# Introduced weeds in the Vegetation of Mysore District'

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#### INTRODUCTION

Karnataka has no flora of its own, though parts of the state are covered by the floras of Madras (Gamble 1915-36), Bombay (Cooke 1901-1908), Bangalore (Ramaswamy & Razi 1973) and Hassān (Saldanha 1976). Flora of Mysore district (Rao 1973) is one more step towards the ultimate achievement of the flora of the state of Karnataka.

During the course of preparation of a flora of Mysore district, a large number of 'weedy species' which have not been mentioned or mentioned only as a casual reference in many of the South Indian floras were encountered; and some of these are of recent introductions—(Ramaswamy et al. 1972-73).

The flora of Mysore district is now fairly well-known mainly through the works of Barnes (1944), Naithani (1966), Kammathy et al. (1967), Razi & Rao (1971), Rao (1971-72, 1973), Rao & Razi (1973-74), Bhaskar & Razi (1973). But a systematic study on introduced elements has not been made hitherto, though Ramaswamy et al. (1972-73) have published a small note on the adventive species in the district. Elsewhere, in the country similar studies have been carried out and have received

much attention (Prain 1890; Brühl 1908; Kashyap 1924; Biswas 1934; Raizada 1935, 1936; Mooney 1950; Srivastava 1954, 1964; Maheshwari 1960, 1962). The present study from Mysore district is to fill such a lacuna and is hoped that this will induce others also towards such studies in other parts of the country.

Exotic weeds have been established in our country eversince the time of Portuguese settlement in India (15th century). They introduced economically important plants brought from Brazil, Mexico, parts of Africa and other places on their commercial route. Later, many British Officers and travellers interested in gardening also introduced many ornamental as well as medicinal plants from other countries to India; along with these useful plants, seeds of many of the obnoxious weeds also got introduced by some way or other and thus got established on the new soil.

Calcutta, eversince the establishment of the Royal Botanic Garden (now Indian Botanic Garden) in 1787 has been the active centre for introduction and acclamatisation of many useful plants; and thus is also a source for spread of many foreign weeds from this garden.

India being a vast country has a varied type of climate, topography, soil types and other factors, which are suitable for the growth of plants from practically all regions of the world. Though, this is beneficial in a way to introduce

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any economically important plants, at the same time provides a congenial habitat for the growth of 'nature selected weeds'.

Thus, these foreign weeds once introduced have acclamatised on the new soil and naturalised themselves in such a way that they now seem to be part of the native flora. These weeds after their introduction have spread to all parts by various factors, man being the only major biotic factor. Some of the important factors responsible for the spread of these weeds are shifting cultivation, deforestation, faulty pasturage methods. methods of harvesting, sale and introduction of impure seeds, sowing impure seeds on cultivated and uncultivated lands, construction of roads and railway lines, etc. (Maheshwari 1962). While weeds like Croson bonplandianum, Acanthospermum hispidum, Alternanthera sp. are accidental introductions; Eupatorium odoratum, Lantana camara, Eichhornia crassipes, Datura metel and others are species introduced as ornamentals or for their medicinal value.

Mysore district is the southernmost portion of the state of Karnataka, and lies between 11° 36′-12° 42′ N lat. and 76° 55′-77° 45′ E long. The vegetation of the district is interesting with a variety of forest types (Rao & Razi 1973-74). In Mysore district majority of the weeds thus established are from Tropical America or Africa and a few from Europe and Australia (Table 2).

There are 184 introduced species in the present vegetation of Mysore district spread over 49 families and 128 genera; and this approximately constitutes 11.5% of the introduced flora as against 40% recorded for India (Maheshwari 1962).

