

## Appendix 4      List of Species with Additional Information

### *Key to terms used in the table*

**Relative abundance-** the status of the species in the referred area

<b>Abundant</b>	occurring profusely
<b>Common</b>	occurring repeatedly
<b>Occasional</b>	occurring sporadically
<b>Rare</b>	occurring once or twice

**Social setting** the plant in relation to others of the same species

<b>Colony</b>	when many plants are clumped together to form one mass, e.g. <i>Eriocaulon robustum</i>
<b>Gregarious</b>	when many plants are growing together, not as crowded as in colonies, e.g. <i>Hedyotis verticillaris</i>
<b>Scattered</b>	when growing together but interspersed with other species, e.g. <i>Senecio lavandulifolius</i>
<b>Single</b>	when one plant is growing distantly from another, e.g. <i>Kalanchoe grandiflora</i>

**Annual** any plant that completes its life cycle in the period of one year

**Perennial** any plant whose life cycle lasts longer than one year

**Dormant** perennials, dormant during a part of the year (mostly dry period) ;in form of bulbs, tubers, rhizomes, etc.

This list has been revised and updated during the second year of our study. The nomenclatural changes have been made after referring to the Flora of the Palni Hills by Fr. Mathew. Distribution information was revised after reference to Gamble, Mathew, Hooker and Fyson.

## Angiosperm List

Species	Preferred grass-land type	Distribution/locality	Relative abundance	Social setting	Flowering	Annual/Perennial	Distribution
<b>Ranunculaceae</b>							
Ranunculus subpinnatus	Marshy	Bangitappal	Rare	Scattered	Oct-Nov	Dormant	South and North India, Burma, China
Ranunculus reniformis	Marshy, dense patchy	Throughout the area	Occasional	Scattered	Oct-	Perennial	Endemic-South India
<b>Cruciferaeae</b>							
Cardamine hirsuta	Patchy	Bangitappal	Rare	Scattered	Oct- Feb	Annual	Cosmopolitan weed
<b>Violaceae</b>							
Viola serpens pilosa	Shola edge	Throughout the area	Occasional	Scattered	Nov-Apr	Perennial	South Asia mountains
<b>Polygalaceae</b>							
Polygala sibirica	Patchy	Throughout the area	Occasional	Scattered	Oct- Mar	Perennial	Himalayas, China, W. Ghats
<b>Hypericinaceae</b>							
Hypericum mysurense	Patchy, rocky,dense	Throughout the area	Occasional	Scattered	Oct-Mar	Perennial	Hills of S. India, Sri Lanka.
Hypericum hookerianum	Shola edge	Bangitappal, Sispara	Rare	Single	-Mar	Perennial	Peninsula
Hypericum wightianum	Marshy, stream-side	Throughout the area	Occasional	Scattered	Mar-	Annual	Peninsula
<b>Theaceae</b>							
Eurya nitida	Shrubby, dense,patchy, rocky	Throughout the area	Occasional	Single	Nov-Dec	Perennial	Asia

