

S1. Map of the study subdistricts, with the normal depth of annual flooding from Yu et al. (2010).

S2. Annual rates of migration under various environmental conditions.

Type of move	Ommell	Flooding exposure				0	Number of			
	Overall	<5%	5-20%	>20%	F-test	<5%	5-20%	>20%	F-test	moves
All moves	6.4%	6.0%	10.8%	6.8%	17.2***	5.8%	7.1%	15.6%	61.8***	2,070
Within-district moves	3.8%	3.6%	6.5%	4.2%	12.5***	3.5%	4.3%	7.9%	18.8***	1,227
Out-of-district moves	2.5%	2.4%	4.2%	2.6%	6.2**	2.2%	2.7%	7.6%	48.7***	808
Person-years of exposure	32,229	26,572	2,036	3,621		24,106	6,916	1,207		
Subdistrict-years of exposure	193	154	22	17		143	39	11		

Note: Values are annual rates of migration for at-risk individuals, and exposure is measured by the annual proportion of households exposed in the subdistrict (see text). Data on the destination of moves are missing for 173 migrants. F-tests are for the independence of migration rates and environmental conditions, corrected for clustering at the level of the community.

S3. Annual rates of migration, flooding, and crop failure with the ratio of annual rainfall to median rainfall.



Predictor	Total income	Agricultural income	Animal income	Fishing income	Forest income	Other income	Rural remittances	Urban remittances	International remittances	Government assistance	Pension income
Exposure to flooding (%)	-0.016*	-0.002	-0.008	-0.010	-0.020**	-0.127***	-0.013*	-0.074**	-0.100	-0.013**	-0.028
Exposure to crop loss (%)	-0.043***	-0.049***	-0.028*	-0.203***	-0.034*	0.067	-0.020	-0.067+	-0.091	0.009	-0.068+
Exposure to livestock deaths (%)	0.117	0.071	0.044	-0.214*	-0.086	1.080**	0.101 +	-0.064	-0.225	0.051 +	0.183+
Exposure to health shocks (%)	0.013	-0.011	-0.013	-0.103+	-0.002	0.201**	-0.012	0.038	0.238+	0.008	-0.053
Household size (#)	0.139***	0.094***	0.115***	0.109***	0.067**	0.234***	0.104***	0.172**	0.415**	-0.002	0.139*
Proportion of minors (%)	-0.004*	-0.001	0.001	0.002	0.004	-0.015*	-0.006**	-0.015*	-0.031+	-0.001	-0.020**
Head is female (1/0)	0.037	-0.511*	-0.201	-0.454+	0.123	0.189	0.312*	0.294	1.182	0.138	2.144***
Head is non-Muslim (1/0)	-0.284	-0.122	-0.364+	-0.003	-0.271	0.415	-0.497+	-0.798	-6.281**	0.360***	-0.116
Head has primary education (1/0)	0.010	-0.109	-0.081	0.239 +	-0.013	-0.309	-0.059	0.069	0.186	-0.002	-0.056
Head has secondary education (1/0)	0.162 +	0.036	-0.168+	0.327*	0.164	-0.097	-0.279+	1.170***	0.639	-0.338***	2.077***
Ln(expenditures per capita) (Taka)	0.570***	0.444***	0.369***	0.469***	0.451***	0.715*	-0.025	-0.011	2.039**	-0.257***	-0.274
Ln(land area+1) (ha)	0.236***	0.408***	0.061*	0.288***	0.098*	-0.064	0.053	0.117	0.382	-0.137***	-0.236*
Land with irrigation (1/0)	0.140*	0.320***	0.052	0.108	-0.067	0.012	-0.107	-0.193	0.387	-0.013	-0.220
Constant	-2.697***	-2.998***	-2.357**	-2.493	-3.966***	-14.860***	-0.915	-2.971	-26.731***	1.451*	-2.195
Sigma	1.131***	1.249***	1.210***	1.469***	1.493***	3.764***	1.282***	3.197***	6.147***	0.706***	3.377***
N <sub>households</sub>	1615	1615	1615	1615	1615	1615	1615	1615	1615	1615	1615
Zero values	10	266	368	1125	1112	1181	1054	1277	1487	1171	1474
Mean value (Taka)	46870	15725	4795	1538	1033	10698	1013	3269	6391	223	2185

S4. Household-level tobit models of total income and various income sources in 2006, including coefficients and significance tests.

