

# Supporting Information

## Gibson and Gurmu 10.1073/pnas.1010241108

**Table S1. Description of study sample**

	Inheritor male <i>n</i> = 520	Redistribution male <i>n</i> = 411	Female <i>n</i> = 1,166
Age	34.36 ± 10.67	55.34 ± 12.81	37.48 ± 13.98
Family (sibship) size	10.66 ± 5.05	9.42 ± 5.65	10.28 ± 5.24
Birth order, %			
1	21.1	25.4	11
2–3	29.3	32.4	47.6
4–6	28	24.3	36.9
7+	21.5	18	4.5
Sibling configuration			
Older brothers	1.49 ± 1.69	1.51 ± 1.93	1.22 ± 1.37
Younger brothers	2.46 ± 2.39	2.26 ± 2.55	1.08 ± 1.21
Older sisters	1.50 ± 2.05	1.20 ± 1.69	1.14 ± 1.33
Younger sisters	2.34 ± 2.08	2.27 ± 2.37	1.15 ± 1.29
Land size (hectares)*	1.23 ± 0.06	1.89 ± 0.06	NA
Agricultural yield (quintals)*	16.40 ± 0.89	21.07 ± 0.99	NA
Age at first marriage*	21.8 ± 3.62	22.4 ± 4.92	16.26 ± 2.07
Marriage payments (Ethiopian birr)*	1165 ± 185 (75 USD)	1375 ± 227 (86 USD)	66.2% with dowry 549.56 ± 749.68 (34 USD)
Surviving offspring*	4.40 ± 0.13	6.01 ± 0.15	4.49 ± 2.56

\*Adjusted for age.

**Table S2. Competition for productive land**

	Inheritor male <i>n</i> = 520		Redistribution recipient male <i>n</i> = 411	
	Total crop yield in quintals (GLM)			
	Coefficient ± SE	<i>P</i>	Coefficient ± SE	<i>P</i>
<b>Model 1</b>				
Intercept	7.88 ± 2.85	0.006	10.62 ± 5.19	0.042
Age	0.002 ± 0.07	0.971	0.02 ± 0.08	0.815
Father's wives	0.27 ± 0.65	0.682	0.20 ± 1.16	0.861
Land size	7.24 ± 0.74	0.000	4.74 ± 0.67	0.000
Sib sex ratio at birth	−0.47 ± 0.49	0.337	1.04 ± 0.80	0.197
Family size	0.07 ± 0.16	0.680	−0.26 ± 0.23	0.253
Birth order	−0.23 ± 0.85	0.208	0.39 ± 0.29	0.175
<b>Model 2</b>				
Older brothers	−0.77 ± 0.40	0.076	0.01 ± 0.69	0.987
Older sisters	−0.33 ± 0.33	0.328	−0.93 ± 0.59	0.100

