



# HIMACHAL FORESTS

2008



FOREST DEPARTMENT, HIMACHAL PRADESH

## HIMACHAL AT A GLANCE

1	2	3
1	Geographical Area ( by professional survey)	55,673 km <sup>2</sup>
2	<b>Administrative Infrastructure</b>	
	a) Districts	<b>12</b>
	b) Tehsil/ Sub Tehsil/Panchayats	<b>75/34/3243</b>
	c) Sub-Division/Development Block	<b>51/75</b>
	d) Towns	57
	e) In-habited village (2001 Census)	17495
	f) Un-inhabited villages (2001 Census)	2623
3	<b>Population (2001 Census)</b>	<b>60,77,900</b>
	a) Males	30,87,940
	b) Females	29,89,960
	c) Females per '000 males	968
4	Percentage of Rural Population to Total Population	90.20
5	Percentage of Urban Population to Total Population	9.80
6	Decadal Rate of growth of Population(1991-2001)	17.54
7	Density of Population per km <sup>2</sup> (2001)	109
8	<b>Literacy percentage (2001 Census)</b>	<b>76.50</b>
	a) Males	85.30
	b) Females	67.40
9	<b>Live Stock Population (2003)</b>	<b>50.51 Lakh</b>
10	% of Marginal workers	16.92
11	% of Non workers	50.76
12	Percentage of main workers to Total Population	32.31
13	<b>Percentage break-up of workers ( main)</b>	
	a)Cultivators	65.33
	b)Agriculture Laborers	3.14
	c)Household Industries	1.75
	d) Other workers	29.78
14	<b>Total Forest area ( Legally classified )</b>	<b>37,033 km<sup>2</sup></b>
	a) Culturable Forest area	20,657km <sup>2</sup>
	b) Un -culturable Forests Area (barren lands, high alpine, snow bound area etc.)	16,376 km <sup>2</sup>
15	Per-capita Recorded Forest Area	0.61 ha
16	Total Growing stock in Forests	10.01 Crore m <sup>3</sup>
17	Annual yield of wood from Forests ( Standing Volume)	6,96,800 m <sup>3</sup>
18	<b>Area under Agricultural Lands</b>	<b>6,132 km<sup>2</sup></b>
	a) Net area sown	5,405 km <sup>2</sup>
	b) Fallow lands	727km <sup>2</sup>
19	Percentage of area under Agriculture Lands	11.0
20	Number of Total Holding in H.P. (2000-01)	9,13,914
21	Total area of holdings including grazing /pasture lands in possession of private individuals	9,78,756 ha.
22	Average size of Holding in H.P. based on Total Area	1.07 ha.
23	Per-capita Annual Income ( at current prices 2006-07)	Rs. 36,783
24	<b>Total number of House holds (2001 Census)</b>	<b>1221589</b>
	a) Rural	1079797
	b) Urban	141792

<b>LAND UTILIZATION OF HIMACHAL PRADESH 2003-04</b>		
<i>(Area in km<sup>2</sup>)</i>		
<b><i>1</i></b>	<b><i>2</i></b>	<b><i>3</i></b>
1	Geographical Area (by professional survey)	55673
2	Area by Village Paper (Revenue Record)	45442
3	Forest Area (As per Forest Records)	37033
4	Land put to Non-agricultural uses	4535
5	Net area sown	5405
6	Fallow Lands (Current & other fallows)	727
7	Culturable Wastes	1284
8	Land under misc. tree crops not included in cultivation	625
9	Permanent pastures & other grazing lands including alpine pastures, barren & un-culturable wastes etc.	6064

Note : The data is based on figures collected from Director of Land Record H.P. Shimla except item No. 3 & 9. Item No. 3 as per Forest Department record and figure given in item No 9 are the balance areas i.e. the total Geographical area (by professional survey) minus the sum of area given in serial No. 3 to 8.

