

Taxonomic diversity in the States												
Category	Taxonomic group	Andhra Pradesh	Arunachal Pradesh	Assam	Bihar	Goa	Gujarat	Haryana	Himachal Pradesh	Jammu & Kashmir		
FAUNA	Protista											
	Phylum Protozoa	512	72	46		103	14	43		34		
	Animalia											
	INVERTEBRATA	Phylum Mesozoa										
		Phylum Porifera			2		8		1		3	
		Phylum Cnidaria		1	1		22	19	1		2	
		Phylum Ctenophora					2					
		Phylum Platyhelminthes	264	8	33		6		52		90	
		Phylum Rotifera		58	146				42		16	
		Phylum Gastrotricha			3							
		Phylum Kinorhyncha										
		Phylum Nematoda	111	36	32		34	111	185		132	
		Phylum Acanthocephala	39	1					4		2	
		Phylum Sipuncula					1	19				
		Phylum Mollusca	480	210	39		64	239	17		73	
		Phylum Echiura										
		Phylum Annelida	163	42	32		78	90	49		60	
		Phylum Onychophora		1								
		Phylum Arthropoda	1337	4062	3811	70	471	448	1369		4543	158
		Phylum Phoronida										
		Phylum Bryozoa (Ectoprocta)		2	5							
		Phylum Entoprocta										
		Phylum Brachiopoda			75							
		Phylum Chaetognatha						6				
		Phylum Tardigrada										
		Phylum Nemertea			1		2					
	Phylum Echinodermata					6	46					
	Phylum Hemichordata											
	Phylum Protochordata											
	VERTEBRATA	Phylum Chordata										
		Class Pisces: Fresh water Fishes	180	259	185		58	119	74		83	
		Class Pisces: Marine and Estuarine Fishes	600				296	487				
Class Amphibia		23	76	70	14	28	18	14		44	14	
Class Reptilia		103	108	116	77	100	89	38			68	
Class Aves		527	539	950	465	458	452	509		447	358	
Class Mammalia		108	154	193	95	83	101	57		77	73	
TOTAL FAUNAL SPECIES	4447	5629	5740	721	1826	2252	2455	5606	671			
FLORA	Virus/Bacteria					200(V),2000(B)						
	Algae	50		252		146	1933					
	Fungi	300		213		3500	164					
	Lichens	126		300								
	Bryophytes	100		127			8					
	Pteridophytes	72		221		27	16			168		
	Gymnosperms	3	33	7		1	1			19		
	Angiosperms	3000	3010	3010	2963	1600	2106	1227	3380	4252		
TOTAL FLORAL SPECIES	3651	3043	4130	2963	5274	4228	1227	3380	4439			
GRAND TOTAL (FLORA + FAUNA)	8098	8672	9870	3684	7100	6480	3682	8986	5110			

Note: 1. Blank may not be treated as Nil. 2. Jharkhand is included in Bihar and Chhattisgarh data is included in Madhya Pradesh.

