

# KEY WORKS OF FLORISTICS OF INDIA

Volume 2

G. S. GIRI, M. P. NAYAR & T. K. PAUL

BOTANICAL SURVEY OF INDIA

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**FLORA OF INDIA (Series 4)**

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MAHARASHTRA



*Dendrobium aqueum* Lindl.



*Cleidion spiciflorum* (Burm.f.) Merr.

MANIPUR



*Arundina graminifolia* (D. Don) Hochr.



*Rhynchostylis retusa* Blume



*Nepenthes khasiana* Hook f.



*Drosera peltata* Sm. var. *lunata* C. B. Clarke

MIZORAM



*Renanthera imschootiana* Royle





*Paphiopedium hirsutissimum* (Lindl. ex Hook.) Stein.



*Phaius tankervilleae* (Banks ex L' Herit) Blume

ORISSA



*Acanthus ilicifolius* L.

ORISSA

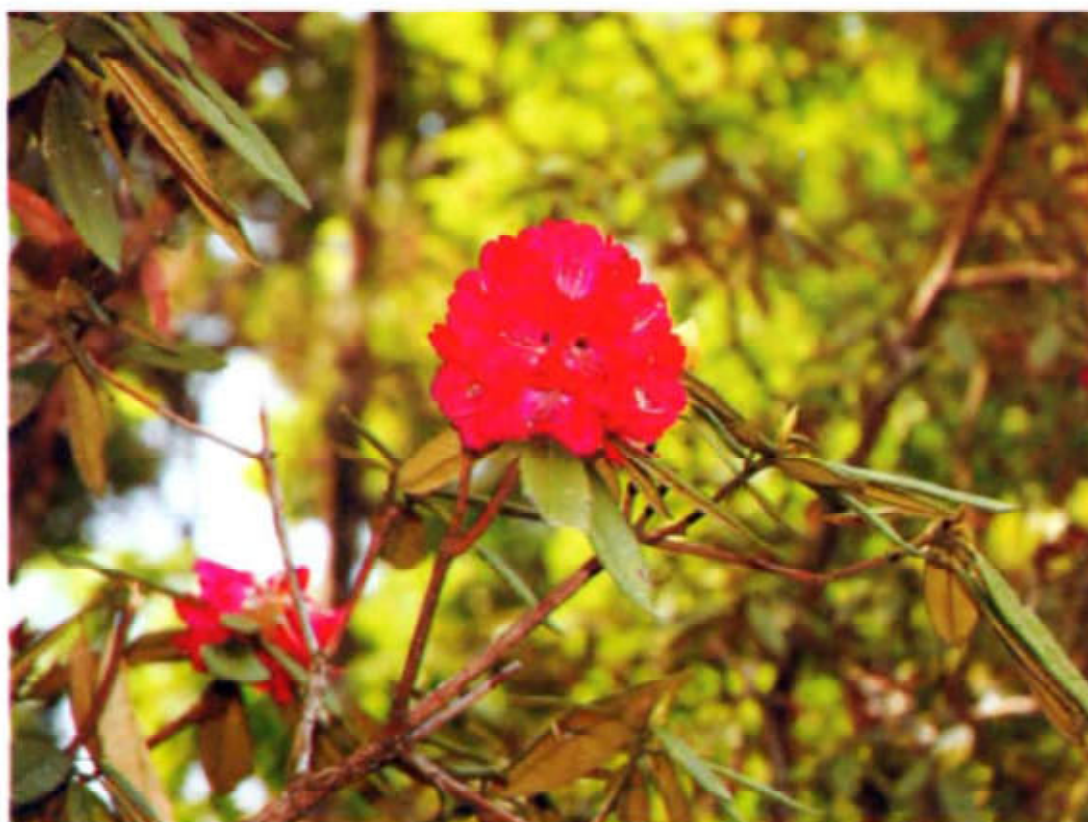


*Cassia fistula* L.

SIKKIM



*Dendrobium densiflorum* Lindl.



*Rhododendron arboreum* Sm.

## MAHARASHTRA

Maharashtra (capital Mumbai), the third largest state in India both by area and population can be broadly divided into three regions as: a) coastal region- the western part overlooking the Arabian Sea, parallel to the coastal flank runs the Sahyadris or the Western Ghats; b) the central region and c) the eastern region.

The state is divided into the following districts:

Dist.	Area sq.km.	Population	Dist. Hq.
1. Mumbai City	69	3326837	Mumbai.
2. Mumbai Suburban	534	8587561	Bandra (E).
3. Thane	9558	8128833	Thana.
4. Raigarh	7152	2205972	Alibag.
5. Ratnagiri	8208	1696482	Ratnagiri.
6. Sindhudurg	5207	861672	Kudal.
7. Nasik	15530	4987923	Nasik.
8. Dhule	13150	1708993	Dhule.
9. Jalgaon	11765	3679936	Jalgaon.
10. Ahmednagar	17048	4088077	Ahmednagar.
11. Pune	15643	7224224	Pune.
12. Satara	10480	2796906	Satara.
13. Sangli	8572	2581835	Sangli.
14. Solapur	14895	3855383	Solapur.
15. Kolhapur	7685	3515413	Kolhapur.
16. Aurangabad	10107	2920548	Aurangabad.
17. Jalna	7718	1612357	Jalna.
18. Parbhani	11041	1491109	Parbhani.
19. Bid	10693	2159841	Bid.
20. Nanded	10528	2868158	Nanded.
21. Osmanabad	7569	1472256	Osmanabad.
22. Latur	7159	2078237	Latur.
23. Buldana	9661	2226328	Buldana.
24. Akola	10574	1629305	Akola.
25. Amravati	12210	2606063	Amravati.

Dist.	Area sq.-km.	Population	Dist. Hq.
26. Yavatmal	13582	2460482	Yavatmal.
27. Wardha	6309	1230640	Wardha.
28. Nagpur	9892	4051444	Nagpur.
29. Bhandara	9321	1135835	Bhandara.
30. Chandrapur	11443	2077909	Chandrapur.
31. Gardchiroli	14412	969960	Gardchiroli.
32. Nandarbar	4933	1309135	Nandarbar.
33. Wasim	5178	1019725	Wasim.
34. Gondia	5341	1200151	Gondia.
35. Hingoli	4526	986717	Hingoli.

### Vegetation and Important Floristic Elements

With the change in altitude and topography, variation in temperature and a great variation in amount of annual rainfall that ranging from a minimum 600 mm to 2250 mm or more, accompanied by various biotic and edaphic factors, a great variation in the vegetation is noted in the state. The long coastal belt with about 560 km stretch, along the Arabian Sea is the area mainly with paddy and coconut cultivation. Parallel to this, the Sahyadris with an average height of 1200 m is covered with evergreen forests and moist deciduous type to its western side. The central part constitute the dry deciduous type and to the east of it, the eastern part of the state mainly covered with thorn and scrub forests. The great fertile plate that stretches to the east of the Sahyadris is drained by the rivers like Godavari, Bhima and Krishna which rise from Sahyadris and through the plateau flow eastwards into the Bay of Bengal. This extremely fertile portion produces excellent crops like cotton, oil seeds and sugarcane. The rain-shadow of Sahyadris comprises the districts like Nasik, Pune, Ahmedabad, Dhule, Satara, Sangli, Solapur, Jalagaon and parts of Kolhapur.

Some important floristic elements are *Diospyros melanoxylon*, *Lagerstroemia parviflora*, *Gardenia latifolia*, *Clerodendrum serratum*, *Holarrhena antidysenterica*, *Bauhinia racemosa*, *Anogeissus latifolia*, *Butea monosperma*, *Mallotus philippensis*, *Sterculia urens*, *Mitragyna parviflora*, *Terminalia tomentosa*, *T. bellerica*, *Dalbergia paniculata*, *Ziziphus mauritiana*, *Kydia calycina*, *Casearia graveolens*, *Colebrookia oppositifolia*, *Leea macrophylla*, *Tectona grandis*, *Adina cordifolia*,

*Wrightia tinctoria, Mucuna prurita, Abutilon indicum, Achyranthes aspera, Andrographis paniculata, Amaranthus spinosus, Ammania baccifera, Desmodium triflorum, Merremia emarginata, etc.*

### **Rare, Threatened and Endemics**

As the factors favourable for a varied type of vegetation, the state comprises a rich plant wealth. This include a number of endemics. Due to various biotic, edaphic or other factors a large number of rare or threatened taxa have also been noted. Maharashtra covers many sacred groves with climax pockets of forests which are devoid of human interference due to religious beliefs and thus possess a number of endemic taxa. These pockets also preserve some plants which have become very rare and threatened in other areas (Gadgil & Vartak, 1975). Some representatives are *Clematis wightiana, Tinospora malabarica, Capparis mooni, Canarium strictum, Crotalaria leptostachya, Cassia kleinii, Entada pursaetha, Begonia concanensis, Penceolanum grande, Centratherum tenue, Beaumontia jerdoniana, Campanula alphansonii, Hemidesmus indicus, Exacum bicolor, Paracaryum malabaricum, Porana malabarica, Christisonia lawii, Utricularia albo-coerulea, Thunbergia mysorensis, Barleria lawii, B. gibsonii, Pleocaulus ritchii, Mallotus stenanthus, Dimorphocalyx lawianus, Heracleum equilegifolium, Salacia brunoniana, Impatiens rivalis, Blumea sessiliflora, Nanotheramnus sericeus.*

### **Industry and Economy**

The major food crops of the state are wheat, rice, bajra, jowar and the other crops are sugarcane, cotton and groundnuts. Among the forest wealth, teak is regarded the chief timber. Minor forest produces include Kendu leaves, bamboos, fibre, resin, gums, etc. The important minerals of the state are coal, iron and manganese ore, lime stone, bauxite, silica sand, etc. As the state is rich in forest wealth, several forest based timber and paper industries located in the state. Large scale industries also include textiles. Most of the textile industries are located in Mumbai. Other industries include gunning, silk, rayon, sugarcane, etc. Among important chemical industries are nitrogenous fertilizer, drugs-pharmaceuticals, petro-chemicals.

### **Sanctuaries, National Parks and Biosphere Reserves**

- 1. Bor Wildlife Sanctuary:** Wardha Dist., 61.10 sq. km.; tropical dry deciduous; important faunal representatives are tiger, sloth bear, sambar, spotted deer, four-horned antelope, blue bull.

2. **Borivile National Park(Sanjay Gandhi National Park) :** Ahmednagar Dist.; 7818.47 sq. km.; tropical dry deciduous-thorns; important faunal representatives are great Indian bustard, partridges.
3. **Dhakna Kolkaz Tiger Project:** Amravati Dist.; 381.58 sq. km.; tropical dry deciduous type- important floristic components are *Dalbergia paniculata*, *Anogeissus latifolia*, *Adina cordifolia*, *Wrightia tinctoria*, *Kydia calycina*, *Diospyros melanoxylon*, *Grewia abutilifolia*, *Leea macrophylla*, *Dendrocalamus strictus*, *Tectona grandis*, *Terminalia tomentosa*, various herbs like *Polygala*, *Sida*, *Urena*, *Impatiens*, *Biophytum*, *Blumea*, *Ageratum*, *Millettia auriculata*, *Celastrus paniculata*, etc.

Important faunal representatives are tiger, panther, gaur, sambar, barking deer, spotted deer, four-horned antelope.

4. **Deulgaon Rehekuri Wildlife Sanctuary (Blackbuck Sanctuary):** Ahmednagar Dist.; 2.17 sq. km.; tropical dry deciduous-thorns; important faunal representatives are black buck, chinkara, partridges.
5. **Karnala Bird Sanctuary:** Raigarh Dist.; 4.48 sq. km.; tropical moist deciduous-water land; important faunal representatives are leopard, sambar, barking deer, four-horned antelope, blue bull, jungle fowl, water fowl.
6. **Kinwal Wildlife Sanctuary:** Yavatmal & Nanded Dist.; 138.00 sq. km.; tropical dry deciduous; important faunal representatives are tiger, leopard, sloth bear, sambar, barking deer, chinkara.
7. **Nagzira Wildlife Sanctuary:** Bhandara Dist.; 131.75 sq. km.; mixed deciduous type- important floristic components are *Bridelia retusa*, *Anogeissus latifolia*, *Kydia calycina*, *Mallotus philippensis*, *Sterculia urens*, *Buchanania lanzan*, *Emblica officinalis*, *Grewia tiliaefolia*, *Gardenia latifolia*, *Lagerstroemia parviflora*, *Mitragyna parviflora*, *Andrographis paniculata*, *Dipteracanthus prostratus*, *Merremia emarginata*, *Crotalaria hirta*, *Achyranthes aspera*, etc.

Important faunal representatives are tiger, leopard, sloth bear, gaur, sambar, four- horned antelope, blue bull, jungle fowl.

8. **Nawegaon National Park:** Bhandara Dist.; 133.83 sq. km; mixed deciduous with teak-important floristic elements other than *Tectona grandis* are- *Albizia lebeck*, *Mitragyna parviflora*, *Bridelia retusa*,



*Holarrhena antidysenterica*, *Cardiospermum helicacabum*, *Sida cordata*, *Indigofera linifolia*, *Butea monosperma*, *Hibiscus lobatus*, *Boswellia serrata*, *Woodfordia fruticosa*, *Diospyros melanoxylon*, *Desmodium velutinum* and some shelter plants like *Aegle marmelos*, *Mangifera indica*, *Tamarindus indicus*, *Bauhinia racemosa*, etc.

9. **Pench National Park:** Nagpur Dist.; 257.26 sq. km.; tropical dry deciduous-teak; important faunal representatives are tiger, leopard, sloth bear, sambar, spotted deer, four-horned antelope, pea fowl, jungle fowl.
10. **Radhanagari Wildlife Sanctuary:** Kolhapur Dist.; 2072.00 sq. km.; tropical dry deciduous; important faunal representatives are panther, gaur, sambar, black buck.
11. **Tadoba National Park:** Chandrapur Dist.; 117.00 sq. km.; tropical dry deciduous-natural teak; important faunal representatives are tiger, leopard, sloth bear, sambar, four-horned antelope, blue bull.
12. **Tansa Wildlife Sanctuary:** Thane Dist.; 216.75 sq. km.; tropical moist deciduous; important faunal representatives are leopard, sambar, spotted deer, water-birds.
13. **Yawal Wildlife Sanctuary:** Jalgaon Dist.; 177.52 sq. km.; tropical dry deciduous; important faunal representatives are tiger, hyaena, sambar, spotted deer, barking deer.
14. **Gugamal National Park:** 361.28 sq. km.
15. **Amba-Barwa Wildlife Sanctuary:** 127.11 sq. km.
16. **Andhari Wildlife Sanctuary:** 509.27 sq. km.
17. **Aner Dam Wildlife Sanctuary:** 82.94 sq. km.
18. **Bhamraghar Wildlife Sanctuary:** 104.38 sq. km.
19. **Bhimashankar Wildlife Sanctuary:** 130.78 sq. km.
20. **Chandoli Wildlife Sanctuary:** 308.97 sq. km.
21. **Chaprala Wildlife Sanctuary:** 134.78 sq. km.
22. **Dhyanganga Wildlife Sanctuary:** 205.23 sq. km.

23. **Gautala Wildlife Sanctuary:** 260.61 sq. km.
24. **Great Indian Bustard Wildlife Sanctuary:** 8496.44 sq. km.
25. **Jaikwadi Wildlife Sanctuary:** 341.0 sq. km.
26. **Kalsubai Wildlife Sanctuary:** 361.71 sq. km.
27. **Karanja Sohul Wildlife Sanctuary:** 18.32 sq. km.
28. **Katepurna Wildlife Sanctuary:** 73.63 sq. km.
29. **Koyana Wildlife Sanctuary:** 423.55 sq. km.
30. **Lonar Wildlife Sanctuary:** 1 17 sq. km.
31. **Marine (Malvan) Wildlife Sanctuary:** 29.12 sq. km.
32. **Mayureshwar Supe Wildlife Sanctuary:** 5.15 sq. km.
33. **Melghat Wildlife Sanctuary:** 1150.03 sq. km.
34. **Naigaon mayur Wildlife Sanctuary:** 29.89 sq. km.
35. **Nandur Madhameshwar Wildlife Sanctuary:** 100.12 sq. km.
36. **Narnala Wildlife Sanctuary:** 12.35 sq. km.
37. **Painganga Wildlife Sanctuary:** 324.62 sq. km.
38. **Phansad Wildlife Sanctuary:** 69.79 sq. km.
39. **Sagareshwar Wildlife Sanctuary:** 10.87 sq. km.
40. **Tipeshwar Wildlife Sanctuary:** 148.63 sq. km.
41. **Yedsi Ramlinghat Wildlife Sanctuary:** 22.38 sq. km.
42. **Wan Wildlife Sanctuary:** 211.00 sq. km.