Asteraceae tops the list of introduced species both in the number of species as well as in their abundance in the district. Another noteworthy observation is that this is one of the families to establish very quickly, thereby becoming adventive in nature. There are many reasons for the quick establishment and spread of these Asteraceae species. The main features being the production of enormous amount of seeds and secondly their effective mode of dispersal. Eupatorium odoratum for example was introduced to India when the FLORA OF BRITISH INDIA (Hooker 1872-1897) was being written. It is said that this plant was somehow got introduced in to Kerala state from Assam region by the labourers returning from the Assam front about 15 years ago. By 1973 when Flora of Mysore (Rao 1973) was explored this was the most dominant weed all round Karapura, Kakanakote and Heggadadevanakote forests replacing all other weedy species, including Lantana camara. This is indicative of the adventive nature of the species. Another species of the family having a similar history is Parthenium hysterophorus. This species was recorded for the first time in India in 1951 from Poona (Rao 1956). In Mysore district this was recorded for the first time on 23-11-1971, when only two individual plants were seen (Ramaswamy et al. 1972-73). Though these plants were uprooted and burnt, today however this has become a dominant weed in many parts of the district. Within a short span of 25 years this weed has established itself to such an extent all over the state of Karnataka, that it is the only dominant weed

Papilionaceae, Poaceae, Amaranthaceae, Euphorbiaceae, Solanaceae, Cyperaceae, Malvaceae, Scrophulariaceae and Convolvulaceae are some other families with a large number of introduced weeds in the district (Table 1).

Maheshwari (1962) has discussed in detail about the route in which these weeds have migrated with reference to India; and Srivastava (1964) has discussed the way in which some of these weeds probably might have been introduced. In the present account an

TABLE 1
FAMILIES SHOWING THE NUMBER OF INTRODUCED
GENERA AND SPECIES

and are denied dates	ALLEGEL WELK	range and the are
In Family of Indomis	Number of genera	Number of Species
Asteraceae Papilionaceae Poaceae Amaranthaceae Euphorbiaceae Solanaceae Cyperaceae Malvaceae Tiliaceae	24 11 13 8 6 5 2 4	27 18 17 12 12 12 9 8 7
Caesalpiniaceae Convolvulaceae Scrophulariceae Cactaceae Caryophyllaceae Lamiaceae Polygonaceae Rubiaceae Verbenaceae	2 rolq 1 2 rolq 1 3 2 rolq 2 rolq 2 rolq 2 rolq 2 rolq 2 rolq 2 rolq 2 rolq 2 rolq 3	seed \$1 are seed \$2 are expensive and \$2 are expens
Acanthaceae Boraginaceae Chenopodiaceae Cleomaceae Hydrocharitaceae	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

Rest 26 families with one genus and one species in each.

enumeration of all the introduced weed species of Mysore district with their probable native countries is given in tabular form (Table 2). However, no effort is made to give their years of introduction and establishment, since many of them have been repeatedly brought and introduced in different parts at different times.

All the specimens enumerated are deposited in the Herbarium, Manasagangotri, University of Mysore, Mysore (MGM).

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	A CONTRACTOR OF THE CONTRACTOR			CHARLET CONTRACT OF THE CONTRACT OF
No.	Species and at it is	Family	Native Country Region	n Myso saraman et majority e
		WUIL	pe and Australia	Africa and a few from Euro
cede,	Abelmoschus moschatus Medic. (Hibiscus abelmoschus L.)	Malvaceae	Paleotropical	Rare; often cultivated.
2.	Abrus precatorius L.	Papilionaceae Papilionaceae	Pantropical	Common all over the district; not abundant.
3.	Acalypha ciliata Forsk.	Euphorbiaceae	Paleotropical	Common in shady moist places.
4.	Acanthospermum hispidum DC.	Asteraceae	Brazil	Common all over on fallow fields.
5.	Achyranthes aspera L.	Amaranthaceae	Trop. America	Common in plains.
6.	Adathoda vasica Nees	Acanthaceae	Trop. Asia	Cultivated for its medicinal uses; but fairly run wild also.
97. d	Adenostemma lavenia (L.) Ktz. (A. viscosum Forst.)	Asteraceae	South America	Frequent, agor enconners.
8.	Aeschenomene americana L.	Caesalpiniaceae	Trop. America	Common.
9.	Ageratum conyzoides L.	Asteraceae	South America	Escape, very abundant all over.
	Allamanda cathartica	Apocynaceae	Trop. America	Escape; mostly cultivated.

No	. Species Totale	Family Family	Native Country Region	Remarks
	Alternanthera ficoidea (L.) R. Br. A. pungens H. B. & K. (A. echinata Sm.)	Amaranthaceae	Trop. America	Common in ponds and ditches. Common in open grassy soils.
13.	A. sessilis (L.) R. Br. (A. paronychioides St. Hil.)	,, ,,	22	Frequently associate with other Amaranthaceae members.
14.	Amaranthus gracilis Desf. (A. viridis Hk. f. non L.)	39 99	Pantropical	Common weed in vegetable gardens.
15.	A. spinosus L.	1991 3, TA 3, 71 I	, uzosili T	Common near human habitations.
16.	Anagallis arvensis L.	Primulaceae	Europe	Rare, in B.R. Hills.
17.	Antigonon leptopus Hk. & Arn.	Polygonaceae	South America	Cultivated but runs wild in some places.
18.	Argemone mexicana L.	Papaveraceae	Cent. America	Common and abundant in some fallows.
19.	Asclepias curassavica L.	Asclepiadaceae	South America	Rare, near water margins.
20.	Bacopa monnieri (L.) Penn.	Scrophulariaceae	Cosmop-Trop.	Common all over in marshy places.
21.	Barleria cristata L.	Acanthaceae	Paleotropical	Frequent, not abundant.
22.	Biophytum sensitivum DC.	Geraniaceae	<b>P</b> antropical	Common in shades.
23.	Blainvillea acmella (L.) Philipson (B. latifolia DC.)	Asteraceae	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Common.
24.	Boerhaavia diffusa L.	Nyctaginaceae	Brassica, ac	Very common all over the waste lands.
25.	Borreria articularis (L.f.) F.N. Will. (B. hispida Schum.)	Rubiaceae	Paleotropical A	Common in agricultural fields.
26.	B. stricta (L.f.) Schum.	usis, -ousuA	Papilion,ceae	Common in agricultural fields.
27.	Brachiaria mutica (L.) Stapf	Poaceae	Europe	Occasional.
28.	Brugumontia suaveolens Bracht. & Presl. (Datura suaveolens H.B.K.)	Solanaceae	Mexican	Common in Higher elevations of B. R. Hills.
29.		Scrophulariaceae	Mexico	Recent; abundant only in coffee estates.
30.	Canscora diffusa R. Br.	Gentianaceae	Paleotropical	Common in marshy places.
31.	Cardiospermum halicacabum L.	Sapindaceae	Pantropical	Isolated in bushes and plains. (waste lands).
32.	Cassia occidentalis L.	Caesalpiniaceae	South America	Common all over the district.
33.	C. pumila Lamk.	lesio" annulesi	Pantropica!	Rare; common in B.R. Hills.
34.	C. sophera L.	9.9	South America	Common.
35.	C. tora L.	Parente de Calcul	(Vegeracete et	Common.
36.	Celosia argentea L.	Amaranthaceae	Pantropical	Weed of sorghum and maize fields.
37.	Ceratophyllum demersum L.	Ceratophyllaceae	Trop. America	Not common.
38.	Chenopodium album L.	Chenopodiaceae	Paleotropical	Weed of vegetable gardens.
39.	C. ambrasioides L.	Chenopodiaceae	Mexico	Weed of vegetable gardens.
40.	Chloris barbata Sw.	Poaceae	Trop. America	Common all over the district.
41.	Cleome gynandra L. (Gynandropsis pentaphylla (L.) DC.	Cleomaceae	Pantropical Pantropical	Common all over the district.
42.	C. monophylla L.	Cleomaceae	Afro-asian	Frequent.
43.	Clitoria ternatea L.	Papilionaceae	Paleotropical	Common.
44.	Convolvulus arvensis L.	Convolvulaceae	European	Common climber.

