.
- P. parvula* Gray
- Talinum paniculatum* Gaertn.

TAMARISCINEAE

- Tamarix troupii* Hole

HYPERICACEAE

- Hypericum oblongifolium* Choisy (= *H. cernuum* Roxb.)

TERNSTROEMIACEAE

- Actinidia callosa* Lindl.

MALVACEAE

- Abutilon theophrasti* Medic. (= *A. avicennae* Gaertn.)
- Abutilon hirtum* G. Don
- Bogenhardia crispa* (Linn.) Kearney
[= *Abutilon crispum* (Linn.) Medic.]
- Pavonia zeylanica* Cav.
- P. patens* (Andr.) Chiov. (= *P. procumbens* Boiss.)
- Hibiscus beddomei* Rakshit et Kundu

TILIACEAE

- Grewia hainesiana* Hole
- Triumfetta annua* Linn.

GERANIACEAE

- Geranium nepalense* Sweet
- G. rotundifolium* Linn.
- Oxalis intermedia* A. Rich.
(= *O. latifolia* Just non H.B. & K.)
- O. martiana* Zucc. (= *O. corymbosa* DC.)
- O. pescaprae* Linn.
- Impatiens cristata* Wall.
(= *I. scabrida* DC.)
- Hydrocera triflora* W. & A.

RUTACEAE

- Boenninghausenia albiflora* Reichb.

MELIACEAE

Dysoxylum binectariferum Hook. f.

OLACINEAE

Natsiatum herpeticum Buch.-Ham.

CELASTRINEAE

Gymnospora falconeri Lawson
Salacia prinoides DC.

RHAMNEAE

Zizyphus hysundrica Hole

AMPELIDEAE

Cayratia auriculata (DC.) Gamble
(= *Vitis auriculata* Roxb.)
Vitis parkeri Gagnep. ex Osmaston

ANACARDIACEAE

Rhus cotinus Linn.

LEGUMINOSAE

Argyrobium flaccidum Jaub. & Spach.
Crotalaria saltiana Andr.
C. quinquefolia Linn.
Trifolium resupinatum Linn.
Atylosia elongata Benth.
Rhynchosia minima DC. var. *laxiflora*
Baker
R. aurea DC.
Clitoria biflora Dalz.
Psoralea plicata Delile.
Tephrosia hamiltonii J. R. Drumm.
T. falciformis Ramasw.
T. uniflora Pers. subsp. *petrosa*
(Blatt. et Hall) Gillett et Ali.
Indigofera sessilifolia DC.
Vicia tetrasperma (Linn.) Moench.
Alysicarpus meeboldii Schindler
Caesalpinia digyna Rott.
Cassia laevigata Willd.
Acacia ferruginea DC.
A. lenticularis Buch.-Ham.
A. gageana Craib.

ROSACEAE

Pygeum acuminatum Colebr
Potentilla kleiniana W. & A.
Agrimonia eupatoria Linn.
Rosa moschata Hermann

COMBRETACEAE

Anogeissus coronata Stapf
Combretum ovalifolium Roxb.

ONAGRACEAE

Epilobium hirsutum Linn.

PASSIFLORACEAE

Passiflora foetida Linn.
P. suberosa Linn.
P. morifolia Masters

CUCURBITACEAE

Gymnopetalum cochinchinense Kurz
Gymnostemma pedata B1.
Luffa graveolens Roxb.
Dactyliandra welwitschii Hook. f.

BEGONIACEAE

Begonia picta Smith

CACTACEAE

Opuntia dillenii Haw.

FICOIDEAE

Sesuvium sesuvioides (Fenzl) Verdocourt
Orygia decumbens Forsk.
Limeum indicum Stocks ex T. Anders.

UMBELLIFERAE

Apium tenuifolium (Moench.) Thell
(= *A. leptophyllum* F. Mueller ex
Benth.)
Oenanthe benghalensis Benth. & Hook.f.
Psammogeton biternatum Edgew.