<b>STATE REVENUE viz-à-viz FOREST REVENUE &amp; EXPENDITURE (2007-08)</b> (Rs. in lakh)		
<b>1</b>	<b>2</b>	<b>3</b>
1	State Revenue ( Revised Estimates )	380030
2	Forest Revenue	5360
3	Forestry Expenditure	
	i) Non-plan Expenditure	12527
	ii) Plan Expenditure	12005
	iii) Capital Outlay	633
	<b>Total Forestry Expenditure</b>	<b>25165</b>

<b>FOREST REVENUE AND EXPENDITURE (1997-98 to 2007-08)</b> (Rs. in lakh)						
Year	Revenue	Expenditure				Net surplus over Non-plan expenditure
		Non -Plan	Plan	Capital Outlay	Total	
1	2	3	4	5	6	7
1997-98	4115	4541	6646	401	11588	(-)426
1998-99	998	9161	8544	594	18299	(-)8163
1999-2k	66937	10584	9480	568	20632	56353
2000-01	1654	13296	8866	353	22515	(-)11642
2001-02	2898	12936	8687	329	21952	(-)10038
2002-03	3152	26001	8261	318	34580	(-)22849
2003-04	7693	9939	5037	342	15318	(-)2246
2004-05	10217	9500	5758	325	15583	717
2005-06	14963	9284	9251	748	19283	5679
2006-07	4555	10051	12287	579	22917	(-) 5496
2007-08	5360	12527	12005	633	25165	(-) 7167

<b>FOREST CLASSIFICATION - 2006-07</b>		
<i>Category</i>	<i>Area</i>	<i>Percentage to Total</i>
<i>1</i>	<i>2</i>	<i>3</i>
<b>CLASSIFICATION BY</b>		
<b>A - LEGAL STATUS</b>		
Reserved Forests	1898	5.1
Demarcated Protected Forests	11841	31.9
Un-demarcated Protected Forests	21219	57.3
Un-Classed Forests	977	2.7
Other forests managed by Forest Department	369	1.0
Not managed by Forest Department	729	2.0
<b>Total</b>	<b>37033</b>	<b>100.0</b>
<b>B - OWNER SHIP</b>		
State Owned Forests	35934	97.0
Cantonment & Municipal Forests	24	0.1
Private Individual Forests	1075	2.9
<b>Total</b>	<b>37033</b>	<b>100.0</b>
<b>C - CROP COMPOSITION</b>		
Coniferous	9026	24.4
Broad Leaved/Scrub	7382	19.9
Waste, Blank, Pasture & Snow Bound Areas	20625	55.7
<b>Total</b>	<b>37033</b>	<b>100.0</b>
<b>D - MANAGEMENT STATUS</b>		
Area covered under Working Plans	24909	67.3
Area not covered under Working Plans including Alpine pastures & parts of UPFs	12124	32.7
<b>Total</b>	<b>37033</b>	<b>100.0</b>
<b>E - DENSITY DISTRIBUTION OF FORESTS</b>		
- Forest Area Legally Defined	37033	100.0
- Dense Forests (crown density > 40%)	8928	24.1
- Open Forests (crown density 10% -<40%)	5441	14.7
- Forest blanks with crown density < 10%	6288	17.0
- Un-culturable barren land (alpine pasture, snow area etc.)	16376	44.2

<b>F- FOREST AS PER CROWN DENSITY (SFR-FSI)</b>				
<i>(Area in km<sup>2</sup>)</i>				
Year of Survey	Dense Forests (Crown density > 40%)	Open Forests (Crown density 10% - <40%)	Total Forest Cover	Total Forest Area
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>
1991	8911	2869	11780	37591
1993	9565	2937	12502	35407
1995	9565	2936	12501	35518
1997	9560	2961	12521	36986
1999	9120	3962	13082	37033
2001	10429	3931	14360	37033
2003	8976	5377	14353	37033
2005	8928	5441	14369	37033

<b>G- ACTUAL FOREST COVERS 2005 ASSESMENT OF H.P.</b>		
<i>(Area in km<sup>2</sup>)</i>		
1	Geographical Area	55673
2	Actual Forest Cover	14369
3	Percentage of Actual Forest Cover to Geographical Area	25.8

<b>H- RECORDED FOREST AREA AND ACTUAL FOREST COVER (2005) ASSESMENT COMPARITIVE SITUATION OF HIMACHAL PRADESH</b>		
1	Recorded Forest Area	37033
2	Actual Forest Cover	14369
3	Percentage of Actual Forest Cover	38.8

