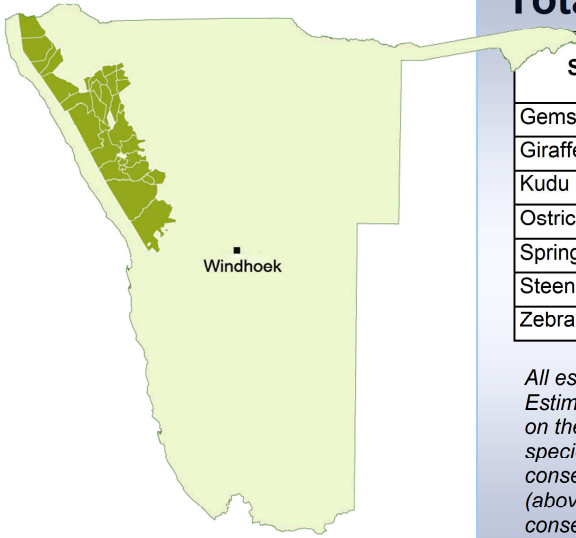


GAME COUNTS IN NORTH-WEST NAMIBIA

June 2013



Count area: 6.8 million ha

Total Population Estimates

Species	Population estimate	Lower 95% CL	Upper 95% CL
Gemsbok	29,835	22,369	39,793
Giraffe	1,870	-	-
Kudu	3,704	2,596	5,286
Ostrich	11,189	8,348	14,996
Springbok	93,214	72,700	119,520
Steenbok	19,013	14,403	25,099
Zebra	20,205	13,787	29,613

All estimates are derived using DISTANCE analysis. Estimates for individual conservancies (below) are based on the use of Effective Strip Widths (ESWs) for each species. Although total estimates derived from individual conservancies will be similar to regional total estimates (above), they will not be equal. All estimates are conservative estimates as, on average, 28% of the count area is not sampled (due to inaccessibility) and is consequently assumed to hold no animals.

Total number of animals seen each year

Species	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Baboon	108	116	203	135	555	165	567	239	310	390	172	510	548
Cheetah	5	1	7	7	14	2	4	7	6	3		5	3
Duiker	12	6	3	5	18	3	8		7	6	11	3	14
Eland	63	19		12	10	12	45	5	30		13	2	
Elephant	40	24	45	17	107	5	36	44	72	31	73	39	34
Gemsbok	1,616	2,698	3,483	2,749	3,506	2,612	3,898	2,609	2,652	2,755	2,166	3,248	2,413
Giraffe	215	232	189	281	213	296	268	231	253	441	362	420	336
Hyaena	2			1	7		4	3	1	10	2	1	9
Jackal	45	84	60	82	78	94	108	59	81	119	67	91	104
Klipspringer	3	14	20	17	34	15	24	5	19	21	9	45	27
Kudu	189	297	241	316	413	324	576	207	337	327	188	342	269
Ostrich	577	659	815	817	903	741	902	666	1,247	832	769	1,027	911
Rhino	1	1	7	2	9	2	9	6	3	4	3	10	8
Springbok	11,606	14,560	16,734	10,509	14,227	11,746	12,135	18,729	12,411	15,601	12,792	11,714	7,586
Steenbok	49	85	122	203	154	101	245	85	117	149	87	262	326
Warthog	6	14	8	7	13	11	13	2	2	3	6	8	12
Zebra	1,210	1,274	1,414	1,376	1,738	1,838	1,684	2,136	3,004	3,248	3,341	2,583	2,790

Animals seen during this count:

	Total	#Khoadi //Hoas	Anabeb	Doro //Nawas & Uibasen Twyfelfontein	Ehrovipuka	Etendeka	Gangu	Huab	Marienfluss	Ohungu	Okangundumba	Okondjombo	Omatendeka	Ombujokanguindi	Orupembe	Orupupa	Otjambangu	Otjikondavirongo	Otjimboyo	Otuzemba	Ozondundu	Palmwag	Puros	Sanitatas	Sesfontein	Sorris sorriss	Torra	Tsiseb
Total Route km	7,694	449	225	545	277	82	718	410	312	200	143	188	229	66	305	179	63	123	94	100	101	548	325	156	315	211	489	630
Total area (km2)	67,806	3,358	1,636	4,137	1,979	507	7,756	2,129	3,034	1,245	1,130	1,643	1,613	1,157	3,568	2,272	348	1,067	432	992	743	5,891	3,564	1,446	2,469	2,290	3,492	7,908
Number of routes	145	9	5	9	5	3	10	8	6	3	3	4	4	2	6	3	1	4	2	3	2	11	6	4	8	4	8	8
% area excluded	30	45	51	6	28	55	17	4	28	14	29	16	48	74	34	56	74	58	30	76	55	43	31	28	42	18	25	16
Species																												
Baboon	548	22				25	24	18	25			31	106			3	20	37			29	45			21	32	68	
Cheetah	3			1																				1	1			
Duiker	14				1		8	1		1						2												1
Eland	0																											
Elephant	34	6					8														12				8			
Gemsbok	2413	63	26	150	9	74		7	608			47	20		346		1		3		296	98	36	210	19	382	18	
Giraffe	336	39	17	10	14	17			9			4	53		2	10		11			44	28	5	33	12	28		
Hyaena	9			2					4			1													1		1	
Jackal	104	4	1	8	3	2	10		4	1		4	3	1	7	2			2	1	16	4	1	10	1	7	11	
Klipspringer	27	7					2	13													1	1	2	1				
Kudu	269	44	15	3	8	15	7	44		5	2		13		7	4	12			4	10	24	5	4	1	38		
Ostrich	911	30	15	24		2	3	10	61	22	28	32	24	40	84	61	18	6	18		6	91	138	12	30	21	117	18
Rhino	8			2																							6	
Springbok	7586	480	539	169	403	445	188	82	1,127	305	236	201	606	197	408	127	151	156	5		16	704	134	206	133	46	488	33
Steenbok	326	38	1	7	10	8	46	37	2	12	8	11	22		3	20	5	3	11	4	9	16	2	4	9	13	12	6
Warthog	12						2									10												
Zebra	2790	336	36	143	139	120	9	10	1			186	57								9	896	12	47	62	11	578	68