RUBIACEAE

Acanthocephalus indicus A. Rich.
(= *A. cadamba* Micq.)
Agrostemma tetrasperma Wall.
Randia tetrasperma Benth. & Hook. f.
ex Brandis
Meyna laxiflora Robyns.
(= *Vangueria spinosa* Hook. f.)
Paederia scandens (Lour.) Merr.
(= *P. foetida* Auct. non Linn.)
Leptodermis lanceolata Wall.
Galium vestitum Don
G. rotundifolium Linn.
G. aparine Linn.

COMPOSITAE

Elephantopus spicatus Aubl.
Adenostemma lavenia (Linn.) O. Kuntze
var. *elata* Kitamura
Ageratum houstonianum Mill.
(= *A. conyzoides* Linn. var.
mexicanum DC.)
Eupatorium glandulosum H. B. & K.
Mikania cordata (Burm. f.) Robinson
(= *M. scandens* Clarke)
Erigeron bonariensis Linn.
(= *E. linifolius* Willd.)
E. mucronatus DC.
Laggera pterodonta Benth.
Pluchea wallichiana DC.
Sphaeranthus senegalensis A. Gray
Athrosima laciniatum DC.
Anaphalis busua (Buch.-Ham.) Hand.-
Maz. (= *A. araneosa* DC.)
Inula cuspidata Clarke
I. eupatorioides DC.
Vicoa cernua Dalz.
Carpesium abrotanoides Linn.
Lagascea mollis Cav.

Wedelia chinensis (Osbeck) Merr.
 (= *W. callendulacea* Less.)
Flaveria trinervia (Spreng.) C. Mohr.
Ximenesia encelioides Car.
Acanthospermum australe (Linn.) Kuntze
Verbesina encelioides Benth. & Hook.
Artemisia parviflora Buch.-Ham. ex
 Roxb.
Emilia javanica (Burm. f.) C. B. Rob.
 (= *E. sagittata* DC.)
Senecio hewrensis (Dalz.) Hook. f.
Echinops cornigerus DC.
Cnicus argyranthus DC.
Gerbera lanuginosa Benth.
Launaea chondrioloides (DC.) Hook. f.
Tithonia diversifolia A. Gray
Crassocephalum crepidioides (Benth.)
 S. Moore
Parthenium hysterophorus Linn.
Soliva anthemifolia R. Br.

CAMPANULACEAE

Lobelia rosea Wall.
Campanula colorata Wall.

PRIMULACEAE

Lysimachia pyramidalis Wall.

MYRSINACEAE

Maesa indica Wall.
Ardisia floribunda Wall.

EBENACEAE

Diospyros holeana Gupta & Kanjilal

OLEACEAE

Jasminum auriculatum Vahl
Ligustrum robustum Bl.

APOCYNACEAE

Rauvolfia tetraphylla Linn.
 (= *R. canescens* Linn.)
Chonemorpha macrophylla G. Don
Rhynchodia wallichii Benth.

ASCLEPIADACEAE

Asclepias curassavica Linn.
Sarcostemma acidum (Roxb.) Voigt
 (= *S. brevistigma* W. & A.)
S. intermedium Decaisne
Tylophora exilis Colebr.
T. indica (Burm. f.) Merr.
 (= *T. asthamatica* W. & A.)
Heterostemma alatum Wight
Cryptostegia grandiflora R. Br.
Hoya longifolia Wall.
Ceropegia angustifolia Wight

BORAGINACEAE

Sericostoma pauciflorum Stocks
Nonnea pulla Lamk. et Ec.

CONVOLVULACEAE

Cuscuta hyalina Roth
C. chinensis Lamk.
Volvulopsis nummularia (Linn.) G.
 Roberty (= *Evolvulus nummularis*
 Linn.)
Convolvulus microphyllus Sieb.
Merremia dissecta (Jacq.) Hall. f.
 (= *Ipomoea sinuata* Ortega)
Ipomoea purpurea Roth
I. clarkei Hook. f.
I. fistulosa Mart. ex Choisy
Argyreia roxburghii Choisy
A. sericea Dalz.
A. bella (Clarke) Raizada

SOLANACEAE

Solanum torvum Swartz
S. hispidum Pers.
S. pseudocapsicum Linn.
Withania coagulans (Stocks) Dunal
Nicandra physaloides Gaertn.
Datura suaveolens H. B. & K. ex Willd.
D. innoxia Mill.
Nicotiana plumbaginifolia Viv.