**Botanic Gardens**

1. **Experimental Botanic Garden, Botanical Survey of India:** Pune Dist.; 18.3 ha.; collection of about 3000 trees and shrubs of 400 species and 40 varieties of medicinal plants.
2. **Botanic Garden, University of Poona:** Pune Dist.; 0.27 ha.; collection of 520 species of plants including trees, shrubs, ferns, gymnosperms, orchids and rare botanical species.
3. **Botanical Garden, Institute of Sciences:** Mumbai Dist.; 0.2 ha.; collection of 150 trees and 125 species of seasonal ornamentals, pteridophytes and gymnosperms.
4. **Botanic garden, Marathwada University:** Aurangabad Dist.; 15 ha.; collection of 504 species of academic interest, 102 species of cacti and succulents, 48 species of special plants in nursery.

**General**

- |     |   |  |
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| MHR | 1 | Ahuja, K.K. & Cherian, P.J. (1969) 1970<br><i>Canscora concanensis</i> C.B. Cl. in Maharashtra. <i>J. Bombay Nat. Hist. Soc.</i> 66: 655.  |
| MHR | 2 | Ahuja, K.K. & Pataskar, R.D. 1969<br><i>Synedrella vialis</i> (Less.) A. Grey: a new record for India. <i>Ind. Forester</i> 95: 267, pl.1. descr. Comparison with <i>S. nudiflora</i> ; notes. |
| MHR | 3 | Almeida, S.M. & Almeida, M.R. 1987<br>Notes on Cyperaceae of Maharashtra. <i>J. Bombay Nat. Hist. Soc.</i> 84(1): 257-259.   |
| MHR | 4 | Almeida, S.M. & Darwalla, A.R. 1987<br>Massive occurrence of <i>Enhydra fluctuans</i> Lour. (Enhydra) in city pond. <i>J. Bombay Nat. Hist. Soc.</i> 84(2): 463-465.                           |
| MHR | 5 | Almeida, M. R. & Almeida, S.M. 1987<br>Two little known flowering plants from Maharashtra. <i>J. Bombay Nat. Hist. Soc.</i> 84(3): 719-722 (with a text figure).                               |

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*Drimia razii* sp. nov. (Liliaceae) from Maharashtra. *J. Bombay Nat. Hist. Soc.* 78(3): 572-574.
- MHR 7 Ansari, M.Y. & Rao, R.S. (1978) 1979  
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- MHR 10 Ansari, M.Y. (1971) 1974  
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- MHR 14 Billore, K.V. 1969  
*Euphorbia erythroclada* Boiss.- a little known species from Maharashtra. *Ind. Forester* 95: 576-578, fig. 5, Collected after more than 100 years in Thana Dt., descr., phenol.

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- MHR 431 Mahabale, T.S. 1979  
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- MHR 433 Sharma, B.D. & Kulkarni, B.G. (1980) 1982  
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- MHR 436 Venkatareddi, B. (1970) 1972  
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## MANIPUR

Manipur (capital Imphal) had been a Union Territory from 1956 and a full-fledged state from 1972. The state is bounded by Nagaland in the north, Mizoram in the south, Upper Burma in the east and Cachar district of Assam in the west.

The state is divided into the following districts:

Dist.	Area sq.km.	Population	Dist. Hq.
1. Bishnupur	496	205907	Bishnupur.
2. Chandel	3313	122714	Chandel.
3. Churachandpur	4570	228707	Churachandpur.
4. Imphal West	519	439532	Lamphel.
5. Imphal East	709	393780	Porospat.
6. Senapati	3271	379214	Senapati.
7. Tamenglong	4391	111493	Tamenglong.
8. Thoubal	514	366341	Thoubal.
9. Ukhrul	4544	140946	Ukhrul.

### Vegetation and Important Floristic Elements

The vegetation of Manipur, like the whole north-eastern region of India can be classified into three major types: Tropical, Temperate and Alpine with their intermediate subtypes:

- i) **Tropical moist and dry deciduous forest:** This type is dominated by taxa such as *Albizia lebeck*, *Anthocephalus chinensis*, *Dipterocarpus tuberculatus*, *Duabanga grandiflora*, *Sterculia villosa*, *Aglaiia hiernii*, *Callicarpa arborea*, *Persia villosa*, *Turpinia pomifera*, *Buddleja asiatica*.
- ii) **Tropical evergreen and semi-evergreen forest:** The dominant elements are *Aglaiia hiernii*, *Artocarpus heterophyllus*, *Castanopsis castanicarpa*, *Cinnamomum glaucescens*, *Elaeocarpus floribundus*, *Alstonia scholaris*, *Bischofia javanica*, *Schima wallichii*, *Alangium barbatum*, *Macaranga denticulata*, *Macropanax undulatus*, *Coffea khasiana*.
- iii) **Subtropical mixed forest:** This type is dominated by *Alnus nepalensis*, *Albizia chinensis*, *Betula alnoides*, *Acer oblongum*, *Brucea mollis*, *Anneslea fragrans*, *Eurya nitida*, *Maesa indica*, *Mussaenda glabra*, *Toddalia asiatica*.



- iv) **Subtropical pine forest:** This type is interspread by a few tree species such as *Engelhardtia spicata*, *Quercus griffithii*, *Pinus kesiya* (Khasi pine) occurs in pure patches.
- v) **Temperate vegetation:** This type is dominated by *Acer oblongum*, *Alnus nepalensis*, *Betula alnoides*, *Cinnamomum bejolghota*, *Magnolia insignis*, *Prunus cerasoides*, *Rhododendron arboreum*, *R. johnstoneanum*, *R. triflorum*. *Sapria himalayana* an interesting root parasite found to grow on *Cissus elongata*.
- vi) **Subalpine vegetation:** The dominant elements are *Aconitum elwesii*, *Berberis manipurana*, *Corydalis chaerophylla*, *Rhododendron wattii*, *Selinum striatum*, *Spiraea callosa*, *Carex manipurensis*.

#### Rare, Threatened and Endemics

Though the region is botanically very rich but due to several biotic as well as abiotic factors a number of taxa becoming rare or threatened. The number of endemic taxa are also not few. The notable species are *Arisaema wattii*, *Aster ageratoides*, *Begonia obversa*, *Baliospermum suffruticosum*, *Berberis manipurana*, *Carex manipurensis*, *Craibiodendron stellatum*, *Euphorbia serrulata*, *Illicium manipurense*, *Impatiens longirama*, *Iris bakeri*, *I. wattii*, *Mahonia magnifica*, *Piper kapruannum*, *P. meeboldii*, *Potentilla manipurensis*, *Strychnos nuxvomica*.

Manipur state harbours about 40 species of Bamboos which are well known for their multipurpose economic uses. The tender shoots are eaten as vegetable by the local inhabitants. About 226 species of orchids have also been reported from this state.

#### Sanctuaries, National Parks and Tiger Reserves

1. **Keibul-lamjao National Park:** 40.00 sq. km.; tropical moist deciduous-wetland (grass and swamps); important faunal representation: Brown antlered deer, water birds.
2. **Kailam Wildlife Sanctuary:** 187.50 sq. km.
3. **Yangonpokpi-Lokchao Wildlife Sanctuary:** 184.85 sq. km.
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## MEGHALAYA

Meghalaya (capital Shillong), one of the seven sister states of north-eastern region of the country is an exclusive tribal state of the Khasis, the Jaintias and the Garos. Shillong is called "the Scotland of the East" because of its elevation. The highest peak in the state is the 'Shillong peak' - 1965 m in height. A number of rivers, none of them navigable, drain this mountainous area like Manda, Damring, Ringe, Simsang, Umtrew, Umiam Mawphlang, Kupli, Myntdu & Myntang etc. Mawsynram, a village 16 km west to Cherrapunjee, records the highest rainfall in the world with 13,923 mm per annum.

The state is divided into the following districts:

Dist.	Area sq.km.	Population	Dist. Hq.
1. East Khasi Hills	2748	660994	Shillong.
2. West Khasi Hills	5247	294115	Nongstoin.
3. East Garo Hills	2603	247555	Willamnagar.
4. West Garo Hills	3714	515813	Tura.
5. Jaintia Hills	3819	295692	Jowai.
6. Ri-Bhoi	2448	192795	Nongpoh.
7. South Garo Hills	1887	99105	Baghmara.

## Vegetation and Important Floristic Elements

Vegetation of Meghalaya can broadly be grouped into the tropical and the temperate type based on altitude, rainfall and dominant species composition.

- i) **Tropical Evergreen forests:** This type is dominated by *Mesua ferrea*, *Castanopsis indica*, *Dysoxylum gobara*, *Talauma hodgsonii*, *Bischofia javanica*, *Terminalia citrina*, *Xerospermum glabratum*, *Cynometra polyandra*, *Elaeocarpus rugosus*, *Polyalthia cerasoides*, etc.
- ii) **Tropical Semievergreen forests:** The dominant elements are *Elaeocarpus floribundus*, *Dillenia pentagyna*, *Hovenia acerba*, *Ehretia acuminata*, *Lithocarpus fenestratus*, *Garcinia lancifolia*, *Symplocos paniculata*.
- iii) **Tropical Moist and Dry Deciduous forest:** It is dominated by *Shorea robusta*, *Tectona grandis*, *Terminalia myrtocarpa*,



*Sterculia villosa*, *Artocarpus chaplasha*, *Schima wallichii*, *Salmalia malabarica*. The lianas are *Bridelia stipularis*, *Combretum roxburghii*, *Mussaenda glabra*, *Pottsia laxiflora*.

- iv) **Temperate forests:** This type is dominated by *Lithocarpus fenestratus*, *Quercus griffithii*, *Schima khasiana*, *Saurauia armata*, *Syzygium tetragonum*, *Mangleitia insignis*, *Ilex venulosa*, *Lindera malastomacea*, *Betula alnoides*.

### Rare, Threatened and Endemics

In Meghalaya, a large number of species have become threatened mainly due to the disturbances in their natural habitats and many of these rare plants are now confined to the so called 'sacred forests'. Some rare and threatened taxa are *Aeschenanthus manii*, *Apios carnea*, *Apodites dimidiata*, *Beilschmedia brandisii*, *Codonopsis javanica*, *Chirita hamosa*, *Clerodendrum hastatum*, *Diospyros undulata*, *Ilex khasiana*, *Michelia lanuginosa*, *Nepenthes khasiana*, *Parsonsia spiralis*, *Picrasma javanica*, *Polygala tricholopha*, *Premna punduana*, *Sabia parviflora*, *Strophanthus wallichii*, *Talauma rabaniana*, *Treutlera insignis*, *Ulmus lancaefolia*.

### Santuaries, National Parks and Reserves

1. **Siju Wildlife Sanctuary:** 5.18 sq. km.; Tropical moist deciduous; important faunal representatives: tiger, elephant, jungle fowl, etc.
2. **Nokrek Biosphere Reserve:** East, West and South Garo Dist.; 820.99 sq. km.; Tropical wet evergreen and deciduous forest, subtropical mixed forest as well as Bamboo forests.
3. **Balphakram National Park:** South Garo Hills Dist.; 220 sq. km.
4. **Nokrek Ridge National Park:** 47.48 sq. km.
5. **Baghmara (Pitcher Plant) Wildlife Sanctuary:** South Garo Hills dist.; 0.02 sq. km.
6. **Nongkhylllem Wildlife Sanctuary:** Ri-bhoi dist.; 29 sq. km.

### Botanic Gardens

1. **Experimental Botanic Garden:** Botanical Survey of India, Barapani 10.4 ha.; a rich collection of economic and rare species; germplasm of *Musa*, Bamboos, etc.

2. **National Orchidarium and Botanic Garden:** Botanical Survey of India, Shillong 1.5 ha.; cultivation of 500 spp., 210 spp. of orchids.

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## MIZORAM

Mizoram (capital Aizawl) occupies the extreme southern fringe of North-east India. It is bounded on the north by the district of Cachar (Assam) and Manipur on the east and south by Chin Hills and Arakan (Myanmar), on the west by the Chittagong hill tracts of Bangladesh and the state of Tripura. The important and useful rivers are: Tlawng, Kolodyne, Sonai and Tuivawal.

The state is divided into the following districts:

Dist.	Area sq.km.	Population	Dist. Hq.
1. Aizawal	3576.31	339812	Aizawal.
2. Champhai	3185.85	101389	Champhai.
3. Mamit West	3025.7559	62313	Mamit.
4. Kolasib	1282.51	60977	Kolasib.
5. Serchhip	1421.60	55539	Serchhip
6. Lawngtlai	2557.10	73050	Lawngtalai.
7. Chhimituipui	1399.90	60823	Saiha.
8. Lunglei	4538	137155	Lunglei.

### Vegetation and Important Floristic Elements

Mizoram exhibits an enormous floristic diversity. The forest of the state can be divided into Tropical wet evergreen and semi-evergreen forest, Montane subtropical forest, Temperate forest and Bamboo forest.

- i) **Tropical Wet Evergreen and Semi-evergreen forest:** This type is dominated by *Dipterocarpus turbinatus*, *D. macrocarpus*, *Michelia champaca*, *Talauma hodgsonii*, *Amoora wallichii*, *Duabanga grandiflora*, *Terminalia myriocarpa*, *Actinodaphne angustifolia*. The climbers are *Rhaphidophora exima*, *Dioscorea pentaphylla*, *Cissampelos pareira*, *Passiflora foetida*, *Smilax* spp., *Piper* spp.
- ii) **Montane Subtropical forest:** This type is represented by *Pinus kesiya*, *Quercus incana*, *Q. serrata*, *Castanopsis hystrix*, *Podocarpus nerifolia*, *Schima wallichii*, *Myristica* spp., *Potentilla fulgens*, *Ranunculus* spp., *Artemisia* spp.

- iii) **Temperate forest:** The dominant elements are *Betula alnoides*, *Exbucklandia populnea*, *Kadsura heterophylla*, *Michelia doltsopa*, *Garcinia anomala*, *Pittosporum podocarpum*, *Camellia caudata*, *Clerodendrum infortunatum*, *Hypericum elodeoides*, *Plantago major*.
- iv) **Bamboo forest:** This type is rich by the species *Melocanna baccifera*, *Bambusa tulda*, *B. pallida*, *Dendrocalamus hamiltonii*, *Schizostachyum polymorphum*.

### Rare, Threatened and Endemics

Mizoram has poor endemic flora in comparison to other North-eastern states. Some rare and threatened taxa are *Begonia lushaiensis*, *Bulbophyllum parryae*, *Jasminum wengeri*, *Didymocarpus adenocarpa*, *Rhododendron vitchianum*, *Orthosiphon glandulosus*, *Trisepalum lineicapsa*, *Paphiopedilum villosum*, *Mantesia wengeri*.

### Sanctuaries, National Parks and Tiger Reserves

1. **Dampa Wildlife sanctuary:** Aizawal Dist. 500 sq. km.; Tropical wet evergreen; faunal representatives: tiger, leopard, elephant, sambar, barking deer, bear, gour, king cobra, python and birds.
2. **Phawngpuri (Blue Mountain) National Park:** 50 sq. km.
3. **Murlen National Park:** 200 sq. km.
4. **Knwanglung Wildlife Sanctuary:** 41 sq. km.
5. **Lengtengt Wildlife Sanctuary:** 170 sq. km.
6. **Nengpui Wildlife Sanctuary:** 170 sq. km.
7. **Dampa Tiger Reserve:** 500 sq. km.