Population estimates for conservancies:

Estimates with no brackets are calculated using effective strip widths (ESW) for each species. This takes account of drop off in detection of animals with distance from the transect line. Estimates inside brackets are minimum estimates assuming all animals within 500m on each side of the transect line are detected, and represent an average over the past 3 years.

Species	#Khoadi //Hoas	Anabeb	Doro //Nawas & Uibasen Twyfelfontein	Ehrovipuka	Etendeka	Gangu	Huab	Marienfluss	Ohungu	Okangundumba	Okondjombo	Omatendeka	Orupembe	Orupupa	Otjambangu	Otjimboyo	Otuzemba	Ozondundu	Palmwag	Puros	Sanitatas	Sesfontein	Sorris sorriss	Torra	Tsiseb	
Gemsbok	(127) 274	(139) 299	(700) 1,504	(88) 189	(241) 517	(13) 28	(44) 95	(3,905) 8,396		(571) 1,228	(80) 172	(3,947) 8,487	(11) 24	(3) 6	(5) 10				(2,111) 4,539	(1,279) 2,749	(567) 1,219	(1,005) 2,161	(78) 168	(1,780) 3,828	(146) 315	
Giraffe	(94) 242	(21) 53	(20) 51	(180) 461	(81) 208			(6) 15		(17) 44	(56) 143	(18) 46	(12) 31	(1) 2	(1) 7	(3) 215	(84) 223	(9) 24	(56) 143	(17) 44	(55) 140					
Kudu	(234) 570	(32) 77	(13) 31	(33) 81	(67) 163	(21) 50	(214) 521		(26) 64	(21) 51	(18) 44	(29) 70	(16) 39	(33) 81	(6) 15	(1) 3	(2) 6	(18) 43	(39) 95	(12) 29	(2) 4	(6) 16	(15) 36	(245) 598		
Ostrich	(57) 124	(98) 214	(364) 794	(43) 93	(110) 12	(110) 238	(61) 134	(244) 532	(63) 137	(152) 331	(356) 776	(132) 288	(503) 1,096	(277) 604	(26) 58	(104) 225	(2) 5	(8) 17	(399) 870	(699) 1,524	(65) 142	(229) 500	(392) 855	(470) 1,025	(1,002) 2,185	
Springbok	(1,077) 2,079	(1,843) 3,557	(2,028) 3,913	(557) 1,074	(1,142) 2,204	(3,582) 6,914	(274) 5,711	(2,959) 5,711	(1,590) 3,068	(1,096) 2,116	(1,968) 3,798	(1,362) 2,629	(4,431) 8,552	(389) 750	(392) 757	(236) 454		(26) 51	(6,141) 11,852	(1,069) 2,063	(874) 1,686	(1,437) 2,774	(1,609) 3,107	(2,983) 5,756	(2,371) 4,577	
Steenbok	(136) 1,344	(5) 46	(23) 228	(59) 583	(11) 112	(268) 2,649	(92) 912	(10) 99	(61) 609	(70) 700	(48) 479	(44) 438	(38) 373	(91) 899	(7) 74	(27) 266	(6) 59	(16) 163	(28) 274	(5) 49	(10) 98	(13) 125	(104) 1,029	(48) 474	(153) 1,516	
Zebra	(465) 609	(562) 736	(731) 957	(237) 310	(525) 688	(27) 35	(43) 56	(73) 95		(4) 5	(1,674) 2,193	(131) 171	(319) 417	(2) 3					(6,831) 8,948	(133) 174	(527) 690	(233) 306	(28) 37	(2,283) 2,991	(363) 475	

Note: With estimates for springbok, gemsbok and giraffe, large groups were excluded from extrapolations and added afterwards. All conservancy estimates should be regarded as rough approximations and great care should be taken when using these data for quota setting. Estimates for Otuzemba are based only on route 1.

Trends:

