

Tables

Table 1a: Distribution of Household Structures				
men	women	children	variable name	mean
1	1	1	m1_f1_c1	0.189
		2	constant	0.255
		3	m1_f1_c3	0.101
		4	m1_f1_c4	0.030
1	2	1	m1_f2_c1	0.087
		2	m1_f2_c2	0.085
2	1	1	m2_f1_c1	0.079
		2	m2_f1_c2	0.054
2	2	1	m2_f2_c1	0.071
		2	m2_f2_c2	0.048

Statistics are for the 3000 observations of households from the BIHS 2015 comprised of nuclear households with 1-4 children plus households with 2 men or 2 women and 1 or 2 children. The sample includes only households with consistent food data with nonzero food spending in the 24-hour food diary for each type of household member (men, women and children).

Table 1b: Summary Statistics				
Variable	Mean	Std Dev	Min	Max
$\ln y$, log-expenditure	0.100	0.556	-1.681	2.764
w_m , male food share	0.161	0.070	0.014	0.514
w_f , female food share	0.145	0.065	0.013	0.534
w_m , children food share	0.130	0.080	0.001	0.488
average age of males/10	0.176	1.189	-2.258	6.042
average age of females/10	0.377	0.937	-1.322	5.878
average education of men/10	0.338	3.537	-3.500	6.500
average education of women/10	-0.359	3.186	-4.366	5.634
average age of children/10	0.045	0.359	-0.709	0.691
fraction girl children	-0.028	0.414	-0.500	0.500
log of marital wealth	-0.416	3.368	-8.742	5.630
f , cooperation indicator	0.585	0.493	0.000	1.000
log of household wealth	0.088	2.684	-9.403	4.356
village-average of f	0.585	0.261	0.000	1.000

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Table 2: "First Stage"

		cooperation, f			log-budget, $\ln y$		
		est	std err	t	est	std err	t
Constant		0.178	0.042	4.24	0.039	0.039	1.00
Covariates	average age of males/10	0.002	0.008	0.25	-0.005	0.007	-0.72
	average age of females/10	-0.022	0.012	-1.92	0.016	0.011	1.43
	average education of men/10	-0.006	0.003	-2.21	0.025	0.003	9.55
	average education of women/10	0.011	0.003	3.31	0.032	0.003	10.18
	average age of children/10	0.067	0.025	2.68	0.116	0.024	4.92
	fraction girl children	-0.020	0.020	-0.98	0.038	0.019	2.05
	log of marital wealth	0.002	0.003	0.61	0.004	0.002	1.62
Composition	m1_f1_c1	-0.018	0.025	-0.72	-0.139	0.024	-5.87
	m1_f1_c3	0.059	0.031	1.93	0.052	0.029	1.82
	m1_f1_c4	0.005	0.051	0.10	0.119	0.047	2.51
	m1_f2_c1	-0.106	0.033	-3.17	0.111	0.031	3.54
	m1_f2_c2	-0.028	0.034	-0.83	0.162	0.032	5.10
	m2_f1_c1	-0.052	0.036	-1.47	0.056	0.033	1.68
	m2_f1_c2	0.035	0.040	0.87	0.189	0.037	5.07
	m2_f2_c1	-0.097	0.036	-2.68	0.284	0.034	8.42
	m2_f2_c2	-0.098	0.042	-2.31	0.265	0.040	6.69
budget instruments	ln real wealth	-0.005	0.010	-0.47	0.095	0.009	10.19
	squared	0.000	0.004	-0.03	0.037	0.003	11.20
	cubed	-0.001	0.001	-1.07	0.005	0.001	4.50
	quartic	0.000	0.000	-1.01	0.000	0.000	1.99
cooperation instruments	village-average f	0.614	0.536	1.15	-0.555	0.501	-1.11
	squared	1.133	2.190	0.52	0.099	2.048	0.05
	cubed	-1.675	3.227	-0.52	0.936	3.018	0.31
	quartic	0.582	1.560	0.37	-0.686	1.459	-0.47
R^2		0.17			0.43		
F -stats	cooperation	121.4			9.3		
	budget	1.7			186.2		
	all	62.1			100.7		

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Table 3: Estimated Efficiency and Resource Shares, Varying Models								
function	person	variable	(1) Baseline		(2) Varying β		(3) Less Overid.	
			Estimate	<i>Std Err</i>	Estimate	<i>Std Err</i>	Estimate	<i>Std Err</i>
$\ln \delta$	all	constant	0.121	<i>0.035</i>	0.099	<i>0.043</i>	0.139	<i>0.077</i>
resource shares	men, η_m	constant	0.308	<i>0.012</i>	0.298	<i>0.013</i>	0.411	<i>0.033</i>
		f	0.027	<i>0.005</i>	0.026	<i>0.005</i>	0.035	<i>0.010</i>
	women, η_f	constant	0.330	<i>0.014</i>	0.335	<i>0.016</i>	0.343	<i>0.029</i>
		f	-0.005	<i>0.005</i>	-0.003	<i>0.006</i>	-0.01	<i>0.008</i>
	children, η_c	constant	0.362	<i>0.020</i>	0.367	<i>0.021</i>	0.247	<i>0.041</i>
		f	-0.022	<i>0.007</i>	-0.023	<i>0.008</i>	-0.026	<i>0.011</i>
Change in Welfare	men		0.228	<i>0.054</i>	0.199	<i>0.062</i>	0.248	<i>0.111</i>
	women		0.111	<i>0.043</i>	0.095	<i>0.051</i>	0.117	<i>0.089</i>
	children		0.061	<i>0.035</i>	0.034	<i>0.043</i>	0.03	<i>0.079</i>
N			3000		3000		3000	
J-stat	val [df] p		206.4 [192]	<i>0.23</i>	189.2 [176]	<i>0.24</i>	72.2 [82]	<i>0.77</i>