<b>I- PER CAPITA ACTUAL FOREST COVER OF HIMACHAL PRADESH</b>		
1	Actual Forest Cover	14369
2	Population	6077900
3	Per Capita Forest Cover (ha.)	0.24

<b>J - FOREST COVER COMPARATIVE SITUATION OF H.P. (2003 &amp; 2005)</b>		
1	2003 Assessment based on imagery 2001	14353
2	2005 Assessment based on imagery 2003	14369
3	Difference	16

<b>FOREST RESOURCES IN HIMACHAL PRADESH</b>					
<b>A- FOREST AREA AND POPULATION (2006-07)</b>					
Name of District	Geographical area by professional survey (km <sup>2</sup> )	Forest area (km <sup>2</sup> )	% of Forest area to Geographical area in the District	% of Forest Area in the District	Population As per 2001 Census
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
Bilaspur	1167	428	36.7	1.1	340885
Chamba	6528	5030	77.5	13.7	460887
Hamirpur	1118	219	19.6	0.6	412700
Kangra	5739	2842	49.5	7.7	1339030
Kinnaur	6401	5093	79.6	13.8	78334
Kullu	5503	4952	89.9	13.4	381571
Lahaul- Spiti	13835	10133	73.2	27.3	33224
Mandi	3950	1860	47.1	5.0	901344
Shimla	5131	3418	66.6	9.2	722502
Sirmour	2825	1843	65.2	5.0	458593
Solan	1936	728	37.6	1.9	500557
Una	1540	487	31.6	1.3	448273
<b>Total</b>	<b>55676</b>	<b>37033</b>	<b>66.5</b>	<b>100.0</b>	<b>6077900</b>

<b>B- SPECIESWISE AREA, GROWING STOCK AND YIELD OF IMPORTANT SPECIES - 2006-07</b>			
Name of Species	Forest Area (km <sup>2</sup> )	Growing Stock ('000 m <sup>3</sup> )	Annual Yield (00 m <sup>3</sup> )
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Deodar	890	16517	1736
Kail	698	13365	1320
Chil	1346	12481	981
Fir/Spruce	1029	39364	2430
Sal	190	4852	280
Ban Oak	596	5949	156
Mohru Oak	32	201	n.p
Kharsu	118	1717	21
Mapple	n.a	298	12
Walnut	n.a	126	2
Bird-Cherry	n.a	15	n.p
B.L. Species	533	5217	30
<b>Total :</b>	<b>5432</b>	<b>100102</b>	<b>6968</b>

**Note:** - Figures in part "B" above as prescribed in various working plans.

**OUTTURN OF FOREST PRODUCE AND THEIR  
CONTRIBUTION TO FOREST REVENUE**

**A - OUTTURN (2005-06 & 2006-07)**

Name of Produce	Quantity		Estimated Value (Rs. in lakh)	
	2005-06	2006-07	2005-06	2006-07
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>
Timber (m <sup>3</sup> )	414105	236265	64554.85	39522.51
Firewood (Ton)	4690	4010	186.92	156.43
Charcoal (Ton)	110	165	9.44	10.61
Resin (Ton)	8508	8591	641.77	753.47
Bamboos (ha)	1889	555	10.90	15.49
Bhabbar Grass (Ton)	397	614	1.50	1.49
Grazing/Fodder (Ton)	-	-	9.83	8.18
Medicinal -herbs (Ton)	1744	1244	423.80	494.25
Other Minor Produce (Ton)	-	-	99.06	32.22
Khair (Ton)	1841	1526	88.36	73.25
<b>Total :</b>	-	-	<b>66026.43</b>	<b>41067.90</b>

**B - SOURCES OF FOREST REVENUE**

Name of Produce	Revenue collected ('000 Rs.)		
	2005-06	2006-07	2007-08
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
1. Timber and other Forest Produce removed from forests by Govt. Agency	3851	1522	5478
2. Sale of timber and other forest produce removed from forests by consumer/purchaser	448010	271071	344005
3. Drift and Waif wood	-	30	816
4. Sale of timber and other forest produce removed from forests other than HPSFC	67274	47682	46414
5. Minor Forest Produce including Medicinal Plants	3064	3555	346
6. Grazing and Grass Cutting	1076	1056	1202
7. Miscellaneous Products	972793	130482	137708
8. Revenue from forests not managed by Government.	241	83	9
<b>Total :</b>	<b>1496309</b>	<b>455481</b>	<b>535970</b>