<b>Linaceae</b>							
Linum mysorensense	patchy	Madippumalai	Rare	Scattered	Nov-	Annual	Himalayas, Sri Lanka, W. Ghats
<b>Geraniaceae</b>							
Geranium nepalense	Dense	Bangitappal	Occasional	Single	Oct- Nov	Dormant	South Asian mountains
<b>Oxalidaceae</b>							
Oxalis corniculata	Patchy	Bangitappal	Rare	Scattered	Oct-	Annual	Cosmopolitan weed
<b>Balsaminaceae</b>							
Impatiens acaulis	Rocky	Throughout the area	Common	Gregarious	Aug -Oct	Dormant	Endemic-W. Ghats
Impatiens clavicornu	Patchy, dense, rocky	Throughout the area	Abundant	Scattered	Aug -Oct	Dormant	Endemic-Nilgiris
Impatiens diversifolia	Dense, patchy	Throughout the area	Common	Scattered	Aug -Nov	Annual	Endemic- Western Ghats
Impatiens laticornis	Shola edge	Throughout the area	Common	Gregarious	Aug -Oct	Dormant	Endemic- Nilgiris
Impatiens leschenaultii	Shola edge	Throughout the area	Occasional	Single	Sep-Apr	Perennial	Endemic-Western Ghats ( Nilgiris Palnis, Anamalais)
Impatiens munronii	Shola edge	Bangitappal, Sispara	Rare	Scattered	Sep-Apr	Perennial	Endemic-Nilgiris
Impatiens inconspicua	Rocky, patchy	Throughout the area	Common	Gregarious	Sep- Nov	Annual	Endemic- Western Ghats
Impatiens rufescens	Marshy	Bangitappal	Occasional	Single	Aug -Oct	Annual	Endemic- Nilgiris
<b>Papilionaceae</b>							
Crotalaria calycina	Patchy	Solakal malai	Rare	Scattered	Oct-	Annual	Nilgiris and Palinins
Crotalaria formosa	Dense, patchy	Anginda malai, Nadugani	Rare	Single	Nov-Feb	Perennial	Endemic-Nilgiris
Crotalaria scabrella	Patchy, rocky	Throughout the area	Occasional	Single	Oct-Dec	Dormant	South India, Sri Lanka
Crotalaria sp.	Shola edge	Throughout the area	Occasional	Single	Sep-Dec	Perennial	
Cytisus scoparius	Patchy	Earth dam	Common	Gregarious	Oct- Mar	Perennial	Exotic
Smithia blanda	Patchy, dense, rocky	Throughout the area	Common	Scattered	Sep- Dec	Dormant	South India, (Father Matthew)
Ulex europaeus	Patchy	Earth dam	Occasional	scattered	Oct- Mar	Perennial	Exotic

<b>Mimosaceae</b>							
Acacia melanoxylon	Dense, patchy	Earth dam south to Bhavani bridge	Occasional	Scattered		Perennial	Exotic
Acacia mollissima	Dense, patchy	Earth dam south to Bhavani bridge	Common	Scattered		Perennial	Exotic
<b>Rosaceae</b>							
Alchemilla indica	Dominated by the same	Bangitappal, Labor shed	Abundant	Gregarious	Apr-	Perennial	Nilgiris, Palinis
Fragaria nilgerrensis	Patchy	Throughout the area	Occasional	Scattered	Feb-Apr	Perennial	India, China, Nepal
Potentilla leschenaultiana	Patchy, marshy	Throughout the area	Occasional	Scattered	Feb-Apr	Perennial	S. India, Himalayas, Nepal
Rubus ellipticus	Shola edge	Throughout the area	Common	Scattered	Dec-	Perennial	S. and N. India
Rubus fairholmianus	Shola edge, patchy	Throughout the area	Common	Gregarious	Aug-	Perennial	S. India, Sri Lanka
Rubus niveus	Shola edge	Throughout the area	Common	Scattered	Dec-	Perennial	India, Sri Lanka, Burma
<b>Crassulaceae</b>							
Kalanchoe grandiflora	Rocky	Earth dam	Rare	Single		Perennial	Endemic- Western Ghats (Nilgiris Palnis)
<b>Saxifragaceae</b>							
Parnassia mysorensis	Rocky, patchy	Throughout the area	Occasional	Scattered	Aug- Oct	Dormant	Nilgiris, Palinis
Parnassia wightiana	Marshy	Bangitappal	Rare	Scattered	Aug-Oct	Dormant	China, S. and N. India
<b>Droseraceae</b>							
Drosera burmanni	Marshy	Throughout the area	Occasional	Scattered	Dec-Mar	Dormant	India
Drosera peltata	Rocky, patchy, dense	Throughout the area	Common	Scattered	Oct-Dec	Dormant	Western Ghats
<b>Haloragaceae</b>							
Serpicula brevipes	Marshy, patchy	Throughout the area	Occasional	Scattered	Sep-Dec	Annual	Nilgiris and Palinis

**Myrtaceae**

Rhodomyrtus tomentosa	Rocky, dense, patchy	Throughout the area	Common	Scattered	Dec-Apr	Perennial	S. India, Sri Lanka, Indochina
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**Melastomataceae**

