

GAME COUNTS: KAVANGO EAST Aug 2021



Estimates

Species	George Mukoya		Muduva Nyangana	
	Estimate	95% CI Range	Estimate	95% CI Range
Duiker (HN)	558	374-832	125	49-320
Eland (HN)	325	146-727	323	151-692
Gemsbok (U)	339	140-818	95	22-404
Giraffe (U)	571	341-958	103	34-305
Kudu (U)	556	229-1,349	272	96-773
Roan (U)	395	216-719	204	75-553
Steenbok (HN)	184	105-321	68	10-457

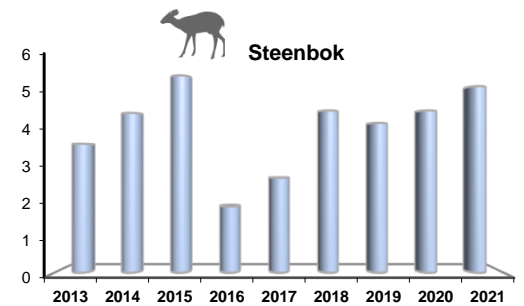
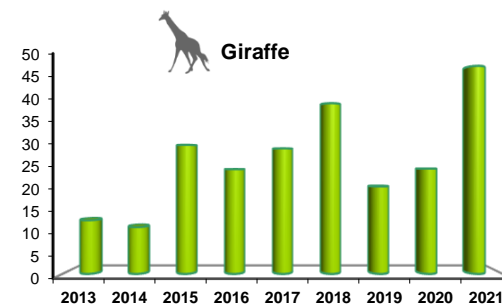
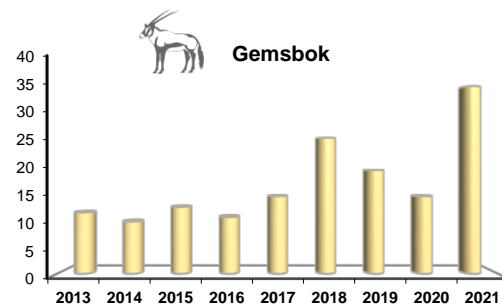
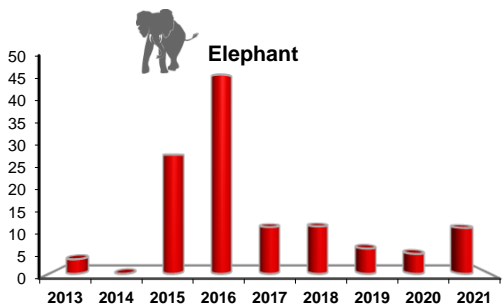
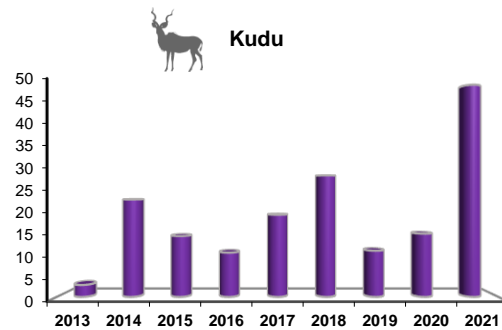
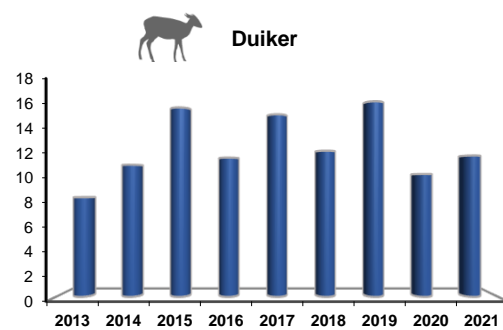
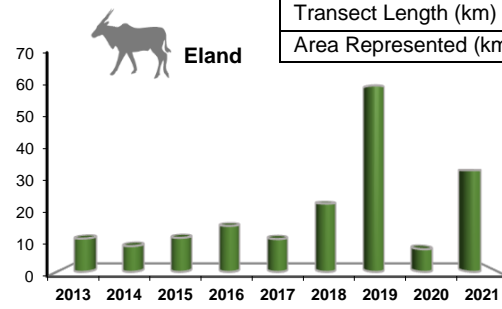
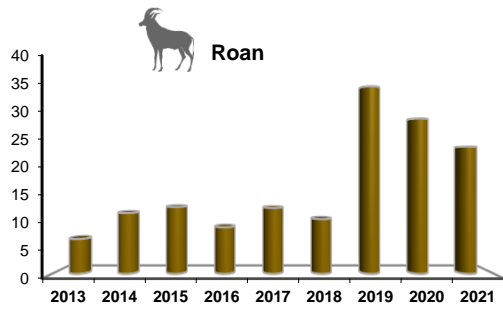
Estimates are derived using DISTANCE analysis which takes account of drop-off in detectability with distance from the transect line. Sightings from all counts were used to determine species detection profiles. Model: U=uniform; HN=half normal. Care should be taken when considering these estimates for quota setting purposes.