All outcomes have been transformed as ln(Taka/1000+1).

Exposure to shocks is measured by the proportion of households exposed in the subdistrict in 2005. All other predictors are measured at baseline.

**S5**. Predictors used in the event history analysis.

Predictor	Unit	Time-	Person-year	Standard
		varying?	mean	deviation
Famala	1/0	No	0.36	0.48
A ge 15 16	1/0	Pafaranca	0.30	0.48
Age 17-10	1/0	Vac	0.17	0.38
Age 20.24	1/0	1 es Vas	0.22	0.42
Age 20-24	1/0	1 es	0.20	0.44
Age 23-29	1/0	I es	0.17	0.38
Age 30-39 Child of hood	1/0	r es	0.17	0.38
L age then primary education	1/0	Deference	0.70	0.43
Drimony education	1/0	Ne	0.30	0.48
Primary education	1/0	INO No	0.31	0.46
Secondary education	1/0	NO	0.32	0.47
Has a child	1/0	Y es	0.21	0.41
Household controls	щ	N	7 1 9	2.06
Household size	#	NO	/.18	2.96
Proportion of minors	%0 1./0	NO	34.04	18.28
Head is female	1/0	NO	0.05	0.22
Head is non-Muslim	1/0	NO D. C.	0.07	0.25
Head without primary education	1/0	Reference	0.62	0.48
Head has primary education	1/0	No	0.18	0.39
Head has secondary education	1/0	No	0.19	0.39
Ln(expenditures per capita)	TK	No	6.82	0.46
Ln(land area+1)	ha	No	3.86	1.52
Land with irrigation	1/0	No	0.42	0.49
Village and subdistrict controls			0.10	
Rich community	1/0	No	0.19	0.39
Intermediate community	1/0	Reference	0.56	0.50
Poor community	1/0	No	0.25	0.43
Jute-producing community	1/0	No	0.78	0.42
Community has a road	1/0	Yes	0.93	0.26
Community has a school	1/0	Yes	0.70	0.46
Subdistrict propensity of local moves	%	Yes	3.40	2.38
Subdistrict propensity of long-distance moves	%	Yes	2.92	2.64
Shocks <sup>2</sup>				
Flood exposure: in household	1/0	Yes	0.06	0.23
Percent exposed in subdistrict	%	Yes	4.73	10.02
5-20% exposed in subdistrict	1/0	Yes	0.06	0.24
>20% exposed in subdistrict	1/0	Yes	0.11	0.32
Household losses	'000'	Yes	0.15	0.64
Subdistrict mean losses	taka	Yes	0.33	0.62
Crop loss: in household	1/0	Yes	0.05	0.21
Percent exposed in subdistrict	%	Yes	3.76	5.94
5-20% exposed in subdistrict	1/0	Yes	0.21	0.41
>20% exposed in subdistrict	1/0	Yes	0.04	0.19
Household losses	'000'	Yes	0.11	0.51
Subdistrict mean losses	taka	Yes	0.28	0.35
Livestock death: in household	1/0	Yes	0.06	0.23
Percent exposed in subdistrict	%	Yes	4.81	4.89
5-20% exposed in subdistrict	1/0	Yes	0.38	0.48
>20% exposed in subdistrict	1/0	Yes	0.01	0.09
Household losses	'000'	Yes	0.12	0.55
Subdistrict mean losses	taka	Yes	0.37	0.37
Health shock: in household	1/0	Yes	0.15	0.36
Percent exposed in subdistrict	%	Yes	12.29	9.74
5-20% exposed in subdistrict	1/0	Yes	0.57	0.49
>20% exposed in subdistrict	1/0	Yes	0.20	0.40
Household losses	'000	Yes	0.33	0.95
Subdistrict mean losses	taka	Yes	1.04	0.63

Subdistrict mean lossestakaYes1.040.63 $^{-1}$  Defined as the proportion of the subdistrict population who became movers of this type in the year *t*-1. $^{2}$  The reference category for the subdistrict-level shock categories is <5% exposed. Economic losses</td>have been transformed by ln(x+1).

S6. Full results of Specifications A-C, including odds ratios and significance tests.

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		S	specificatio	on A	5	Specificatio	on B	Specification C			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			Multi	nomial		Multi	nomial		Multi	inomial	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Predictor	Logit	In	Out of	Logit	In	Out of	Logit	In	Out of	
Individual-level controlsPermaleSequenceAge 20-24123 ***123 ***193 ***123 ***193 ***193 ***184 ***100Age 25-291.70 ***1.712.81 ***1.70 ***1.172.84 ***1.70 ***1.172.84 ***1.70 ***1.172.83 ***Age 30-391.42 *1.082.05 ***1.44 **1.082.06 ***1.44 **1.082.06 ***1.44 **1.082.07 ***1.24 **			district	district		district	district		district	district	
Female2.99*** $6.42***$ 1.01 $2.98***$ $6.41***$ $1.00$ $2.98***$ $6.41***$ $1.06$ Age 17-19 $1.62***$ $1.52***$ $1.96****$ $1.52***$ $1.96****$ $2.36****$ $1.62***$ $1.52***$ $1.96****$ Age 25-29 $1.70***$ $1.17$ $2.81****$ $1.70***$ $1.17$ $2.81****$ $1.70***$ $1.7$ $2.83****$ $1.43**$ $1.80***$ $2.36****$ Child of head $1.26***$ $1.21*$ $1.22*$ $1.26***$ $1.21**$ $1.24***$ $1.8***$ $0.36***$ $0.24***$ $0.18***$ $0.36***$ $0.24***$ $0.18***$ $0.36***$ $0.24***$ $0.18***$ $0.36***$ $0.24***$ $0.18***$ $0.36***$ $0.24***$ $0.82***$ $1.26*$ $1.42***$ $1.24***$ $1.14****$ $1.01******$ $1.01***********************************$	Individual-level controls										
Age 17-19 $1.63 ***$ $1.52 ***$ $1.63 ***$ $1.63 ***$ $1.63 ***$ $1.63 ***$ $1.52 ***$ $1.96 ***$ $1.52 ***$ $1.96 ***$ Age 20-23 $1.70 ***$ $1.61 ***$ $2.33 ****$ $1.81 ***$ $1.60 ***$ $2.36 ****$ Age 30-39 $1.42 **$ $1.08$ $2.05 ****$ $1.44 ***$ $1.08$ $2.08 ****$ $1.43 ***$ $1.08$ $2.07 ****$ Age 30-39 $1.42 **$ $1.21 +$ $1.24 +$ $1.26 ***$ $1.24 ***$ $1.24 ****$ $1.24 ****$ $1.24 ****$ $1.24 ******$ $1.24 ***********$ Primary education $0.56 *****$ $0.39 *****$ $0.34 ************************************$	Female	2.99 ***	6.42 ***	1.01	2.98 ***	6.41 ***	1.00	2.98 ***	6.41 ***	1.00	
Age 20-24       1.82***       1.61***       2.37****       1.83***       1.61***       2.36****       1.70****       1.70       2.33****       1.70****       1.70       2.33****       1.70****       1.70       2.33****       1.70****       1.70       2.33****       1.70****       1.70       2.33****       1.70****       1.70       2.33****       1.70****       1.70       2.33****       1.70****       1.70       2.33****       1.70****       1.71       2.33****       1.70****       1.71       2.33****       1.70****       1.72       2.33****       1.70****       1.72       2.33****       1.70****       1.72       2.33****       1.72       1.72***       1.24*       1.24*       1.24*       1.24*       1.24*       1.24*       1.24*       1.24*       1.24*       1.24*       1.24*       1.24*       0.36***       0.34***       0.36***       0.34***       0.36***       0.24***       0.36***       0.24***       0.36***       0.24***       0.36***       0.24***       0.36***       1.01*       1.01**       1.01**       1.01**       1.01**       1.01**       1.01**       1.01**       1.01**       1.01**       1.01**       1.01**       1.01**       1.01**       1.01** <th1.01< th="">       1.11       1.1</th1.01<>	Age 17-19	1.63 ***	1.52 ***	1.98 ***	1.63 ***	1.52 ***	1.98 ***	1.62 ***	1.52 ***	1.96 ***	
Age 25-291.70***1.172.81***1.70***1.702.83***1.42*1.082.08***1.43**1.082.03***0.440.08***1.43**1.082.03***0.940.67***0.55***0.940.67***0.55***0.940.65***0.940.56***0.950.950.95*0.950.950.950.950.950.950.950.9	Age 20-24	1.82 ***	1.61 ***	2.37 ***	1.83 ***	1.61 ***	2.38 ***	1.81 ***	1.60 ***	2.36 ***	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Age 25-29	1.70 ***	1.17	2.81 ***	1.70***	1.17	2.84 ***	1.70 ***	1.17	2.83 ***	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Age 30-39	1.42 *	1.08	2.05 ***	1.44 **	1.08	2.08 ***	1.43 **	1.08	2.07 ***	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Child of head	1.26 **	1.21 +	1.23 +	1.26 **	1.21 +	1.24 +	1.26 **	1.22 +	1.24 +	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Primary education	0.67 ***	0.55 ***	0.94	0.67***	0.55 ***	0.94	0.67 ***	0.55 ***	0.94	
Has chid $0.24 *** 0.18 ***$ $0.36 ***$ $0.24 *** 0.18 ***$ $0.36 ***$ $0.24 *** 0.18 ***$ $0.36 ***$ $0.36 ***$ $0.36 ***$ $0.36 ***$ $0.36 ***$ $0.36 ***$ $0.36 ***$ $0.36 ***$ $0.36 ***$ $0.36 ***$ $0.36 ***$ $0.97 + 0.99 + 1.00$ $0.97 + 0.99 + 1.00 + 0.97 + 0.99 + 1.01 **$ $1.01 ** - 1.01 ** + 1.01 **$ $1.01 ** - 1.01 ** + 1.01 **$ $1.01 ** - 1.01 ** + 1.01 **$ $1.01 ** - 1.01 ** + 1.01 **$ $1.01 ** - 1.01 ** - 1.01 ** + 1.01 **$ $1.01 ** - 1.01 ** + 1.01 **$ $1.01 ** - 1.01 ** + 1.01 **$ $1.01 ** - 1.01 ** + 1.01 **$ $1.01 ** - 1.01 ** + 1.01 **$ $1.01 ** - 1.01 ** + 1.01 **$ $1.04 ** + 1.04 ** + 1.18 + 1.18 * - 1.17 * + 1.18 * + 1.18 * + 1.17 * + 1.18 * + 1.18 * + 1.17 * + 1.18 * + 1.18 * + 1.17 * + 1.18 * + 1.18 * - 1.17 * + 1.18 * + 1.18 * - 1.17 * - 1.18 * + 1.16 * - 1.17 * - 1.18 * + 1.17 * - 1.18 * + 1.16 * - 1.00 * 0.90 ** - 0.98 * - 0.88 * - 0.81 * - 0.81 * - 0.73 ** * - 1.01 * - 0.99 * - 0.99 * - 0.99 * - 0.99 * - 0.99 * - 0.99 * - 0.99 * $	Secondary education	0.56 ***	0.39 ***	0.94	0.56 ***	0.39 ***	0.93	0.56 ***	0.39 ***	0.94	
Household-level controlsHousehold size0.991.000.97+0.991.010.97+0.991.010.97+0.991.010.97+Proportion of minors1.01***1.01***1.01**1.01*** <td>Has a child</td> <td>0.24 ***</td> <td>0.18 ***</td> <td>0.36 ***</td> <td>0.24 ***</td> <td>0.18 ***</td> <td>0.36 ***</td> <td>0.24 ***</td> <td>0.18 ***</td> <td>0.36 ***</td>	Has a child	0.24 ***	0.18 ***	0.36 ***	0.24 ***	0.18 ***	0.36 ***	0.24 ***	0.18 ***	0.36 ***	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Household-level controls										
