

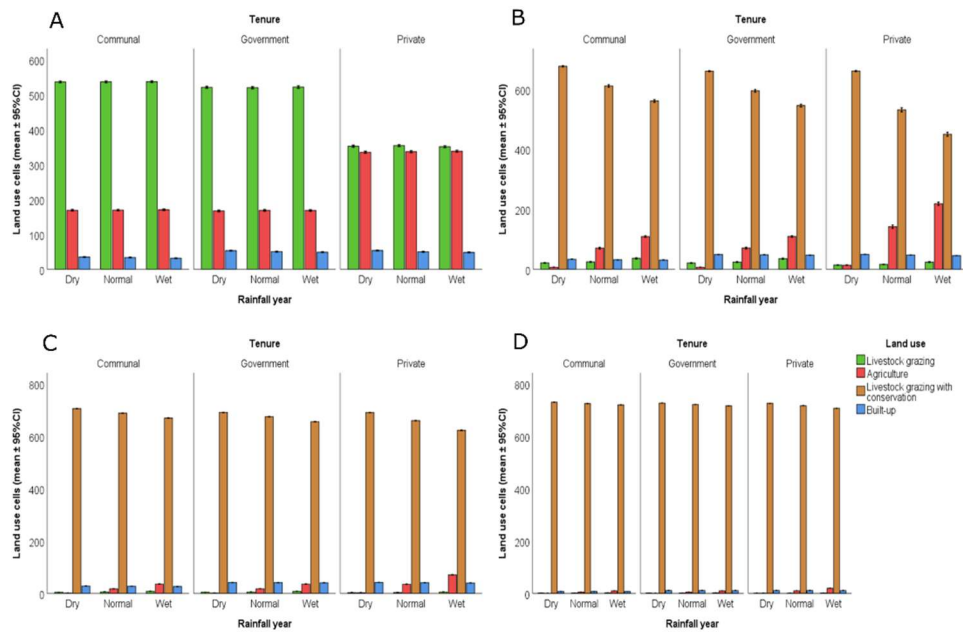


Figure S1. Comparison of land use types at different levels of conservation subsidies in Mara. In (A) there is no conservation subsidy, in (B) the conservation subsidy ranges from 10 to 100 \$ yr⁻¹ while in (C) and (D), the conservation subsidy ranges from 110 to 200 \$ yr⁻¹ and 210 to 1000 \$ yr⁻¹. In all the graphs, the three land tenure scenarios are labelled as ‘Tenure’. The error bars represent 95% confidence interval.

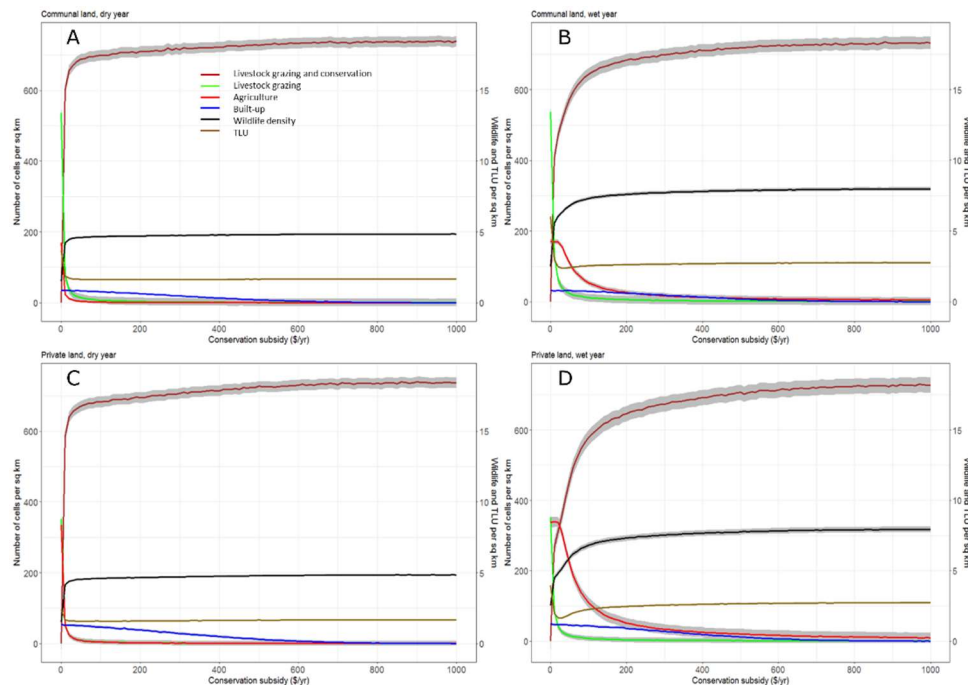


Figure S2. Relationship between land use types (shown as number of cells per km²) and wildlife and livestock density (TLU) in Mara. Figures (A) and (B) show trends between the dry and wet years under communal land tenure scenario while figures (C) and (D) show trends between dry and wet years under the private land tenure scenario. The shaded grey areas represent the 95% confidence interval.