**Table S3. Competition for marriage and reproduction**

	Inheritor male $n = 520$		Redistribution recipient male $n = 411$		Female $n = 1,166$	
	Age at marriage in years (GLM)					
	Coefficient $\pm$ SE	<i>P</i>	Coefficient $\pm$ SE	<i>P</i>	Coefficient $\pm$ SE	<i>P</i>
<b>Model 1</b>						
Intercept	19.11 $\pm$ 0.72	0.000	17.05 $\pm$ 1.32	0.000	17.35 $\pm$ 0.26	0.000
Age	0.10 $\pm$ 0.02	0.000	0.11 $\pm$ 0.02	0.000	-0.03 $\pm$ 0.00	0.000
Father's wives	-0.16 $\pm$ 0.16	0.337	-0.43 $\pm$ 0.30	0.145	-0.09 $\pm$ 0.15	0.543
Land size	-0.78 $\pm$ 0.29	0.008	-0.31 $\pm$ 0.29	0.282	-0.03 $\pm$ 0.07	0.696
Sib sex ratio	0.06 $\pm$ 0.13	0.639	0.02 $\pm$ 0.20	0.914	0.00 $\pm$ 0.91	0.912
Family size	-0.02 $\pm$ 0.04	0.680	0.06 $\pm$ 0.06	0.312	-0.00 $\pm$ 0.04	0.817
Birth order	0.06 $\pm$ 0.05	0.188	-0.02 $\pm$ 0.07	0.841	-0.02 $\pm$ 0.06	0.708
<b>Model 2</b>						
Older bros	0.30 $\pm$ 0.10	0.007	0.06 $\pm$ 0.17	0.746	-0.07 $\pm$ 0.06	0.254
Older sisters	-0.01 $\pm$ 0.10	0.662	0.12 $\pm$ 0.20	0.921	-0.03 $\pm$ 0.06	0.682
<b>Marriage payments in Ethiopian birr</b>						
	GLM	<i>P</i>	GLM	<i>P</i>	LOG	<i>P</i>
<b>Model 1</b>						
Intercept	2774 $\pm$ 368	0.000	2118 $\pm$ 394	0.000	-1.97 $\pm$ 0.29	0.000
Age	-38.50 $\pm$ 9.01	0.000	-16.90 $\pm$ 5.85	0.004	0.05 $\pm$ 0.01	0.000
Father's wives	12.21 $\pm$ 81.84	0.881	87.85 $\pm$ 89.42	0.327	0.01 $\pm$ 0.17	0.944
Land size	-87.25 $\pm$ 155.03	0.574	-56.26 $\pm$ 93.26	0.547	0.07 $\pm$ 0.08	0.416
Sib sex ratio	69.71 $\pm$ 63.22	0.271	-77.91 $\pm$ 58.19	0.182	-0.21 $\pm$ 0.09	0.016
Family size	49.42 $\pm$ 21.04	0.019	11.97 $\pm$ 17.23	0.488	-0.02 $\pm$ 0.04	0.695
Birth order	-24.38 $\pm$ 25.17	0.333	-28.24 $\pm$ 21.50	0.190	0.25 $\pm$ 0.07	0.000
<b>Model 2</b>						
Older bros	-182.85 $\pm$ 55	0.001	-44.72 $\pm$ 53.38	0.403	0.20 $\pm$ 0.07	0.002
Older sisters	147.96 $\pm$ 52.55	0.005	61.95 $\pm$ 72.47	0.916	0.14 $\pm$ 0.90	0.136
<b>No. of surviving offspring (GLM)</b>						
	Coefficient $\pm$ SE	<i>P</i>	Coefficient $\pm$ SE	<i>P</i>	Coefficient $\pm$ SE	<i>P</i>
<b>Model 1</b>						
Intercept	-1.59 $\pm$ 0.38	0.000	1.59 $\pm$ 0.85	0.061	-0.13 $\pm$ 0.25	0.597
Age	0.13 $\pm$ 0.01	0.000	0.07 $\pm$ 0.01	0.000	0.09 $\pm$ 0.00	0.000
Father's wives	0.07 $\pm$ 0.09	0.442	0.02 $\pm$ 0.19	0.933	-0.07 $\pm$ 0.15	0.663
Land size	0.43 $\pm$ 0.16	0.006	0.87 $\pm$ 0.18	0.000	0.56 $\pm$ 0.07	0.000
Sib sex ratio	-0.05 $\pm$ 0.07	0.533	-0.18 $\pm$ 0.13	0.164	-0.21 $\pm$ 0.15	0.009
Family size	0.05 $\pm$ 0.02	0.035	0.04 $\pm$ 0.04	0.278	0.00 $\pm$ 0.04	0.894
Birth order	-0.04 $\pm$ 0.03	0.084	0.01 $\pm$ 0.05	0.812	0.19 $\pm$ 0.06	0.002
<b>Model 2</b>						
Older bros	-0.00 $\pm$ 0.06	0.837	0.14 $\pm$ 0.11	0.198	0.11 $\pm$ 0.06	0.060
Older sisters	-0.03 $\pm$ 0.06	0.150	0.07 $\pm$ 0.09	0.404	0.07 $\pm$ 0.06	0.275
<b>Model 3</b>						
First born	Reference value		Reference value		Reference value	
All later born	-0.42 $\pm$ 0.20	0.038	0.27 $\pm$ 0.34	0.439	0.32 $\pm$ 0.21	0.131