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Household size	0.99	1.00	0.97 +	0.99	1.00	0.97 +	0.99	1.00	0.97 +	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Proportion of minors	1.01 ***	1.01 **	1.01 +	1.01 ***	1.01 **	1.01*	1.01 ***	1.01 **	1.01 *	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Head is female	0.97	0.82	1.25	0.97	0.82	1.26	0.98	0.82	1.26	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Head is non-Muslim	0.76*	0.60*	1.05	0.75*	0.60*	1.05	0.75 *	0.59*	1.04	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Head has primary education	1.13	1.10	1.13	1.12	1.10	1.11	1.12	1.09	1.11	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Head has secondary education	1.24 **	1.19+	1.28*	1.24 **	1.18	1.26*	1.24 **	1.19+	1.26*	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Ln(expenditures per capita)	1.17*	1.16	1.17 +	1.17*	1.17 +	1.18 +	1.18*	1.17+	1.18 +	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Ln(land area+1)	0.98	1.03	0.89 **	0.98	1.04	0.90 **	0.98	1.04	0.90 **	
Vilage and thana-level controlsRich community1.30 ** 1.56 **1.02 $1.29 **$ $1.54 **$ $1.01$ $1.29 **$ $1.53 **$ $1.01$ Poor community1.051.001.11 $1.05$ $1.00$ $1.11$ $1.04$ $1.00$ $1.11$ Jute-producing community0.85 *0.82 *0.840.85 * $0.82 *$ $0.84 *$ $0.81 *$ $0.81 *$ $0.81 *$ $0.83 +$ Community has a school0.940.81 ** $1.16$ $0.95$ $0.82 **$ $1.18$ $0.94$ $0.82 **$ $1.17$ Subdist: propensity of local moves $0.98$ $0.99$ $0.94$ $0.99$ $0.84 **$ $0.99$ </td <td>Land with irrigation</td> <td>0.97</td> <td>0.92</td> <td>1.05</td> <td>0.97</td> <td>0.92</td> <td>1.05</td> <td>0.97</td> <td>0.93</td> <td>1.05</td>	Land with irrigation	0.97	0.92	1.05	0.97	0.92	1.05	0.97	0.93	1.05	
Rich community $1.30 ** 1.56 **$ $1.02$ $1.29 ** 1.54 **$ $1.01$ $1.29 ** 1.53 **$ $1.01$ Por community $1.05$ $1.00$ $1.11$ $1.05$ $1.00$ $1.11$ $1.04$ $1.00$ $1.11$ Jute-producing community $0.85 *$ $0.82 *$ $0.84$ $0.85 *$ $0.82 *$ $0.83 +$ $0.84 *$ $0.81 *$ $0.83 +$ Community has a road $0.90 - 90 - 90 - 90 - 90 - 90 - 90 - 90 $	Village and thana-level controls										
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Rich community	1.30 **	1.56**	1.02	1.29**	1.54 **	1.01	1.29 **	1.53 **	1.01	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Poor community	1.05	1.00	1.11	1.05	1.00	1.11	1.04	1.00	1.11	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Jute-producing community	0.85*	0.82*	0.84	0.85*	0.82*	0.83 +	0.84 *	0.81 *	0.83 +	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Community has a road	0.80	0.97	0.63 *	0.81	0.97	0.63*	0.77*	0.90	0.62 **	