Source: Refer Annexure 5.1a

Taxonomic diversity in the States											
Category	Taxonomic group	Karnataka	Kerala	Madhya Pradesh	Maharashtra	Manipur	Meghalaya	Mizoram	Nagaland	Odisha	
FAUNA	Protista										
	Phylum Protozoa		25		526	86	128		59	152	
	Animalia										
	INVERTEBRATA	Phylum Mesozoa									
		Phylum Porifera	12			22					5
		Phylum Cnidaria						3			2
		Phylum Ctenophora									
		Phylum Platyhelminthes						91	14		19
		Phylum Rotifera						111			69
		Phylum Gastrotricha									
		Phylum Kinorhyncha									
		Phylum Nematoda		57		81	34	76	102		28
		Phylum Acanthocephala							18		
		Phylum Sipuncula									
		Phylum Mollusca	29		72	737	127	223	65	21	378
		Phylum Echiura									
		Phylum Annelida	39	141		16			52		71
		Phylum Onychophora									
		Phylum Arthropoda	1442	4525	1272	3523	1766	3092	692	1433	987
		Phylum Phoronida									
		Phylum Bryozoa (Ectoprocta)									
		Phylum Entoprocta									
		Phylum Brachiopoda									
		Phylum Chaetognatha									
		Phylum Tardigrada									
		Phylum Nemertea									
	Phylum Echinodermata										
	Phylum Hemichordata										
	Phylum Protochordata										
	VERTEBRATA	Phylum Chordata									
		Class Pisces: Fresh water Fishes	213	229	172	215	141	152	89	108	186
		Class Pisces: Marine and Estuarine Fishes	570	855		653					722
Class Amphibia		88	175	35	53	14	33	13	10	29	
Class Reptilia		126	190	69	117	9	94	71	62	138	
Class Aves		536	521	449	556	586	541	370	428	524	
Class Mammalia		137	132	170	129	69	139	84	92	103	
TOTAL FAUNAL SPECIES	3192	6850	2239	6628	2832	4753	1500	2213	3413		
FLORA	Virus/Bacteria										
	Algae	1761								934	
	Fungi	1255								700	
	Lichens	527								276	
	Bryophytes	267	465							300	
	Pteridophytes	173	337				496	211	397	176	
	Gymnosperms	26	5				29	6	6	22*	
	Angiosperms	4827	4606	2317	3455	2376	4411	2141	1960	2630	
TOTAL FLORAL SPECIES	8836	5413	2317	3455	2376	4936	2358	2363	5016		
GRAND TOTAL (FLORA + FAUNA)	12028	12263	4556	10083	5208	9689	3858	4576	8429		

Note:1. Blank may not be treated as Nil. 2. Jharkhand is included in |
Source: Refer Annexure 5.1a

Taxonomic diversity in the States				
Category	Taxonomic group	Punjab	Rajasthan	
FAUNA	Protista			
	Phylum Protozoa			
	Animalia			
	INVERTEBRATA	Phylum Mesozoa		
		Phylum Porifera		
		Phylum Cnidaria		
		Phylum Ctenophora		
		Phylum Platyhelminthes	12	
		Phylum Rotifera		
		Phylum Gastrotricha		
		Phylum Kinorhyncha		
		Phylum Nematoda	143	
		Phylum Acanthocephala		
		Phylum Sipuncula		
		Phylum Mollusca	36	
		Phylum Echiura		
		Phylum Annelida	59	
		Phylum Onychophora		
		Phylum Arthropoda	2384	
		Phylum Phoronida		
		Phylum Bryozoa (Ectoprocta)		
		Phylum Entoprocta		
		Phylum Brachiopoda		
		Phylum Chaetognatha		
		Phylum Tardigrada		
		Phylum Nemertea		
	Phylum Echinodermata			
	Phylum Hemichordata			
	Phylum Protochordata			
	VERTEBRATA	Phylum Chordata		
Class Pisces: Fresh water Fishes		88	114	
Class Pisces: Marine and Estuarine Fishes				
Class Amphibia		8	14	
Class Reptilia		33	67	
Class Aves		547	510	
	Class Mammalia	46	87	
TOTAL FAUNAL SPECIES		3356	792	
FLORA	Virus/Bacteria			
	Algae			
	Fungi			
	Lichens			
	Bryophytes			
	Pteridophytes	16		
	Gymnosperms	20	1	
	Angiosperms	1886	1910	
TOTAL FLORAL SPECIES		1922	1911	
GRAND TOTAL (FLORA + FAUNA)		5278	2703	

Note:1. Blank may not be treated as Nil. 2. Jharkhand is included in |
Source: Refer Annexure 5.1a

