

OFFICE OF THE CHIEF WILDLIFE WARDEN, RAJASTHAN, JAIPUR

Wild Animals Population Estimation by Waterhole Method for the Year 2019

S. No.	Species Code	Local Name	English Name (Scientific Name)	Wildlife Controlled Areas	Territorial Controlled Areas	Total
Population Estimation: 18-19/05/2019						
A	B	C	D	E	F	G
1	116B	बघेरा	Leopard or Panther (<i>Panthera pardus</i>)	391	246	637
2	1131C	रीछ	Sloth Bear (<i>Melaursus ursinus</i>)	515	140	655
3	1115	भेडिया	Indian Wolf (<i>Canis lupus pallipes</i>)	97	770	867
4	221A	बिज्जू	Civets (<i>Viverridae</i> spp.)	443	824	1267
5	118A	चौसिंगा	Four-horned antelope (<i>Tetracerus quadricornis</i>)	461	26	487
6	305	चीतल	Chital (<i>Axis axis</i>)	3851	76	3927
7	115B	चिंकारा	Indian Gazelle (<i>Gazelle gazelle benetti</i>)	9750	32840	42590
8	114	जरख	Hyena (<i>Hyena hyena</i>)	860	1828	2688
9	222C	जंगली बिल्ली	Jungle Cat (<i>Felis Chaus</i>)	1011	3451	4462
10	3019	जंगली सूअर	Wild Pig (<i>Sus Scrofa</i>)	6470	10463	16933
11	112	काला हिरण	Black Buck (<i>Antelope cervicapra</i>)	5955	19343	25298
12	214A	लंगूर	Common langur (<i>Presbytis entellus</i>)	17128	18763	35891
13	116C	लोमड़ी	Fox / Desert Fox (<i>Vulpes bucapus</i>)	1616	6715	8331
14	2216	नेवला	Mongoose (<i>Herpestes</i> spp)	966	2780	3746
15	3014	रोजडा	Nilgai (<i>Boselaphus tragocamelus</i>)	12837	64900	77737
16	3016	सांभर	Sambhar (<i>Cervus unicolor</i>)	680	239	919
17	404E	सेही	Indian porcupine (<i>Hystrix indica</i>)	817	2571	3388
18	222B	सियार / गीदड	Jackal (<i>Canis aureus</i>)	2989	19530	22519
TOTAL				66837	185505	252342

Note:- (1) This population estimation has been done in forest areas and Protected Areas other than the Tiger Reserves (The population estimation in Tiger Reserves is done by a different method). Population of wild animals living in rest of the State has not been estimated.

(2) Waterhole population estimation is a direct sighting record and only those animals are counted which visit the waterholes when observation teams are present. In this method, observations on sighting are taken at water holes (during summer) for 24 hours preferably from 6 PM to 6 PM on full moon days and the assumption is that every animal will compulsorily visit the waterholes under observation and do so only.

(3) This technique is useful for examining trends of population and create awareness and interest about wild animals in the people. Full counting of wild animals is not possible due to their wide distribution, numbers, movement patterns, visibility issues, etc.

(4) Due to rainfall during the period of estimation, there was availability of water at several places where no observation teams were present and hence many animals must not have been sighted. Moreover, some animals may visit waterholes outside the Forests / Protected Areas and these are not estimated.

(Arindam Tomar)

Addl. Pr. Chief Conservator of Forests &
Chief Wildlife Warden, Rajasthan, Jaipur.