Subdist. propensity of local moves $0.98$ $0.98$ $0.99$ $0.99$ $0.99$ $0.99$ $0.99$ $1.00$ Subdist. propensity of out-migration $1.00$ $1.00$ $0.99$ $1.00$ $1.00$ $0.99$ $1.02$ $1.03$ $1.00$ ShocksImage: strain of the strain of th	Community has a school	0.94	0.81 **	1.16	0.95	0.82 **	1.18	0.94	0.82 **	1.17	
Subdist: propensity of out-migration 1.001.001.001.001.00Subcist: propensity of out-migration 1.000.991.001.001.001.00Subdist: propensity of out-migration 1.000.991.001.001.001.00Subdist: propensity of out-migration 1.000.991.021.031.00Subdistric mean losses1.001.001.000.99Household0.62 *** 0.67 *0.53 ***Percent exposed in thana1.04 *** 1.04 ***1.040.99I.001.040.991.09I.011.120.99I.040.991.040.99I.011.120.94Crop losses0.44 *** 1.04 ***1.040.99I.040.990.53 ***I.040.990.84 **0.90I.020.97Percent exposed in thana1.011.020.97 <t< td=""><td>Subdist, propensity of local moves</td><td>0.98</td><td>0.98</td><td>0.99</td><td>0.98</td><td>0.98</td><td>0.99</td><td>0.99</td><td>0.99</td><td>1.00</td></t<>	Subdist, propensity of local moves	0.98	0.98	0.99	0.98	0.98	0.99	0.99	0.99	1.00	
Shocks       Image: Shocks	Subdist, propensity of out-migration	n 1.00	1.00	0.99	1.00	1.00	0.99	1.02	1.03	1.00	
Flood exposure: in household1.080.931.31 +Percent exposed in thana1.001.000.991.000.099Household losses1.040.991.09 +Subdistrict mean losses0.62 *** 0.67 *0.53 ***Percent exposed in thana1.04 *** 1.04 ***1.03 **1.04 ***Household losses0.62 *** 0.67 *0.53 ***Subdistrict mean losses0.4***1.03 **1.04 ***Household losses0.991.020.97Subdistrict mean losses0.980.97 +0.99Livestock death: in household0.990.980.97 +Percent exposed in thana0.980.97 +0.990.98Household losses0.97 +0.990.980.70 **Jubdistrict mean losses0.97 +0.990.980.70 **Health shock: in household0.87 *0.930.79 *Percent exposed in thana1.01 *1.03 ***1.001.02 *Health shock: in household0.87 *0.930.79 *Percent exposed in thana1.01 *1.03 ***1.001.02 *Household losses0.970.980.96Subdistrict mean losses0.970.980.96Joint tests (χ²)1.051.20 +0.95Flooding001141Year indicators86 ***51 ****40 ***51 ****40 ***Year indicators120 ***92 ***149 ***117 *** <td>Shocks</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Shocks										
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Flood exposure: in household				1.08	0.93	1.31 +				
Household losses1.040.991.09 +Subdistrict mean losses $0.62 *** 0.67 *$ $0.53 ***$ $1.01$ $1.12 +$ $0.94$ Crop loss: in household $0.62 *** 0.67 *$ $0.53 ***$ $1.04 ***$ $1.04 ***$ $0.94$ Percent exposed in thana $1.04 *** 1.04 ***$ $1.03 **$ $1.04 ***$ $1.04 ***$ $0.99$ $1.09 +$ Household losses $0.62 *** 0.67 *$ $0.53 ***$ $1.04 ***$ $0.94 ***$ $0.94 ***$ Subdistrict mean losses $0.99 **$ $0.99 **$ $0.90 ***$ $0.73 ***$ Livestock death: in household $0.99 * 0.99 *$ $0.99 * 0.98 **$ $0.99 **$ Percent exposed in thana $0.98 * 0.97 +$ $0.99 * 0.98 *$ $0.99 * 0.98 **$ $0.99 * 0.98 **$ Household losses $0.99 * 0.98 * 0.97 +$ $0.99 * 0.98 * 1.02 ***$ $0.76 ** 0.71 *** **$ $0.82 *** ** ** *** *** *** *** *** *** ***$	Percent exposed in thana	1.00	1.00	0.99	1.00	1.00	0.99				
