

# Antibodies against MERS Coronavirus in Dromedary Camels, Kenya, 1992–2013

## Technical Appendix

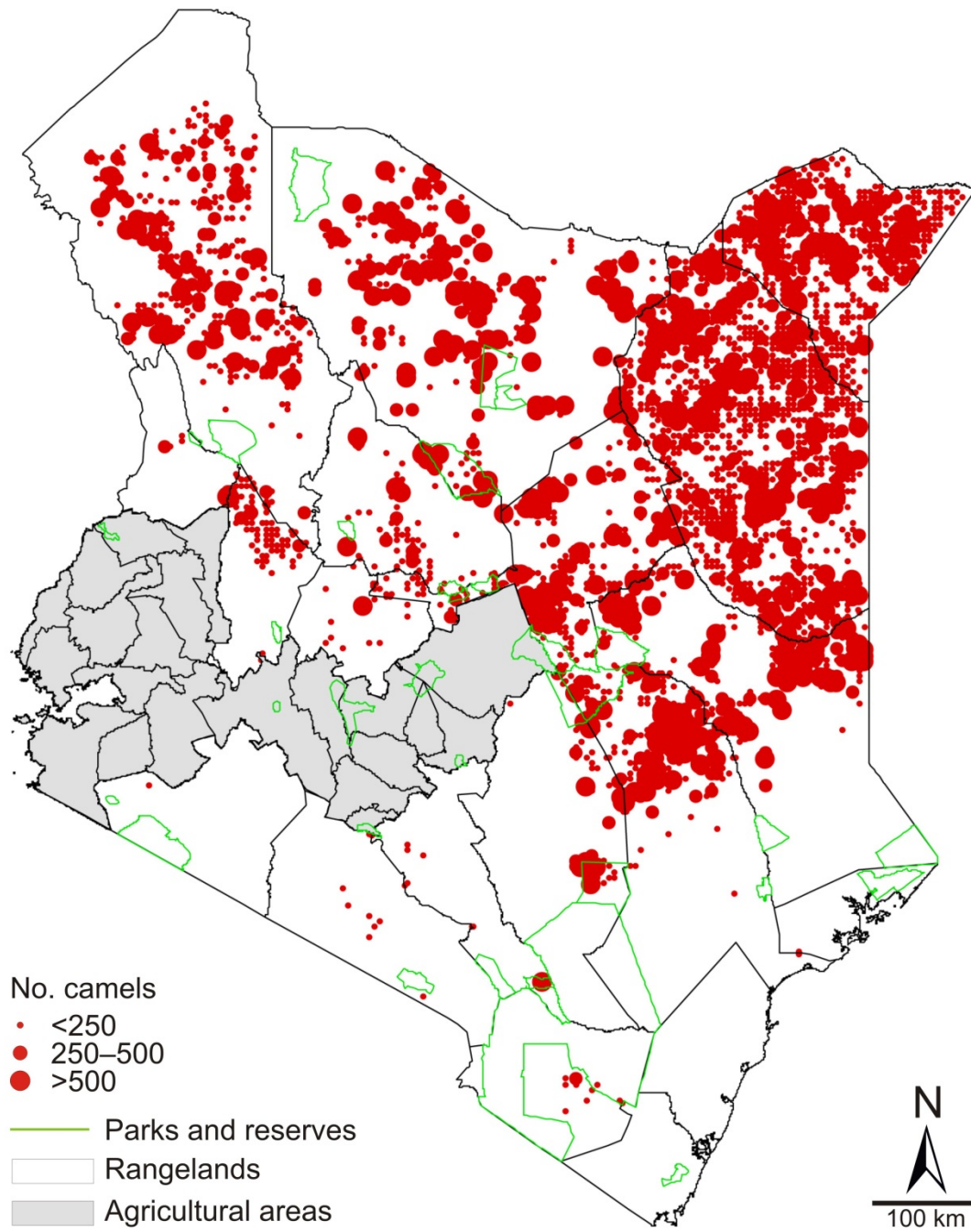
Technical Appendix Table. Dromedary camel population densities in 3 regions in Kenya during 2 periods\*

Region	Area, km <sup>2</sup>	No. camels during 1991–2000	Camel density		
			during 1991–2000, no./km <sup>2</sup>	No. camels during 2000–2013	Came density during 2000–2013, no./km <sup>2</sup>
<b>Rift Valley</b>					
Baringo	11,075	3,280	0.30	5,376	0.49
Kajiado	21,293	268	0.01	607	0.03
Laikipia	8,696	3,829	0.44	2,170	0.25
Narok	17,921	0	0.00	145	0.01
Samburu	20,182	15,430	0.76	20,597	1.02
Turkana	71,598	67,097	0.94	69,380	0.97
West Pokot	8,418	2,731	0.32	1,587	0.19
<b>Total</b>	<b>159,183</b>	<b>92,635</b>	<b>0.58</b>	<b>99,862</b>	<b>0.6</b>
<b>Northeastern</b>					
Garissa	45,720	60,498	1.32	76,953	1.68
Mandera	25,798	97,031	3.76	95,023	3.68
Wajir	55,841	172,826	3.09	192,614	3.45
<b>Total</b>	<b>127,359</b>	<b>330,335</b>	<b>2.59</b>	<b>364,59</b>	<b>2.9</b>
<b>Eastern</b>					
Isiolo	25,336	60,079	2.37	63,522	2.51
Kitui	24,385	3,112	0.13	14,507	0.59
Machakos	5,953	0	0.00	1,104	0.19
Marsabit	66,923	89,682	1.34	129,143	1.93
<b>Total</b>	<b>122,597</b>	<b>89,682</b>	<b>0.73</b>	<b>208,276</b>	<b>1.7</b>

\*Camel density data was calculated on the basis of livestock counts conducted by the Department of Resource Surveys and Remote Sensing as part of an ongoing Kenya-wide rangeland monitoring program (1). Population estimates were calculate by using Jolly's method 2 and averaged for 1991–2000 and 2000–2013 to minimize the influence of stochastic variation in the survey data.

## Reference

- Ottichilo W, Grunblatt J, Said M, Wargute P. Wildlife and livestock population trends in the Kenya rangeland. In: Prins HT, Grootenhuis J, Dolan T, editors. Wildlife conservation by sustainable use. Amsterdam: Springer; 2000. p. 203–18.



Technical Appendix Figure. Average numbers of dromedary camels in Kenya, 1992–2013.