<b>ACHIEVEMENT UNDER PLANTATION SCHEMES DURING 2005-06 &amp; 2006-07</b>				
<b>Name of Scheme</b>	<b>Achievements</b>			
	2005-06		2006-07	
	Phy. (ha)	Fin. (Rs.in lakh)	Phy.(ha)	Fin. (Rs.in lakh)
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1. Pasture and Grazing	458	56.47	553	58.08
2. Afforestation in Blank Areas	3444	448.32	3984	488.51
3. Enrichment Plantation	2950	361.58	3208	375.47
4. Re-afforestation in scrub area	981	156.63	1107	165.81
5. Plantation under Sanjhi Van Yojna	613	91.98	481	46.34
6. Backward area Sub Plan	870	85.36	631	88.88
7. FDA (Samridhi Yozna )	3821	-	3717	-
8. Compensatory Plantation	1161	-	752	-
9. IWDP/MHWDP	118	-	2082	-
10. Re-generation of Forests	21	-	80	-
11. Plantation under CAT Plan	970	-	1824	-
12. Plantation by DFID Project	640	-	1153	13.34
13. Other Plantation Scheme	940	-	1179	127.51
<b>Total :</b>	<b>16987</b>	<b>1200.34</b>	<b>20751</b>	<b>1363.94</b>

<b>ACHIEVEMENTS UNDER MAIN PLANTATION SCHEMES OF SOIL CONSERVATION SECTOR DURING 2005-06 &amp; 2006-07</b>				
<b>Name of Scheme</b>	<b>Achievements</b>			
	2005-06		2006-07	
	Phy.(ha.)	Fin.(Rs. in lakh)	Phy.(ha.)	Fin. (Rs.in Lakh)
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>A. STATE SECTOR</b> Protective afforestation, Soil Conservation and Demonstration	888	139.94	782	101.93
<b>B. CENTRAL SECTOR</b> Micromanagement of Agriculture Supplementation/Complementation of State efforts through work plan	1275	408.80	3205	764.85
<b>Total State &amp; Central Sector :</b>	<b>2163</b>	<b>548.74</b>	<b>3987</b>	<b>866.78</b>

<b>AMOUNT INVESTED UNDER FORESTRY, WILDLIFE AND SOIL CONSERVATION STATE SECTOR SINCE FIRST FIVE YEAR PLAN</b>			
<b>S.No.</b>	<b>Plan Period</b>	<b>Amount invested (Rs. in lakh)</b>	<b>Area Afforested (ha.)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1	First Five Year Plan (1950-56 )	18.19	5294
2	Second Five Year Plan (1956-61)	78.26	17926
3	Third Five Year Plan (1961-66)	438.00	40187
4	Annual Plans (1966-69 )	310.00	27321
5	Fourth Five Year Plan (1969-74)	929.48	73349
6	Fifth Five Year Plan (1974-78)	1308.00	73599
7	Annual Plans (1978-79 & 1979-80 )	1095.00	44897
8	Sixth Five Year Plan (1980-85)	4698.00	120399
9	Seventh Five Year Plan(1985-90)	10883.00	163826
10	Annual Plans (1990-91 & 1991-92)	6475.00	58945
11	Eighth Five Year Plan (1992-97)	23420.00	142732
12	Ninth Five Year Plan (1997-2002)	39658.77	131850
13	Tenth Five Year Plan (2002-07)	38455.67	86341

<b>FOREST PLANTATIONS RAISED FROM 1950-51 ONWARDS BY SPECIES</b>				
<i>(Area in ha.)</i>				
Name of species	Area Planted from 1950-51 to 2004-05	Plantation raised during		Total area of Plantations as on 31-03-2007
		2005-06	2006-07	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Deodar	119075	4214	4597	127886
Kail	12166	165	206	12537
Fir/Spruce	17554	264	197	18015
Chil	276718	1806	1576	280100
Other Conifer.	113	-	-	113
Walnut	3950	-	-	3950
Willow	10002	156	182	10340
Khair	164892	2374	2116	169382
Shisham	18761	659	761	20181
Bamboo	6296	397	825	7518
Mulberry	1378	-	-	1378
Poplar	14604	201	61	14866
Robinia	47376	944	1206	49526
Lucenia	2065	233	954	3252
Kachnar	-	396	765	1161
Other B.L. Species	247828	7341	11292	266461
<b>Total :</b>	<b>942778</b>	<b>19150</b>	<b>24738</b>	<b>986666</b>