Osbeckia brachystemon	Patchy	Throughout the area	Common	Scattered	Sep-Nov	Dormant	S. India
Osbeckia leschenaultiana	Patchy, dense, shola edge	Throughout the area	Occasional	Scattered	Nov-Mar	Perennial	Endemic-Western Ghats ( Nilgiris, Palnis)
Osbeckia sublaevis	Rocky	Nadugani, Sispara	Rare	Scattered	Oct-Nov	Perennial	Endemic- Nilgiris
Sonerila gamblei	Rocky	Throughout the area	Occasional	Scattered	Oct-Dec	Perennial	Endemic-Mukurti
Sonerila spec.	Streamside	Bangitappal	Occasional	Gregarious	Apr-	Perennial	Endemic- Mukurti
Sonerila rotundifolia	Rocky	Path to Nadugani	Occasional	Scattered	Aug-	Dormant	S. India

**Umbelliferae**

Bupleurum distichophyllum	Dense, patchy	Throughout the area	Common	Scattered	Sep-Dec	Dormant	Endemic- Western Ghats (Nilgiris, Palnis)
Heracleum ceylanicum	Dense, patchy	Throughout the area	Occasional	Scattered	Nov-Dec	Dormant	S. India, Sri Lanka
Pimpinella candolleana	Dense, patchy	Throughout the area	Occasional	Scattered	Sep-Nov	Dormant	Endemic- South India
Pimpinella leschenaultii	Patchy	Madippumalai	Rare	Scattered	Jan-	Dormant	S. India, Sri Lanka

**Rubiaceae**

Neanotis wightiana	Patchy, patchy, rocky	Throughout the area	Common	Gregarious	Sep-Jan	Perennial	S. India
Hedyotis articularis	Dense, shrubby, rocky	Throughout the area	Common	Scattered	Aug-Dec	Perennial	S. India
Hedyotis hirsutissima	Dense, patchy, rocky, shola edge	Throughout the area	Occasional	Single	Oct-Nov	Perennial	Endemic- Nilgiris
Hedyotis leschenaultiana	Dense, shrubby	Throughout the area	Common	Scattered	Aug-Apr	Perennial	Nilgiris and Palinis
Hedyotis verticillaris	Dominated by the same	Throughout the area	Common	Gregarious	Sep-Apr	Perennial	Endimic- Nilgiris

**Valerianaceae**

Valeriana leschenaultii	Shola edge	Path to Nadugani	Occasional	Scattered	Feb-Apr	Dormant	Endemic – Nilgiris
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**Dipsacaceae**

Dipsacus leschenaultii	Patchy	Sispara	Rare	Scattered	Sep-Nov	Perennial	Endemic-Western Ghats (Nilgiris-Palnis)
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**Asteraceae**

Anaphalis elliptica	Patchy	Nadugani	Occasional	Scattered	Mar-	Annual	Endemic-Western Ghats (Nilgiris, Anamalais)
Anaphalis lawii	Patchy	Throughout the area	Occasional	Scattered	Sep-Nov	Annual	S. India
Anaphalis leptophylla	Dense, patchy	Nadugani, Sispara Solakalmalai,	Occasional	Single	Sep-Jan	Perennial	Endemic- Western Ghats (Nilgiris, Palnis)
Anaphalis macrescens	Stream side	Throughout the area	Occasional	Scattered	Sep- Jan	Perennial	Nilgiris
Anaphalis neelgerryana	Rocky, patchy	Throughout the area	Occasional	Scattered	Aug-Nov	Perennial	Endemic-Nilgiris
Anaphalis notoniana	Patchy, dense	Nadugani, Solakalmalai	Rare	Scattered	Jan-Mar	Perennial	Endemic- Nilgiris
Anaphalis sp.	Cliffside	Along plateau edge	Occasional	Scattered	Oct-Feb	Perennial	
Anaphalis wightiana	Patchy, dense	Throughout the area	Common	Scattered	Aug-Oct, Dec-Apr	Perennial	S. India
Blumea hieracifolia	Shola edge	Path to Nadugani	Occasional	Scattered	Apr-	Perennial	India, Burma, Indochina
Centratherum reticulatum	Marshy	South of Madippumali	Rare	Single	Aug-Oct	Perennial	S. India, Madya Pradesh, Sri Lanka
Cirsium wallichii	Streamside, marsh	Throughout the area	Occasional	Scattered	Aug-Sep	Dormant	India
Conyza stricta	Patchy, dense	Throughout the area	Occasional	Single	Oct-Apr	Perennial	S. India
Launaea japonica	Shola edge	Throughout the area	Occasional	Scattered	Oct-Dec	Dormant	Southeast Asia
Dichrocephala chrysanthemifolia	Streamside	Bangitappal, Nadugani	Occasional	Scattered	Apr-	Annual	Africa, West to Southeast Asia
Emilia scabra	Rocky, patchy	Throughout the area	Common	Scattered	Sep-Jan	Dormant	Africa, Asia
Erigeron mucronatus	Patchy	Throughout the area	Common	Gregarious	Oct-Apr	Perennial	Exotic
Eupatorium glandulosum	Patchy, shola edge	Throughout the area	Occasional	Scattered	Dec-Mar	Annual	Exotic