Taxonomic diversity in the States									
Category	Taxonomic group	Sikkim	Tamil Nadu	Telangana	Tripura	Uttar Pradesh	Uttarakhand	West Bengal	
FAUNA	Protista								
	Phylum Protozoa	80			102	41	35	1136	
	Animalia								
	INVERTEBRATA	Phylum Mesozoa							
		Phylum Porifera		67					16
		Phylum Cnidaria							23
		Phylum Ctenophora							2
		Phylum Platyhelminthes		38		36		84	248
		Phylum Rotifera		158		112			147
		Phylum Gastrotricha							24
		Phylum Kinorhyncha							5
		Phylum Nematoda	42	80		115	140	196	306
		Phylum Acanthocephala	18			17			15
		Phylum Sipuncula							3
		Phylum Mollusca	89	32	480	48	47		247
		Phylum Echiura							3
		Phylum Annelida	26	100	163	24		77	194
		Phylum Onychophora							
		Phylum Arthropoda	3814	2708	1337	1386	1460	2264	6785
		Phylum Phoronida							1
		Phylum Bryozoa (Ectoprocta)							9
		Phylum Entoprocta							
		Phylum Brachiopoda							1
		Phylum Chaetognatha							
		Phylum Tardigrada							
		Phylum Nemertea							
	Phylum Echinodermata								
	Phylum Hemichordata							22	
	Phylum Protochordata								
	VERTEBRATA	Phylum Chordata							
		Class Pisces: Fresh water Fishes	50	160	180	129	152	132	207
		Class Pisces: Marine and Estuarine Fishes		789					403
Class Amphibia		50	77	22	11	25	20	39	
Class Reptilia		88	187	103	32	77	72	148	
Class Aves		579	493	486	259	358	743	846	
Class Mammalia		169	134	108	44	87	93	188	
TOTAL FAUNAL SPECIES	5005	5023	2879	2315	2387	3716	11018		
FLORA	Virus/Bacteria	500						NA/96	
	Algae	50	1263			301		865	
	Fungi	200	1077			935		860	
	Lichens	506	555			135		600	
	Bryophytes	743	712			72		550	
	Pteridophytes	362	275		72	41		450	
	Gymnosperms	24	4		13	6	19	21	
	Angiosperms	4500	5547	2800	1573	1442	4781	3580	
TOTAL FLORAL SPECIES	6885	9433	2800	1658	2932	4800	7022		
GRAND TOTAL (FLORA + FAUNA)	11890	14456	5679	3973	5319	8516	18040		

Note:1. Blank may not be treated as Nil. 2. Jharkhand is included in
Source: Refer Annexure 5.1a

Taxonomic diversity in the States								
Category	Taxonomic group	Andaman & Nicobar Islands	Chandigarh	Dadra & Nagar Haveli	Daman & Diu	Delhi	Lakshadweep	
FAUNA	Protista							
	Phylum Protozoa					44		
	Animalia							
	INVERTEBRATA	Phylum Mesozoa						
		Phylum Porifera						
		Phylum Cnidaria						
		Phylum Ctenophora						
		Phylum Platyhelminthes						
		Phylum Rotifera						
		Phylum Gastrotricha						15
		Phylum Kinorhyncha						
		Phylum Nematoda					57	42
		Phylum Acanthocephala						
		Phylum Sipuncula						
		Phylum Mollusca					23	424
		Phylum Echiura						
		Phylum Annelida						127
		Phylum Onychophora						
		Phylum Arthropoda	757				927	85
		Phylum Phoronida						
		Phylum Bryozoa (Ectoprocta)						
		Phylum Entoprocta						
		Phylum Brachiopoda						
		Phylum Chaetognatha						
	Phylum Tardigrada							
	Phylum Nemertea							
	Phylum Echinodermata						92	
	Phylum Hemichordata							
	Phylum Protochordata							
	VERTEBRATA	Phylum Chordata						
		Class Pisces: Fresh water Fishes					87	
		Class Pisces: Marine and Estuarine Fishes						
Class Amphibia						7		
Class Reptilia						25		
Class Aves						434		
Class Mammalia						32		
TOTAL FAUNAL SPECIES		757				1636	785	
FLORA	Virus/Bacteria							
	Algae	182						
	Fungi							
	Lichens	383						
	Bryophytes	63						
	Pteridophytes	139			3			
	Gymnosperms	9				2		
	Angiosperms	2440	574	407	404	962		
TOTAL FLORAL SPECIES		3216	574	410	404	964		
GRAND TOTAL (FLORA + FAUNA)		3973	574	410	404	2600	785	

Note:1. Blank may not be treated as Nil. 2. Jharkhand is included in
Source: Refer Annexure 5.1a