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- MIZ 2 Griffith, W. 1837  
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New records of plants for India: Orchids II. *Bull. Bot. Surv. India* 8(1): 87-88. 4 new records: 2 from Lushai Hills; 2 from K. & J. Hills, Meghalaya.
- Mizo Hills**
- MIZ 12 Dutta, R.M. & Babu, C.R. (1968) 1969  
*Desmodium cephalotoides* Craib (Papilionaceae) an interesting new record for India. *Bull. Bot. Surv. India* 10: 270-272.
- Additions**
- MIZ 13 Bathew, W.B. 1991  
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- MIZ 14 Biswas, S. 1988  
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### NAGALAND

Nagaland (capital Kohima) is a narrow strip of mountainous territory between the Brahmaputra valley of Assam and Myanmar. The main rivers that flow through the state are Dhansiri, Doyang, Dikhu and Jhanji.

The state is divided into the following districts:

Dist.	Area sq.km.	Population	Dist. Hq.
1. Kohima	4041	314366	Kohima.
2. Mokokchung	1615	227230	Mokokchung.
3. Mon	1786	259604	Mon.
4. Okha	1628	161098	Okha.
5. Phek	2026	148246	Phek.
6. Tuensang	4228	414801	Tuensang.
7. Zunheboto	1255	154909	Zunheboto.

#### Vegetation and Important Floristic Elements

The rich species content of the region is due to its geographical location, climate and topography. The vegetation can be broadly classified into the following types:

- i) **Tropical Evergreen and Semi-evergreen forest:** This type is dominant by *Dipterocarpus retusus*, *Shorea assamica*, *Artocarpus chama*, *Tetrameles nudiflora*, *Mesua ferrea*, *Guruga pinnata*, *Toona ciliata*, *Talauma hodgsoni*, *Ficus glomerata*.
- ii) **Tropical Deciduous forest:** The elements are *Albizia procera*, *Terminalia bellerica*, *T. myriocarpa*, *Gmelina arborea*, *Bambusa tulda*, *Kydia calycina*.
- iii) **Temperate forest:** The dominant species are *Phoebe cooperiana*, *Michelia champaca*, *Castanopsis indica*, *Betula alnoides*, *Alnus nepalensis*, *Quercus serrata*, *Bischofia javanica*, *Rhododendron arboreum*.
- iv) **Sub-alpine Meadows:** The elements are *Juniperus recurva*, *Rhododendron lepidotum*, *Campanula aristata*, *Carex cruciata*, *Hypericum monantherum*, *Cassiope fastigiata*.

- v) **Subtropical Pine forest:** This type occurs in the eastern and south-eastern parts of Tuensang and Phek district. The principle elements are *Pinus kesiya* with *Quercus* spp. and *Schima wallichii*.
- vi) **Mixed Bamboo forest:** It is formed by the taxa *Dendrocalamus hamiltonii*, *Teinostachyum dullooa* and *Bambusa tulda*.

#### Rare, Threatened and Endemics

There exists a conspicuous gap in our knowledge of the flora, so total assessment of taxa belonging to rare, endemic and threatened categories is not complete. However, some rare threatened taxa are *Cymbidium eburneum*, *C. tigrinum*, *Kalanchoe roseus*, *Livistona jenkinsiana*, *Gleditsia assamica*, *Crotalaria meeboldii*, *Michelia punduana*, *Ophiorrhiza gracilis*, *Pimpinella evoluta*, *Pollia pentasperma*, *Senecio rhabdos*, *Silene vagans*, *Vanda coerulea*.

#### Sanctuaries and National Parks

1. **Intangki National Park:** Kohima Dist.; 202.02 sq. km.; Tropical wet evergreen and subtropical pine; important faunal representation: clouded leopard, panther, tiger, gaur, elephant, barking deer, bear, pangolin, birds.
2. **Fakim Wildlife Sanctuary:** 6.41 sq. km.
3. **Puliebadze Wildlife Sanctuary:** 9.23 sq. km.
4. **Rangapahar Wildlife Sanctuary:** 4.70 sq. km.

#### General

- |     |   |   |
|-----|---|---|
| NAG | 1 | Biswas, S.N. 1973<br><i>Cratoxylum formosum</i> ssp. <i>pruniflorum</i> (Kurz.) Gog. (Hypericaceae <i>sensu stricto</i> ). <i>Bull. Bot. Surv. India</i> 15(1 & 2): 167-169. First record of occurrence in India from Nagaland. |
| NAG | 2 | Bor, N.L. 1964<br>Two new species in the genus <i>Capillipedium</i> Stapf. <i>Brittonia</i> 16: 227-228.  |
| NAG | 3 | Chandra, S. 1975<br><i>Ilex longicaudata</i> Comper (Aquifoliaceae)- a new record for   |

- India. *Bull. Bot. Surv. India* 17(1-4): 199-201. New record for Nagaland.
- NAG 4 Sapu Changkija & Kumar, Y. 1992  
*Panax ginseng* Nees (Araliaceae): A new distributional record for India. *Ind. J. Forestry* 15(1): 85-87.
- NAG 5 Chowdhury, S. 1970  
*Polygala mariesia* Hemsl.- new distribution in India. *Bull. Bot. Surv. India* 12(1-4): 263.
- NAG 6 Deb, D.B. & Dutta, R. 1969  
An addition to Umbelliferae from North East India. *J. Sen Memor. Vol. Bot. Soc. Beng.* 421-423, fig. 1.
- NAG 7 Deb, D.B. & Mondal, D.C. (1982) 1983  
A new species of *Ophiorrhiza* Linn. (Rubiaceae) from Nagaland, India. *J. Bombay Nat. Hist. Soc.* 79(2): 379-381, fig. 1. *O. borii* sp. nov.
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- NAG 11 Hynniewta, T.M. (1978) 1979  
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- NAG 12 Hynniewta, T.M. 1979  
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- NAG 13 Hynniewta, T.M. (1979) 1980  
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- NAG 14 Hynniewta, T.M. 1979  
Rediscovery of *Cymbidium tigrinum* Par. et Hook. in India. *Orch. Rev.* 87: 219.
- NAG 15 Hynniewta, T.M., Kataki, S.K. & Wadhwa, B.M. 2000  
*Orchids of Nagaland*, Botanical Survey of India, Calcutta.
- NAG 16 Hynniewta, T.M. & Malhotra, C.L. 1978  
A new species of *Sunipia* Lindl. (Orchidaceae) from Nagaland. *Ind. Bot. Soc.* 57: 31-33.
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*Cymbidium titrinum* Parish ex Hook.- a new record from Nagaland, India. *Bull. Bot. Surv. India* 14: 179-180.
- NAG 19 Masters, J.W. 1844  
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- NAG 23 Rao, A.S. & Verma, D.M. (1970-1976) 1972-1979  
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- NAG 24 Rao, A.S. & Verma, D.M. 1982  
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- NAG 26 Clarke, C.B. 1889  
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- Naga Hills**
- NAG 28 Biswas, K. 1941  
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- NAG 29 Bor, N.L. 1936  
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- NAG 38 Masters, J.W. 1848  
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- NAG 41 Nayar, M.P. & Giri, G.S. (1975) 1978  
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- NAG 42 Shukla, U. 1978  
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**Shugnu**

- NAG 43 Srivastava, R.C. 1983  
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**Addition**

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## ORISSA

Orissa (Capital Bhubaneswar), lies on the east coast of India and is divided into four distinct tracts viz. the northern plateau, the eastern ghats, the central tract and the coastal plains. The state is drained by three great rivers: the Mahanadi, Brahmani and Baitarani and also some small rivers. The famous and the biggest lake, the Chilka lies in this state. It is 64 km. long and 16 to 20 km. wide and was originally a part of the Bay of Bengal.

The state is divided into the following districts:

Dist.	Area sq.km.	Population	Dist. Hq.
1. Mayurbhanj	10410	2221782	Baripada.
2. Baleswar	3706	2023056	Baleswar.
3. Bhadrak	278	1332249	Bhadrak.
4. Keonjhar	8337	1561521	Keonjhar.
5. Jajpur	2885	1622868	Panikoili.
6. Kendrapada	2546	1301856	Kedrapada.
7. Jagatsinghpur	1759	1056556	Jagatsinghpur.
8. Cuttack	3915	2340686	Cuttack.
9. Dhenkanal	4597	1065983	Dhenkanal.
10. Angul	6347	1139341	Angul.
11. Kandhamal	6004	647912	Phulbani.
12. Nayagarh	3954	863934	Nayagarh.
13. Khurda	2888	1874405	Bhubaneswar.
14. Puri	3055	1498604	Puri.
15. Ganjam	8033	3136937	Chhatrapur.
16. Gajapati	3056	518448	Paralakhmundi.
17. Rayagada	7585	823019	Rayagada.
18. Koraput	853	1177954	Koraput.
19. Malkangiri	6115	480232	Malkangiri.
20. Nabarangpur	5135	1018171	Nabarangpur.
21. Kalahandi	8197	1334372	Bhavanipatna.
22. Nuapada	3408	530524	Nuapada.
23. Balangir	6552	1335760	Balangir.
24. Sonpur	2284	540659	Sonpur.
25. Sundargarh	9942	1829412	Sundargarh.
26. Baragarh	5832	1345601	Baragarh.
27. Sambalpur	11689	928889	Sambalpur.
28. Boudh	4289	373038	Boudh.
29. Deogarh	2781	274095	Deogarh.
30. Jharsuguda	2202	509056	Jharsuguda.

### **Vegetation and Important Floristic Elements**

The state possess a rich vegetational wealth for its topography with hills, valleys, rivers and estuaries. The total forest area is 47, 107 sq. km. However, the vegetation of the region can be grouped into forest, scrubs, grasslands and aquatics.

- i) **Forest Vegetation** comprises of Moist tropical forest, dry tropical forest and Montane subtropical forest. The dominant taxa are *Dillenia pentagyna*, *Syzygium cumini*, *Mangifera indica*, *Bridelia monoica*, *Fimiana colorata*, *Michelia champaca*, *Macaranga peltata*, *Symplocos racemosus*, *Glochidion lanceolarium*, *Litsea monopetala*, *Callicarpa arborea*, *Toona ciliata*, *Mitragyna parviflora*, *Terminalia bellerica*, *T. tomentosa*, *T. chebula*, *T. alata*, *Diospyros melanoxylon*, *Kydia calycina*. The climbers are *Bauhinia vahlii*, *Combretum roxburghii*, *Millettia extensa*. Littoral forest is represented by *Casuarina equisetifolia*, *Pandanus fascicularis*, *Carissa spinarum*, *Crotalaria verrucosa*, *Ipomoea pes-caprae*, *Hydrophylax maritima*, *Launaea sarmentosa*. Tidal and swamp forest are dominated by *Sonneratia apetala*, *S. caseolaris*, *Avicennia officinalis*, *A. alba*, *Heritiera littoralis*, *Rhizophora mucronata*, *Pongamia pinnata*, *Bruguiera gymnorhiza*.
- ii) **Scrub vegetation** is dominated by *Gardenia gummifera*, *Memecylon umbellatum*, *Woodfordia fruticosa*, *Atlantia monophylla*, *Flacourtia indica*, *Carissa brevispina*, *Phoenix acaulis*, *Jatropha gossypifolia*, *Wendlandia tinctoria*, *Helicteres isora*.
- iii) **Grassland vegetation** consists of *Chrysopogon fulvus*, *Cymbopogon flexuosus*, *Eragrostis coarctata*, *Andropogon ascinodis*, *Capillipedium assimile*, *Arundinella setosa*, *Imperata cylindrica*, *Sporobolus indicus*, *Kyllinga nemoralis*, *Saccharum spontaneum*.
- iv) **Aquatic flora** dominated by the species like *Nelumbo nucifera*, *Euryale ferox*, *Nymphaea nouchalli*, *Neptunia oleracea*, *Nymphoides hydrophylla*, *Pistia stratoites*, *Lemna perpusilla*, *Hydrilla verticillata*, *Vallisneria natans*, *Potamogeton crispus*.

### **Rare, Threatened and Endemics**

The flora of the state is considerably diverse in terms of taxa, habit and growth forms. Some Himalayan elements on several hill tops of the state adds to the uniqueness of the flora. The endemic taxa

reported so far about 29. some of them are *Uvaria uncinata*, *Eriocaulon echinulatum*, *Homonoia intermedia*, *Rhynchosia hainesiana*, *Eusteralis griffithii*, *Oryza jeyporensis*. Some rare and threatened taxa are *Acanthus volubilis*, *Justicia nilgherrensis*, *Dracaena spicata*, *Alphonse madraspatana*, *Rauvolfia serpentina*, *Phoenix paludosa*, *Tylophora rotundifolia*, *Anaphalis lawii*, *Senecio candicans*, *Halophila beccarii*, *Bulbophyllum panigrahanum*, *Hypericum gaitii*, *Aglaia cucullata*, *Acacia donaldii*, *Albizia orissensis*, *Acampe rigida*, *Bulbophyllum careyanium*, *Lasianthus truncatus*, *Smilax lancifolia*, *Gnetum montanum*.

Over 70% of the people are engaged in agriculture. Important crops are rice, pulses, oil seeds, jute, mesta, sugarcane, coconut and turmeric.

### Sanctuaries, National Parks and Biosphere Reserves

1. **Bhitarkanika National Park:** Cuttack Dist.; 145 sq. km.; tropical moist deciduous wetlands; faunal representatives: leopard, leopard cat, spotted deer, sambar, oceanic crocodile, sea turtle, monitor lizard, water bird.
2. **Simlipal National Park:** Mayurbhanj Dist.; 845.70 sq. km.; semievergreen mixed forest, moist deciduous, sal forests; faunal representatives: tiger, leopard, sloth bear, elephant, gaur, spotted deer.
3. **Baisipalli Wildlife Sanctuary:** Nayagarh Dist.; 168.35 sq. km.; mixed deciduous, riverine forest.
4. **Balukhand Konark Wildlife Sanctuary:** Puri Dist.; 71.72 sq. km.; scrub, mangrove, littoral, salt water mixed forest; faunal representatives: spotted deer, black buck.
5. **Chandaka Dampara Wildlife Sanctuary:** Khurda Dist.; 175.79 sq. km.; semievergreen type, sal, moist mixed deciduous type; faunal representatives: leopard, sloth bear, elephant, spotted deer.
6. **Chilka Wildlife Sanctuary:** Ganjam & Puri Dist.; 900 sq. km.; tropical semi-evergreen-wetland; important faunal representatives: black buck, spotted deer, pelican, flamingo, water fowl, waders.

7. **Debrigarh Wildlife Sanctuary:** Sambalpur Dist.; 346.91 sq. km.; tropical dry deciduous forest; important animals: leopard, sambar, gaur.
8. **Hadgarh Wildlife Sanctuary:** Keonjhar Dist.; 191.60 sq. km.; tropical moist deciduous forest; important faunal representatives: spotted deer, elephant, pea fowl.
9. **Karlapat Wildlife Sanctuary:** Kalahandi Dist.; 147.66 sq. km.; tropical dry deciduous forest, scrub vegetation on hills; important animals: tiger, leopard, gaur, spotted deer, sambar.
10. **Khalasuni Wildlife Sanctuary:** Sambalpur Dist.; 116 sq. km.; tropical dry deciduous and sal forest; important animals: sloth bear, gaur, elephant, sambar.
11. **Kotagarh Wildlife Sanctuary:** Phulbani Dist.; 399.50 sq. km.; mixed deciduous forest; important animals: elephant, gaur, bear.
12. **Kuldiha Wildlife Sanctuary:** Balasore Dist.; 272.79 sq. km.; semi-evergreen forest, moist mixed deciduous forest, littoral and swamp forest; important animals: elephant, gaur, spotted deer, sambar.
13. **Lakhari Valley Wildlife Sanctuary:** Gajapati Dist.; 185.87 sq. km.; coastal, sal and mixed deciduous forest.
14. **Nandankanan Wildlife Sanctuary:** Cuttack Dist.; 14.26 sq. km.; mixed deciduous forest; zoo park, captive breeding crocodile project.
15. **Satkosia (North) Wildlife Sanctuary:** Angul Dist.; 318 sq. km.; mixed deciduous, sal and riverine forest; important animals: tiger, leopard, sloth bear, sambar, blue bull, gharial, crocodile.
16. **Satkosia (South) Wildlife Sanctuary:** Angul Dist.; 478.52 sq. km.; mixed deciduous forest; important animal representatives: tiger, antelope, sambar.
17. **Similipal Wildlife Sanctuary:** Mayurbhanj Dist.; 1354 sq. km.; semievergreen mixed forest, moist deciduous forest and sal forest; important animals: tiger, leopard, sloth bear, elephant, gaur, spotted deer.