<i>Gnaphalium luteo-album</i>	Streamside	Bangitappal	Occasional	Scattered	Apr-	Annual	India, Japan
<i>Helichrysum bracteatum</i>	Patchy	Nadugani	Rare	Scattered	Apr-	Perennial	Exotic
<i>Helichrysum buddleioides</i>	Shola edge	Throughout the area	Common	Scattered	Oct-Mar	Perennial	S. India
<i>Helichrysum wightii</i>	Dense, patchy	Throughout the area	Common	Scattered	Sep-Jan	Perennial	S. India
<i>Hypochaeris glabra</i>	Patchy	Throughout the area	Common	Scattered	Sep-Apr	Dormant	Exotic
<i>Moonia heterophylla</i>	Shola edge	Throughout the area	Occasional	Scattered	Nov-Mar	Perennial	S. India, Sri Lanka
<i>Myriactis wightii</i>	Shola edge	Throughout the area	Occasional	Scattered	Aug-Apr	Perennial	S. India, Sri Lanka
<i>Picris heiracioides</i>	Patchy	Bangitappal	Rare	Single	Apr-	Dormant	Asia, Australia, Europe
<i>Senecio intermedius</i>	Shola edge	Throughout the area	Occasional	Scattered	Nov-Feb	Perennial	S. India
<i>Senecio lavandulifolius</i>	Dense, patchy	Throughout the area	Common	Scattered	Nov-Feb	Perennial	Endemic- Western Ghats (Nilgiris, Palnis)
<i>Senecio lawsonii</i>	Dense, patchy	Throughout the area	Occasional	Single	Nov-Dec	Dormant	Endemic-Nilgiris
<i>Senecio lessingianus</i>	Rocky, cliff side	Madippumalai, along plateau edge	Rare	Gregarious	Nov-Feb	Dormant	Endemic- Nilgiris
<i>Senecio polycephalus</i>	Dense, patchy	Throughout the area	Occasional	Single	Sep-Nov	Dormant	Endemic-South India (Nilgiris, Shevaroy)
<i>Senecio wightii</i>	Marshy	Throughout the area	Occasional	Scattered	Sep-Nov	Dormant	S. India
<i>Vernonia sp.</i>	Patchy, shola edge	Sispara	Occasional	Scattered	Dec-Feb	Perennial	
<i>Vernonia sp.</i>	Shola edge	Bangitappal	Occasional	Scattered	Dec-	Perennial	