Animals seen

Species	Transects					
	George Mukoya		Muduva Nyangana		Total Seen	Total Groups
	Seen	Groups	Seen	Groups		
Duiker	35	34	7	7	42	41
Eland	48	9	69	8	117	17
Elephant			38	2	38	2
Gemsbok	93	12	31	3	124	15
Giraffe	142	31	28	5	170	36
Hyaena						
Impala						
Kudu	131	16	44	7	175	23
Leopard	3	2	1	1	4	3
Ostrich			5	2	5	2
Porcupine						
Roan	55	13	29	6	84	19
Steenbok	15	12	4	4	19	16
Vervet Monkey			15	1	15	1
Warthog	5	1			5	1
Wild dog						
Wildebeest						

Trends overall: Animals per 100km

	George Mukoya	Muduva Nyangana
Transects	24	11
Transect Length (km)	242	111
Area Represented (km ²)	238	122



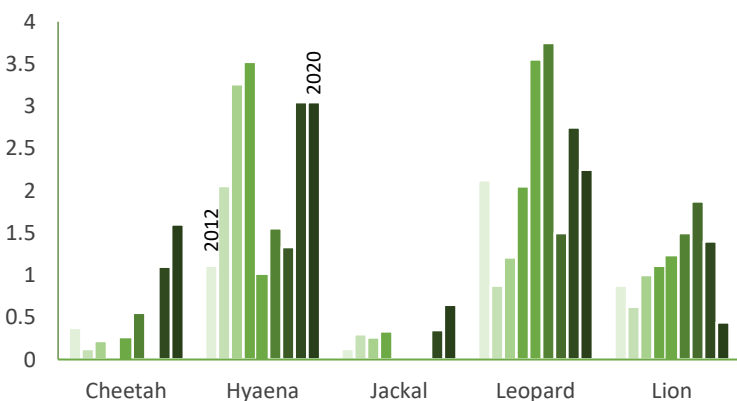
Sightings: previous 5 years

Species	Animals					Groups				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
Duiker	43	56	42	61	42	40	47	38	51	38
Eland	55	39	76	225	30	15	10	16	21	8
Elephant	171	40	38	22	19	15	8	7	7	7
Gemsbok	39	53	87	72	59	17	18	10	18	15
Giraffe	89	106	135	75	99	15	31	22	19	23
Hyaena	1				1	1				1
Impala	34		15			2		1		
Kudu	38	70	96	40	60	14	14	14	15	17
Leopard		2					1			
Ostrich	5	1	14	2	5	4	1	4	2	4
Porcupine				2					1	
Roan	32	45	35	130	118	10	17	9	24	15
Steenbok	7	10	16	16	19	7	9	14	15	17
V. Monkey	8	45	41		41	2	3	3		2
Warthog	4	9	10	6	12	2	4	4	2	5
Wild dog			6					2		
Wildebeest		4	37	60	23		1	2	5	3

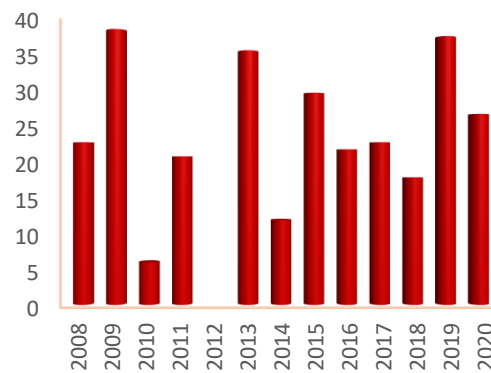
Supplementary Data

Predators and mortalities from the Event Book & rainfall from CHIRPS (<https://earlywarning.usgs.gov/fews/datadownloads/Global/CHIRPS%202.0>)

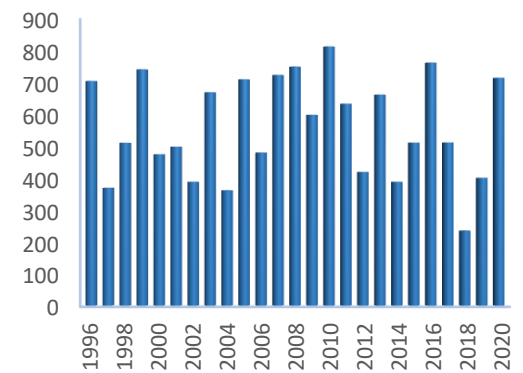
Predator Sighting Index



Mortalities (animals)



Rainfall Season (Jul-Jun) (mm)



Both photos © NACSO/WWF in Namibia
<http://conservationphotographyinamibia.com>

Overview

The fundamental purpose of game counts in communal areas is to inform conservancies and MEFT of wildlife trends for the purposes of adaptive management of resources. While estimates of species numbers are provided, these should only be considered as an approximate guide to species abundance.

The 2021 data suggest:

- populations for the 7 main game species are currently showing positive or stable trends.
- estimates suggest that these populations are also well balanced in number.
- rainfall increased over the past 3 seasons to more normal levels.
- lion presence has seen a marked drop since 2019
- elephant numbers have remained relatively constant since 2017.

