GAME COUNTS IN NORTH-WEST NAMIBIA

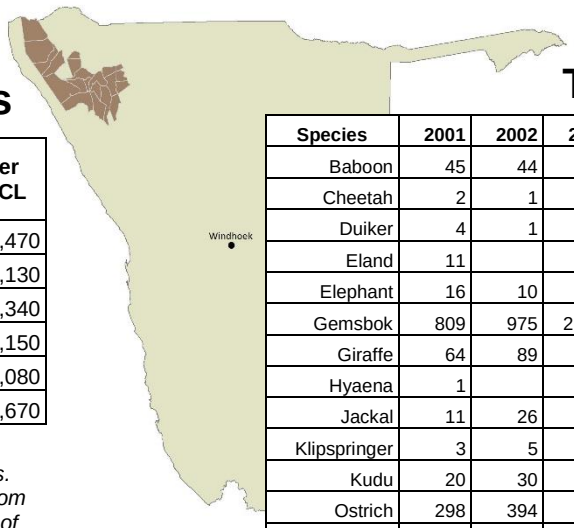
Conservancies north of the veterinary fence

June 2016

Total Population Estimates

Species	Population estimate	Lower 95% CL	Upper 95% CL
Gemsbok (HN)	7,240	4,570	11,470
Kudu (HN)	1,410	640	3,130
Ostrich (H)	5,120	3,570	7,340
Springbok (U)	56,140	38,360	82,150
Steenbok (H)	5,490	3,720	8,080
Hartmann's Zebra (U)	8,360	5,110	13,670

All above estimates are derived using DISTANCE analysis. This takes account of drop off in detection with distance from the transect line They are conservative estimates as 35% of the count area is not sampled (due to inaccessibility) and is consequently assumed to hold no animals. Model selection: U = uniform key; HN = half normal