# JOURNAL, BOMBAY NATURAL HIST. SOCIETY, Vol. 74

# Enumeration of introduced weeds of Mysore District

# TABLE 2—(Contd.)

No.	Species	Family	Native Country Region	Remarks
45.	Corchorus aestuans L.	Tiliaceae	Trop. America	Weed of waste lands and cultivated fields, common al over the plains.
46.	C. capsularis L.	Tiliaceae	Trop. America	Weed of waste lands and cultivated fields, common allower the plains.
47.	Corchorus fascicularis Lamk.	Tiliaceae	Paleotropical	Weed of open places and cultivated lands; common throughout the district.
48.	C. olitorius L.	Tiliaceae	Pantropical	Weed of open places and cultivated lands; Common throughout the district.
49.	C. tridens L.	Tiliaceae	Pantropical	Weed of open places and cultivated lands; Common
50.	C. trilocularis L.	Tiliaceae	Paleotropical	throughout the district.  Weed of open places and cultivated lands; Common throughout the district.
51.	Coronopus didymus (L.) Sm. (Senebiera pinnatifida DC.)	Brassicaceae	Trop. America	Common in marshy shady places.
52.	Crossocephalum crepidioides (Benth.) S. Moore	Asteraceae	Trop. Africa	Common in fallow fields and near marshy places.
53.	Crotalaria medicaginea Lamk.	Papilionaceae	Austro-asian	Common.
54.		Euphorbiaceae	South America	Dominant weed in the district.
55.	Cymbopogon martinii (Roxb.) Wats.	Poaceae	Afro-asian	Common in higher elevations.
56.	Cynodon dactylon (L.) Pers.	Poaceae	Trop. America	Common.
57.	Cyperus alopecuroides Rottb.	Cyperaceae	Paleotropical	Frequent in marshy and muddy soils; common all over the district.
58.	C. flabelliformis Rottb.	Cyperaceae	Trop. Africa	Frequent in marshy and muddy soils; common all over the district.
59. 60.	C. iria L. C. pumilus L.	Cyperaceae Cyperaceae	Paleotropical Paleotropical	— do —
61.	C. pygmaeus Rottb.	Cyperaceae	Pantropical	- do - see 10 m/s
62.	C. rotundus L.	Cyperaceae	Pantropical	- do - 110000 100
63.	C. triceps (Rottb.) Endl.	Cyperaceae	Paleotropical	- do -
64.	Dactyloctenium aegyptium (L.) Beauv.	Poaceae	Pantropical	Weed in rice fields and open marshy places.
65.	D. metel L.	Solanaceae	Trop. America	On fallow fields.
66.	Datura stramonium L.	Solanaceae	Paleotropical	On fallow fields.
67.	Desmodium parviflorum DC.	Papilionaceae	Austro-Asian	Not common.
68.	D. triflorum (L.) DC.	Papilionaceae	Pantropical	Common on moist gravelly soils.
	Digera muricata (L.) Mart.	Amaranthaceae	Afro-asian	Weed of cultivated fields.
70.	Digitaria adscendens (H.B. & K.) R. & S.	Poaceae	Trop. America	Common.