Wild Life Population Estimation by Waterhole Method for the Year-2019 Inside Protected Area / Wildlife Controlled Areas

S.No.	Species Code	Local Name	English Name (Scientific Name)	Bandh Baretha Sanctuary	Bassi Sanctuary	Bhainsrodgarh Sanctuary	Nature Park Baghdara	National Chadiyal Sanctuary	Desert National Park Sanctuary	Jhalana Leopard Safari	Jaisamand Sanctuary	Jamwa Ramgarh Sanctuary	Jawai Dam Panther Conservation Reserve	Koladeo National Park	Kumbhalgarh Sanctuary	Kesarbagh Sanctuary	Mount Abu Sanctuary	Nahargarh Sanctuary	Phulwari Nal Sanctuary	Ramgarh Vishdhar Sanctuary
A	B	C	D	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	116B	बघेरा	Leopard or Panther (<i>Panthera pardus</i>)	0	13	11	1	0	0	28	13	12	32	0	119	2	47	7	21	5
2	113IC	रीछ	Sloth Bear (<i>Melaursus ursinus</i>)	0	0	1	0	3	0	0	0	0	6	0	187	8	200	0	29	10
3	1115	भेड़िया	Indian Wolf (<i>Canis lupus pallipes</i>)	0	0	11	0	19	0	0	0	0	0	2	0	0	0	0	0	0
4	221A	विज्जू	Civets (<i>Viverridae</i> spp.)	14	0	58	2	4	0	6	55	6	13	17	44	0	137	0	49	5
5	118A	चौसिघा	Four-horned antelope (<i>Tetracerus quadricornis</i>)	0	26	0	0	6	0	0	0	0	0	0	102	0	0	0	25	0
6	305	चीतल	Chital (<i>Axis axis</i>)	0	82	6	6	0	0	16	32	2	0	3560	0	0	0	0	0	31
7	115B	चिकारा	Indian Gazelle (<i>Gazelle gazelle benetti</i>)	0	138	2	0	0	1538	0	77	0	39	0	7	0	0	0	0	0
8	114	जरख	Hyena (<i>Hyena hyena</i>)	24	28	39	0	87	0	7	12	22	20	17	141	13	87	38	53	5
9	222C	जंगली बिल्ली	Jungle Cat (<i>Felis Chaus</i>)	17	32	41	4	68	70	21	12	9	8	18	73	0	169	0	74	0
10	3019	जंगली सूअर	Wild Pig (<i>Sus Scrofa</i>)	0	535	309	0	300	784	0	112	84	41	138	342	71	530	0	30	66
11	112	काला हिरण	Black Buck (<i>Antelope cervicapra</i>)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	214A	लंगूर	Common langur (<i>Presbytis entellus</i>)	0	1676	896	35	0	0	94	696	0	124	0	5085	0	0	638	587	659
13	116C	लोमड़ी	Fox / Desert Fox (<i>Vulpes bucapus</i>)	12	35	39	0	32	386	31	16	3	10	0	68	3	33	4	66	0
14	2216	नेवला	Mongoose (<i>Herpestes</i> spp)	0	51	191	0	0	0	0	0	0	0	0	0	0	0	45	0	11
15	3014	रोजडा	Nilgai (<i>Boselaphus tragocamelus</i>)	215	744	401	29	639	510	390	96	504	68	702	1058	73	172	245	12	523
16	3016	सांभर	Sambhar (<i>Cervus unicolor</i>)	0	0	2	0	0	0	5	0	31	0	41	322	0	82	24	0	6
17	404E	सेही	Indian porcupine (<i>Hystrix indica</i>)	20	14	31	0	35	0	45	18	26	12	19	90	0	177	33	72	9
18	222B	सियार / गीदड	Jackal (<i>Canis aureus</i>)	204	176	183	2	390	0	35	58	138	23	346	343	37	194	21	135	22


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Wild Life Population Estimation by Waterhole Method for the Year-2019 Inside Protected Area / Wildlife Controlled Areas