<b>Campanulaceae</b>							
<i>Campanula alphonсии</i>	Patchy, Rocky	Throughout the area	Not common	Gregarious	Nov-Feb	Perennial	Endemic- Wstern Ghats (Nilgiris, Palnis, Anamalais)
<i>Campanula fulgens</i>	Dense	Bangitappal	Rare	Single	Oct-Nov	Dormant	S. and N. India, Burma
<i>Lobelia leschenaultiana</i>	Shola edge, cliffside	Along plateau edge	Not common	Single	Dec-Mar	Perennial	Mountains of S. India
<i>Wahlenbergia marginata</i>	Patchy, dense	Madippumalai	Rare	Single	Oct-	Dormant	India, China, Japan, Australia
<b>Ericaceae</b>							
<i>Gaultheria fragrantissima</i>	Dense, patchy	Throughout the area	Common	Scattered	Nov-Apr	Perennial	India, Burma, Nepal
<i>Rhododendron nilagiricum</i>	Dense, patchy	Throughout the area	Common	Scattered	Nov-Mar	Perennial	Western Ghata
<b>Primulaceae</b>							
<i>Lysimachia procumbens</i>	Patchy	Nadugani	Occasional	Scattered	Apr	Dormant	India, Sri Lanka
<b>Oleaceae</b>							
<i>Jasminum bignoniaceum</i>	Patchy, shola edge	Throughout the area	Occasional	Single	Feb-Apr	Perennial	Endemic- Southern Western Ghats
<b>Asclepidaceae</b>							
<i>Ceropegia pusilla</i>	Patchy	Throughout the area	Occasional	Scattered	Apr-	Dormant	Endemic- Nilgiris, Anamalais
<b>Gentianaceae</b>							
<i>Gentiana pedicellata</i>	Patchy, marshy	Throughout the area	Common	Scattered	Sep-Nov, Jan-Apr	Annual	Western Ghata
<i>Swertia corymbosa</i>	Patchy	Throughout the area	Common	Scattered	Aug-Dec	Annual	Western Ghata
<b>Boraginaceae</b>							
<i>Cynoglossum furcatum</i>	Patchy, dense	Path to Nadugani	Rare	Single	Sep-Jan	Dormant	Western Ghats



### Scrophulariaceae

<i>Calceolaria grandiflora</i>	Patchy	Bangitappal	Common	Scattered	Oct-Jan	Annual	Exotic
<i>Pedicularis perrottetii</i>	Rocky	Madippumalai, Nadugani	Rare	Scattered	Sep-Oct	Dormant	Endemic- Western Ghats (Nilgiris, Anamalais)
<i>Pedicularis zeylanica</i>	Patchy	Throughout the area	Occasional	Scattered	Sep-Nov	Dormant	India, Sri Lanka
<i>Sopubia trifida</i>	Patchy	Throughout the area	Occasional	Scattered	Oct-Jan	Dormant	S. India, Sri Lanka, China, Phillipines
<i>Striga lutea</i>	Patchy	South of Madippumalai	Rare	Scattered	Oct	Annual	India, Southeast Asia, Africa, Madagascar

### Lentibulariaceae

<i>Utricularia graminifolia</i>	Marshy, streamside	Throughout the area	Occasional	Scattered	Nov-Apr	Annual	Western Ghats
<i>Lentibularia squamosa</i>	Stream side	Nadugani	Occasional	Scattered	Feb-Apr	Annual	Western Ghats

### Acanthaceae

<i>Andrographis lobeliodes</i>	Dense, patchy	Throughout the area	Common	Scattered	Sep-Jan	Dormant	Endemic- Nilgiris
<i>Justicia latispica</i>	Shola edge	Throughout the area	Occasional	Scattered	Nov-Mar	Perennial	Endemic- Western Ghats (Nilgiris, Palnis, Anamalais)
<i>Justicia simplex</i>	Dense, patchy	Throughout the area	Common	Scattered	Sep-Jan	Perennial	India, Malaysia
<i>Strobilanthes kuntianus</i>	Patchy,dense, Shrubby	Throughout the area	Common	Scattered	Sep-Jan	Perennial	Endemic- South India
<i>Strobilanthes wightianus</i>	Shola edge, shrubby	Throughout the area	Common	Scattered	Aug-Jan	Perennial	Endemic- Nilgiris