No.	Species	Family	Native Country Region	Remarks
71.	Drymaria cordata (L.) Willd. ex Roem.	Caryophyllaceae	Paleotropical	Common weed in coffee plan- tations in Biligirirangar hills.
72.	Eclipta prostrata L.f.	Asteraceae	Pantropical	Common in marshy places.
73.	Eichhornia crassipes (Mart.) Solms.	Pontederiaceae	Brazil	Dominant free floating water weed in tanks.
74.	Elephantopus scaber L.	Asteraceae	Pantropical	Rare.
75.	Emilia sonchifolia (L.) DC.	Asteraceae	Afro-asian	Frequent.
76.	Eragrostis cilianensis (All.) Vignolo-Lutari	Poaceae	Afro-asian	Common.
77.	E. plumosa P. Beauv.	Poaceae	Afro-asian	Common.
78.	Erigeron asteroides Roxb.	Asteraceae	Trop. America	Common in higher elevations.
79.	E. canadensis L.	Asteraceae	South America	Dominant in higher elevations.
80.	E. mucronatus DC.	Asteraceae	Mexico	Common all over at higher elevations.
81.	Eupatorium adenophorum Spreng. (E. glandulosum H.B. & K.)	Asteraceae	Mexico	Common at higher elevations
82.	E. odoratum L.	Asteraceae	Trop. America	Abundant near Karapura Heggadevana kote and Kakanakote.
83.	Euphorbia geniculata Ort.	Euphorbiaceae	Pantropical	Weed in open fields.
84.	E. hirta L.	Euphorbiaceae	Pantropical	Weed in open fields, Common
85.	E. prostrata Ait.	Euphorbiaceae	West Africa	Weed in open soils; Commonly seen with other species.
86.	E. pulcherrima Willd.	Euphorbiaceae	Mexico	Recent; under cultivation rarely escape.
87.	Fimbristylis littoralis Gaud. (F. miliacea (L.) Vahl)	Cyperaceae	Pantropical	Common in marshy places.
88.	Flaveria australasiaca Hook.	Asteraceae	Australian	Common.
89.	Galinsoga ciliata (Rafn.) Blake	Asteraceae	South America	Common all over, but confused with the next species.
90.	G. parviflora Cav.	Asteraceae	South America	Abundant weed along road sides.
91.	Glinus oppositifolius (L.) DC.	Aizoaceae	Paleotropical	Common.
92.	Gomphrena celosioides Mart. (G. decumbens Jack.)	Amaranthaceae	South America	Weed in plains.
93.	Hackelochloa granularis (L.) O. Ktz.	Poaceae	Pantropical	Common in higher elevations
94.	Heliotropium indicum	Boraginaceae	South America	Weed in open fields.
95.	H. ovalifolium Forsk.	Boraginaceae	Pantropical	Common in dry open soils.
96.	Hibiscus panduraeformis Burm f.	Malvaceae	Paleotropical	Common weed in gardens and hedges.
97.	H.vitifolius L.	Malvaceae	Paleotropical	Common weed in gardens and hedges.
98.	Hypericum japonicum Thunb.	Hypericaceae	Paleotropical	Rare in higher elevations.
99.	Hyptis sauveolens (L.) Poir.	Lamiaceae	South America	Weed in waste lands.
00.	Indigofera astragalina DC.	Papilionaceae	Paleotropical	— do —
01.	I.cordifolia Heyne ex Roth.	Papilionaceae	Paleotropical	— do —
02.	I. linifolia Retz.	Papilionaceae	Paleotropical	— do —
03.	I. linnaei Ali	Papilionaceae	Austro-asian	— do —
04.	I. prostrata Willd.	Papilionaceae	Austro-asian	- do -