Data Sources of Annexure 5.1

Data Source	Data Source for Fauna	Data Source for Flora
Andhra Pradesh	State fauna series Vol 5, Zoological Survey of India	Rao, B. R. P., Reddy, M. S., & Pullaiah, T. (2008). FLORA AND VEGETATION OF ANDHRA PRADESH. New Delhi Akademy of Sciences, 12, 1-13.
Arunachal Pradesh	State fauna series Vol 13, Zoological Survey of India	Assam, H.J Chowdhery, Floristic Diversity and Conservation Strategies in India. 1999. Vol.2 V. Mudgal & P.K. Hajra(eds.) BSI, Kolkata
Assam	Status of Environment and Related Issues, ENVIS Centre: Assam	Assam, A.K. Baishya, Floristic Diversity and Conservation Strategies in India. 1999. Vol.2 V. Mudgal & P.K. Hajra(eds.) BSI, Kolkata
Bihar	State fauna series Vol 11, Zoological Survey of India	Chapter 2; M. Das, R. P. Bhattacharya, V. Mudgal. Floristic Diversity and Conservation Strategies in India. 1999. Vol.2 V. Mudgal & P.K. Hajra(eds.) BSI, Kolkata
Goa	State fauna series Vol 16, Zoological Survey of India	N. P. Singh & M. J Kothari. Floristic Diversity and Conservation Strategies in India. 1999. Vol.2 V. Mudgal & P.K. Hajra(eds.) BSI, Kolkata
Gujarat	State fauna series Vol 8 Zoological Survey of India	Sharma, Diwakar & Gavali, Deepa & Shah, J. (2002). Plant Species Diversity in Gujarat. The Botanica. 52.
Haryana	State fauna series Vol 24, Zoological Survey of India	Source: S. Kumar. Floristic Diversity and Conservation Strategies in India. 1999. Vol.2 V. Mudgal & P.K. Hajra(eds.) BSI, Kolkata
Himachal Pradesh	Biodiversity Status and Initiatives in Himachal Pradesh, Himachal Pradesh State Biodiversity Board	Source: H. J. Choudhery. Floristic Diversity and Conservation Strategies in India. 1999. Vol.2 V. Mudgal & P.K. Hajra(eds.) BSI, Kolkata
Jammu & Kashmir	Biodiversity, Status of Environment & Related Issues, ENVIS Centre: J&K	Source: D.K. Singh, B. P. Uniyal & R. Mathur. Floristic Diversity and Conservation Strategies in India. 1999. Vol.2 V. Mudgal & P.K. Hajra(eds.) BSI, Kolkata
Karnataka	State fauna series Vol 21, Zoological Survey of India	N.P. Singh, P. V. Prasanna & B. G. Kulkarni. Floristic Diversity and Conservation Strategies in India. 1999. Vol.2 V. Mudgal & P.K. Hajra(eds.) BSI, Kolkata
Kerala	State fauna series Vol 1 to 24, Zoological Survey of India	M. Mohanan & V. J. Nair. Floristic Diversity and Conservation Strategies in India. 1999. Vol.2 V. Mudgal & P.K. Hajra(eds.) BSI, Kolkata
Madhya Pradesh	State fauna series Vol 15, Zoological Survey of India	D.M. Verma & V. Mudgal. Floristic Diversity and Conservation Strategies in India, P. Editors V. Mudgal & P.K. Hajra. 1999.
Maharashtra	State fauna series Vol 20, Zoological Survey of India	P.Lakshminarasimhan & W. Arisdason 2016. Plant diversity of Maharashtra State-An Overview Web publish ENVIS Center on Floral Diversity BSI Howrah
Manipur	State fauna series Vol 10, Zoological Survey of India	A.S. Chauhan. Floristic Diversity and Conservation Strategies in India. 1999. Vol.3 pp1153-1182 V. Mudgal & P.K. Hajra(eds.) BSI, Kolkata
Meghalaya	State fauna series Vol 4, Zoological Survey of India	A.A.Mao et al 2016. Check-list of Flora of Meghalaya. Meghalaya Biodiversity Board, Shillong.*K. Haridasan. 1999. Floristic Diversity and Conservation Strategies in India, Vol. 3.pp.1183-1216 Editors V. Mudgal & P.K. Hajra.
Mizoram	State fauna series Vol 14, Zoological Survey of India	K.P. Singh. Floristic Diversity and Conservation Strategies in India. V. Mudgal & P.K. Hajra (eds). Vol.3.1999
Nagaland	State fauna series Vol 12, Zoological Survey of India	T. M. Hynniewta. Floristic Diversity and Conservation Strategies in India. V. Mudgal & P.K. Hajra (eds). Vol.3.1999
Odisha	State fauna series Vol 1, Zoological Survey of India	A.K. Sahoo, D. D. Bahali & H. S. Mohapatra. Floristic Diversity and Conservation Strategies in India. V. Mudgal & P.K. Hajra (eds). Vol.3.1999
Punjab	State fauna series Vol 22, Zoological Survey of India	Source: Paramjit Singh. Floristic Diversity and Conservation Strategies in India. V. Mudgal & P.K. Hajra (eds). Vol.3.1999
Rajasthan	Biodiversity of Rajasthan, Rajasthan State Biodiversity Board	Source: V. Singh & R.P. Pandey. Floristic Diversity and Conservation Strategies in India. 1999. Vol.3 V. Mudgal & P.K. Hajra(eds.) BSI, Kolkata
Sikkim	State fauna series Vol 9, Zoological Survey of India	Source: Paramjit Singh & A.S. Chauhan. Floristic Diversity and Conservation Strategies in India, P. Editors V. Mudgal & P.K. Hajra. 1999.
Tamil Nadu	State fauna series Vol 17, Zoological Survey of India	Source: W. Arisdason & P. Lakshminarasimhan 2016. Diversity of Fungi, Lichen, Algae, nonflowering and flowering plants of Tamil Nadu State- An overview. Web publish. ENVIS Center on Floral Diversity, BSI, Howrah.
Telangana	Telangana State Biodiversity Profile, Telangana State biodiversity Board	http://www.tsbiodiversity.org/biodiversityprofile.html
Tripura	State fauna series Vol 7, Zoological Survey of India	Source: A checklist of Plants of Tripura. Web. ENVIS center on Floral Diversity. Accessed on 14.08.2020
Uttar Pradesh	State fauna series Vol 22, Zoological Survey of India	Source: B.P. Uniyal, K.K. Khanna & Bipin Balodi. Floristic Diversity and Conservation Strategies in India. V. Mudgal & P.K. Hajra (eds). Vol.2.1999.
Uttarakhand	State fauna series Vol 18, Zoological Survey of India	Source: P.K. Pusalkar & S.K. Singh 2018. Flora of Uttarakhand Vol.I BSI, Kolkata