S.No.	Species Code	Local Name	English Name (Scientific Name)	Ramsagar Sanctuary	Sajjanganth Sanctuary	Shergarh Sanctuary	Sitamata Sanctuary	Talchhapan Sanctuary	Todgarh Raoli Sanctuary	Van Vihar Sanctuary	Ummed Ganj Conservation Reserve	Nahargarh Biological Park	Abhedha Biological Park	Deer Park Chitgarh	Jodbeed Gadwala Conservation Reserve	Marudhara Biological Park Beshbhwal	Other Areas DCF(WL) Bikaner	Other Areas DCF (WL) Jaisalmer	Machia Forest Block Jodhpur	Guda Vishnolayan Conservation Reserve	Other Areas DCF(WL) Jodhpur	Total
A	B	C	D	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
1	116B	बघेरा	Leopard or Panther (<i>Panthera pardus</i>)	0	4	0	40	0	35	0	0	1	0	0	0	0	0	0	0	0	0	391
2	1131C	शेठ	Sloth Bear (<i>Melaursus ursinus</i>)	0	0	0	0	0	60	6	0	0	0	0	0	0	0	0	0	0	5	515
3	1115	मंढिया	Indian Wolf (<i>Canis lupus pallipes</i>)	0	0	26	0	7	20	7	0	0	0	0	0	0	0	0	0	0	5	97
4	221A	बिज्जू	Civets (<i>Viverridae</i> spp.)	0	11	15	0	0	4	0	0	3	0	0	0	0	0	0	0	0	0	443
5	118A	चौंसिधा	Four-horned antelope (<i>Tetracerus quadricornis</i>)	0	0	0	302	0	0	0	0	0	0	0	0	0	0	0	0	0	0	461
6	305	घीतल	Chital (<i>Axis axis</i>)	0	45	0	0	0	0	47	0	0	0	24	0	0	0	0	0	0	0	3851
7	115B	चिकारा	Indian Gazelle (<i>Gazelle gazelle benetti</i>)	0	0	111	0	116	0	0	0	0	2	0	293	26	629	1538	0	639	5553	10708
8	114	जरख	Hyena (<i>Hyena hyena</i>)	4	1	41	144	0	52	18	0	2	0	0	0	0	0	0	0	0	5	860
9	222C	जंगली बिल्ली	Jungle Cat (<i>Felis Chaus</i>)	0	5	31	161	34	92	2	1	2	1	0	1	0	2	59	3	0	5	1015
10	3019	जंगली सूअर	Wild Pig (<i>Sus Scrofa</i>)	26	1	224	936	53	284	121	2	0	5	0	89	15	692	784	93	17	0	6684
11	112	काला हिरण	Black Buck (<i>Antelope cervicapra</i>)	0	0	17	0	3180	0	0	0	0	0	0	0	0	252	0	0	972	2506	6927
12	214A	लंगूर	Common langur (<i>Presbytis entellus</i>)	0	138	379	3531	0	2225	0	0	72	8	285	0	0	0	0	0	0	0	17128
13	116C	लोमड़ी	Fox / Desert Fox (<i>Vulpes bucapus</i>)	10	0	50	197	139	0	8	0	2	0	0	25	0	28	386	2	8	58	1651
14	2216	नेवला	Mongoose (<i>Herpestes spp</i>)	0	0	16	526	0	0	0	0	0	0	11	0	0	0	0	13	35	115	1014
15	3014	रोजडा	Nilgai (<i>Boselaphus tragocamelus</i>)	37	35	223	1202	109	852	190	18	51	24	0	0	0	367	510	0	0	2838	12837
16	3016	सामर	Sambhar (<i>Cervus unicolor</i>)	0	15	0	25	0	104	7	0	0	0	16	0	0	0	0	0	0	0	680
17	404E	सेही	Indian porcupine (<i>Hystrix indica</i>)	0	9	23	108	13	44	0	0	0	0	0	0	0	1	0	16	3	18	836
18	222B	सियार / गीदड	Jackal (<i>Canis aureus</i>)	23	9	148	0	1	259	98	7	4	3	0	0	0	98	0	7	36	32	3032


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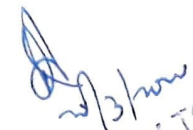
Wild Life Population Estimation by Waterhole Method for the Year-2019 Territorial Controlled Protected / Forest Areas of Rajasthan