<b>FORESTRY ADMINISTRATIVE UNITS AS ON 31.03.2008</b>								
<b>Offices</b>	<b>Divisions</b>		<b>Ranges</b>		<b>Blocks</b>		<b>Beats</b>	
	(T)	(F)	(T)	(F)	(T)	(F)	(T)	(F)
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>Principal Chief Conservator of Forests, H P</b>								
CCF (M & E), Sunder Nagar	-	-	-	-	-	-	-	-
CF (Research)	-	-	-	-	-	-	-	-
DCF (Hqrs)	-	-	-	-	-	-	-	-
CF Bilaspur	4	-	19	-	58	-	226	-
CF Chamba	5	-	18	-	57	-	201	-
CF Dharamshala	5	-	23	-	83	-	335	-
CF Kullu	4	-	16	1	43	-	139	-
CF Mandi	5	-	24	-	77	-	294	-
CF Nahan	5	-	22	-	69	-	270	-
CF Rampur	5	1	18	-	52	-	172	-
CF Shimla	4	-	22	1	63	2	230	-
<b>Add. Principal Chief Conservator of Forests (APD)</b>								
CCF (Administration & HRD)	-	-	-	-	-	-	-	-
CCF (Planning & Finance)	-	-	-	-	-	-	-	-
CF (MIS & PG)	-	1	-	3	-	-	-	-
<b>Add. Principal Chief Conservator of Forests (Projects)</b>								
CCF (WP), Mandi	-	4	-	-	-	-	-	-
CCF (FCA)	-	-	-	-	-	-	-	-
CF (Projects)	-	2	-	-	-	-	-	-
<b>Add. Principal Chief Conservator of Forests (CAT Plan)</b>								
CCF (SC & LRM)	-	2	-	-	-	-	-	-
CF (CAT Plan)	-	-	-	-	-	-	-	-
<b>Add. Principal Chief Conservator of Forests (PFM&amp;FDA), Hamirpur</b>								
CCF (FM, Industry & Law)	-	-	-	-	-	-	-	-
CCF (PS & Audit)	-	-	-	-	-	-	-	-
CF (Policy & Law)	-	-	-	-	-	-	-	-
<b>Chief Project Director (MHWDP)</b>								
Regional Project Director, Bilaspur	-	5	-	-	-	-	-	-
Regional Project Director, D/Shala	-	6	-	-	-	-	-	-
<b>Principal Chief Conservator of Forests (Wildlife) Shimla</b>								
CCF (Eco-Tourism & NTFP)	-	-	-	-	-	-	-	-
CF (Eco-Tourism)	-	-	-	-	-	-	-	-
CCF (Protected Area & Bio-diversity)	-	-	-	-	-	-	-	-
DCF (Hqrs.)	-	-	-	-	-	-	-	-
CF WL, Dharamshala	2	-	5	1	10	-	32	-
CF WL Shimla	3	-	13	-	26	-	60	-
CF GHNP, Shamshi	1	-	8	-	22	-	57	-
<b>Total :</b>	<b>43</b>	<b>21</b>	<b>188</b>	<b>6</b>	<b>560</b>	<b>2</b>	<b>2016</b>	<b>-</b>

*(T) - Territorial (F) - Functional*

<b>FORESTRY PERSONNEL IN POSITION AS ON 31-03-2008</b>		
1	Indian Forest Services Officers	103
2	State Forest Services Officers	116
3	Other Technical/ Professional Officers	36
4	Forest Rangers	212
5	Deputy Rangers	792
6	Forest Guards	2586
7	Other Technical Staff	248
8	Ministerial and Class-IV Employees	5296
	<b>Total :</b>	<b>9389</b>