Data Sources of Annexure 5.1

Data Source	Data Source for Fauna	Data Source for Flora
West Bengal	State fauna series Vol 3, Zoological Survey of India	T.K. Paul 2016. An outline of Plant diversity in West Bengal Web publish ENVIS Center on Floral Diversity, BSI Howrah
Andaman & Nicobar Islands	State fauna series Vol 19, Zoological Survey of India	W. Arisdason & P. Lakshminarasimhan 2016. An outline of Plant diversity in the Andaman & Nicobar Islands. ENVIS Centre on Floral Diversity, BSI. Howrah
Chandigarh		Bipin Balodi, J. R. Sharma, B.P. Uniyal. Floristic Diversity and Conservation Strategies in India. 1999. Vol.2 V. Mudgal & P.K. Hajra(eds.) BSI, Kolkata
Dadra & Nagar Haveli		N. P. Singh & P. P. Sharma. Floristic Diversity and Conservation Strategies in India. 1999. Vol.2 V. Mudgal & P.K. Hajra(eds.) BSI, Kolkata
Daman & Diu		N. P. Singh, P. P. Sharma & P. G. Diwakar. Floristic Diversity and Conservation Strategies in India. 1999. Vol.2 V. Mudgal & P.K. Hajra(eds.) BSI, Kolkata
Delhi	State fauna series Vol 6, Zoological Survey of India	B. D. Naithani & B. P. Uniyal. Floristic Diversity and Conservation Strategies in India. 1999. Vol.2 V. Mudgal & P.K. Hajra(eds.) BSI, Kolkata
Lakshadweep	State fauna series Vol 2, Zoological Survey of India	