### Lamiaceae

<i>Prunella vulgaris</i>	Patchy, streamside	Throughout the are	Occasional	Scattered	Feb-Apr	Perennial	Asia, Europe, Africa, Australia
<i>Chenopodium umbrosum</i>	Dense, patchy	Throughout the area	Occasional	Single	Oct-Apr	Dormant	S. India
<i>Leucas lancifolia</i>	Shola edge	Throughout the area	Occasional	Scattered	Sep-Mar	Perennial	Endemic-Western Ghats (Nilgiris, Palnis)
<i>Leucas rosmarinifolia</i>	Rocky	Throughout the area	Occasional	Scattered	Aug-Nov	Perennial	Endemic- Nilgiris
<i>Leucas suffruticosa</i>	Patchy, dense	Throughout the area	Common	Scattered	Aug-Apr	Dormant	Endemic- Western Ghats (Nilgiris, Anamalais)
<i>Micromeria biflora</i>	Dense, patchy, rocky	Throughout the area	Common	Scattered	Oct-Mar	Perennial	Asia, Africa
<i>Plectranthus barbatus</i>	Rocky	Near Solakalmalai	Rare	Single	Oct-Nov	Perennial	S. India
<i>Isodon nilgherricus</i>	Rocky	Madippumalai	Occasional	Scattered	Oct-Dec	Dormant	Endemic- Western Ghats (Nilgiris, Palinis)

<i>Pogostemon atropurpureus</i>	Shola edge	Nadugani	Rare	Single	Feb-	Perennial	Endemic- Nilgiris
<i>Pogostemon mollis</i>	Patchy	Path to Nadugani	Rare	Scattered	Feb-	Perennial	Endemic- Western Ghats
<i>Pogostemon speciosus</i>	Shola edge	Path to Nadugani	Rare	Scattered	Oct-Feb	Perennial	Endemic- Western Ghats (Nilgiris, Anamalais)
<i>Teucrium wightii</i>	Patchy	Throughout the area	Occasional	Scattered	Nov-Feb	Perennial	Endemic- Nilgiris
<b>Plantaginaceae</b>							
<i>Plantago erosa</i>	Stream side	Throughout the area	Occasional	Scattered	Jan-Apr	Dormant	India, Sri Lanka, China, Burma
<b>Polygonaceae</b>							
<i>Polygonum sphaerocephalum</i>	Shola edge	Throughout the area	Occasional	Scattered	Dec-Apr	Perennial	India, Nepal
<b>Santalaceae</b>							
<i>Thesium wightianum</i>	Rocky, patchy	Throughout the area	Not common	Scattered	Nov-Apr	Perennial	Endemic- Southern Western Ghats
<b>Euphorbiaceae</b>							
<i>Phyllanthus gardnerianus</i>	Rocky, patchy	Throughout the area	Occasional	Scattered	Jan-Apr	Perennial	S. India, Sri Lanka
<b>Orchidaceae</b>							
<i>Aerides crispa</i>	On rocks	Throughout the area	Occasional	Single	Feb-Apr	Perennial	Endemic- Western Ghats
<i>Coelogyne glandulosa</i>	Cliffside, shola edge	Along edge of plateau	Not common	Gregarious	Apr-	Perennial	Western Ghats
<i>Coelogyne nervosa</i>	Rocky, patchy	Throughout the area	Rare	Scattered	Feb-Apr	Perennial	Western Ghats
<i>Eria reticosa</i>	Shola edge	Throughout the area	Common	Colony	Jul-Aug	Perennial	
<i>Eria tiagii</i>	Shola edge	Throughout the area	Not common	Colony	Jul-Aug	Perennial	Endemic- Western Ghats
<i>Habenaria barnesii</i>	Patchy	Nadugani	Rare	Scattered	Sep-Nov	Dormant	Western Ghats
<i>Habenaria cephalotes</i>	Patchy, rocky	Throughout the area	Common	Scattered	Sep-Nov	Dormant	Endemic- Western Ghats
<i>Habenaria digitata</i>	Shola edge	Throughout the area	Common	Scattered		Dormant	S. India
<i>Habenaria heyneana</i>	Patchy Rocky	Throughout the area	Occasional	Scattered	Sep-Nov	Dormant	S. India
<i>Peristylus spiralis</i>	Patchy, dense	Throughout the area	Not common	Scattered		Dormant	S. India, Sri Lanka
<i>Satyrium nepalense</i>	Patchy, rocky, dense	Throughout the area	Common	Scattered	Sep-Nov	Dormant	S. India, Sri Lanka, Nepal, Burma