<b>NUMBER OF OFFICE, RESIDENTIAL &amp; OTHER BUILDINGS OF THE FOREST DEPARTMENT AS ON 31-3-2007</b>		
<b>Sr. No.</b>	<b>Type of Buildings</b>	<b>Number</b>
1.	Office Buildings	306
2.	Forest Rest Houses	249
3.	Inspection Huts	168
4.	Check Posts	44
5.	Residential Buildings i.e. Type-I to Type-VI	2873
6.	Other Buildings i.e. Seed Store, Garage and out houses etc.	810
	<b>Total :</b>	<b>4450</b>

<b>FOREST ROADS AND BRIDLE PATHS IN H.P. AS ON 31-03-2006</b>		
<b>Name of Circle</b>	<b>Roads (in kms)</b>	<b>Bridle Path (in kms)</b>
<b>1</b>	<b>2</b>	<b>3</b>
1. Bilaspur	159.20	236.80
2. Chamba	122.60	1701.90
3. Dharamshala	434.00	248.70
4. Kullu	111.20	375.10
5. Mandi	287.80	481.10
6. Nahan	185.10	32.80
7. Rampur	112.90	250.40
8. Shimla	353.90	1250.30
9. WL (North) Dharamshala	62.00	255.90
10. WL (South) Shimla	56.30	348.50
11. GHNP, Kullu	16.20	196.80
12. Projects	1.80	0.70
13. XEN (Forests)	1.10	-
<b>Total :</b>	<b>1904.10</b>	<b>5379.00</b>

<b>INFORMATION OF BOUNDARY AND CHAK PILLARS AS ON 31-12-2007</b>				
<b>Sr. No.</b>	<b>Name of Circle</b>	<b>No. of Boundary Pillars</b>	<b>No. of Chak Pillars</b>	<b>Total No. of Boundary &amp; Chak Pillars</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1.	Bilaspur	20,219	4,148	24,367
2.	Chamba	95,079	22,836	1,17,915
3.	Dharamshala	11,151	5,117	16,268
4.	Kullu	8,397	4,614	13,011
5.	Mandi	76,151	9,344	85,495
6.	Nahan	30,642	3,498	34,140
7.	Rampur	8,300	14,069	22,369
8.	Shimla	17,731	9,747	27,478
9.	WL (S) Shimla	1,811	659	2,470
10.	WL (N) Dharamshala	1,085	304	1,389
11.	GHNP, Kullu	5,381	909	6,290
	<b>Total :</b>	<b>275,947</b>	<b>75,245</b>	<b>351,192</b>

## WILD LIFE

### 1. Number of

i) Wild Life Sanctuaries	33
ii) National Parks	2

### 2. Protected Important Wild Species

#### *a) Birds*

1. Shikra (Accipiter Spp)
2. Black Necked Crane ( Grusnigricollis)
3. Black Partridge(Francolinus)
4. Cheer Pheasants (Cartreus Wollichii)
5. Spotted Owlet (Athene Blewettii)
- 6 Hawks (Eagle Spizaetusnipalensis)
7. Grey Horn Bill ( Tockus Birostris)
8. Geese (Anser Spp)
9. Kaleej Pheasants (Lophura Leuaomelana)
- 10 Lammergeier ( Gypaeatus Barbatus)
- 11 Large Whistling Teal (Dendrocygna Bicolor)
12. Monal Pheasants (Lophophorousimpejanus)
- 13 Mountain Quail (Ophrysia Superciliosa)
- 14 Ospreys (Pandion Haliaetus)
15. Peacock Pheasants (Polyplectron Bicalcaratum)
- 16 Pea Fowl ( Pavocristatus)
17. Siberian White Crane (Grus Leucogeranus)
18. Tibetan Snow Cock(Tetraogallus Tibetanus)
19. Western Tragopan Pheasants ( Tragopan Melanocephalus)
20. White Spoon Bill (Platalea Leucorodia)