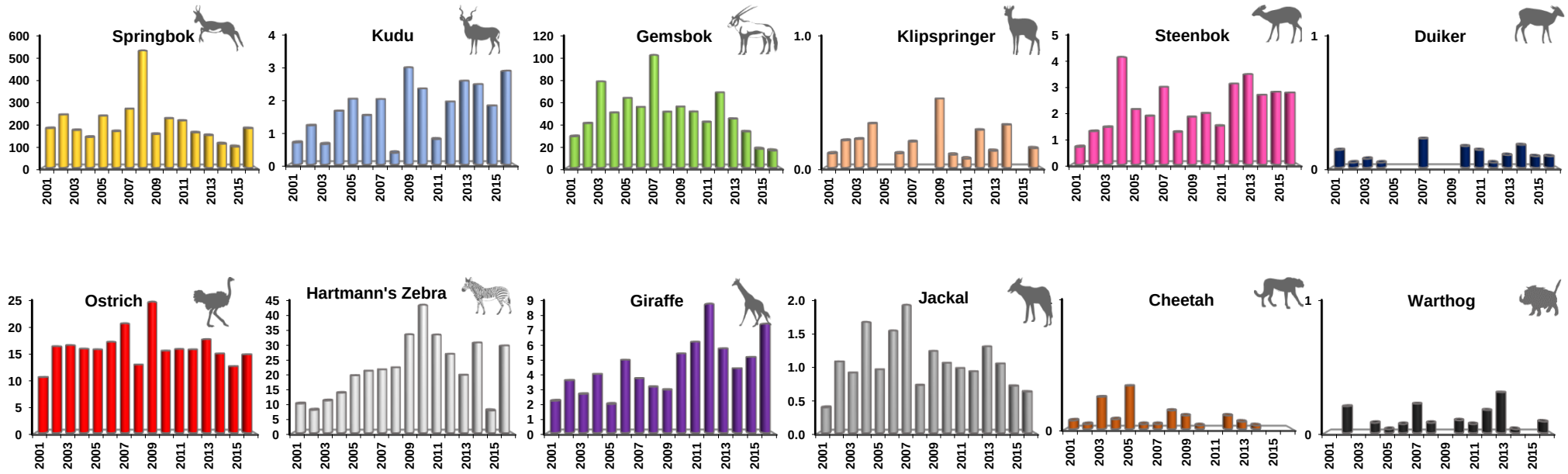


Count area: 2.8 million ha

Total number of animals seen each year

Species	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Baboon	45	44	55	73	253	61	234	105	105	125	17	136	272	123	235	331
Cheetah	2	1	7	2	10	1	1	4	3	1		3	2	1		
Duiker	4	1	2	1			6			5	4	1	3	6	3	3
Eland	11						36	5	30		13	2		2		16
Elephant	16	10	24	5	31	1	4	8	20	10	1	9	8	4	12	14
Gemsbok	809	975	2,152	1,348	1,845	1,508	2,649	1,337	1,580	1,493	1,257	1,911	1,401	1,101	575	524
Giraffe	64	89	75	111	59	140	99	85	86	163	182	252	186	152	178	256
Hyaena	1						2						6	1		1
Jackal	11	26	25	45	28	42	50	19	35	31	28	26	41	35	24	21
Klipspringer	3	5	6	9		3	5		15	3	2	8	4	11		5
Kudu	20	30	18	46	61	43	54	10	88	71	23	56	84	86	63	100
Ostrich	298	394	454	427	458	469	534	339	702	454	451	439	555	502	422	496
Springbok	5,078	5,823	4,692	3,748	6,865	4,527	6,939	13,999	4,342	6,569	6,136	4,463	4,640	3,662	3,210	6,015
Steenbok	20	32	41	115	64	53	80	34	54	60	44	90	113	93	97	96
Warthog		5		2	1	2	6	2		3	2	5	10	1		3
H. Zebra	283	189	302	367	568	576	558	585	950	1,271	970	748	619	1,028	256	993

Trends - Number of animals per 100km

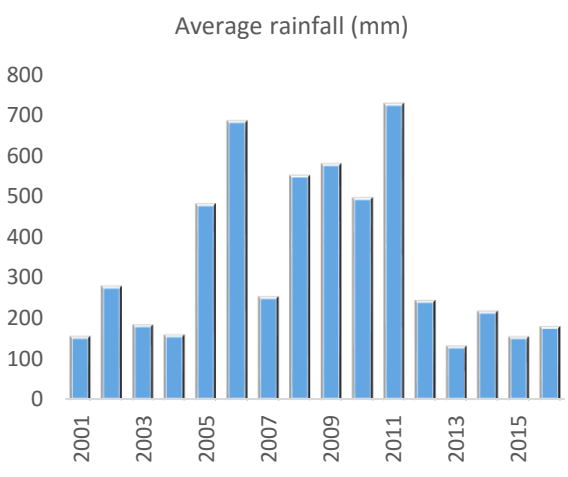


Animals seen during this count and minimum estimates

	Total	Anabeb	Ehi-Rovipuka	Marienfluss	Okangundumba	Okondjombo	Omatendeka	Ombujokanguindi	Ongongo	Orupembe	Orupupa	Otjambangu	Otjikondavirongo	Otjiu-west	Otuzemba	Ozondundu	Puros	Sanitatas	Sesfontein
Total Route km	**3,311**	207	269	291	138	194	210	161	78	304	207	58	130	90	107	90	309	165	303
Total area (km2)	**28,288**	1,636	1,979	3,034	1,130	1,643	1,613	657	619	2,616	1,775	348	1,067	1,208	741	743	3,564	1,446	2,469
Number of routes	**74**	5	5	6	3	4	4	3	5	6	3	1	4	2	3	2	6	4	8
% area excluded	**35**	51	28	28	29	16	48	26	53	10	44	74	58	71	26	55	31	28	42
Species																			
Gemsbok		57 (137)	10 (27)	43 (414)		15 (215)	11 (48)			170 (1,224)						3 (9)	121 (945)	61 (329)	33 (156)
Giraffe		48 (90)	54 (148)			6 (12)	93 (186)				3 (6)		10 (20)				31 (62)	10 (20)	1 (2)
Kudu		23 (64)	22 (97)		16 (97)										3 (8)	36 (128)			
Ostrich		2 (4)	7 (55)	48 (243)	29 (166)	21 (243)	20 (82)	37 (94)	9 (33)	93 (687)	52 (347)	15 (23)	14 (39)	26 (103)	5 (17)	14 (56)	37 (266)	30 (89)	37 (182)
Springbok		2097 (3,585)	424 (601)	806 (1,976)	128 (725)	109 (835)	739 (2,021)	203 (553)	22 (84)	227 (1,766)	65 (169)	247 (379)	156 (436)	5 (19)		37 (120)	414 (3,153)	76 (195)	260 (1,315)
Steenbok		3 (11)	16 (76)		9 (53)	2 (16)	14 (56)	6 (16)		2 (10)	20 (106)		1 (4)	2 (7)	10 (46)	9 (30)	1 (3)		1 (5)
H. Zebra		377 (1,266)	108 (373)	80 (458)		214 (1,613)	15 (65)			12 (90)	7 (15)					3 (9)	72 (496)	56 (245)	49 (255)