<i>Spiranthes sinensis</i>	Patchy, marshy	Bangitappal, Nadugani	Not common	Scattered	Apr-	Dormant	India, China
<b>Amaryllidaceae</b>							
<i>Curculigo orchioides</i>	Patchy	Throughout the area	Common	Scattered	Jan-Mar	Dormant	India, Java, Phillipines
<b>Liliaceae</b>							
<i>Asparagus fysonii</i>	Patchy	Nadugani	Rare	Scattered	Feb-Mar	Perennial	Endemic- Western Ghats (Nilgiris, Palnis, Anamalais)
<i>Chlorophytum malabaricum</i>	Patchy	Throughout the area	Occasional	Single	Sep-Oct	Dormant	Endemic- Western Ghats
<b>Juncaceae</b>							
<i>Juncus inflexus</i>	Marshy	Throughout the area	Common	Gregarious	Oct-Mar	Perennial	Asia, Africa, Europe
<i>Juncus leschenaultii</i>	Stream side	Throughout the area	Not common	Scattered	Oct-Mar	Annual	India, China, Japan, Nepal
<b>Araceae</b>							
<i>Arisaema leschenaultii</i>	Shola edge, rocky	Throughout the area	Occasional	Single	Apr-	Dormant	S. India
<b>Eriocaulaceae</b>							
<i>Eriocaulon nilagirensense</i>	Marshy	Throughout the area	Not common	Scattered	Sep-Jan	Annual	Endemic- Western Ghats (Nilgiris, Palnis)
<i>Eriocaulon collinum</i>	Marshy, Patchy	Throughout the area	Common	Colony	Aug-Sep	Annual	S. India, Sri Lanka
<i>Eriocaulon gamblei</i>	Marshy	Throughout the area	Not common	Scattered	Oct-Mar	Annual	Nilgiris
<i>Eriocaulon robustum</i>	Stream side	Throughout the area	Common	Colony	Sep-Apr	Perennial	Endemic- Nilgiris

**Cyperaceae**

Carex filicina	Marshy, patchy	Throughout the area	Common	Scattered	Oct-Dec	Annual	Western Ghats
Carex nubigena	Marshy, stream side	Bangitappal	Occasional	Single	Oct-Dec	Annual	India, Sri Lanka, China, Japan
Scirpus subcapitatus	Stream side	Throughout the area	Common	Scattered	Nov-Apr	Annual	India, Sri Lanka, Malaysia, China

**Gramineae (Poaceae)**

Agrostis pilosula	Shola edge, Patchy	Throughout the area	Not common	Scattered	Aug- Dec	Annual/ Perennial	Endemic- Western Ghats
Agrostis setacea	Patchy	Bangitappal	Not common	Scattered	Oct-Dec		
Agrostis stolonifera	Rocky	Throughout the area	Not common	Scattered	Sep-Nov	Perennial	Asia, Europe
Andropogon gayanum dicanthium polypty ----	Dense, patchy	Throughout the area	Abundant	Gregarious	Feb-Mar	Perennial	The most common species in the area, dominating most of the 'dense' grassland Exotic
Andropogon lividus	Patchy	Throughout the area	Common	Scattered	Sep- Dec		S. India, Sri Lanka
Andropogon polyptychus	Patchy	Bangitappal			Sep-Jan	Perennial	Western Ghats
Anthoxanthum odoratum	Patchy	Bangitappal	Rare	Scattered	Sep-Dec	Annual	Asia, Europe
Arundinella purpurea	Patchy	Throughout the area	Not common	Scattered	Oct-Nov	Perennial	S. India
Brachypodium sylvaticum	Patchy	Bangitappal	Not common	Gregarious	Sep-	Perennial	Europe, Asia, Africa
Chrysopogon zeylanicus	Dense, damp places, streamside	Throughout the area	Common	Gregarious	Aug-Jan	Perennial	S. India, Sri Lanka
Chrysopogon asper	Patchy, rocky, dense	Throughout the area	Common	Scattered	Sep-Dec	Perennial	S. India
Dichanthium oliganthum	Rocky, patchy	Throughout the area	Not common	Scattered	Sep-Nov	Annual	S. India
Eragrostis sp.	Patchy	Labor shed	Rare	Single	Dec-		
Eulalia phaeotrix	Patchy, dense	Throughout the area	Common	Scattered	Sep-Dec	Perennial	S. India, Sri Lanka, Southeast Asia
Garnotia puchiparensis	Rocky	Throughout the area	Occasional	Scattered	Sep-Nov	Annual	?
Helictotrichon virescens	Patchy, Dense	Throughout the area	Common	Scattered	Sep-Dec	Perennial	India, Burma, Sri Lanka
Isachne kunthiana	Shola edge	Throughout the area	Common	Gregarious	Oct- Dec	Perennial	India, Sri Lanka, Southeast Asia
Ischaemum commutatum	Shola edge	Throughout the area	Not common	Gregarious	Sep-	Perennial	S. India, Sri Lanka