Subdistrict mean losses $1.01$ $1.12 +$ $0.94$ Crop loss: in household $0.62 * * * 0.67 *$ $0.53 * * * *$ $1.04 * * * 1.04 * * *$ $1.04 * * * 1.04 * * *$ $1.04 * * * 1.04 * * *$ $1.04 * * * 1.04 * * *$ $1.04 * * * 1.04 * * *$ $1.04 * * * 1.04 * * *$ $1.04 * * * 1.04 * * *$ $1.04 * * * 1.04 * * *$ $1.04 * * * 1.04 * * *$ $1.04 * * * 1.04 * * *$ $0.62 * * * 0.67 *$ $1.04 * * * 1.04 * * *$ $1.04 * * * 1.04 * * *$ $1.04 * * * 1.04 * * *$ $0.62 * * * 0.67 *$ $1.04 * * * 1.04 * * *$ $0.62 * * * 0.67 *$ $1.04 * * * 1.04 * * *$ $0.62 * * * 0.67 *$ $1.04 * * * 1.04 * * *$ $0.84 * * 0.90$ $0.73 * * * * * * * * * * * 1.09 * * 1.00 * * 0.99 * 0.98 * 1.02 * 0.97 * 0.99 * 0.98 * 1.02 * 0.97 * 0.98 * 0.96 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.00 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * 1.05 * 1.20 * * 0.95 * * 0.95 * * 0.95 * * 0.95 * 0.96 * 1.05 * 0.96 * *$	Household losses							1.04	0.99	1.09 +	
Crop loss: in household Percent exposed in thana Household losses $0.62 *** 0.67 * 0.53 *** \\ 1.04 *** 1.04 *** 1.04 *** 1.04 *** 1.03 ** \\ 1.04 *** 1.00 *** 1.07 *** 1.07 *** 1.07 *** 1.09 *** 1.07 *** 1.09 *** 1.07 *** 1.09 *** 1.07 *** 1.09 *** 1.07 *** 1.09 *** 1.07 *** 1.09 *** 1.07 *** 1.09 *** 1.07 *** 1.00 *** 1$	Subdistrict mean losses							1.01	1.12+	0.94	
Percent exposed in thana Household losses $1.04 *** 1.04 *** 1.03 ** 1.03 ** 1.04 *** 1.04 $	Crop loss: in household				0.62 ***	0.67*	0.53 ***				
Household losses Subdistrict mean losses $0.90 + 1.02 + 1.03 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.00 + 1.01 + 1.01 + 1.00 + 1.01 + 1.00 + 1.01 + 1.01 + 1.01 + 1.00 + 1.01 + 1.00 + 1.01 + 1.01 + 1.01 + 1.01 + 1.00 + 1.01 + 1.01 + 1.01 + 1.01 + 1.01 + 1.00 + 1.01 + 1.00 + 1.01 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.01 + 1$	Percent exposed in thana	1.04 ***	1.04 ***	1.03 **	1.04 ***	1.04 ***	1.04 ***				
Subdistrict mean losses $1.49 **$ $1.67 ***$ $1.39$ Livestock death: in household $0.98$ $0.97 +$ $0.99$ $1.02$ $0.97$ Percent exposed in thana $0.98$ $0.97 +$ $0.99$ $0.98$ $0.97 +$ $0.99$ Household losses $0.99$ $0.98$ $0.97 +$ $0.99$ $0.99$ $0.99$ $0.98$ Subdistrict mean losses $0.97 +$ $0.99$ $0.99 +$ $0.99  0.98 +$ $1.02 +$ Health shock: in household $0.87 *$ $0.93  0.79 *$ $0.76  0.71  0.82 -$ Health shock: in household $0.87 *$ $0.93  0.79 *$ $0.97  0.98  0.96 -$ Household losses $0.97  0.98  0.97  0.98  0.96 -$ Subdistrict mean losses $0.0  1.02 *$ $1.03 ***  1.00 -$ Household losses $0.97  0.98  0.96  0.97  0.98 -$ Subdistrict mean losses $0.0  1.02 *$ $1.03 ***  1.00  0.97  0.98 -$ Joint tests ( $\chi^2$ ) $\gamma^2$ $\gamma^2 ***  \gamma^2 ***  \gamma^2$	Household losses							0.84 **	0.90	0.73 ***	