# JOURNAL, BOMBAY NATURAL HIST. SOCIETY, Vol. 74

## Enumeration of introduced weeds of Mysore District

## TABLE 2—(Contd.)

No	Species Moo	Family	Native Country Region	Remarks
105.	I. trita L.f.	Papilionaceae	Austro-asian	Weed in waste lands.
106.	Ipomoea fistulosa Mart. (I. carnea Jacq.)	Convolvulaceae	South America	Common near villages Occasionally cultivated.
107.	I. eriocarpa R. Br.	Convolvulaceae	Paleotropical	Common in plains.
108.	I. pestigridis L.	Convolvulaceae	Paleotropical	Common in plains and in cultivated fields.
109.	I. reptans (L.) Poir. (I. aquatica Forsk.)	Convolvulaceae	Paleotropical	Common along the water margins and muddy soils.
110.	Iseilema laxum Hack.	Poaceae	Trop. America	Rare.
111.	Jatropha curcas L.	Euphorbiaceae	Trop. America	In hedges.
112.	J. glandulifera L.	Euphorbiaceae	Afro-asian	In waste lands.
113.	J. gossypifolia L.	Euphorbiaceae	Trop. America	Weed of waste lands.
114.	Kalanchoe pinnata (Lamk.) Pers.	Crassulaceae	Trop. America	Common along river bank in paschimavahini and often cultivated.
115.	Laggera aurita (Willd.) SchBip.	Asteraceae	Afro-asian	Aromatic weed in open waste lands.
116.	Lantana camara L. var. aculeata (L. Moldenke	.) Verbenaceae	Cent, America	Common all over.
117.	L.indica Roxb.	Verbenaceae	South America	Common at higher elevations.
118.	Legascea mollis Cav.	Asteraceae	Mexico	Common in plains.
119.	Leucas lavendulaefolia Rees. (L. linifolia Spreng)	Lamiaceae	West Asia	Common; often associated with L. aspera.
120.	Malvastrum coromandelianum (L.) Garcke	Malvaceae	South America	Abundant in waste lands.
121.	Martynia annua L.	Martyniaceae	Mexico	Common in waste lands.
122.	Mecardonia dianthera (Sw.) Penn. (Herpestris chamaedryoides H.B. & K.)	Scrophulariaceae	Trop. America	Common from plains to higher elevations.
123.	Mikania micrantha H. B. & K.	Asteraceae	Trop. America	Very abundant along the cauvery river bank.
124.	Mimosa pudica L.	Mimosaceae	Brazil	Frequent.
125.	Mucuna prurita HK.	Papilionaceae	Pantropical	Rare.
126.	Murdannia dimorpha (Dalz.) Bruck.	Commelinaceae	Pantropical	Occasional.
127.	Nicotiana plumbaginifolia Viv.	Solanaceae	Mexico	Recent, occasional in betel lead garden.
128.	Nothosaerva brachiata (L.) Wt.	Amaranthaceae	Trop. Africa	In marshy places soon after rains.
129.	Ocimum canum Sims. (O. americanum L.)	Lamiaceae	Afro-asian	Weeds in fallow fields.
130.	Oenothera rosea (Soland.) Ait.	Oenotheraceae		Rare, only in higher elevations.
131.	Oldenlandia corymbosa L.	Rubiaceae	Pantropical	Occasional in marshy places.
132.	Opuntia coccinellifera Mill.	Cactaceae	Mexican	Occasional near villages.
133.	O. dillenii Haw.	Cactaceae	South America	Occasional near villages.
134.	O. elatior Mill.	Cactaceae	South America	Occasional near villages.
135.	Ottelia alismoides (L.) Pers.	Hydrocharitaceae	Austro-asian	Common in tanks and ponds