SCROPHULARIACEAE

Mazus delavayi Bonati
Mecardonia dianthera (Swartz) Pennell
Anticharis senegalensis (Walper)
 Bhandari [= *A. linearis* (Benth.)
 Hochst. ex Aschers.]
Limnophila chinensis (Osbeck) Merr.
 (= *L. hirsuta* Benth.)
L. rugosa (Roth) Merrill (= *L. roxburghii*
 G. Don)
Lindernia hyssopioides (Benth.) Haines
 (= *Ilysanthes hyssopioides* Benth.)
L. viscosa (Hornem.) Merr. (= *Vandellia*
hirsuta Benth.)
L. nummularifolia (D. Don) Wettst.
Peplidium maritimum (Linn. f.) Wettst.
Alectra thomsoni Hook. f.

OROBANCHACEAE

Aeginetia indica (Linn.) var. *alba*
 Santapau

LENTIBULARIEAE

Utricularia striatula Sm.

GESNERIACEAE

Aeschynanthus maculata Lindl.
Chirita bifolia Don

PEDALIACEAE

Pedaliium murex Linn.

ACANTHACEAE

Thunbergia coccinea Wall.
Synnema pinnatifida O. Kuntze
 (= *Cardenthera pinnatifida* Benth.
 ex C. B. Clarke)

S. triflorum (Roxb. ex Nees) O. Kuntze
(= *Cardenthera triflora* Buch.-Ham.
ex Benth.)

Hemidelphis ployspermus (Roxb.) Nees
var. *joshianus* Rao et Biswas

VERBENACEAE

Lippia alba (Mill.) N.E. Br. ex Britton
& Wilson (= *L. geminata* H.B. & K.)
Verbena bonariensis Linn.
Callicarpa longifolia Lamk. var. *laceo-*
laria C. B. Clarke
Premna scandens Roxb.
Vitex leucoxydon Linn. f.
Chascanum marrubifolium Fenzl ex
Walp.

LABIATAE

Plectranthus gerardianus Benth.
P. striatus Benth.
Coleus barbatus Benth.
Mentha piperita Linn.
Scutellaria scandens Don
(= *Scutellaria angulosa* Benth.)
Hyptis suaveolens Poit.
Leucas diffusa Benth.
L. martinicensis R. Br.
Nepeta bombaiensis Dalz.
Salvia coccinea Linn.
Lamium amplexicaule Linn.
Ajuga parviflora Benth.

PLANTAGINACEAE

Plantago pumila Willd.

AMARANTHACEAE

Alternanthera paronichioides St. Hill
(= *Achyranthes polygonoides* (Linn.)
Lamk.)
A. repens (Linn.) O. Kuntze (= *A.*
pungens H. B. & K.)
Gomphrena celosioides Mart.

CHENOPODIACEAE

Chenopodium ambrosioides Linn.

POLYGONACEAE

Polygonum recumbens Royle
P. chinense Linn. var. *ovalifolium*
Meissn.
P. strigosum R. Br.

ARISTOLOCHIACEAE

Aristolochia indica Linn.

PIPERACEAE

Piper longum Linn.
P. nepalense Miq.

LORANTHACEAE

Taxillus vestitus (Wall.) Danser

EUPHORBIACEAE

Euphorbia heliscopia Linn.
Euphorbia prostrata Ait.
E. perbracteata Cage.
E. heterophylla Linn.
(= *E. geniculata* Ortega)
Bridelia verrucosa Haines
Andrachne cordifolia Muell.
Phyllanthus debilis Buch.-Ham.
Prosorus indicus Dalz.
Glochidion assamicum Hook. f.
Sauropus brevipes Muell.-Arg.
Antidesma bunius Spreng.
Jatropha heterophylla Steud.
(= *J. gossypifolia* Linn.)
Croton bonplandianum Baill.
(= *Croton sparsiflorus* Morung.)
Micrococca mercurialis Thw.
Acalypha brachystachya Buch.-Ham.
A. lanceolata Willd.
A. australis Linn.
(= *A. chinensis* Roxb.)
Mallotus repandus Muell.-Arg.