18. **Sunabeda Wildlife Sanctuary:** Kalahandi Dist.; 500 sq. km.; dry teak and mixed deciduous scrub type; faunal representatives: wild boar, hyaena.
19. **Ushakothi (Badrama) Wildlife Sanctuary:** Sambalpur Dist.; 304.03 sq. km.; sal, mixed deciduous, bamboo brakes; important animals: tiger, leopard, sambar, barking deer, langur.
20. **Similipal Tiger Reserve:** Mayurbhanj Dist.; 2750 sq. km.; semievergreen, moist & dry deciduous, open grassland; faunal representatives: tiger, elephant, leopard, wild dog, hyaena, hill hyaena, large hornbill, pea fowl, red jungle fowl.
21. **Similipal Biosphere Reserve:** Mayurbhanj Dist.; 4374 sq. km.; tropical semievergreen, moist and dry deciduous type; faunal representatives: tiger, elephant, sambar, chital, gaur.
22. **Gahirmatha Wildlife Sanctuary:** 1435 sq. km.

#### Botanic Gardens

1. **State Botanical Garden:** Barang, 72.1 ha.; cultivation and conservation of about 1500 spp.
2. **Regional Plant Resource Centre:** Bhubaneswar, 197.08 ha.; a living repository of about 3250 spp. of native and exotic plants.

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### PONDICHERRY

Pondicherry (capital Pondicherry) encompasses an area of only 492 sq. km. Pondicherry and its surrounding enclaves lie on the drainage basin of the Gingee river. The state is watered by the rivers Arasalar, Natter, Vanjjar, Nular, Mahe Coringer, etc.

The French first established their foothold at Pondicherry in 1673 and handed over the administration to the Govt. of India in November, 1954.

The state is divided with the following districts:

Dist.	Area sq.km.	Population	Dist. Hq.
1. Karaikal	160	170640	Karaikal.
2. Mahe	9	36823	Mahe.
3. Pondicherry	293	735004	Pondicherry.
4. Yanam	30	31362	Yanam.

#### Vegetation and Important Floristic Elements

The vegetation of Pondicherry are of diverse types mainly:

i) The halophytic communities occur in Pondicherry region, Karaikal region, Mahe region and Yanam region and flora of fallow lands and crop fields. Halophytic communities are represented by *Suaeda nudiflora*, *Salicornia brachiata*. Other important species found in this area are *Carapa moluccensis*, *Dalbergia horrida*, *Derris trifoliata*, *Rhizophora apiculata*, *R. mucronata*, *Ceriops tagal*, *C. decandra*, *Bruguiera gymnorrhiza*, *B. cylindrica*, *Lumnitzera racemosa*, *Scyphiphora hydrophyllacea*, *Sonneratia apetala*, *Aegiceras corniculatus*, *Acanthus ilicifolius*, *Avicennia officinalis*, *A. alba*, *Clerodendrum inerme*, *Excoecaria agallocha* and *Sesuvium portulacastrum*.

Principal crops of this state include *Oryza sativa* var. *sativa*, *Cocos nucifera*, *Arachis hypogaea*, *Capsicum frutescens*, *Coriandrum sativum*. Some herbaceous species are *Trianthema portulacastrum*, *Acalypha indica*, *Vigna aconitifolia*, *Ocimum adscendens*, *Synostemon baciforme*, *Cyperus procerus*, *Gomphrena decumbens*, *Cleome gynandra*, *Heliotropium indicum*, *Boerhavia diffusa*, *Cassia occidentalis*, *Croton bonplandianum*. Some of the medicinal species include *Cissampelos pareira* var. *hirsuta*, *Cocculus hirsutus*, *Argemone maxicana*, *Cleome viscosa*, *Hybanthus enneaspermus*, *Polygala chinensis*, *Portulaca oleracea*, *Sida cordifolia*, *Urena lobata*, *Corchorus aestuans*, *Oxalis corniculata*, *Tribulus*

*terrestris*, *Cissus quadrangularis*, *Abrus precatorius*, *Desmodium gangeticum*, *Indigofera linnaei*, *Senna tora*, *Citrullus colocynthis*, *Hedyotis corymbosa*, *Plumbago zeylanica*, *Rauwolfia tetraphylla*, *Vitex negundo*, *Achyranthes aspera*, *Aerva lanata*, *Phyllanthus amarus*, *Gloriosa superba*, *Acorus calamus*.

**Endemism:** The flora of Pondicherry, Karaikal, Yanam and Mahe share considerable similarity with that of South Arcot, Thanjavur, Kozhikode and East Godavari districts. There is no significant endemic or rare species in this region.

**Sancuaries, National Parks and Tiger Reserves** : Nil

The main food crop is rice, coconut, banana, etc. Ninety percent of the cultivated area is irrigated.

### Botanic Garden

Botanical Garden, Pondicherry: 11 ha.; ca 500 spp. are cultivated/conserved.

### General

- |     |   |   |
|-----|---|---|
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| PON | 2 | Dixit, S.C. 1932<br>Some sea grasses from the Pondicherry of Bombay. <i>J. Bombay Nat. Hist. Soc.</i> 36: 284. <i>Holophila ovalis</i> Hook. and <i>H. decipiens</i> Hook. f., notes.   |
| PON | 3 | Gupta, R.K., Dabholkar, M.V. & Tejomurthy, P.S. 1959<br>Some medicinal weeds in and around Pondicherry. <i>J. Bombay Nat. Hist. Soc.</i> 56: 235-249. Enum. 77 spp./34 fam., local & Hindi names, field notes and medicinal uses. |
| PON | 4 | Leschenault De La Tour 1820<br>Memoir sur les cultures des environs de Pondicherry. <i>Mem. Mus. Paris</i> 6: 300-328.  |

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- PON 7 Perfottet, M. 1858  
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- PON 10 Thanikaimoni, G. 1965  
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- PON 11 Chelva, P.T. & Durani, P.K. 1983  
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## PUNJAB

Punjab (capital Chandigarh) lies in the north west of India can broadly be divided into two parts, the sub-Shivalik strip and the Sutlej-Ghaggar plain. The sub-Shivalik strip covers the upper portion of Ropar, Hoshiarpur and Gurudaspur districts, while the Sutlej-Ghaggar plain embraces the other districts of the state. The land is highly fertile as they are formed by the tributaries of the rivers like Indus, Ravi, Sutlej, Beas and Ghaggar.

The state is divided into the following districts:

Dist.	Area sq.km.	Population	Dist. Hq.
1. Amritsar	5075	3074207	Amritsar
2. Bhatinda	3377	1181236	Bhatinda.
3. Faridkot	1472	552466	Faridkot.
4. Fategarh Sahib	1180	539751	Fategarh Sahib.
5. Ferozpur	5865	1744753	Ferozpur.
6. Gurdaspur	3570	2096889	Gurdaspur.
7. Hoshiarpur	3310	1478045	Hoshiarpur.
8. Jalandhar	2658	1953508	Jalandhar.
9. Kapurthala	1646	752287	Kapurthala.
10. Ludhiana	3744	3030352	Ludhiana.
11. Mansa	2174	580397	Mansa.
12. Moga	1672	886313	Moga.
13. Muktsar	2596	776702	Muktsar.
14. Nawan Shehar	1258	586637	Nawan Shehar.
15. Patiala	3627	1839056	Patiala.
16. Rupnagar	2117	1110000	Rupnagar.
17. Sangrur	5021	1998464	Sangrur.

#### Vegetation and Important Floristic Elements

The flora of Punjab is not rich despite its favourable geographical position, climatic and biotic factors. The state can be divided into three floristic subunits viz. Shivalik hills, moisture plain and semi arid region.

- i) **The vegetation of Shivalik Hills:** The area is dominated by tree species like *Shorea robusta*, *Anogeissus latifolia*, *Terminalia tomentosa*, *Bauhinia variegata*, *Phyllanthus emblica*, *Pinus roxburghii*. Dominant thorny or spiny species are *Capparis sepriaria*, *Flacourtia indica*, *Maytenus royleanus*, *Rhamnus persica*, *Mimosa*

*himalayana*, *Catunaregam spinosa*, *Diospyros cordifolia*, *Carissa spinarum*. Some non-thorny species those occur on the hills are *Grewia tenax*, *Azadirachta indica*, *Dodonaea viscosa*, *Moringa oleifera*, *Bauhinia racemosa*, *Woodfordia fruticosa*, *Adhatoda zeylanica*. Some other species are *Cocculus hirsutus*, *Tinospora cordifolia*, *Abrus precatorius*, *Telosma cordata*, *Porana paniculata*.

ii) **Moisture plain country:** This type is dominated by scattered cultivated clumps of *Phoenix sylvestris*, *Mangifera indica*, *Syzygium cumini*. The dominant species in waste places and road sides are *Capparis decidua*, *Ziziphus mauritiana*, *Butea monosperma*, *Ehretia laevis*, *Adhatoda zeylanica*, *Phoenix sylvestris*, etc. Common climbers are *Cissampelos pareira* var. *hirsuta*, *Cocculus hirsutus*, *Tinospora cordifolia*, *Cayratia trifolia*, *Leptadenia reticulata*, *Pergularia daemia*, *Telosma cordata* and *Rivea hypocrateriformis*.

ii) **Semi arid region:** This type is dominated by *Prosopis cineraria*, *Capparis decidua*, *Acacia nilotica*, *Mimosa hamata*, *Zizyphus nummularia*, *Calotropis procera*, *Salvadora oleoides*, etc.

The marshy places consist of *Typha angustata*, *T. elephantina*, *Monochoria vaginalis*, *Sagittaria sagittifolia*, *Bacopa monnieri*, *Veronica anagallis-aquatica* and *Fimbristylis dichotoma*.

### Rare, Threatened and Endemics

Flora of Punjab includes only a few endemic taxa. These are *Argyrolobium album*, *Hibiscus hoshiarpurensis*, *Panicum maximum* ssp. *pubescens* and *Rumex punjabensis*. Some rare and endangered species are *Anogeissus sericea* var. *nummularia*, *Convolvulus microphyllus* var. *deserti*, *Withania coagulans*, *Tecomella undulata*, *Sesamum mulayanum*, *Polygonum monspeliensis* var. *indicus*.

Punjab is primarily an agrarian state, and agriculture occupies the most prominent place in its economy. Punjab's contribution is highest in the procurement of food grains for the Central pool.

### Sanctuaries, Parks and Tiger Reserves

1. **Abohar Wildlife Sanctuary:** Ferozpur Dist.; 186.50 sq. km.; dry deciduous scrub and semi-arid elements; important animals: wolf, desert cat, black buck.

2. **Bir Bunerheri Wildlife Sanctuary:** Patiala Dist.; 6.50 sq. km.; dry deciduous scrub, secondary dry deciduous forest and dry grassland; faunal representatives: wolf, nilgai, sambar, wild boar, hog deer and birds.
3. **Bir Gurdial Pura Wildlife Sanctuary:** Patiala Dist.; 6.20 sq. km.; dry deciduous scrub.
4. **Bir Motibagh Wildlife Sanctuary:** Patiala Dist.; 6.40 sq. km.; dry deciduous scrub; important fauna: wolf, nilgai, sambar, rhesus monkey, wild boar.
5. **Harike Lake Wildlife Sanctuary:** Amritsar Dist.: 86 sq. km.; dry riverine forest and swamps and marshes; this sanctuary is the house of many resident and migratory species of aquatic birds, reptiles and fishes.
6. **Takhani Rahampur Wildlife Sanctuary:** 3.82 sq. km.
7. **Bir Aishwan Wildlife Sanctuary:** 4.67 sq. km.
8. **Bir Bhadson Wildlife Sanctuary:** 10.23 sq. km.
9. **Bir Dosanjh Wildlife Sanctuary:** 5.18 sq. km.
10. **Bir Mehaswala Wildlife Sanctuary:** 1.23 sq. km.

### Botanic Garden

**Ramgarh:** Amritsar: 44.00 ha.

### General

- |     |   |  |
|-----|---|--|
| PNJ | 1 | Aitchison, J. E. T. 1869<br><i>A Catalogue of the Plants of the Punjab and Sindh.</i><br>London.   |
| PNJ | 2 | Ali, S.I. 1958<br><i>Indigofera himalayensis</i> Ali, in <i>Bot. Notiser</i> 3 (fasc. 3): 574.   |
| PNJ | 3 | Bhandari, M.M. & Bhansali, A.K. 1984<br>Revision of Rhamnaceae of India. 2- new species in genus <i>Rhamnus</i> Linn. <i>J. Econ. Tax. Bot.</i> 5(4): 911-914, |



fig. 2, two new species, *Rhamnus purandharensis* Purandhar; *R. collettii* – Punjab.

- PNJ 4     Bhattacharyya, U.C., Bir, S.S. & Singh, Charanpreet (1991) 1994  
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**RAJASTHAN**

Rajasthan (capital Jaipur) is one of the border states of India, sharing India's frontier with Pakistan on the west and north-west. Punjab bounds it on the north, Haryana and Uttar Pradesh on the north-east and east, Madhya Pradesh on the south and south-east and Gujarat on the south-west. The state of Rajasthan is an amalgam mainly made up of the old princely states of Rajasthan. The state possesses areas of great contrast in respect of climate, soil, vegetation, mineral resources etc. The state may be divided into 6 regions. (1) Western arid region (2) semi-arid region (3) South-eastern region (4) Chambal ravines (5) Aravalli region and (6) Eastern region. The important rivers of the state are the Chambal, Ban Ganga, Mahi and their tributaries.

The state is divided into the following districts:

Dist.	Area sq.km.	Population	Dist. Hq.
1. Ajmer	8481	2180526	Ajmer.
2. Alwar	8380	2990862	Alwar.
3. Banswara	5037	1500420	Banswara.
4. Barmer	28387	1963758	Barmer.
5. Bharatpur	5066	2098323	Bharatpur.
6. Bhilwara	10455	2009516	Bhilwara.
7. Bikaner	27244	1673562	Bikaner.
8. Bundi	5550	961269	Bundi.
9. Chittorgarh	10856	1802656	Chittorgarh.
10. Churu	16830	1922908	Churu.
11. Dungarpur	3770	1107037	Dungarpur.
12. Ganganagar	20634	1788487	Ganganagar.
13. Jaipur	14068	5252358	Jaipur.
14. Jaisalmer	38401	507999	Jaisalmer.
15. Jalore	10,640	1448486	Jalore.
16. Jhalawar	6,928	1180342	Jhalawar.
17. Jhunjhunu	5,928	1913099	Jhunjhunu.
18. Jodhpur	22,850	2880777	Jodhpur.
19. Kota	12,436	1568580	Kota.
20. Nagaur	17,718	2773894	Nagaur.
21. Pali	12,387	1819201	Pali.
22. S. Madhopur	10,527	1116031	S. Madhopur.

Dist.	Area sq.km.	Population	Dist. Hq.
23 Sikar	7,732	2287229	Sikar.
24. Sirohi	5,136	850756	Sirohi.
25. Tonk	7,194	1211343	Tonk.
26. Udaipur	17,279	2632210	Udaipur.
27. Dholpur	3,034	982815	Dholpur.
28. Baran	6,955	1022568	Baran.
29. Dausa	2,950	1316790	Dausa.
30. Rajsamand	4,884	986269	Rajsamand.
31. Hanumangarh	12,690	1517390	Hanumangarh.
32. Karoli	5,014	1205631	Karoli.

### Vegetation and Important Floristic Elements

The vegetation of the state can be divided into three categories namely (i) the western Sandy Desert (ii) the Aravalli Range (iii) the area in the east of Aravalli.