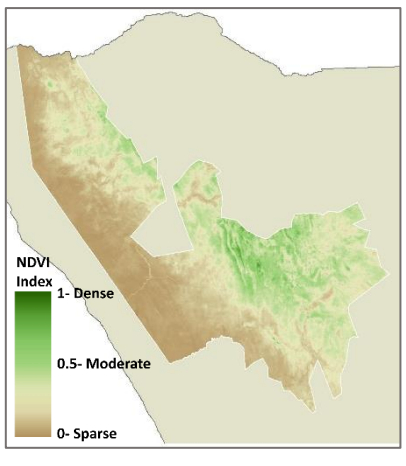
Values without brackets are numbers of animals seen along transects. Values inside brackets are minimum estimates assuming all animals within 500m on each side of the transect line are detected i.e. there is no adjustment for drop off in detection with distance from the transect line. In addition, for springbok, gemsbok and giraffe, large groups were excluded from extrapolations and added afterwards.
The sum of these values will be significantly lower than the totals indicated in the top left table as the total estimates take account of species detection curves.

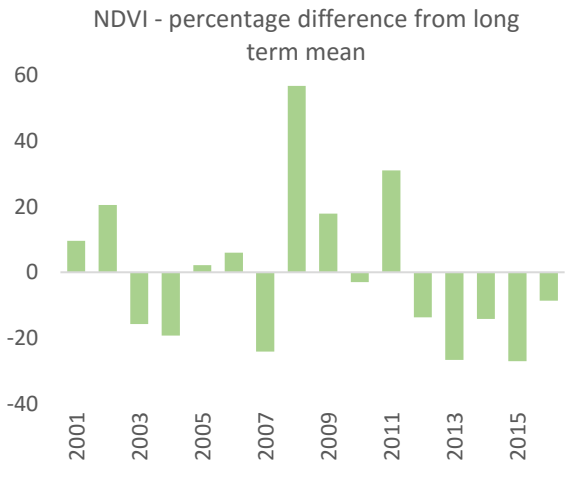
Rainfall



The rainfall season is from July to June and values are an average for the whole area. The year represents the season immediately prior to the count.

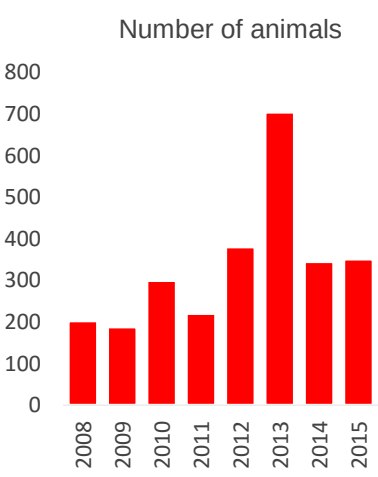
Vegetation





NDVI is a measure of the density of chlorophyll in vegetation cover. It can be used as an indicator of the amount of biomass available to wildlife. The map shows the NDVI status in the current year (Feb-April) and the trend indicates the average from Feb to April each year represented as a percentage of the long term mean (2001-2016).

Mortalities



Total number of carcasses from all species