S.No.	Species Code	Local Name	English Name (Scientific Name)	DCF Ajmer	DCF Alwar	DCF Banswara	DCF Baran	DCF Barmer	DCF Bharatpur	DCF Bhilwara	DCF Bikaner	DCF IGNP Div II Bikaner	DCF Bundi	DCF IGNP-I Chhatargarh	DCF Chittorgarh	DCF Churu	DCF Dausa	DCF Dhaulpur	DCF Dungarpur	DCF Sriganganagar	DCF Hanumangarh	DCF Jaipur
A	B	C	D	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	116B	बघेरा	Leopard or Panther (<i>Panthera pardus</i>)	2	4	39	0	0	0	10	0	0	1	0	5	0	7	0	29	0	0	0
2	1131C	रीछ	Sloth Bear (<i>Melaursus ursinus</i>)	1	0	0	2	0	0	6	0	0	0	0	8	0	0	4	0	0	0	0
3	1115	भेडिया	Indian Wolf (<i>Canis lupus pallipes</i>)	20	1	0	66	0	0	13	54	0	8	0	24	0	19	27	0	0	0	37
4	221A	बिज्जू	Civets (<i>Viverridae spp.</i>)	7	48	42	16	0	13	3	6	0	0	0	33	0	15	20	65	0	0	23
5	118A	चौंसिया	Four-horned antelope (<i>Tetracerus quadricornis</i>)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	305	घीतल	Chital (<i>Axis axis</i>)	0	12	0	18	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0
7	115B	चिकारा	Indian Gazelle (<i>Gazelle gazelle benetti</i>)	0	0	0	994	1732	0	232	6420	1193	41	2101	52	3447	0	0	0	2093	3141	0
8	114	जरख	Hyena (<i>Hyena hyena</i>)	15	52	218	106	0	33	28	0	0	16	0	85	0	70	73	76	0	0	61
9	222C	जंगली बिल्ली	Jungle Cat (<i>Felis Chaus</i>)	57	71	319	189	6	30	47	77	71	18	49	57	194	44	41	113	330	451	18
10	3019	जंगली सूअर	Wild Pig (<i>Sus Scrofa</i>)	106	445	701	695	0	36	153	90	382	0	0	440	0	21	291	2407	0	389	0
11	112	काला हिरण	Black Buck (<i>Antelope cervicapra</i>)	0	0	0	2141	0	0	12	0	0	70	0	0	11	0	0	0	4047	1500	0
12	214A	लंगूर	Common langur (<i>Presbytis entellus</i>)	1098	72	3390	1362	4	0	0	0	0	0	0	693	0	0	0	0	0	1	0
13	116C	लोमड़ी	Fox / Desert Fox (<i>Vulpes bucapus</i>)	30	51	645	282	0	0	86	24	254	17	299	85	512	100	62	165	1032	593	85
14	2216	नेवला	Mongoose (<i>Herpestes spp</i>)	229	0	0	0	0	0	0	1717	0	5	0	65	0	0	0	0	22	67	86
15	3014	रोजडा	Nilgai (<i>Boselaphus tragocamelus</i>)	2665	1248	1638	1017	766	785	1685	0	961	1381	1274	1009	1839	1460	775	2547	7200	2867	1230
16	3016	सांभर	Sambhar (<i>Cervus unicolor</i>)	3	66	0	1	0	0	0	0	0	0	0	0	0	13	0	0	0	0	8
17	404E	सेही	Indian porcupine (<i>Hystrix indica</i>)	153	99	231	20	8	20	59	0	145	4	17	18	0	37	19	132	307	172	55
18	222B	सियार / गीदड	Jackal (<i>Canis aureus</i>)	499	719	1684	980	2	622	657	91	355	174	358	546	0	958	663	251	1298	1060	340


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Wild Life Population Estimation by Waterhole Method for the Year-2019 Territorial Controlled Protected / Forest Areas of Rajasthan