- i) **The Western Sandy Desert:** The vegetation is mainly of stunted, thorny or prickly shrubs and draught resistant perennial herbs. Trees are few and scattered. The vegetation of Thar desert is edaphic controlled and sand dunes and sandy plains form the most spectacular landscape. The important shrubs and trees are: *Calligonum polygonoides*, *Calotropis procera*, *Capparis decidua*, *Clerodendrum phlomidis*, *Haloxylon salicornicum*, *Lycium barbarum*, *Acacia senegal*, *Prosopis cineraria*, *Salvadora oleoides*, *Aerva javanica*, *Citrulus colocynthis*, *Crotalaria burhia*, *Farsetia hamiltonii*, *Indigofera argentea*, *I. cordifolia*, *Melhania denhami*, *Tephrosia falciformis*, *Barleria acanthoides*, *B. prionites*, *Corbichonia decumbens*, *Lindenbergia indica*. The common tree species in gravelly habitats include *Prosopis cineraria*, *Salvadora oleoides*, *Capparis decidua*, *Maytenus emarginatus*, etc. Common grasses which bind the sands are *Cymbopogon jwarancusa*, *Dactyloctenium aegypticum*, *D. scindicum*, *Lasiurus indicus*, *Latipes senegalensis*, *Panicum antidotale*, etc. The important species on saline habitats include *Chenopodium album*, *Cressa cretica*, *Haloxylon salicornicum*, *Limeum indicum*, *Peganum harmala*, *Salsola baryosma*, *Suaeda fruticosa*, *Zygophyllum simplex*, etc.

- ii) **The Aravalli Range:** The vegetation is mainly scrubby merges to some extent deciduous type. The components include *Anogeissus pendula*, *Acacia leucophloea*, *Bauhinia racemosa*, *Boswellia serrata*, *Commiphora wightii*, *Dichrostachys cinerea*, *Mimosa hamata*, *Euphorbia nivulea*, *Grewia tenax*, *Rhus mysorensis*, etc. Mt. Abu (172 m) is composed mainly from mixed deciduous to subtropical evergreen type. The species include *Aegle marmelos*, *Butea monosperma*, *Cassia fistula*, *Carvia callosa*, *Crateva nurvala*, *Flacourtia indica*, *Jasminum humile*, *Kydia calycina*, *Mallotus philippensis*, *Rosa brunoni*, *Syzygium cumini*, *Trema orientalis*, etc.
- iii) **The area in the east of Aravalli:** This area receives enough rainfall, as such constitutes a number of permanent and temporary lakes. The Sambhar lake and Pichola lake are of international importance. The vegetation include *Acacia leucophloea*, *A. nilotica* ssp. *indica*, *Kirganelia reticulata*, *Meytenus emarginatus*, *Salvadora oleoides*, *Euphorbia nerifolia*, *Terminalia bellerica*, *Commiphora wightii*, *Tecomella undulata*, *Colebrookea oppositifolia*, etc. The weed species include *Chenopodium album*, *Euphorbia dracunculoides*, *Fumaria indica*, *Lepidium sativum*, *Melilotus alba*, *Oxalis corniculata*, etc. A number of Himalayan elements are also noticed, such as *Antirrhinum orontium*, *Arenaria serpyllifolia*, *Astragalus tribuloides*, *Astrocotyle hispida*, *Hypericum procumbens*, *Kochia indica*, *Malcolmia africana*, etc.

### Rare, Threatened and Endemics

Some of the rare species are *Ammannia desertorum*, *Anogeissus sericea* var. *nummularia*, *Euphorbia jodhpurensis*, *Melhania futteyporensis* var. *major*, *M. mangifolia*, *Sida tiagii*, *Tribulus rajasthanensis*, etc. Endemic species are *Abutilon bidentatum* var. *major*, *A. fruticosum* var. *chrysocarpa*, *Barleria prionitis* var. *dicantha*, *Cenchrus rajasthanensis*, *Convolvulus blatteri*, *Dicliptera abuensis*, *Farsetia macrantha*, *Lindernia bracteoides*, *Merremia rajasthanensis*, *Oldenlandia clausa*, *Pulicaria rajputanae*, *Strobilanthes hallbergii*, etc.

The vegetation of Rajasthan though floristically not so diversified yet a good percentage of wild flora provides food, fodder, fibre, medicines, alcohol, gum and resin, dye, oil, etc. to the local people and some of them have commercial potentiality.

### Santuaries, National Parks and Reserves

1. **Desert National Park:** Jaisalmer and Barmer Dist.; 3162 sq. km.; tropical desert thorn and scrub; faunal representatives:

black buck, chinkara, great Indian bustard, sand grouse, partridge.

2. **Durrah Wildlife Sanctuary:** Kota Dist.; 265.80 sq. km.; tropical dry deciduous; important animals: tiger, leopard, sambar, spotted deer, partridges.
3. **Jaisamand Wildlife Sanctuary:** Udaipur Dist.; 52 sq. km.; tropical dry deciduous thorn; important faunal representatives: leopard, spotted deer, blue bull, chinkara, partridges.
4. **Jawaharsagar Wildlife Sanctuary:** Kota Dist.; 100 sq. km.; tropical dry deciduous; important animals: chinkara, crocodile.
5. **Kumbhalgarh-Ranakpur Wildlife Sanctuary:** Udaipur, Jodhpur Dist.; 578.25 sq. km.; tropical dry deciduous; faunal representatives: leopard, sambar, blue bull, jungle fowl, spur fowl.
6. **Mount Abu Wildlife Sanctuary:** Sirohi Dist.; 288.84 sq. km.; tropical dry deciduous; faunal representatives: sambar, blue bull, jungle fowl, partridges.
7. **Sariska Wildlife Sanctuary:** Alwar Dist.; 492 sq. km.; tropical dry deciduous; important animals: tiger, leopard, hyaena, sambar, blue bull, four horned antelope, chinkara, partridges.
8. **Sitamata Wildlife Sanctuary:** Chittorgarh Dist.; 422.94 sq. km.; tropical dry deciduous; faunal representatives: black buck, chinkara, partridges.
9. **Tal Chapper Wildlife Sanctuary:** Churu Dist.; 7.90 sq. km.; tropical dry deciduous; important animal: black buck.
10. **Van Vihar Wildlife Sanctuary:** Dholpur Dist.; 59.23 sq. km.; tropical dry deciduous; important animal: tiger, leopard, sambar, blue bull, partridges.
11. **Keoladeo Ghana National Park:** Bharatpur Dist.; 28.73 sq. km.; tropical dry deciduous scrub (wetland) 29 sq. km.; important faunal representatives: sambar, spotted deer, black buck, water birds, cranes, storks.

12. **Ranthambore National Park:** Sawaimadhopur Dist.; Dist. 392 sq. km.; tropical dry deciduous thorn; important animals: tiger, leopard, hyaena, sambar, spotted deer, bear, partridges.
13. **Ranthambore Tiger Reserve:** Sawaimadhopur Dist.; 392.30 sq. km.; tropical dry deciduous; faunal representatives: tiger, leopard, sloth bear, wolves, striped hyaena, palm-civets, jungle cats, sambar, spotted deer, blue bull, chinkara, black buck.
14. **Sariska Tiger Reserve:** Alwar Dist.; 1145 sq. km.; tropical dry deciduous thorn forest; faunal representatives: tiger, jungle cat, caracal, leopard, palm civet, Indian fox, striped hyaena, panther, nilgai, wild boar, chousinga, chinkara, sambar, chital, porcupine, muskart, langur, macaque.
15. **Bandh Baratha Wildlife Sanctuary:** Alwar Dist.; 192.76 sq. km.; tropical dry deciduous-thorn.
16. **Bassi Wildlife Sanctuary:** Jaipur Dist.; 152.90 sq. km.
17. **Bhensrodgarh Wildlife Sanctuary:** Chittorgarh Dist.; 229.14 sq. km.
18. **Jamwa Ramgarh Wildlife Sanctuary:** Jaipur Dist.; 300 sq. km.
19. **Kela Devi Wildlife Sanctuary:** Karouli Dist.; 676.38 sq. km.
20. **Kesarbagh Wildlife Sanctuary:** 14.76 sq. km.
21. **Nahargarh Wildlife Sanctuary:** Jaipur Dist.; 50 sq. km.
22. **National Chambal Wildlife Sanctuary:** Kota Dist.; 280 sq. km.
23. **Phulwari ki Nal Wildlife Sanctuary:** 511.41 sq. km.
24. **Ramgarh Vishdhari Wildlife Sanctuary:** Bundi Dist.; 301 sq. km.
25. **Ramsagar Wildlife Sanctuary:** 34.40 sq. km.
26. **Sujargarh Wildlife Sanctuary:** 5.19 sq. km.

27. **Sawai Man Singh Wildlife Sanctuary:** Jaipur Dist.; 103.25 sq. km.
28. **Shergarh Wildlife Sanctuary:** Alwar Dist.; 98.71 sq. km.
29. **Todgarh Rawali Wildlife Sanctuary:** 495.27 sq. km.
30. **Sariska National Park:** Alwar Dist.; 273 sq. km.
31. **Bandhawgarh Tiger Reserve:** 1162 sq. km.

#### **Botanic Gardens**

1. **Botanic Garden, Central Arid Zone Research Institute:** Jodhpur, 22.4 ha.
2. **Mandora Garden:** Jodhpur, 12.5 ha.
3. **Umaid Garden:** Jodhpur, 15 ha.

#### **General**

- |     |   |  |
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## SIKKIM

Sikkim (capital Gangtok), the 22<sup>nd</sup> state of the Indian Union, is a small mountain State in the eastern Himalayas. The state is bounded by Tibet on the north, Nepal on the West and Bhutan on the east and West Bengal lies to its south. About one third of the land is covered with dense forests. Some of finest forests lie in the northern-most areas at Lachen and Lachung. Here the mountains rise to elevation of 7000 meters and more. River Tista and Rangeet along with its tributaries drain the state. The topography is quite varied. The elevation ranges from *ca* 250 - 8598 m. Mount Khanchendzonga, the World's third highest mountain (8598 m) lies in the state and is sacred to the Sikkimese.

The state is divided into the following districts:

Dist.	Area sq.km.	Population	Dist. Hq.
1. East	954	244790	Gangtok.
2. North	4226	41023	Mangan.
3. South	750	131506	Namdhi.
4. West	1166	123174	Gyalshing.

### Vegetation and Important Floristic Elements

With its unique geographic position, varied topography, variation in temperature and high annual precipitation, the state can be divided into four distinct botanical zones viz. tropical, subtropical, temperate and alpine. The foot hills of Sikkim are covered with forests consisting of the species of *Shorea*, *Adina*, *Dalbergia*, *Dillenia*, *Ficus*, *Bauhinia*, *Lagerstroemia*, *Terminalia*, etc. Some of the important elements of tropical forests (up to 900 m) are: *Alstonia scholaris*, *Bombax ceiba*, *Duabanga grandiflora*, *Eugenia kurzii*, *Mangifera sylvatica*, *Pterospermum acerifolium*, *Shorea robusta*, *Terminalia* spp., *Barleria cristata*, *Buddleja asiatica*, *Coffea bengalensis*, *Pavetta indica*, etc. The elements of subtropical forests (from 800-1500 m) is represented by: *Adina cordifolia*, *Alangium chinensis*, *Bischofia javanica*, *Callicarpa arborea*, *Castanopsis indica*, *Eurya cerasifolia*, *Gynocardia odorata*, *Helicia nilagirica*, *Macaranga denticulata*, *Magnolia hodgsonii*, *Saurauia nepalensis*, *Mussaenda roxburghii*, *Melastoma malabathricum*, etc. Temperate elements are found between 1500-3500 m altitude. The common elements are: *Acer campbelli*, *Betula utilis*, *Exbucklandia populnea*, *Ilex dipyrrena*,

*Juglans regia*, *Populus ciliata*, *Malus sikkimensis*, *Quercus lineata*, *Q. lanata*, *Q. lamellosa*, *Q. oxydon*, *Q. glauca*, *Rubus macilentus*, *Rosa serica*, *Cardamine impatiens*, *Galium mollugo*, *Panax pseudo-ginseng*, *Jasminum dispersum*, etc. Coniferous forest includes *Abies densa*, *Larix griffithiana*, *Picea spinulosa*, *Tsuga dumosa*, *Juniperus* sp., *Taxus wallichiana*. The Alpine forest elements are the species of *Rhododendron*, *Berberis*, *Gaultheria*, *Salix*, *Vaccinium*, *Aconitum*, *Anaphalis*, *Astragalus*, *Corydalis*, *Meconopsis*, *Polygonatum*, *Primula*, *Rhodiola*, *Sedum*, *Rheum*, etc.

### Rare, Threatened and Endemics

The flora of Sikkim is fascinating because of its species richness and diverse community structure. But at present the flora is under great pressure due to various anthropogenic causes like advancement and construction of many developmental projects, tree-felling for preparation and extension of agricultural fields, intensive grazing. These activities have destroyed many rich diversity centers as well as initiated several new land slide zones due to which a large number of precious plants have become rare or are under critical endanger state. These includes *Acer hookeri* var. *majus*, *Pimpinella tongloensis*, *Lactuca cooperi*, *Coelogyne treutleri*, *Cymbidium hookerianum*, *Cypripedium himalaicum*, *Aconitum ferox*, *Ceropegia hookeri*, *Calanthe alpina*, *Livistonia jenkisiana*, *Begonia rupicola*, *Vanda spectabilis*, *Oreopteris elwesii*, etc.

It is estimated that ca 2 percent of species are endemic in the state. These include: *Anaphalis caveri*, *Angelica nubigena*, *Blumea sikkimensis*, *Cacalia chloa*, *Catabrosa aquatica*, *Cyathopus sikkimensis*, *Carex kingiana*, *Codonopsis affinis*, *Crepis atropappa*, *Juncus sikkimensis*, *Mahonia sikkimensis*, *Rhododendron sikkimensis*, etc.

### Industry and Economy

The State's economy is basically agrarian. The principal crops of the state are paddy, maize, millet, wheat and barley. The main cash crops are orange, cardamon. The State has the largest area and highest production of large cardamon in India. Other important crops are potato, apple and buck-wheat. Tea estates are at Temi and Koozing extents over an area of 400 acres. Tea is exported to USSR and Germany. The main industrial units are the food preservation factory, Tanneries, Distillaries, etc.

### Sanctuaries, National Parks and Biosphere Reserves

1. **Khangchendzonga National Park:** East Dist., 1784 sq. km.; Himalayan subalpine moist and dry scrub; faunal representatives: snow leopard, red panda, tibetian wild ass, blue sheep, serow, goral, takin, musk deer.
2. **Kyongnosla Alpine Wildlife Sanctuary:** 31 sq. km.; alpine forest; faunal representatives: snow leopard, leopard cat, musk deer.
3. **Barsey (*Rhododendron*) Wildlife Sanctuary:** 104 sq. km.
4. **Fambongla Wildlife Sanctuary:** 104 sq. km.
5. **Maenam Wildlife sanctuary:** 35.34 sq. km.
6. **Singba (*Rhododendron*) Wildlife Sanctuary:** 43 sq. km.
7. **Kanchenjunga Biosphere Reserve:** North and West Dist.; 2619.92 sq. km.; subtropical temperate and alpine forest.

### Botanic Gardens and Sacred Groves

1. **Experimental Botanic Garden, Botanical Survey of India, Gangtok:** Collection of orchids and Rhododendrons. Rare and interesting species include: *Arisaema attenuatum*, *Calanthe densiflora*, *C. spinosa*, *Dendrobium aphyllum*, *D. densiflorum*, *D. nobile*, *Macaranga denticulata*, *Lycopodium phlegmaria*, *Schima wallichii*, etc.
2. **Jawaharlal Nehru Botanic Garden, Rumtek:** 76 ha.; collection of orchids, Rhododendrons, Gymnosperm and ferns.
3. **Sacred Groves:** These are playing important role in *in-situ* conservation of indigenous flora and fauna. Some of them are: Khetchipuri sacred grove in west district, Mt. Mainam, Rabong; Tendong sacred grove in South district; Churten sacred grove in East district and Kabi sacred grove in North district. *Cyathea spinulosa* and *C. gigantean*, the tree-ferns are well protected in Churten sacred grove. *Camellia kissi*- wild tea is common in the protected woods around Khetchipheri lake. Kabi sacred grove is the suitable habitat of 'Red Panda' (*Ailurus fulgens*)-

the state animal. *Dendrobium nobile*, the state flower of Sikkim, is also common at Kabi sacred grove.

