

# Supporting Information

Li et al. 10.1073/pnas.1101018108

**Table S1. Characteristics of the SLCP participating and nonparticipating households**

	SLCP <sup>†</sup>	non-SLCP <sup>‡</sup>	F test <sup>§</sup>	Test of difference between two kinds of households <sup>  </sup>
i. Family size, persons	4.1262 (1.331)	3.6707 (1.397)	4.605**	0.455*** (4.99)
ii. Female members, persons	1.848 (0.952)	1.613 (0.935)	0.371	0.236*** (3.75)
iii. Adult labor, persons	2.80 (0.04)	2.64 (0.06)	1.77	0.16** (2.16)
iv. Male adult labor, persons	1.530 (0.744)	1.460 (0.737)	0.144	0.07 (1.42)
v. Dependency ratio	0.4566 (0.534)	0.3833 (0.529)	0.229	0.073** (2.076)
vi. Fraction of household members above junior high school	0.357 (0.292)	0.335 (0.308)	1.749	0.022 (1.09)
vii. HH's age	43.665 (11.406)	46.109 (13.42)	22.68***	-2.44*** (-2.85)
viii. Education years of HH	5.04 (3.06)	4.78 (2.89)	0.691	0.26 (1.29)
ix. Per capita farmland, mu	11.326 (12.39)	21.1972 (11.63)	5.13**	-9.87*** (-12.25)
x. Per capita forestland, mu	41.189 (63.11)	20.147 (34.67)	8.572***	21.04*** (5.67)
xi. Per capita sloping land, mu	0.995 (1.31)	2.05 (1.18)	6.471***	-1.055*** (-12.52)
xii. Proportion of HH who are in CCP	11.5%	6.8%		**
xiii. Proportion of HH with some training	4.9%	2.6%		*
xiv. Proportion of HH with some skills <sup>  </sup>	6.7%	3.9%		***
xv. Proportion of male HH	77.2%	82.2%		**
No. of observations	745	329	—	—

CCP, Chinese Communist Party; HH, household heads. Adult labor means the population between 18 and 65 y old. The dependency ratio is the ratio of the sum of persons younger than 18 y old and above 65 y old divided by the total adult labor in the household. 1 mu = 666.67 m<sup>2</sup>, or 1 mu = 1/15 ha. \**P* = 0.10; \*\**P* = 0.05; \*\*\**P* = 0.01.

<sup>†</sup>Means and (in parentheses) SDs of the SLCP participating households.

<sup>‡</sup>Means and (in parentheses) SDs of the SLCP nonparticipating households.

<sup>§</sup>F statistic testing variance equality of the SLCP participating and nonparticipating households.

<sup>||</sup>Rows 1–11 show *t* test results. (Ordinary *t* test is used when the variances are equal, adjusted *t* test is used when the variances are not equal.) Rows 12–15 used the likelihood-ratio test.

<sup>||</sup>Skills refer to cooking, veterinary skill, beekeeping, knitting, etc.

**Table S2. Variables in the model for household income**

Variables	Description of the variables	Mean	SD
Natural logarithm of net household income, <i>Y</i>	Gross income in cash or in kind minus production cost	8.6205	0.9707
Total adult labor, <i>X</i> <sub>1</sub>	Household's human capital	2.75	1.12
Proportion of females in the household, <i>X</i> <sub>2</sub>	Household structure	42.8%	0.174
Proportion of household members with education above junior high school, <i>X</i> <sub>3</sub>	Household's human capital	0.3503	0.2971
Telephone and cell phone cost in last month, <i>X</i> <sub>4</sub>	Household's social capital	59.152	82.499
Area of household farmland, <i>X</i> <sub>5</sub>	Natural capital and production structure	52.7	45.40
Area of household forestland, <i>X</i> <sub>6</sub>	Natural capital and production structure	129.9	223.90
Household material capital*, <i>X</i> <sub>7</sub>	Index for material capital of households	0.1800	0.1227
Proportion of the household's total labor time spent on plantation, <i>X</i> <sub>8</sub>	The proportion of total labor time spent on crops and forestry	0.9598	0.1565
Total months of out-migration from the household last year, <i>X</i> <sub>9</sub>	Sum of total months of out-migration last year	6.03	7.76
Participating in the SLCP? <i>D</i> <sub>1</sub>	Dummy variable. If yes, the value is 1, if not, it is 0.	0.694	0.4609
Within or near nature reserve? <i>D</i> <sub>2</sub>	If yes, the value is 1; otherwise it is 0.	0.7151	0.4516

\*See Li et al. (1) for an evaluation of household material capital, which is a standardized value computed from indicators of the size and type of the household residence and fixed assets such as car, tractor, motorcycle, TV, washing machine, etc.

1. Li XY, Dong Q, Rao XL (2007) On rural household vulnerability and its application in China. *Chin Rural Econ* 4:37–45.