S.No.	Species Code	Local Name	English Name (Scientific Name)	DCF Jaipur (North)	DCF Jaisalmer	DCF IGNP-II Jaisalmer	DCF Jalore	DCF Jhalawar	DCF Jhunjhunu	DCF Jodhpur	DCF Karauli	DCF Kota	DCF Nagaur	Territorial Areas Rajsamand	DCF Pali	DCF Pratapgarh	DCF Sawaimadhopur	DCF Sikar	DCF Sirohi	DCF Tonk	DCF Udaipur (North)	DCF Udaipur	Total
A	B	C	D	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	42
1	116B	बघेरा	Leopard or Panther (<i>Panthera pardus</i>)	23	0	0	0	0	2	0	0	0	0	12	8	13	5	5	26	0	32	23	246
2	1131C	रोछ	Sloth Bear (<i>Melaursus ursinus</i>)	0	0	0	59	0	0	0	0	0	0	2	3	0	0	0	46	0	7	2	140
3	1115	भेडिया	Indian Wolf (<i>Canis lupus pallipes</i>)	29	0	0	6	104	29	8	40	0	61	4	52	0	52	24	25	65	2	0	770
4	221A	बिज्जू	Civets (<i>Viverridae spp.</i>)	24	0	0	33	0	176	0	15	0	8	6	10	33	2	26	55	0	117	28	824
5	118A	चौसिंघा	Four-horned antelope (<i>Tetracerus quadricornis</i>)	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	26
6	305	चीतल	Chital (<i>Axis axis</i>)	0	0	0	0	9	0	0	0	17	0	0	0	0	0	0	0	0	9	0	76
7	115B	घिंकारा	Indian Gazelle (<i>Gazelle gazelle benetti</i>)	0	350	1548	330	237	390	3989	0	106	2717	0	635	0	0	893	147	52	0	0	32840
8	114	जरख	Hyena (<i>Hyena hyena</i>)	184	0	0	72	142	41	0	110	7	1	18	28	49	94	11	93	59	37	49	1828
9	222C	जंगली बिल्ली	Jungle Cat (<i>Felis Chaus</i>)	175	15	59	64	175	215	16	32	5	53	13	61	41	14	101	59	62	54	55	3451
10	3019	जंगली सूअर	Wild Pig (<i>Sus Scrofa</i>)	68	11	59	278	368	10	0	138	279	0	4	1542	119	31	4	1224	34	4	134	10463
11	112	काला हिरण	Black Buck (<i>Antelope cervicapra</i>)	0	0	0	0	54	0	1427	219	211	4794	0	4779	0	0	0	21	57	0	0	19343
12	214A	लंगूर	Common langur (<i>Presbytis entellus</i>)	0	0	0	1348	381	0	0	0	212	14	477	0	0	0	6736	2039	0	936	0	18763
13	116C	लोमड़ी	Fox / Desert Fox (<i>Vulpes bucapus</i>)	203	83	234	107	195	317	74	66	22	214	26	31	28	96	97	93	193	146	168	6715
14	2216	नेवला	Mongoose (<i>Herpestes spp</i>)	0	0	0	0	0	0	0	0	0	433	0	0	0	0	0	0	0	156	0	2780
15	3014	रोजडा	Nilgai (<i>Boselaphus tragocamelus</i>)	2801	209	831	1731	1268	3854	2498	886	659	6017	289	2641	566	1109	2343	1569	1938	641	703	64900
16	3016	सांभर	Sambhar (<i>Cervus unicolor</i>)	38	0	0	6	0	9	0	0	14	0	0	0	0	0	20	0	61	0	0	239
17	404E	सेही	Indian porcupine (<i>Hystrix indica</i>)	189	11	0	130	46	195	3	43	0	26	7	50	24	32	100	63	48	49	59	2571
18	222B	सियार / गीदड	Jackal (<i>Canis aureus</i>)	729	0	158	194	1049	999	56	887	262	135	78	649	421	541	403	307	920	198	287	19530


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