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## TAMIL NADU

Tamil Nadu (capital Chennai), is situated on the south eastern side of the Indian Peninsula and can be broadly divided into two natural divisions i) the Eastern Coastal Plain, and ii) the hilly region along the north and the west. The coastal plain is subdivided into a) the Coromandal Plain comprising the districts of Chengai Anna, South Arcot and North Arcot Ambedkar, b) the Alluvial Plain of the Kaveri delta, and c) the dry Southern Plains. The rivers of the state flow eastward from the western ghats and are entirely rainfed. The perennial rivers are Palar, Cheyyar, Ponnaiyar, Kaveri, Meyar, Bhavani, Amaravati, Vaigai, Chittar and Tamaraparni. The Kaveri is the longest river of the state covering 760 km.

The state is divided into the following districts:

Dist.	Area sq.km.	Population	Dist. Hq.
1. Tiruvallur	4488	2738866	Tiruvallur.
2. Coimbatore	10873	422407	Coimbatore.
3. Dharmapuri	9643	2833252	Dharmapuri.
4. Kanyakumari	1684	1669763	Nagercoil.
5. Chennai	128	4216268	Chennai.
6. Madurai	3314	2562279	Madurai.
7. Dindigul	5836	1918960	Dindigul.
8. Nagapattinam	4614	1487055	Nagapattinam.
9. Nilgiri	2549	764826	Udagamandalam (Ooty).
10. Vellore	12265	3482970	Vellore.
11. Erode	4800	2574067	Erode.
12. Pudukkottai	4137	1452269	Pudukkottai.
13. Ramanathapuram	4217	1183321	Ramanathapuram.
14. Virudhunagar	4175	1751548	Virudhunagar.
15. Sivaganga	4186	1150753	Sivaganga.
16. Salem	5444	2992754	Salem.
17. Cuddalore	3564	2280530	Cuddalore.
18. Thanjavur	3348	2205375	Thanjavur.
19. Tirunelveli	6780	2801194	Tirunelveli.
20. Thiruvannamalai	6355	2181853	Thiruvannamalai
21. Tuticorin	4649	1565743	Tuticorin.
22. Viluppuram	6896	2943917	Viluppuram.
23. Karur	2959	933791	Karur.

Dist.	Area sq.km.	Population	Dist. Hq.
24. Perambaloor		486971	Perambaloor.
25. Kanchipuram	4433	2869920	Kanchipuram.
26. Namakkal	3205	1495661	Namakkal.
27. Thiruvarur		1165213	Thiruvarur.
28. Theni	3244	1094724	Theni.
29. Tiruchirapalli	8249	2388831	Tiruchirapalli.
30. Arialur		694058	

### Vegetation and Important Floristic Elements

The plant wealth and diversity of vegetation of Tamil Nadu is due to the immense variation of climate, altitude and edaphic factors. The vegetation of the state can be broadly divided into four categories i) Coastal Vegetation, ii) Island Vegetation, iii) Vegetation of the interior Plains, and iv) Vegetation of Hills and Mountains.

1. **Coastal Vegetation:** The entire coast of Tamil Nadu stretches from the Pulicat lake in the north to the southern point Kanniyakumari and on the west coast from Kanniyakumari to Poovar. There are also some tidal creeks and flats at the riverine mouths of which the Vellar and Cauvery complex are significant. There are also Coral reefs at Mandapam, Tuticorin and Kanniyakumari. The coastal vegetation can be divided into Strand type, Estuarine type and Coastal tropical dry evergreen forest type. Some important elements are *Gisekia pharnaceoides*, *Glinus oppositifolius*, *Ipomoea pes-caprea*, *Rothia indica*, *Sesuvium portulacastrum*, *Tribulus terrestris*, *Alternanthera pungens*, *Atriplex repens*, *Blumea obliqua*, *Chloris barbata*, *Genioporum tenuiflorum*, *Glinus oppositifolius*, *Heliotropium curassavicum*, *Mollugo nudicaulis*, *Caesalpinia bonduc*, *Carissa spinarum*, *Cymodocea rotundata*, *Enhalus acoroides*, *Halophila ovalis*, etc. Among the tidal mangroves important representatives are *Aegiceros corniculatum*, *Avicennia marina*, *A. officinalis*, *Ceriops decandra*, *Rhizophora apiculata*, *R. mucronata*, etc. Coastal tropical dry evergreen forest elements include *Atalantia monophylla*, *Breynia vitisidaea*, *Calophyllum inophyllum*, *Canthium parviflorum*, *Diospyros ferraea*, *Ehretia aspera*, *Manilkara hexandra*, *Mimusops elengi*, *Murraya paniculata*, *Sapindus emarginatus*, etc.

2. **Island Vegetation:** The islands of Rameswaram, Krusadai, Shingle, Hare and Church exhibit strand flora. The important elements are *Pemphs acidula* (indicator of coral rocks), *Cordia subcordata*, *Halopyrum mucronatum*, *Ipomoea pes-caprea*, *Polycarpaea spicata*, *Spinifex littoreus*, *Suriana maritima*, *Apluda* sp., *Arthrocnemum* sp., *Atriplex* sp., *Avicennia* sp., *Fimbristylis* sp., *Salicornia* sp., *Suaeda* sp.
3. **Vegetation of the Interior Plains:** The areas include the plains at the foot or the undulating slopes of hills and hillocks in the rocky area bordering coastal plain. The vegetation is of the scrub jungle type. The important elements are *Acacia chundra*, *A. horridula*, *Albizia amara*, *Chloroxylon swietenia*, *Dalbergia spinosa*, *Limonia acidissima*, *Strychnos nux-vomica*, *S. potatorum*, *Cadaba fruticosa*, *Capparis zeylanica*, *Carissa congesta*, *Cassia auriculata*, *Pisonia aculeate*, *Toddalia asiatica*, etc. The climber species are *Cardiospermum canescens*, *Ceropegia candelabrum*, *C. juncea*, *C. quadrangularis*, *Dioscorea* spp., *Leptadenia reticulata*, *Ventilago madraspatana*, etc.
4. **Vegetation of Hills and Mountains:** These include dry deciduous forest, south Indian moist deciduous forest, semi-evergreen forest, wet evergreen forest and shoals. The important elements are *Albizia amara*, *Anogeissus latifolia*, *Butea monosperma*, *Chloroxylon swietenia*, *Pterocarpus marsupium*, *Shorea roxburghii*, *Terminalia* spp., *Dodonaea viscosa*, *Securinega virosa*, *Combretum albidum*, *Cycas circinalis*, *Bulbostylis* sp., *Cleome* sp., *Digitaria* sp., *Heracleum* sp., *Themeda* sp., *Bombax ceiba*, *Dillenia pentagyna*, *Tectona grandis*, *Helicteres isora*, *Dalbergia latifolia*, *Bischofia* sp., *Glycosmis* sp., *Lasianthus* sp., *Aglaia eleagnoides*, *Atrocarpus* sp., *Calophyllum* sp., *Canarium strictum*, *Persea macrantha*, etc. Shola forest elements are *Ilex denticulata*, *I. wightiana*, *Michelia nilagirica*, *Vaccinium leschenaultii*, *Viburnum punctatum*, etc.

### Rare, Threatened and Endemics

In this state, complex hill system (Southern western ghats) with several peaks comprising Nilgiris, Anamalais, Cardamon hills, Pulneys, Agastyamalai and Kalakkad hills provide diverse habitats and niches of endemic species. Some of the endemic genera of western ghats including Nilgiris are *Ascopholis*, *Baeolepis*, *Diplocentrum*, *Indobanalia*, *Jerdonia*, *Nilgirianthus*, *Phlebophyllum*, *Plencaulus*, etc. The genus *Baeolepis* is strictly endemic to Nilgiris.

Some representative endemic species are *Clematis theobromina*, *Berberis nilghiriensis*, *B. wightiana*, *Mahonia leschenaultii*, *Homalium jainii*, *Pittosporum anamallayense* var. *fischeri*, *Elaeocarpus blascoi*, *Tribulus cistoides*, *Biophytum insignis*, *B. polyphyllum*, *Impatiens chandrasekharanii*, *I. crenata*, *I. nilgirica*, *I. wightiana*, *Paramignya beddomei*, *Ilex gardneriana*, *Microtropis ovalifolia*, *Salacia beddomei*, *Sageretia coimbatorensis*, *Nothopegia aureo-fulva*, *Crotalaria barbata*, *C. shevaroyensis*, *Dalbergia tinneveliense*, *Indigofera pedicellata*, *Acacia bolei*, *Albizia lathamii*, *Syzygium tamilnadensis*.

### Industry and Economy

Agriculture is the mainstay of Tamil Nadu's economy. Paddy is the principal cereal followed by Sorgham. Among the millets grown are *Eleusine coracana*, *Panicum miliaceum*, *P. miliare*, *Pennisetum typhoides*, *Setaria italica*. *Zea mays* is also sometimes grown. Wheat is cultivated in a scattered way. Pulses are grown as secondary crop. Among the cash crops groundnut, sugarcane and cotton are important. Tea and coffee are the principal plantations grown on the hills (above 1500 m) of Coimbatore, Madurai, Nilgiri and Salem districts. Cardamon and rubber are grown on a small scale. Cocoa and grapes are also cultivated. Major forest products are timber, sandal wood, bamboos, cane, resin, etc. Timber is mainly of teak, ebony, rose wood and red wood. Minor forest products are honey, bees wax, barks, soap nuts (*Sapindus emarginatus*), gall nuts, etc. Among the important industries are textile, cement, caustic soda, nitrogenous fertilizers, sugar, bicycle and calcium carbide. 60% of safety matches and 77% of finished leather of India are being produced by this state.

### Sanctuaries, National Park and Biosphere Reserves

1. **The Nilgiri Biosphere Reserve:** Tamil Nadu, Karnataka and Kerala; 5520 sq. km.; dry scrub, dry and moist deciduous, semievergreen and wet evergreen forests, evergreen shoals.
2. **Gulf of Mannar Biosphere Reserve:** A marine province between the mainland of India and Sri Lanka consisting of about 20 odd isles which extend from Pamban area to Tuticorin; 10,500 sq. km.; mangrove forest, sea grasses, marine wild life.
3. **Dr. J. Jayalalitha (Mudumalai) National Park:** Nilgiri Dist.; 103.24 sq. km.; dry deciduous to moist deciduous.

4. **Guindy National Park:** Chennai; 2.82 sq. km.; live snake collection, spotted deer, black buck, crocodile.
5. **Indira Gandhi (Annamalai) National Park:** Coimbatore Dist.; 117.11 sq. km.; dry deciduous to moist deciduous; faunal elements: chital, elephant, gaur, panther, sambar, sloth, bear, tiger, wild dog.
6. **Dr. J. Jayalalitha (Mudumalai) Wildlife Sanctuary:** Nilgiri Dist.; 217.76 sq. km.; tropical moist deciduous; important animals: leopard, elephant, gaur, sambar, spotted deer.
7. **Indira Gandhi (Annamalai) Wildlife Sanctuary:** Coimbatore Dist.; 919.95 sq. km.; tropical wet evergreen; important animals: tiger, panther, sloth bear, elephant, gaur, tahr.
8. **Kalakad Wildlife Sanctuary:** Tirunelveli Dist.; 213.58 sq. km.; tropical moist deciduous; known for its sizeable population of lion-tailed macaque.
9. **Mundanthurai Kalakad Wildlife Sanctuary:** Tirunelveli Dist.; 567.38 sq. km.; tropical wet-evergreen; important animals: tiger, blue bull, lion-tailed macaque.
10. **Point Calimere Wildlife Sanctuary (e):** Thanjavur; 17.26 sq. km.; tropical littoral and swamp; important faunal representative: black buck, flamingo, water fowl.
11. **Pulicat Lake Wildlife Sanctuary:** Pulicate; 153.67 sq. km.; bird Sanctuary.
12. **Vedanthangal Wildlife Sanctuary:** Chengalpattu Dist.; 0.30 sq. km.; tropical dry deciduous swamp; faunal representative: water birds, waders (resident and migratory).
13. **Vettangudi Wildlife Sanctuary:** Ramanathapuram Dist.; 0.38 sq. km.; tropical dry deciduous-swamp; bird sanctuary.
14. **Mukurthi National Park:** Nilgiri, 78.46 sq. km.
15. **Chitrangudi Wildlife Sanctuary:** 0.47 sq. km.
16. **Kanjirankulam Wildlife Sanctuary:** 1.04 sq. km.

17. **Karaivetti Wildlife Sanctuary:** 4.54 sq. km.
18. **Karikilli Wildlife Sanctuary:** 0.61 sq. km.
19. **Kilasel Vanur-Melaselvanur Wildlife Sanctuary:** 5.93 sq. km.
20. **Kuthankulam-Kandankulam Wildlife Sanctuary:** 1.29 sq. km.
21. **Mudumalai Wildlife Sanctuary:** 217.76 sq. km.
22. **Srivilliputhur (Giant Squirrel) Wildlife Sanctuary:** Kamarajar, 485.20 sq. km.; grizzled squirrel sanctuary.
23. **Udayamarthadapuram Wildlife Santuary:** 0.45 sq. km.
24. **Vaduvloor Wildlife Sanctuary:** 1.28 sq. km.
25. **Vellanadu Wildlife Sanctuary:** 16.41 sq. km.
26. **Vellode Wildlife Sanctuary:** 0.77 sq. km.
27. **Kalaka-Mundanthurai Tiger Reserve:** Tirunelveli Dist.: 800 sq. km.; tropical moist deciduous.

#### **Botanic Gardens**

1. **National Orchidarium and Experimental Botanic Garden:** Botanical Survey of India, Southern Circle, Yercaud: 18.4 ha.; semi-evergreen subtropical hill forest; ca 210 species of orchids.
2. **Government Botanic Garden, Ootacamund (Udhagamandalam):** 22 ha.; ca 1050 spp. including gymnosperms (12 spp.) and rare (300 cultivars) plants.
3. **Sim's Park, Coonoor:** 12.1 ha.
4. **The Bryant Park, Kodaikanal:** 8.8 ha.

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## TRIPURA

Tripura (capital Agartala) is the second smallest state of India surrounded by Bangladesh to the west, south and north, Barak valley of Assam to the north-east and Mizoram to the east. On January 21<sup>st</sup> 1972 Tripura was inducted as a state from the status of Union Territory.

The state is divided into the following districts:

Dist.	Area sq.km.	Population	Dist. Hq.
1. North Tripura	2820.63	590655	Kailasahar.
2. West Tripura	2996.82	1530531	Agartala.
3. South Tripura	2151.77	762565	Udaipur.
4. Dhalai	2522.47	307417	Ambasa.

### Vegetation and Important Floristic Elements:

The varied vegetation of the state is the resultant effect of favourable climate with annual rainfall of about 2100 mm, edaphic, physiographic and biotic factors. Jhumming or shifting cultivation is responsible for the ecological changes of the original vegetation of the state. Vegetation of the state is classified under climatic types, seral types and subsidiary edaphic types. The climatic types are represented by evergreen forest and moist deciduous forest comprising (a) Sal forest, (b) Moist deciduous mixed forest. The seral types are represented by swamp vegetation. Subsidiary edaphic types comprise Bamboo forest, Cane brakes, Garjan forest, Savannah and Grassland vegetation (Deb, 1999).

- i) **Evergreen forest:** Major part of the state is occupied by evergreen forest. However, with increasing biotic influence, the forests are depleted to a very large extent, and are now scattered as small patches in the steep slopes, rocky and steady river banks, and localities not suitable for cultivation. Some important elements are *Amoora wallichii*, *Artocarpus chaplasi*, *Dipterocarpus turbinatus*, *Syzygium polypetalum*, *Eugenia praecox*, *Schima wallichii*, *Knema angustifolia*, *K. malayana*, *Horsfieldia amygdalina*, *Acrocarpus fraxinifolius*, *Michelia champaca*, *Cinnamomum bejolghota*, *C. glanduliferum*, *Turpinia pomifera*, *Neolitsea zeylanica*, etc. Bamboos are frequent. Ferns, orchids and mosses are plenty.