Ischaemum indicum	Patchy, dense	Throughout the area	Common	Scattered	Aug- Jan	Perennial	S. India, Southeast Asia
Ischaemum nilagiricum	Patchy, dense	Throughout the area	Not common	Scattered	Dec- Feb	Perennial	Endemic- Western Ghats (Nilgiris, Palnis)
Jansenella griffithiana	Rocky	Throughout the area	Occasional	Scattered	Oct-Nov	Annual	India, Sri Lanks
Poa gamblei	Patchy	Bangitappal	Not common	Scattered	Oct- Dec	Annual	Endemic- Nilgiris
Themeda tremula	Patchy, dense, shoal edge	Throughout the area	Common	Scattered/ Gregarious	Sep- Dec	Annual/ Perennial	S. India, Sri Lanka
Tripogon bromoides	Patchy, rocky	Throughout the area	Not common	Scattered	Sep-Nov	Perennial	S. India, Sri Lanka
Tripogon ravianus							Endemic- Nilgiris
Tripogon jacquemontii	Patchy, dense	Throughout the area	Common	Gregarious	Feb-		?

## Pteridophyte List

Species	Preferred grassland type	Distribution/locality	Relative abundance	Social setting	Annual/perennial	Distribution
<b>Lycopodiaceae</b>						
Lycopodium wightianum	Patchy, rocky	Path to Nadugani Bangitappal	Occasional	Gregarious	Perennial	S. India
Lycopodiella cernua	Patchy, road cutting	Path to Nadugani	Rare	Gregarious	Perennial	S. India
Huperzia sp.	Streamside	Bangitappal	Rare	Single	Perennial	
Huperzia sp.	Rocky	Throughout the area	Occasional	Single	Perennial	
<b>Gleicheniaceae</b>						
Dicranopteris liniaris	Shola edge	Path Nadugani	Rare	Gregarious	Perennial	S. India
<b>Osmundaceae</b>						
Osmunda hugeliana	Streamside	Throughout the area	Common	Scattered	Perennial	India
<b>Sinopteridaceae</b>						
Cheilanthes bellangeri						
<b>Lindseaceae</b>						
Lindsea odorata	Damp open places	Throughout the area	Occasional	Gregarious	Perennial	Endemic- Southern Western Ghats
<b>Dryopteridaceae</b>						
Polystichum squarrosus	Shola edge, patchy	Throughout the area	Common	Scattered	Perennial	Endemic- Southern Western Ghats
Dryopteris sp.						
<b>Thelipteridaceae</b>						
Stegnogramma pozoi	Streamside	Bangitappal	Occasional	Scattered	Perennial	Asia
<b>Polypodiaceae</b>						
Crypsinus montanus	Rocky	Throughout the area	Occasional	Single	Dormant	South India, Sri Lanka
<b>Dennstaedtiaceae</b>						
Pteridium aquilinum	Patchy	Throughout the area	Common	Gregarious	Perennial	Cosmopolitan
<b>Cyatheaceae</b>						
Cyathea crinita	Road cutting	Bangitappal	Occasional	Scattered	Perennial	Endemic- southern Western Ghats
<b>Athyriaceae</b>						
Athyrium sp.	Under rocks	Path to Nadugani	Occasional	Gregarious	Dormant	