Table S1. Mean standard deviation levels of land use, animal densities and incomes per rainfall year and land tenure type for Amboseli and Mara.

Rainfall Year	Tenure	Livestock Grazing	Irrigated Agropastoralism	Agriculture	Livestock Grazing with Conservation	Built-up	Wildlife Density	TLU	Income
Amboseli means and standard deviation									
Dry	Communal	21.81 (66.14)	0.07 (0.27)	38.65 (44.42)	664.62 (105.95)	19.74 (8.30)	15.78 (1.68)	5.83 (0.87)	539.99 (322.36)
	Government	21.34 (64.25)	0.08 (0.28)	38.67 (44.33)	654.83 (106.57)	30.00 (12.15)	15.63 (1.70)	5.74 (0.84)	545.04 (309.43)
	Private	14.41 (43.66)	0.14 (0.39)	77.31 (88.03)	623.53 (129.13)	29.33 (11.72)	15.13 (2.05)	5.32 (0.63)	616.30 (354.74)
Normal	Communal	26.04 (72.03)	0.03 (0.18)	70.44 (51.64)	629.77 (113.17)	18.57 (7.66)	19.08 (2.26)	7.08 (1.26)	647.92 (379.18)
	Government	25.44 (69.71)	0.04 (0.2)	70.60 (51.87)	620.13 (114.31)	28.68 (11.41)	18.89 (2.28)	6.97 (1.21)	655.19 (364.24)
	Private	17.12 (47.26)	0.07 (0.26)	141.05 (102.78)	559.41 (141.36)	27.00 (10.38)	17.68 (2.83)	6.11 (1.02)	817.56 (426.62)
Wet	Communal	29.25 (76.25)	0.02 (0.15)	95.37 (51.36)	603.12 (114.17)	17.39 (7.05)	21.55 (2.65)	8.03 (1.60)	756.67 (417.38)
	Government	28.59 (73.81)	0.02 (0.14)	95.05 (51.27)	593.67 (115.16)	27.60 (10.82)	21.34 (2.67)	7.90 (1.54)	763.63 (412.30)
	Private	19.31 (50.18)	0.05 (0.21)	190.07 (101.51)	510.66 (139.31)	24.81 (9.23)	19.41 (3.24)	6.61 (1.28)	1010.41 (473.24)
Mara means and standard deviation									
Dry	Communal	8.98 (53.46)	0.21 (0.47)	2.80 (16.91)	714.93 (75.47)	12.31 (12.20)	4.74 (0.34)	1.68 (0.2)	415.05 (264.79)
	Government	8.79 (51.96)	0.21 (0.48)	2.80 (16.72)	709.21 (76.52)	18.36 (17.97)	4.72 (0.34)	1.67 (0.19)	415.77 (247.52)
	Private	5.91 (35.15)	0.41 (0.67)	5.61 (33.48)	708.69 (76.39)	18.45 (18.07)	4.72 (0.34)	1.65 (0.09)	423.98 (274)
Normal	Communal	9.57 (53.67)	0.26 (0.51)	14.35 (29.11)	702.84 (82.84)	12.00 (11.78)	5.36 (0.43)	1.89 (0.23)	447.43 (306.8)
	Government	9.31 (52.04)	0.26 (0.5)	14.42 (29.13)	696.91 (84.61)	18.13 (17.63)	5.33 (0.43)	1.88 (0.23)	451.85 (317.86)
	Private	6.31 (35.46)	0.54 (0.74)	28.83 (58.09)	685.61 (96.80)	17.99 (17.50)	5.27 (0.5)	1.82 (0.16)	486.06 (355.62)
Wet	Communal	11.53 (54.67)	0.26 (0.52)	23.85 (36.46)	691.77 (89.12)	11.75 (11.48)	7.67 (0.66)	2.72 (0.35)	471.87 (324.74)
	Government	11.30 (53.15)	0.26 (0.51)	23.84 (36.32)	686.07 (91.38)	17.82 (17.30)	7.63 (0.68)	2.70 (0.34)	482.79 (346.61)
	Private	7.59 (35.78)	0.51 (0.72)	47.81 (72.39)	665.82 (110.15)	17.45 (16.82)	7.48 (0.82)	2.58 (0.28)	539.07 (408.97)