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Table 4: Estimated Efficiency and Resource Shares, Varying Cooperation Factors								
function	person	variable	(4) Joint Housing		(5) Shareable		(6) Non Private	
			Estimate	<i>Std Err</i>	Estimate	<i>Std Err</i>	Estimate	<i>Std Err</i>
$\ln \delta$	all	constant	0.133	<i>0.040</i>	0.141	<i>0.069</i>	0.056	<i>0.080</i>
resource shares	men, η_m	constant	0.281	<i>0.013</i>	0.293	<i>0.014</i>	0.280	<i>0.013</i>
		f	0.031	<i>0.005</i>	0.040	<i>0.008</i>	0.040	<i>0.007</i>
	women, η_f	constant	0.351	<i>0.017</i>	0.363	<i>0.017</i>	0.361	<i>0.016</i>
		f	-0.010	<i>0.006</i>	-0.01	<i>0.007</i>	-0.01	<i>0.007</i>
	children, η_c	constant	0.367	<i>0.021</i>	0.344	<i>0.02</i>	0.358	<i>0.021</i>
		f	-0.022	<i>0.008</i>	-0.03	<i>0.011</i>	-0.030	<i>0.009</i>
Change in Welfare	men		0.269	<i>0.063</i>	0.309	<i>0.092</i>	0.208	<i>0.100</i>
	women		0.110	<i>0.048</i>	0.12	<i>0.084</i>	0.029	<i>0.090</i>
	children		0.074	<i>0.045</i>	0.051	<i>0.081</i>	-0.032	<i>0.078</i>
N			3000		3000		3000	
J-stat	val [df] p		202.9 [192]	<i>0.28</i>	179.7 [192]	<i>0.73</i>	190.9 [192]	<i>0.51</i>

We report 2-step GMM estimates, with standard errors are clustered at the village level, of the marginal effects of f on efficiency $\ln \delta$, resource shares η and money-metric welfare Δ_j . Unconditional moments are defined by instruments multiplied by each of the 3 equations, where instruments are $(1, r_{1h}, z_h) \times (1, r_{2h})$,

where r_{1h} and r_{2h} are the first four powers of village-average f and log-wealth, respectively. Compared to the baseline sample: in column (4), the cooperation factor f equals 1 if consumption decisions concerning housing are made jointly, 0 otherwise; in column (5), f equals 1 if the husband and wife spend any time doing the same shareable consumption activity at the same time during the 24 hours time-use diary, 0 otherwise; in column (6) f equals 1 if they spend any time doing the same non-private activity at the same time, 0 otherwise.

Table 5: Estimated Efficiency and Resource Shares, Varying δ specifications

			ln δ equals					
function	person	variable	(10)		(11)		(12)	
			0	<i>Std Err</i>	$a_0 + a_1 \ln \frac{n}{4}$	<i>Std Err</i>	$a_0 + a'_1 \left(\ln \frac{n}{4} z\right)$	<i>Std Err</i>
			Estimate		Estimate		Estimate	
ln δ	all	constant			0.100	<i>0.033</i>	0.157	<i>0.050</i>
		ln $\frac{n}{4}$			0.501	<i>0.178</i>	0.627	<i>0.242</i>
resource shares	men, η_m	constant	0.310	<i>0.012</i>	0.309	<i>0.012</i>	0.301	<i>0.012</i>
		f	0.023	<i>0.004</i>	0.025	<i>0.005</i>	0.022	<i>0.005</i>
	women, η_f	constant	0.326	<i>0.015</i>	0.332	<i>0.015</i>	0.361	<i>0.018</i>
		f	-0.004	<i>0.005</i>	-0.006	<i>0.004</i>	-0.017	<i>0.005</i>
	children, η_c	constant	0.364	<i>0.020</i>	0.360	<i>0.020</i>	0.338	<i>0.020</i>
		f	-0.019	<i>0.007</i>	-0.019	<i>0.006</i>	-0.005	<i>0.005</i>
composition								
Change in Welfare	men	m1_fl_c2	0.023	<i>0.004</i>	0.195	<i>0.051</i>	0.257	<i>0.069</i>
	women	(4 people)	-0.004	<i>0.005</i>	0.085	<i>0.040</i>	0.115	<i>0.055</i>
	children		-0.019	<i>0.007</i>	0.045	<i>0.033</i>	0.152	<i>0.061</i>
Change in Welfare	men	m1_fl_c4	0.023	<i>0.004</i>	0.466	<i>0.109</i>	0.604	<i>0.162</i>
	women	(6 people)	-0.004	<i>0.005</i>	0.317	<i>0.103</i>	0.419	<i>0.139</i>
	children		-0.019	<i>0.007</i>	0.299	<i>0.093</i>	0.487	<i>0.153</i>
N			3000		3000		3000	
J-stat	val [df]	p	205.8 [193]	<i>0.25</i>	206.4 [191]	<i>0.21</i>	185.6 [184]	<i>0.45</i>

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