- ii) **Moist Deciduous forest:** This type is very common all over the

state and can be divided into two subtypes characterized by the presence or absence of 'Sal' (*Shorea robusta*). Besides 'Sal' other elements are *Dipterocarpus turbinatus*, *Lagerstroemia parviflora*, *Gmelina arborea*, *Careya arborea*, *Pterospermum personatum*, *Pterospermum semisagittatum*, *Dillenia pentagyna*, *Phyllanthus emblica*, *Mallotus philippensis*, *Maesa ramentacea*, *Bridelia retusa*, *Antidesma bunius*, *Callicarpa arborea*, *Meliosma simplicifolia*, *Syzygium fruticosum*, *Premna coriacea*, *Milletia auriculata*, *Butea parviflora*, *Dalhousia bracteata*, *Melastoma malabathricum*, *Osbeckia chinensis*, etc.

- iii) **Garjan forest:** The forest is dominated by Garjan tree (*Dipterocarpus turbinatus*) occurring in groups and associated with "Sal".
- iv) **Swamps:** The swamps include *Barringtonia acutangula*, *Lagerstroemia parviflora*, *Albizia procera*, *Mallotus philippensis*, *Macaranga denticulata*, *Phragmites karka*, *Saccharum arundinaceum*, *Clinogyne dichotoma*, etc.
- v) **Bamboo forest:** It is common throughout the state.
- vi) **Cane Brakes:** Important elements are *Calamus guruba*, *C. floribundus*, *C. erectus*, *C. leptospadix*, *C. viminalis*, etc.

### Rare, Threatened and Endemics

Being surrounded by botanically richer localities and devoid of any natural barrier or climatic extremes there is little chance of growing endemic elements in the state. About 86% of the species occurring in Tripura are also widely distributed in India and adjoining countries, remaining 14% of species are of comparatively restricted distribution. Some of the threatened and rare taxa are *Begonia surculigera*, *Colona flagocarpa*, *Tournefortia roxburghii*, *Jasminum listeri*, *Podocarpus neriifolia*, *Gnetum montanum*, *G. oblongum*, *Dalbergia thomsonii*, *Ixora subsessilis*, *Lasianthus tubiflorus*, *Garcinia acuminata*, etc.

### Industry and Economy

The major food crops of the state are rice and wheat, while the other minor crops include jute, mesta, sugarcane, potato, etc. Tea is a major industry in the state. There are 55 registered tea gardens, and other major industries are handloom weaving, sericulture, handicrafts

(mainly cane and bamboo products), natural gas based industry and petrochemicals.

### Sanctuaries

1. **Sepahijala Wildlife Sanctuary:** 18.53 sq. km.; tropical moist deciduous; faunal representatives: water birds, water fowl, waders (resident and migratory), civer cat, monkey. (Zoo park under Bird Sanctuary).
2. **Gumti Wildlife Sanctuary:** 389.54 sq. km.
3. **Roa Wildlife Sanctuary:** 0.85 sq. km.
4. **Trishra Wildlife Sanctuary:** 194.70 sq. km.

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**UTTAR PRADESH**

Uttar Pradesh (capital Lucknow) is bounded by Nepal on the north, Himachal Pradesh on the northwest, Haryana on the west, Rajasthan on the south west, Madhya Pradesh on the South and Southwest and Bihar on the east. The state can be divided into three distinct regions (i) Northern mountains (ii) Southern hills and plateau, and (iii) The Ganga Plain. The Ganga plain is a vast homogenous alluvial plain, one of the largest in the World. The state has a tropical climate except for the Himalayan region which has a temperate climate. The main rivers of the state are the Yamuna, Ganga, Ramganga, Gomati and Ghagra.

The state is divided into the following districts:

Dist.	Area sq.km.	Population	Dist. Hq.
1. Agra	4027	3611301	Agra.
2. Aligarh	5019	2990388	Aligarh.
3. Etah	4446	2788270	Etah.
4. Firozabad	2361	2045737	Firozabad.
5. Mainpuri	2760	1592875	Mainpuri.
6. Mathura	3811	2069578	Mathura.
7. Hatras	1752	1333372	Hatras.
8. Azamgarh	4234	3950808	Azamgarh.
9. Balla	2981	2752412	Balia.
10. Mou	1713	1849294	Mou.
11. Kousambi	2015	1294937	Kousambi.
12. Fatehpur	4152	2305847	Fatehpur.
13. Pratapgarh	3717	2727156	Patapgarh.
14. Allahabad	2216	4941510	Allahabad.
15. Santa Ravi Das Nagar:	1056	1352056	Vadohi.
16. Budaun	5168	3069245	Budaun.
17. Bareilly	4120	3598701	Bareilly.
18. Pilibhit	3499	1643788	Pilibhit.
19. Shahjahanpur	4575	2549458	Shajahanpur.
20. Faizabad	4511	2087914	Faizabad.
21. Ambedkarnagar	2025	2025373	Ambedkarnagar.
22. Bahraich	6877	2384239	Bahraich.



Dist.	Area sq.km.	Population	Dist. Hq.
23. Barabanki	4402	2673394	Barbanki.
24. Gonda	7352	2765754	Gonda.
25. Sultanpur	4436	3190926	Sultanpur.
26. Gorakhpur	3325	3784720	Gorakhpur.
27. Deoria	2613	2730376	Deoria.
28. Kusinagar	2832	2891933	Padaruna.
29. Maharajgunj	2948	2167041	Maharajgunj.
30. Banda	7624	1500253	Banda.
31. Hamirpur	4098	1042374	Hamirpur.
32. Jalaun	4565	1455859	Orai.
33. Lalitpur	5039	977446	Lalitpur.
34. Mahaba	3068	708831	Mahaba.
35. Jhansi	5024	1746715	Jhansi.
36. Kanpur	1065	4137489	Kanpur.
37. Kanpur Dehat	5111	1584037	Akbarpur.
38. Farukabad	4274	1577237	Fatehgarh.
39. Etawah	4326	1340031	Etawah.
40. Lucknow	2528	3681416	Lucknow.
41. Hardoi	5986	3397414	Hardoi.
42. Kheri	7680	3200137	Kheri.
43. Rae Bareilly	4609	2872204	Rae Bareilly.
44. Sitapur	5743	3616510	Sitapur.
45. Unnao	4558	2700426	Unnao.
46. Bulandshahr	4352	2923290	Bulandshahr.
47. Meerat	3911	3001636	Meerat.
48. Ghaziabad	1501	1191263	Noida.
50. Moradabad	5967	3749630	Moradabad.
51. Bijnor	4561	3130586	Bijnor.
52. Rampur	2367	1922450	Rampur.
53. Jyotiba Phulenagar	2470	1499193	Amroha.
54. Saharanpur	3689	2848152	Saharanpur.
55. Muzaffarnagar	4008	3541952	Muzaffarnagar.
56. Benaras	3377	3049337	Ghazipur.
60. Chitrakoot	3513	800592	Chitrakootdham.
61. Mirzapur	4522	2114852	Mirzapur.

Dist.	Area sq.km.	Population	Dist. Hq.
62. Sonvadra	6788	1463468	Robertsgunj.
63. Basti	3733	2068922	Basti.
64. Shravasti	2186	1175428	Shravasti.
65. Siddhranagar	3495	2038598	Nabgarh.
66. Balrampur	3457	1684567	Balrampur.
67. Bagpath	1345	1164388	Bagpath.
68. Kanauj	205	1385227	Kanauj.
69. Auriah	2074	1179496	Auriah.
70. Santkabirnagar		1424500	Khalilabad.
71. Uttarkashi	7951	294179	Uttarkashi.
72. Chamoli	7692	369198	Chamoli.
73. Rudraprayag	1896	227461	Rudraprayag.
74. Tehri Garhwal	4085	604608	Tehri Garhwal.
75. Dehra Dun	3088	1279083	Dehra Dun.
76. Garhwal	5438	696851	Pauri.
77. Pithoragarh	7110	462149	Pithoragarh.
78. Champabath	1781	224461	Champabath.
79. Almorah	3090	630446	Almorah.
80. Bageshwar	2310	249453	Bageshwar.
81. Nainital	3853	762912	Nainital.
82. Udham Singhnagar	2912	1234548	Rudrapur.
83. Hardwar	2360	1444213	Hardwar.

(The districts from Uttarkashi to Hardwar in the above mentioned list are now in the newly declared state of Uttaranchal with its state capital Dehra Dun).

### Vegetation and Important Floristic Elements

Due to varied topography, climate and soil, the state represents an extremely rich, luxuriant and diverse type of vegetation.

The plains of Uttar Pradesh is dominated by dry deciduous forest at altitude up to 800 m, above which is the moist tropical forest. The dominant floristic elements are *Shorea robusta*, *Haldina cordifolia*, *Madhuca longifolia*, *Dalbergia sissoo*, *Ficus religiosa*, *Anogeissus latifolia*, *Aegle marmelos*, *Ficus semicordata*, *Acacia catechu*, *Terminalia alata*, *T. bellerica*, *Holoptelea integrifolia*, *Streblus asper*, *Diospyros melanoxylon*,

*Butea monosperma*, *Buchanania lanzan*, *Lannea coromandelica*, *Pongamia pinnata*, *Holarrhena pubescens*, *Ziziphus mauritiana*, *Colebrookea oppositifolia*, *Carissa opacea*, *Glycosmis arborea*, *Ardisia solanacea*, *Grewia hirsuta*, *Rubus ellipticus*, *Tiliacora acuminata*, *Bauhinia vahlii*, *Tinospora cordifolia*, *Piper longum*, *Celastrus paniculatus*, *Asparagus adscendens*, etc. The common herbs are *Clerodendrum viscosum*, *Boerhavia diffusa*, *Curculigo orchioides*, *Chlorophytum tuberosum*, *Malvastrum coromandelianum*, *Achyranthes aspera*, *Argemone mexicana*, *Phragmites karka*, *Imperata cylindrica*.

The subtropical and temperate elements are of mixed forest type, and are represented by *Rhododendron arboreum*, *Quercus leucotrichophora*, *Myrica esculenta*, *Symplocos paniculata*, *Lonicera quinquelocularis*, *Cornus macrophylla*, etc. The common undergrowth herbaceous or shrubby elements include *Sarcococca saligna*, *Daphne cannabina*, *Coriaria nepalensis*, *Myrsine africana*, *Anemone obtusiloba*, *Podophyllum hexandrum*, *Paeonia emodi*, *Paris polyphylla*, species of *Viola*, *Geranium*, *Valeriana*, *Bergenia*, while *Pinus roxburghii*, *Quercus dilata*, *Q. semecarpifolia*, *Ilex excelsa* are found to grow above the mixed forest. *Betula utilis* forest forms the limit in this part of Himalaya. Above this altitude, the dominant shrubby or herbaceous elements are *Juniperus* sp., *Saussurea* sp., *Primula* sp., *Corydalis* sp., *Rheum* sp., *Meconopsis aculeate*, etc.

Some parts of Kumaon and Garhwal Himalaya fall under the cold arid regions of Western Himalayas. The common elements are *Lamium rhomboideum*, *Hyoscyamus niger*, *Thylacospermum caespitosum*, *Cicer microphyllum*, *Hyssopus officinalis*, *Corydalis flabellate*, etc.

### Rare, Threatened and Endemics

Blessed with varied topography, climate and soil, the vegetation of the state comprises a rich plant wealth including many rare and endemics. Some important endemic species are *Alectra parasitica* var. *chitrakutensis*, *Alysicarpus roxburghianus*, *Aphyllorchis gollani*, *Archineottia microglottis*, *Astragalus agacanthoides*, *Chimonobambusa jaunsarensis*, *Cicerbita filicina*, *Cotoneaster garhwalensis*, *Gentiana tetrasepala*, *Itea nutans*, *Mahonia jaunsarensis*, *Pittosporum eriocarpum*, *Poa pseudamoena*, *Pueraria stracheyi*, etc. Besides these, several new species have been described in recent past from Uttar Pradesh. Some of them are *Anemone raui*, *Artemisia filiformilobulata*, *Arenaria curvifolia*, *Carex nandadeviensis*, *Caragana bufensis*, *Clematis connata*, *Euphorbia sharmae*, *Indigofera gangetica*, *Spiraeu raizadii*, etc. Some of the rare

elements are *Berberis lambertii*, *B. affinis*, *B. osmastonii*, *Kashmiria himalaica*, *Poa rhadina*, etc.

Uttar Pradesh is the largest producer of food grains and oil seeds in India. Among important food grains are wheat, rice, gram, maize, barley, etc. Due to large production of sugarcane, the state is known as sugarcane bowl of India. Sugar, cotton textile and miscellaneous food preparations are the three important industries in large scale sector.

### Sanctuaries, National Parks and Biosphere Reserves

1. **Corbett National Park:** Nainital and Garhwal; 520.82 sq. km.; tropical moist deciduous-sal; important faunal representatives: tiger, leopard, sloth bear, sambar, spotted deer, blue bull, goral, four-horned antelope, red jungle fowl, pea fowl.
2. **Dudhwa National Park:** Lakhimpur-Kheri; 490 sq. km.; tropical moist deciduous-sal and grass meadows; important faunal elements are: tiger, leopard, bear, sambar, swamp deer, spotted deer, pea fowl, red jungle fowl, florican.
3. **Govind National Park:** Uttar Kashi; 472.08 sq. km.; dry temperate and subtropical; important faunal elements: snow leopard, brown bear, black bear, bharal, tahr, serow, goral, musk deer, sambar, pheasants.
4. **Nanda Devi National Park:** Chamoli; 624.62 sq. km.; himalayan temperate-moist alpine, dry alpine; important animals: snow leopard, black bear, brown bear, bharal, tahr, serow, marmot, musk deer.
5. **Rajaji National Park:** Saharanpur dist.; 820.03 sq. km.; tropical moist deciduous; important animals: tiger, leopard, sloth bear, elephant, sambar, spotted deer, barking deer.
6. **Chandraprabha Wildlife Sanctuary:** Benaras Dist.; 780 sq. km; tropical dry deciduous; important faunal elements: leopard, sloth bear, sambar, spotted deer, blue bull, chinkara, partridges, pea fowl.
7. **Katerniaghat Wildlife Sanctuary:** Bahraich Dist.; 400 sq. km.; tropical moist deciduous-wetland; important faunal

representatives: tiger, panther, sambar, chital, black buck, sloth bear.

8. **Kedarnath Wildlife Sanctuary:** Chamoli Dist.; 975 sq. km.; himalayan moist temperate, moist and dry alpine scrub; important faunal representatives: brown bear, snow leopard, bharal, musk deer, tahr, serow, goral, pheasants.
9. **Kishnapur Wildlife Sanctuary:** Lakhimpur-Kheri dist.; 227.12 sq. km.; tropical moist deciduous-sal; important faunal representatives: tiger, leopard, spotted deer, sambar, red jungle fowl, pea fowl.
10. **Mahavir Swami Wildlife Sanctuary:** Lalitpur Dist.; 5 sq. km.; tropical moist deciduous; important faunal representatives: leopard, bear, sambar, spotted deer, black buck, chinkara.
11. **Corbett Tiger Reserve:** Naninital, Garhwal Dist.; 521 sq. km.; mixed tropical and subtropical deciduous; faunal representatives: Tiger, leopard, sloth bear, sambar, spotted deer, blue bull, goral, four-horned antelope, crocodile, red jungle fowl, pea fowl.
12. **Dudhwa Tiger Reserve:** Kheri Dist.; 613 sq. km.; tropical moist deciduous-Sal forest and grass meadows; faunal representatives: tiger, leopard, bear, sambar, swamp deer, spotted deer, pea fowl, red jungle fowl.
13. **Nanda Devi Biosphere Reserve:** Chamoli, Almora, Pithoragarh Dist.; 5860.69 sq. km.; himalayan temperate, moist subalpine, dry alpine; faunal representatives: snow leopard, black bear, brown bear, bharal, tahr, serow, marmot, musk deer.
14. **Gangotri National Park:** 1552 sq. km.
15. **Valley of Flower National Park:** 87.50 sq. km.
16. **Askot Musk Deer Wildlife Sanctuary:** 600 sq. km.
17. **Bakhira Wildlife Sanctuary:** 28.94 sq. km.
18. **Binsar Wildlife Sanctuary:** 45.59 sq. km.
19. **Govind Pashuvihar Wildlife Sanctuary:** Uttar-Kashi Dist.; 953.12 sq. km.; dry temperate and subtropical forest.

