

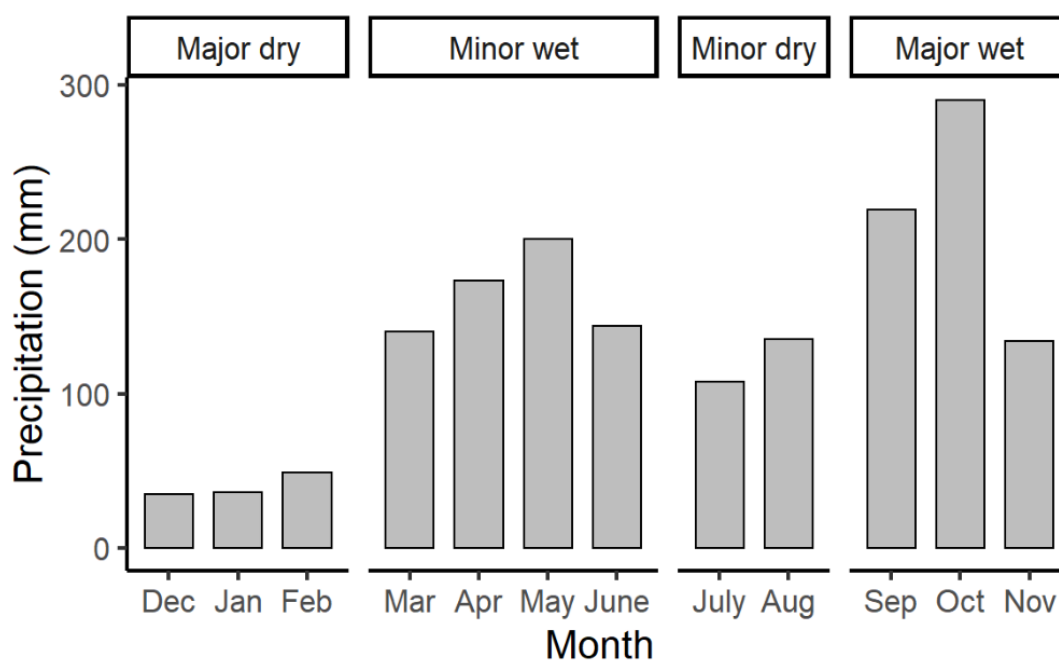
Rapid dung removal by beetles suggests higher duiker densities in Central African Rainforests

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SUPPLEMENTARY TABLE 1 A non-exhaustive list of references to duiker density estimates in Central Africa, with survey methods, and species (or group of species) for which density estimates were based (or not) on values of dung decay time provided in Koster & Hart (1988).

Reference	Country	CT	DS	NS	NetS	DungS	Based on Koster & Hart (1988)
Bene Bene & Nzooh-Dongmo (2005)	Cameroon					BRY	BRY
Bobo et al. (2014)	Cameroon					BRY	BRY
Breuer et al. (2021)	Rep. of Congo					BR	
Dubost (1980)	Gabon				B		
Ekobo (1998)	Cameroon					BRY	BRY
Fimbel et al. (2000)	Cameroon					BR	BR
Jost Robinson et al. (2016)	C.A.R.			B			
Kamgaing et al. (2018)	Cameroon		BR	BR		BRY	BRY
Koerner et al. (2016)	Gabon					B	B
Koster and Hart (1988)	DR Congo				BR	BR	BR
Lannoy et al. (2003)	Gabon		B				
Nakashima et al. (2013)	Gabon		BRY				
Nakashima et al. (2018)	Gabon	B					
Nakashima et al. (2020)	Gabon	BRY					
Noss (2000)	C.A.R.				B		
Noss (1999)	C.A.R.				BR		
Nzooh Dongmo (2003)	Cameroon					BRY	BRY
Nzooh Dongmo et al. (2006)	Cameroon					BRY	BRY
Nzooh Dongmo et al. (2016)	Cameroon					BRY	BRY
Payne (1992)	Cameroon		BR	BR			
Viquerat et al. (2012)	Cameroon		BR	BR		BR	None
Waltert et al. (2006)	Cameroon		B	B			
White (1994)	Gabon		BR				
Wilkie and Finn (1990)	D.R. Congo					BR	None
Yasuoka (2006)	Cameroon					R	R

*CT: Camera-trapping, DS: diurnal survey, NS: Nocturnal survey, NetS: Net survey, DungS: Dung survey, B: Blue duiker, R: Red duikers, Y: Yellow-backed duiker.



SUPPLEMENTARY FIG. 1 Average monthly rainfall in Lomié, southeast Cameroon (Data available from www.weatherbase.com, accessed February 2021).

SUPPLEMENTARY TABLE 2 Numbers of monitored dung piles (6 hours old or younger at detection) for each duiker group and season.

Season	Major dry		Minor wet		Minor dry		Major wet		Total
	Exact	MP	Exact	MP	Exact	MP	Exact	MP	
Blue duiker	40	10	71	1	33	0	59	2	216
<i>Philantomba monticola</i>									
Red duikers	60	8	94	7	77	4	110	13	373
<i>Cephalophus spp.</i>									

Exact: Dung piles for which exact decay date was known.

MP (mid point): Dung piles that decayed within two known dates

SUPPLEMENTARY TABLE 3 Mean dung decay time (days) of the blue duiker and red duikers, and estimation methods in different locations and seasons in Central Africa.

Species/group of species	Season	Mean decay time ± SE (days)	Estimation method	Site	Source
Blue duiker <i>Philantomba monticola</i>	Dry	1.38 ± 0.07	Arithmetic Mean	Northern Congo	Breuer et al. (2009)
	Wet	1.01 ± 0.03			Breuer et al. (2021)
		1.37 ± 0.08			
	Transition Wet- dry season	11.06 ± 1.08	'lmer' 'lrm' 'gllmm pql'	S.W. Cameroon	Viquerat et al. (2013)
		11.06 ± 1.08			
		11.06 ± 1.08			
		11.06 ± 0.66			
	/	4.09 ± 0.69	Arithmetic Mean	S.E. Cameroon	Payne (1992)
	14				
	Major dry	6.83 ± 1.17	'glm'	S.E. Cameroon	This study
Minor wet	1.21 ± 0.17				
Minor dry	1.81 ± 0.38				
Major wet	1.72 ± 0.27				
Red duikers <i>Cephalophus</i> spp.	Dry	1.83 ± 0.05	Arithmetic Mean	Northern Congo	Breuer et al. (2009)
	Wet	1.20 ± 0.03			Breuer et al. (2021)
		1.50 ± 0.10			
		4.3		N.E. D.R. Congo	White (1994)
	Major dry	3.4		N.E. Gabon	Van Vliet et al. (2009)
	Minor wet	0.70 ± 0.21			
	Transition Wet- dry season	8.44 ± 1.01	'glm' 'lmer' 'lrm' 'gllmm pql'	S.W. Cameroon	Viquerat et al. (2013)
		16.97 ± 1.49			
		17.08 ± 1.69			
		16.97 ± 1.49			
		17.11 ± 1.62	Arithmetic Mean	S.E. Cameroon	This study
		8.44 ± 1.01			
Major dry	7.37 ± 1.16	'glm'	S.E. Cameroon	This study	
Minor wet	1.53 ± 0.20				
Minor dry	4.09 ± 0.59				
Major wet	2.72 ± 0.32				

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