#### *b) Animals*

1. Bharal (Ovis Nahura)
2. Caracal (Felis Caracal)
3. Clawless Otter (Aonyx Cineria Viverriana)
4. Fishing Cast ( Felis)
5. Himalayan Brown Bear ( Ursus Arctos)
6. HimalyanThar (Hemitragus lemlahicus)
7. Himalayan Ibex (Capra Ibex)
8. Indian Wolf ( Canislupus palliper)
9. Kashmiri stag (Cervus Elaphus Hanglu)
10. Leopard Cat (Felis Bengalensis)
11. Leopard or Panther (Panther Pardus)
12. Lynx (Felis Lynx Isabellinus)
13. Marlkhori (Capra Falconeri)
14. Musk Deer (Moschus Moschiferus)
15. Nyan or Great Tibetan hSeep (Ovis Ammon Hodgrosonii)
16. Panogolin (Anis Crassicaudata)
17. Serow ( Capricornis Sumatraensis)
- 18 Snow Leopard ( Panthero Uncia)
19. Tibetan Fox (Vulpes Ferrilatus)
20. Tibetan Wild Ass ( Equus Hemionus)
21. Tiger (Panthera Tigris)
22. Tibetan Wolf (Canis Lupus Chonco)
23. Wild Yak ( Bos Qraniens)

#### *c) Reptiles*

1. Barred Oval or Yellow Monitor Lizard ( Vardnus Flavescens)
2. Crocodiles (Crocodylus Porosus and Crocodylus Palustris)
3. Terrapin (Batgur Baska)

### 3. List Of Vermin

1. Common Crow
2. Fruit Bat
3. Mice
4. Rat

## PHEASANTS OF HIMACHAL PRADESH

**Worldwide, the pheasants-as a group of birds are represented by 51 species all of which, save one, have originated and thrived in Asia. India accounts for 17 species one-third of the World's total number of pheasants.**

**Himachal Pradesh has seven pheasants out of the seventeen, found in India.**

***These are:-***

Sr. No	Name of Pheasant	Distribution in H.P.
<b>1</b>	<b><i>Himalayan Monal</i></b> ( <i>Lophophorus impeyanus</i> )	Shimla, Kullu, Kinnaur, Mandi, Kangra, Chamba & Sirmour Districts
<b>2</b>	<b><i>Western Tragopan</i></b>	Shimla & Kullu Districts.
<b>3</b>	<b><i>Koklas Pheasants</i></b> ( <i>Pucrasia macrolophor</i> )	Shimla, Kullu, Kinnaur, Mandi, Kangra, Chamba & Sirmour Districts.
<b>4</b>	<b><i>Cheer Pheasants</i></b> ( <i>Catreus wallichii</i> )	Shimla, Chamba & Kullu Districts.
<b>5</b>	<b><i>Kaleej Pheasants</i></b> ( <i>Lophura leucomelana</i> )	Shimla, Kullu, Kinnaur, Mandi, Kangra, Chamba & Sirmour Districts.
<b>6</b>	<b><i>Red Jungle Fowl</i></b> ( <i>Gallus gallus</i> )	Shimla, Solan, Bilaspur, Una, Kangra, Hamirpur, Chamba & Sirmour Districts.
<b>7</b>	<b><i>Indian Peafowl</i></b> ( <i>Pavo cristatus</i> )	Shimla, Solan, Kullu, Bilaspur, Kangra & Sirmour Districts.

<b>BIO-GEOGRAPHIC ZONES AND PROVINCES IN HIMACHAL PRADESH</b>			
<b>Sr. No.</b>	<b>BIO-GEOGRAPHIC ZONE</b>	<b>PROVINCES</b>	<b>PROTECTED AREA</b>
<b>1.</b>	<b>2.</b>	<b>3.</b>	<b>4.</b>
<b>1</b>	<b>Trans Himalayas</b>	1. Ladakh Mountains 2. Tibetan Plateau	Pin Valley National Park, Kaza & Kibber Wildlife Sanctuary
<b>2</b>	<b>The Himalayas</b>	1. North West Himalayas	Bandli, Gamgul, Siyabehi, Kais, Kalatop, Khajjar, Kanawar, Khokhan, Kugti, Manali, Sechu-Tuan Nala, Shikari Devi, Tirthan, Tundah, Sainj WL Sanctuaries Lipa-Asrang, Nargu, Rupi-Bhaba, Dhauladhar & Great Himalayan National Park, Kullu.
		2. West Himalayas	Churdhar, Chail, Daranghati, Majathal, Rakchham-Chitkul, Shilli, Shimla Water Catchment, Talra WL Sanctuaries
<b>3</b>	<b>Semi-Arid</b>	1. Punjab Plains	Govindsagar, Pong Dam, Naina Devi, Renuka, Simbalbara WL Sanctuaries.