20. **Hastinapur Wildlife Sanctuary:** 2073 sq. km.
21. **Kaimur Wildlife Sanctuary:** 500.75 sq. km.
22. **Lake Bahosi Wildlife Sanctuary:** 80.23 sq. km.
23. **Mussoorie Wildlife Sanctuary:** 11 sq. km.
24. **National Chambal Wildlife Sanctuary:** 635 sq. km.
25. **Nawabganj Wildlife Sanctuary:** 2.24 sq. km.
26. **Okhia Wildlife Sanctuary:** 4 sq. km.
27. **Parvati Aranga Wildlife Sanctuary:** 11 sq. km.
28. **Partna Wildlife Sanctuary:** 1 sq. km.
29. **Saman Wildlife Sanctuary:** 5 sq. km.
30. **Samaspur Wildlife Sanctuary:** 7.99 sq. km.
31. **Sandi Wildlife Sanctuary:** 3 sq. km.
32. **Sohagibarwa Wildlife Sanctuary:** 428.21 sq. km.
33. **Sohelwa Wildlife Sanctuary:** 452.57 sq. km.
34. **Sonanadi Wildlife Sanctuary:** 301.76 sq. km.
35. **Sursarovar Wildlife Sanctuary:** 4 sq. km.
36. **Sarha Tal Wildlife Sanctuary:** 34 sq. km.
37. **Turtle Wildlife Sanctuary:** 7 sq. km.
38. **Vijai Sargar Wildlife Sanctuary:** 3 sq. km.

**Botanic Gardens**

1. **The National Botanical Research Institute:** Lucknow; 25 ha. (initially known as Sikandar Bagh); more than 6000 species and cultivars: *Bougainvillea*, *Canna*, *Callistemon*, *Coleus*, *Chrysanthemum*, *Erythrina*, *Ixora*, Cacti and succulents, etc.
2. **Botanic Garden, Forest Research Institute and College:** Dehra Dun, 50 ha.; 1200 species are cultivated, richest live collection of woody taxa.
3. **Horticultural Experiment and Training Centre:** Saharanpur, 68 ha., 1500 species.
4. **Government Garden:** Chaubattia (Aimora), 110 ha.
5. **Experimental Botanic Garden, Botanical Survey of India:** (i) Pauri, 14 ha. National Gymnosperm collection, 21 spp. (ii) Khirsu, 8 ha., Nature reserve (iii) Dehra Dun, 1 ha. about 125 endemic, rare and threatened plants of this region as well as other plants of botanical interest.
6. **Experimental Botanic Garden, Botanical Survey of India:** Allahabad, 3 ha.; about 3000 species of ornamental, economic, medicinal, rare, threatened and endemics.

**General (Including Upper Gangetic Plain and newly formed Uttaranchal State)**

- |     |   |  |
|-----|---|--|
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**WEST BENGAL**

West Bengal (capital Kolkata) lies between the Himalayas in the north and the Bay of Bengal in the south. The State has two natural divisions—the Himalayan in the northern part of the state comprising the districts of Darjeeling, Jalpaiguri and Cooch Behar, and the alluvial plain that lies in southern of it.

The southern part of W. Bengal is the handiwork of many big rivers, the main is the Bhagirathi and its tributaries. The Bhagirathi, called Hooghly in its lower reaches, is itself a branch of the Ganga and provides Kolkata its link with the sea. Rain fall varies from 1006 to 2933 mm.

The state is divided into the following districts:

Dist.	Area	Population sq.km.	Dist. Hq.
1. Bankura	6882	3191822	Bankura.
2. Birbhum	4545	3012546	Suri.
3. Bardhaman	7024	6919698	Bardhaman.
4. Kolkata	185	4580544	Kolkata.
5. Cooch Behar	3387	2478280	Cooch Behar.
6. Darjeeling	3075	1605900	Darjeeling.
7. Hooghly	3149	5040047	Chinsura.
8. Howrah	3467	4274010	Howrah.
9. Jalpaiguri	6227	3403204	Jalpaiguri.
10. Malda	3733	3290160	Malda.
**11. Midnapore	1408	9638473	Midnapore.
12. Murshidabad	5324	5863717	Bahrapur.
13. Nadia	3927	4603756	Krishnagar.
14. Purulia	6259	2535233	Purulia.
15. North 24-Pgs.	4094	8930295	Barasat.
16. South 24-Pgs.	9960	6909015	Alipore.
17. UttarDinajpur	3140	2441824	Raigunj.
18. Dakshin Dinajpur	2213	1502647	Balurghat.

\*\* The district is now divided into East Midnapore and West Midnapore..

**Vegetation and Important Floristic Elements**

With the change in altitude and topography, variation in temperature and annual rainfall, the state is unique in having a complete

physiographic and ecological continuum between the tropical and the temperate forest zones. The state is divided into five broad geographical regions: Darjeeling Himalaya, Tarai-Duars region, Western undulating highland and plateau, North and South Bengal plains and Gangetic Delta. The Darjeeling Himalayan region includes a number of mountain ranges and deep river valleys of which Sandakphu (3630 m) is the highest mountain peak. The temperature ranges from 15°-20° C in summer and below 5° C in winter. The average rainfall is 300 cm. The Darjeeling Himalaya and Tarai-Duars regions are dominated by mixed deciduous forest, subtropical forest and temperate forest. Mixed deciduous forest is found at the Teesta valley and Jaldapara area of North Bengal. Some important elements are *Acacia catechu*, *Dalbergia sisso*, *Albizia procera*, *A. lebek*, *Bombax ceiba*, *Trema orientalis*, etc. The subtropical forest is mainly found between 1000-2000 m in Darjeeling. The vegetation is dominated by the elements: *Castanopsis tribuloides*, *C. indica*, *Schima wallichii*, *Engelhardtia spicata*, *Betula cylindrostachys*, *Alnus nepalensis*, *Stereospermum personatum*, *Magnolia hodgsonii*, *Reevesia pubescens*, *Ficus semicordata*, *Meliosma simplicifolia*, *Turpinia pomifera*, *Rubus ellipticus*, *Osbeckia nepalensis*, etc.

Temperate forest consists of Lauraceous forest, evergreen oak forest, Rhododendron-Conifer forest. The Lauraceous forest (1800-2000 m) elements are: *Persea fructifera*, *Cinnamomum bejolghota*, *Engelhardtia spicata*, *Litsea cubeba*, *L. kingii*, *Symplocos* sp., *Prunus nepalensis*, etc. The evergreen oak forest (2150-2750 m) elements include: *Quercus lamellose*, *Q. lineata*, *Lithocarpus pachyphylla*, *L. fenestrata*, *Castanopsis tribuloides*, *C. clarkeii*, *Acer campbellii*, *Symplocos lucida*, *Betula alnoides*, *Daphne papyracea*, *Strobilanthes oligocephalus*, *Rubus lineatus*, *R. reticulatus* etc. Rhododendron-Conifer forest (2700-3800 m) is dominated by *Rhododendron*, *Quercus*, *Abies*, *Tsuga dumosa*, etc.

The western undulating uplands and plateau include the entire Purulia district and western parts of Bardhaman, Bankura and West Midnapore districts. Soil of this area is generally of laterite type. The area is the extension of Chotanagpur plateau. The vegetation is of dry deciduous type. The common species are: *Shorea robusta*, *Madhuca indica*, *Bridelia squamosa*, *Buchanania lanzan*, *Semicarpus anacardium*, *Tectona grandis*, *Terminalia arjuna*, *T. catappa*, *T. chebula*, *Butea monosperma*, *Cochlospermum religiosum*, *Haldina cordifolia*, *Dalbergia latifolia*, *Garuga pinnata*, *Helicteres isora*, *Acacia catechu*, *Zizyphus mauritiana*, *Woodfordia fruticosa*, etc.

The plain of West Bengal is traversed by the river Ganga and divided it into North and South Bengal plains. Soil of this region is

generally alluvial and in some places lateritic. The common elements are: *Ficus religiosa*, *F. behgalensis*, *Azadirachta indica*, *Mangifera indica*, *Acacia nilotica*, *Aegle marmelos*, *Alangium salvifolium*, *Alstonia scholaris*, *Artocarpus heterophyllus*, *Butea monosperma*, *Bombax ceiba*, *Cocos nucifera*, *Garuga pinnata*, *Psidium guajava*, *Tamarindus indica*, *Thespesia populnea*, *Zizyphus mauritiana*, *Bauhinia acuminata*, *Cassia sophera*, *Calotropis gigantea*, *Desmodium gangeticum*, *Lantana camara*, *Ricinus communis*, *Solanum torvum*, *Vitex negundo*, *Alternanthera sessilis*, *Bacopa monnieri*, *Commelina benghalensis*, *Dentella repens*, *Evolvulus nummularius*, *Oxalis corniculata*, *Polygonum plebejum*, *Achyranthes aspera*, *Canscora diffusa*, *Croton bonplandianum*, *Elephantopus scaber*, etc.

The Gangetic Delta includes Sundarban area in South 24-Parganas district. The area possesses several creeks, marshy places and river openings and is covered by littoral and tidal swamp forest. Soil predominantly saline and the climate is hot and humid. The important floristic elements are: *Hibiscus tiliaceus*, *Thespesia populnea*, *Lippia geminata*, *Heritiera fomes*, *Sonneratia apetala*, *Brugulera gymnorrhiza*, *Xylocarpus moluccensis*, *Avicennia officinalis*, *Excoecaria agallocha*, *Amoora cucullata*, *Acanthus ilicifolius*, *Pandanus tectorius*, *Nipa fruticans*, *Rhizophora mucronata*, etc.

### Rare, Threatened and Endemics

Indo-Gangetic region is having poor representation of endemics. Some new taxa have been described recently such as: *Cardenthera uliginosa* var. *birbhumensis*, *Cuscuta sharmanum*, *Hydrocotyle himalaica*, *Dalbergia duarensis*, etc. Some of the rare and threatened taxa are: *Acer osmatonii*, *Aconitum ferox*, *Begonia satrapis*, *B. rubella*, *Calamus inermis*, *Ceriops decandra*, *C. tagal*, *Christella clarkii*, *Cissus spectabilis*, *Codonopsis affinis*, *Commelina appendiculata*, *Cymbidium eburneum*, *Diplomeris hirsuta*, *Hedyotis scabra*, *Heritiera fomes*, *Nipa fruticans*, *Rhizophora apiculata*, *R. mucronata*, *Rhododendron edgeworthii*. *Aldrovanda vesiculosa* was known to occur at Salt Lake, Kolkata which seems to have been extinct.

### Industry and Economy

Economy of the state is mainly based on agriculture. The state produces more than 15 percent of the country's total output of rice. The state accounted for 66.5 percent of country's jute (including mesta) and 22.2 percent of tea. Other important crops are potato, oil seed,

betel, tobacco, wheat and maize. Major industries include engineering, automobiles, chemicals, pharmaceuticals, aluminium, ceramics, jute, textiles, paper, leather, fertilizers, ship building, etc. Coal and china clay are two important minerals being exploited.

#### **Sanctuaries, National Parks and Reserves**

1. **Gorumara National Park:** Jalpaiguri Dist.; 79.45 sq. km.; tropical moist deciduous; important faunal representatives: rhinoceros, tiger, elephant, sambar, hog deer, gaur, red jungle fowl.
2. **Sundarban National Park:** South 24-Parganas Dist.; 1330.10 sq. km.; tropical moist seral-tidal beach mangrove; important faunal representatives: tiger, spotted deer, wild boar, red jungle fowl, migratory water birds, herons, egrets, oceanic crocodile.
3. **Ballavpur Wildlife Sanctuary:** Birbhum Dist.; 2 sq. km.; tropical moist and mixed deciduous sal forest; important faunal representatives: spotted deer, black buck, water birds (migratory and endemic).
4. **Bethuadahari Wildlife Sanctuary:** Nadia Dist.; 1.21 sq. km.; tropical semi evergreen wet, sal; faunal elements are: sambar, spotted deer, barking deer, terrestrial birds.
5. **Bibhutibhusan (Parmadan) Wildlife Sanctuary:** North 24-Parganas Dist.; 60 sq. km.; important animals: spotted deer, mouse deer, wild boar.
6. **Chapramari Wildlife Sanctuary:** Jalpaiguri Dist.; 9.60 sq. km.; tropical moist deciduous and evergreen wet-sal; important animals: tiger, gaur, sambar, barking deer, birds, monitor lizard.
7. **Haliday Islands Wildlife Sanctuary:** South 24-Parganas Dist.; 5.95 sq. km.; tropical moist, seral-mangrove; important animals: tiger, spotted deer, migratory waders.
8. **Jaldapara Wildlife Sanctuary:** Jalpaiguri Dist.; 216.51 sq. km.; tropical moist deciduous-wet sal; important faunal representatives: tiger, leopard, elephant, gaur, hog deer, sambar, barking deer, wild boar, waders.
9. **Lothian Island Wildlife Sanctuary:** South 24-Parganas Dist.; 38 sq. km.; tropical moist seral-mangrove; important animals: spotted deer, wild boar, otter, oceanic crocodile, dolphin, waders.

10. **Mahananda Wildlife Sanctuary:** Darjeeling Dist.; 127.22 sq. km.; tropical moist deciduous; important animals: tiger, elephant, gaur, sambar, hog deer, langur, monkey.
11. **Ramnabagan Wildlife Sanctuary:** Burdwan Dist.; 0.14 sq. km.; tropical moist deciduous; important animals: spotted deer, monkey.
12. **Sajnakhali Wildlife Sanctuary:** South 24-Parganas Dist.; 362.40 sq. km.; tropical moist seral-tidal forest, mangrove; important faunal representatives: tiger, jungle cat, pelican, bird sanctuary.
13. **Senchal Wildlife Sanctuary:** Darjeeling Dist.; 38.60 sq. km.; temperate wet (eastern Himalayan); important faunal representatives: himalayan black bear, goral, serow, pheasants.
14. **Sundarban Biosphere Reserve:** South 24-Parganas Dist.; 9630 sq. km.; mangrove, coastal beach and sand dune vegetation, salt marsh formation, non mangrove formation along open pasture, bunds, fresh water swamps around the buffer zone; important faunal representatives: tiger, wild boar, spotted deer, jungle fowl, hyaena, crocodile.
15. **Buxa Tiger Reserve:** Jalpaiguri Dist.; 759 sq. km.; sub himalayan semi-evergreen or wet mixed type, moist mixed deciduous, sal and moist temperature type; faunal representatives: tiger, elephant, sambar, chital, wild pig, gaur, rhesus monkey, langur, leopard cat, leopard, sloth bear, porcupine, pea fowl, red jungle fowl, hornbill, mahseer.
16. **Buxa National Park:** Jalpaiguri Dist.; 117.10 sq. km.
17. **Neora Valley National Park:** Darjeeling Dist.; 88 sq. km.
18. **Singalila National Park:** Darjeeling Dist.; 78 sq. km.
19. **Buxa Wildlife Sanctuary:** 251.89 sq. km.
20. **Jorepokhri Wildlife Sanctuary:** 0.04 sq. km.
21. **Narendrapur Wildlife Sanctuary:** South 24-Parganas Dist.; 0.10 sq. km.
22. **Raigunj Wildlife Sanctuary:** Uttar Dinajpur Dist.; 1.30 sq. km.

### Botanic Gardens

1. **Indian Botanic Garden, Botanical Survey of India:** Howrah Dist.; 112 ha.; about 12,000 trees, shrubs and climbers belonging to more than 1400 species. The important collections include many species introduced and conserved from different parts of the world mainly south-east Asia, Africa and America. There are more than 650 species of ornamental, economic, medicinal, rare and endangered groups; 109 species palms, 141 cultivars of Bougainvillea, 26 species of Bamboos, 80 species of orchids, 100 species of cacti and succulents, etc. maintained in the garden.
2. **Liyod Botanic Garden:** Darjeeling Dist.; 16.7 ha.; collection of Himalayan plants, ferns, gymnosperms, orchids; many species of exotic, indigenous and threatened plants, 2500 sets of orchids.
3. **Eden Garden:** Kolkata Dist.; 6.0 ha.

### General

- |     |   |   |
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