**Table S3. Multivariate linear regression results for the household income function**

	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6
Constant	8.321*** (0.217)	8.275*** (0.247)	7.597*** (0.330)	8.340*** (0.220)	8.309*** (0.220)	7.635*** (0.346)
Total adult labor	0.101*** (0.029)	0.145*** (0.048)	0.094*** (0.029)	0.101*** (0.029)	0.100*** (0.029)	0.112** (0.054)
Female proportion	0.300* (0.160)	0.177 (0.296)	0.261 (0.160)	0.306* (0.161)	0.298* (0.161)	0.098 (0.301)
Proportion of members with education above junior high school	-0.092 (0.101)	-0.208 (0.173)	-0.086 (0.101)	-0.088 (0.101)	-0.093 (0.101)	-0.142 (0.183)
Area of household farmland	0.002*** (0.001)	0.002*** (0.001)	0.005*** (0.001)	0.002*** (0.001)	0.002*** (0.001)	0.005*** (0.001)
Area of household forestland	0.000* (0.000)	0.000* (0.000)	0.001* (0.001)	0.000* (0.000)	0.000* (0.000)	0.001* (0.001)
Proportion of plantation labor time	-0.935*** (0.181)	-0.916*** (0.182)	-0.439 (0.306)	-0.937*** (0.181)	-0.944*** (0.182)	-0.425 (0.311)
Months of out-migration	0.019*** (0.004)	0.019*** (0.004)	0.021*** (0.007)	0.019*** (0.004)	0.019*** (0.004)	0.021*** (0.007)
Telephone cost last month	0.001** (0.000)	0.001** (0.000)	0.001** (0.000)	0.000 (0.001)	0.001** (0.000)	0.000 (0.001)
Material capital	1.668*** (0.243)	1.670*** (0.243)	1.599*** (0.244)	1.679*** (0.244)	1.798*** (0.455)	1.698*** (0.489)
If participating in SLCP	0.178*** (0.066)	0.222 (0.210)	1.234*** (0.389)	0.150* (0.086)	0.210* (0.114)	1.167*** (0.431)
If within or near nature reserve	0.144** (0.063)	0.143** (0.064)	0.156** (0.063)	0.146** (0.063)	0.142** (0.064)	0.158** (0.064)
Interaction with total adult labor		-0.064 (0.055)				-0.025 (0.064)
Interaction with female proportion		0.169 (0.352)				0.235 (0.356)
Interaction with proportion of members with education above high school		0.173 (0.207)				(0.086) (0.219)
Interaction with area of farmland			-0.004*** (0.002)			-0.004** (0.002)
Interaction with area of forestland			-0.001 (0.001)			-0.001 (0.001)
Interaction with proportion of plantation time			-0.751** (0.379)			-0.760** (0.383)
Interaction with migration months			-0.002 (0.008)			-0.002 (0.009)
Interaction with telephone cost last month				0.001 (0.001)		0.000 (0.001)
Interaction with material capital					-0.178 (0.524)	-0.117 (0.566)
Adjusted $R^2$	0.191	0.190	0.199	0.190	0.190	0.195
Wald test <sup>†</sup>	7.36 (1)***	2.30 (4)*	4.29 (5)***	3.81 (2)**	3.73 (2)**	2.22 (10)**
Observations	1,074					

\* $P = 0.10$ ; \*\* $P = 0.05$ ; \*\*\* $P = 0.01$ . SEs are in parentheses.

<sup>†</sup>The Wald test is the joint significance test for participating in the SLCP and its interaction terms.

**Table S4. Quantile regression analysis results for household income**

Variables	10% quantile	25% quantile	50% quantile	75% quantile	90% quantile
Constant	5.821*** (0.390)	6.727*** (0.575)	7.655*** (0.255)	8.469*** (0.360)	9.238*** (0.452)
Total adult labor	0.131*** (0.047)	0.040 (0.052)	0.105*** (0.023)	0.121*** (0.032)	0.072* (0.041)
Female proportion	0.570* (0.306)	0.357 (0.309)	0.134 (0.129)	-0.039 (0.170)	-0.210 (0.223)
Proportion of members with education above junior high school	0.391** (0.184)	0.136 (0.185)	0.030 (0.082)	0.024 (0.113)	0.008 (0.151)
Area of household farmland	0.012*** (0.003)	0.007*** (0.003)	0.003** (0.001)	0.003 (0.002)	0.002 (0.002)
Area of household forestland	0.000 (0.001)	0.001* (0.001)	0.001** (0.000)	0.000 (0.001)	-0.000 (0.001)
Proportion of plantation time	-0.417 (0.345)	-0.344 (0.508)	-0.181 (0.233)	-0.328 (0.328)	-0.353 (0.397)
Months of out-migration	0.026** (0.013)	0.033*** (0.013)	0.026*** (0.005)	0.012* (0.007)	0.012 (0.009)
Telephone cost last month	0.000 (0.001)	0.001 (0.001)	0.001*** (0.000)	0.001*** (0.000)	0.001*** (0.000)
Material capital	1.497*** (0.406)	1.588*** (0.443)	1.353*** (0.196)	1.678*** (0.265)	1.594*** (0.350)
If participating in SLCP	1.945*** (0.509)	1.733*** (0.671)	1.029*** (0.302)	0.926** (0.429)	0.751 (0.571)
If within or near nature reserve	0.217** (0.101)	0.257** (0.112)	0.155*** (0.051)	0.041 (0.070)	0.046 (0.010)
Interaction with area of farmland	-0.009*** (0.003)	-0.006** (0.003)	-0.001 (0.001)	-0.002 (0.002)	-0.001 (0.002)
Interaction with area of forestland	0.000 (0.001)	-0.001 (0.001)	-0.001** (0.000)	-0.0000 (0.000)	0.000 (0.001)
Interaction with proportion of plantation time	-1.061** (0.511)	-0.960 (0.646)	-0.786*** (0.293)	-0.715* (0.408)	-0.678 (0.521)
Interaction with months of migration	0.004 (0.014)	-0.008 (0.015)	-0.008 (0.006)	-0.001 (0.008)	-0.004 (0.011)
Pseudo-R <sup>2</sup>	0.167	0.120	0.111	0.112	0.103

\*P = 0.10; \*\*P = 0.05; \*\*\*P = 0.01. SEs are in parentheses.