State-wise number of Protected Areas

State	Geographical Area	Terrestrial Protected Areas									Marine Protected Areas					Percentage of the State's geographic area under Terrestrial Protection Area		
		No. of National Parks	Area under National Parks (km2)	No. of Wild life Sanctuaries	Area under Wildlife Sanctuaries (km2)	No. of Community Reserves	Area under Community Reserves (km2)	No. of Conservation Reserves	Area under Conservation Reserves (km2)	No. of Protected Areas	Total Area under Protected Area (km2)	No. of National Parks	Area under National Parks (km2)	No. of Sanctuaries	Area under Sanctuaries (km2)		No. of Community /conservation Reserves	Area under Community /Conservation Reserves (km2)
Andhra Pradesh	160,229	3	1,368.88	13	5,942.23					16	7,311.11			3	930.51			4.56
Arunachal Pradesh	83,743	2	2,290.82	11	7,487.75					13	9,778.57							11.68
Assam	78,438	5	1,977.79	18	1,840.14					23	3,817.93							4.87
Bihar	94,163	1	335.65	12	2,901.67					13	3,237.32							3.44
Chhattisgarh	135,191	3	2,899.08	11	3,760.29					14	6,659.37							4.93
Delhi	1,483	0	0.00	1	27.82					1	27.82							1.88
Goa	3,702	1	107.00	6	647.91					7	754.91			1	1.78			20.39
Gujarat	196,022	4	480.12	23	16,618.42			1	227	28	17,325.54	1.00	162.89	2	301.08			8.84
Haryana	44,212	2	48.25	8	233.21					2	48.72							0.75
Himachal Pradesh	55,673	5	2,271.28	28	6,116.10					3	19.17							15.10
Jammu & Kashmir	163,090	3	575.00	13	1,243.11					30	680.75							1.53
Jharkhand	79,714	1	226.33	11	1,955.82													2.74
Karnataka	191,791	5	2,795.76	31	7,517.69	1	3.12			13	151.02							5.46
Kerala	38,863	6	558.16	17	1,928.24	1	1.5											6.40
Madhya Pradesh	308,245	10	3,657.26	25	7,158.41													3.51
Maharashtra	307,713	6	1,273.60	48	7,592.31					6	460.52			2	46.03			3.03
Manipur	22,327	1	40.00	2	184.81													1.01
Meghalaya	22,429	2	267.48	4	94.10	65	136.97											2.22
Mizoram	21,081	2	150.00	9	1,184.75													6.33
Nagaland	16,579	1	202.02	3	20.34	93	662.73											5.34
Odisha	155,707	2	990.70	19	7,094.65													5.19
Punjab	50,362	0	0.00	13	326.60	3	29.02			4	25.71							0.76
Rajasthan	342,239	5	3,947.07	25	5,592.38													2.92
Sikkim	7,096	1	1,784.00	7	399.10													30.77
Tamil Nadu	130,058	5	307.85	29	6,157.12													4.97
Telangana	114,840	3	19.62	9	5,675.91													4.96
Tripura	10,486	2	36.71	4	566.93													5.76
Uttar Pradesh	240,928	1	490.00	26	5,829.20													2.62
Uttarakhand	53,483	6	4,915.02	7	2,690.12													14.62
West Bengal	88,752	6	1,981.65	16	1,456.21													5.47
Andaman And Nicobar Island	8,249	6	1,216.95	96	389.39													19.47
Chandigarh	114	0	0.00	2	26.01													22.82
Dadra And Nagar H	491	0	0.00	1	92.16													18.77
Daman & Diu	112	0	0.00	1	2.19									1	2.18			1.96
Ladakh	59,146	1	3,350.00	2	9,000.00													21.13
Lakshadweep	32	0	0.00	1	0													843.94
Puducherry	480	0	0.00	1	3.90													0.81
Total	3,287,263	101	40,564	553	119,757	163	833	89	4,128	906	165,283	13	2,798	116	6,909	4	272	

Source/ स्रोत: 1. Wildlife Institute of India and K Sivakumar, Coastal and Marine Biodiversity Protected Areas in India: Challenges and Way Forward, K. Venkataraman et al. (eds.), Ecology and Conservation of Tropical Marine Faunal Communities, Springer-Verlag Berlin Heidelberg 2013.

2. National Wildlife Database, March, 2020