No.	Species	Family ) 2	Native Country Region	Remarks
136.	Oxalis latifolia H.B. & K.	Oxalidaceae	Mexico	Common.
137.	Parthenium hysterophorus L.	Asteraceae	Trop. America	One of the recent adventives to the district.
138.	Passiflora foetida L.	Passifloraceae	South America	Rare climber.
139.	Pennisetum purpureum Schum.	Poaceae	Trop. Africa	Occasional in gardens.
140.	Peperomia pellucida H.B. & K.	Piperaceae	Cent. America	Weed in gardens specially in shady green houses.
141.	Phyllanthus asperulatus Hutch.	Euphorbiaceae	Trop. America	Common weed in gardens.
142.	Physalis minima L.	Solanaceae	Paleotropical	Common on open fields.
143.	P. peruviana L.	Solanaceae	Trop. Africa	Common on open fields.
144.	Plumbago zeylanica L.	Plumbaginaceae	Geront Trop.	In hedges, occasional in plains
145.	Polycarpaea corymbosa Lamk.	Caryophyllaceae	Pantropical	In open grassy fields.
146.	Polygonum barbatum L.	Polygonaceae	Paleotropical	In marshy places.
147.	P. hydropiper L.	Polygonaceae	Temperate	In marshy places.
148.	Portulaca oleracea L.	Portulacaceae	Paleotropical	Common all over the district
149.	Potamogeton nodosus poir.	Potamogetonaceae	Temperate	Rare in tanks.
150.	Pupalia lappacea (L.) Juss.	Amaranthaceae	Afro-asian	Rare in the district.
151.	Rhynchosia minima DC.	Papilionaceae	Pantropical	Common in open fallow fields.
152.	Rivina humilis L.	Phytolacaceae	South America	Rare weed in betel gardens.
153.	Saccharum spontaneum L.	Poaceae	Paleotropical	Occasional.
154.	Scoparia dulcis L.	Scrophulariaceae	South America	Common.
155.	Sebastiania chamalea (L.) MuellArg.	Euphorbiaceae	Paleotropical	Common.
156.	Sesbania bispinosa (Jacq.) Faw. & Rendle (S. aculeata Pers.)	Papilionaceae	Pantropical	Weed in gardens occasionally cultivated.
157.	Setaria glauca P. Beauv.	Poaceae	Eurasian	Occasional in plains.
158.	S. verticillata (L.) P. Beauv.	Poaceae	Austro-asian	Occasional in plains.
159.	Sida alba L. (S. spinosa L.)	Malvaceae	Pantropical	Common.
160.	S. cordifolia L.	Malvaceae	Pantropical	Common.
161.	S. veronicaefolia Lamk.	Malvaceae	Trop. America	Common.
162.	Solanum elaegnifolium Cav.	Solanaceae	Mexico	Rare.
163.	S. seaforthianum Andr.	Solanaceae	Trop. America	Occasional in hedges.
164.	S. surattense Burm. f. (S. xanthocarpum Schrad & Wendl.)	Solanaceae	Paleotropical	Frequent. In mindingly
165.	Sonchus oleraceus L.	Asteraceae	Paleotropical	Common throughout the
166.	S. wightianus DC. subsp. wightianus Boulos (S. arvensis L.)	Asteraceae	European To Bud	Common. 1091) T. (1900) I. (1901) I.
167.	Sphaeranthus indicum L.	Asteraceae	Africa	Common in marshy places.
168.	Sporobolus diander (Retz.) Beauv.	Poaceae	Austro-asian	Common.) & Labouro
169.	Stachytarpheta jamaicensis (L.) Vahl (S. indica Vahl)	Verbenaceae	Paleotropical	Common in fallows.
170.	Stellaria media Cyr.	Caryophyllaceae	European	Rare.
171.	Synadenium grantii Hk. f.	Euphorbiaceae	Trop. Africa	Plants all over the district.
172.	Synedrella nodiflora (L.) Gaertn.	Asteraceae	Trop. America	Frequent.
173.	Tephrosia purpurea Pers.	Papilionaceae	Pantropical	Common all over on wast
	bot. Sec. 18: 149-167.	plain. J. Indian	adia 9 : 205-234.	Mysore States Bull selection A

#### TABLE 2—(Contd.)

No.	Species	Family	Native Country Region	Remarks
	Jointaile adt	Davilianagas	Dantaniasl	Not a laborate plant in the
174.	Teramnus labialis Spr.	Papilionaceae	Pantropical	Not a common plant in the district.
175.	Tithonia diversifolia A. Gray	Asteraceae	Mexican	Rare. Man Man Man Manch 1994 1994
176.	Tribulus terrestris L.	Zygophyllaceae	Pantropical	Prostrate weed on open fields.
177.	Tridax procumbens L.	Asteraceae	Mexico	Common in open places among grasses.
178.	Urochloa panicoides P. Beauv.	Poaceae	Geront Trop.	Common in open places.
179.	Vallisneria spiralis L.	Hydrocharitaceae	Pantropical	Common in streams.
180.	Vernonia cinera (L.) Juss.	Asteraceae	Pantropical	Common.
181.	Vigna trilobata (L.) Verdc. (Phaseolus trilobus L.)	Papilionaceae	Afro-asian	Occasional in open soils.
182.	Wedelia calendulacea less.	Asteraceae	Austro-asian	Rare, in marshy places.
183.	Xanthium strumarium L.	Asteraceae	South America	Common all over in fallow fields.
184.	Zornia diphylla Pers. (Z. gibbosa Span.)	Papilionaceae	Pantropical	Common in plains on open grassy soils.

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