URTICACEAE

Celtis tetrandra Roxb.
Ficus benamina Linn. var. *comosa* King
(= *F. comosa* Roxb.)
F. oligodon Miq. (= *F. pomifera*
Wall. ex King)
F. tsiela Roxb.
F. clavata Wall.
Urtica parviflora Roxb.
Fleurya interrupta (Linn.) Gaud.
Pilea scripta Wedd.
Elatostema surculosum Wight
Distemon indicum Wedd.

GNETACEAE

Ephedra foliata Boiss. var. *ciliata* (C.
A. Mey) Stapf

HYDROCHARITACEAE

Blyxa echinosperma Hook. f.

ORCHIDACEAE

Eulophia graminea Lindl.
Spiranthes sinensis (Pers.) Ames
Habenaria graveolens Duthie

SCITAMINEAE

Zingiber roseum Rosc.
Phrynium parviflorum Roxb.

AMARYLLIDACEAE

Pancratium verecundum Ait.

LILIACEAE

- Asparagus acerosus* Roxb.
A. currillus Buch.-Ham.
A. gracilis Royle
Smilax aspera Linn.
S. indica Vitm.
Gagea reticulata Schult.
Lilium wallichianum Schult. f.

PONTEDERIACEAE

- Eichhornia crassipes* Solms

COMMELINACEAE

- Commelina kurzii* Cl.
Cyanotis arachnoidea C. B. Clarke
 (= *C. fasciculata* Schult. f.)
Amisophacelus cucullata (Roth) Rolla
 Rao *et* Kammathy (= *Cyanotis cucullata* Kunth)

PALMAE

- Wallichia densiflora* Mart.

AROIDEAE

- Remusatia hookeriana* Schott
Rhaphidophora glauca Schott
Pothos cathartii Schott
Acorus calamus Linn.

LENNACEAE

- Lemna trisulca* Linn.

ALISMACEAE

- Limnophyton obtusifolium* Miq.
Butomus unbellatus Linn.

NAIADACEAE

- Aponogeton natans* (Linn.) Engl. & Kr.
 (= *A. monostachyon* Linn. f.)

CYPERACEAE

- Cyperus platystylis* R. Br.
C. haspan Linn.

- Cyperus arenarius* Retz.
C. atkinsoni C. B. Clarke
C. alulatus Kern.
C. silletensis Nees
Juncellus inundatus C. B. Clarke
Kyllinga cylindrica Nees
Eleocharis fistulosa Schult.
Bulbostylis cappillaris Kunth
Scirpus grossus Linn. var. *kyscor* C. B. Clarke
Fuirena umbellata Rottb.
Rhynchospora longisetis R. Br.
Scleria biflora Roxb. subsp. *biflora*
Carex spiculata Boott.

GRAMINEAE

- Poa infirma* H. B. & K.
Vulpia megalura (Nutt.) Rydb.
Eragrostis tremula Hochst. ex Steud.
E. poaeoides P. Beauv.
E. nigra Nees ex Steud.
Aeluropus lagopoides (Linn.) Trin.
Tripogon filiformis Nees ex Steud.
T. roxburghianus (Steud.) Bhide
Sporobolus tenuissimus (Schrank) O. Kuntze [= *S. minutiflorus* (Trin.) Link]
S. helvolus (Trin.) Th. Dur & Schinz.
S. violascens Mez
Garnotia elata (Arn. ex Miq.) Janowski
Alopecurus geniculatus Linn.
Cymbopogon schoenanthus (Linn.) Spreng.
Aristida depressa Retz.
Isachne himalaica Hook. f.
Digitaria violascens Link
Urochloa panicoides P. Beauv. var. *panicoides*
U. panicoides P. Beauv. var. *pubescens* (Kunth) Bor
Setaria megaphylla (Steud.) Dur. *et* Schinz.
Imperata cylindrica (Linn.) P. Beauv. var. *major* (Nees) C. E. Hubbard ex Hubb. *et* Vaughan
Pennisetum orientale L. C. Rich.
Leersia hexandra Sw.

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