Livestock death: in household Percent exposed in thana $0.98$ $0.97 +$ $0.99$ $1.02$ $0.97$ Household losses Subdistrict mean losses $0.98$ $0.97 +$ $0.99$ $0.99$ $0.99$ $0.99$ $0.99$ Health shock: in household Percent exposed in thana $1.01*$ $1.03***$ $1.00$ $0.87*$ $0.93$ $0.79*$ Health shock: in household Percent exposed in thana $1.01*$ $1.03***$ $1.00$ $1.02*$ $1.03***$ $1.00$ Household losses Subdistrict mean losses $0.97$ $0.98$ $0.99$ $0.98$ $0.99$ Joint tests ( $\chi^2$ ) Flooding $0$ $0$ $1$ $1$ $1$ $4$ $1$ $3$ $3$ Crop losses Year indicators $27***$ $18***$ $7**$ $55***$ $25***$ $28***$ $17***$ $14***$ $13**$ Thana indicators $120***$ $92***$ $149***$ $117***$ $91***$ $146***$ $90***$ $67***$ $136***$	Subdistrict mean losses							1.49**	1.67 ***	1.39	
Percent exposed in thana $0.98$ $0.97+$ $0.99$ $0.98$ $0.97+$ $0.99$ Household losses $0.99$ $0.98$ $0.97+$ $0.99$ $0.99$ $0.99$ $0.98$ $1.02$ Subdistrict mean losses $0.87*$ $0.93$ $0.79*$ $0.76$ $0.71$ $0.82$ Health shock: in household $0.87*$ $0.93$ $0.79*$ $0.97$ $0.98$ $0.99$ Percent exposed in thana $1.01*$ $1.03***$ $1.00$ $1.02*$ $1.03***$ $1.00$ Household losses $0.97$ $0.98$ $0.97$ $0.98$ $0.96$ Subdistrict mean losses $0.97$ $0.98$ $0.96$ Joint tests ( $\chi^2$ ) $1.05$ $1.20+$ $0.95$ Flooding $0$ $0$ $1$ $1$ $1$ $4$ Year indicators $86**5$ $51***$ $40***$ $87***51***$ $40***$ Thana indicators $120***$ $92***$ $149***$ $117***$ $91***$ $146***$ $90***$ $67***$	Livestock death: in household				0.99	1.02	0.97			/	
Household losses $0.99$ $0.98$ $1.02$ Subdistrict mean losses $0.87*$ $0.93$ $0.79*$ Health shock: in household $0.87*$ $0.93$ $0.79*$ Percent exposed in thana $1.01*$ $1.03***$ $1.00$ $1.02*$ $1.03***$ Household losses $0.97$ $0.98$ $0.96$ Subdistrict mean losses $0.97$ $0.98$ $0.96$ Subdistrict mean losses $0.97$ $0.98$ $0.96$ Joint tests ( $\chi^2$ ) $1.01*$ $1.01*$ $1.01*$ $1.02*$ Flooding $0$ $0$ $1$ $1$ $1$ $4$ Year indicators $86**5$ $51***$ $40***$ $87***51***$ $40***$ Thana indicators $120***$ $92***$ $149***$ $117***$ $91***$ $146***$ $90***$ $67***$	Percent exposed in thana	0.98	$0.97 \pm$	0.99	0.98	0.97 +	0.99				
Subdistrict mean losses $0.76$ $0.71$ $0.82$ Health shock: in household $0.87*$ $0.93$ $0.79*$ Percent exposed in thana $1.01*$ $1.03***$ $1.00$ $1.02*$ $1.03***$ $1.00$ Household losses $0.97$ $0.98$ $0.96$ Subdistrict mean losses $0.07$ $0.98$ $0.96$ Joint tests ( $\chi^2$ ) $1.03***$ $1.01*$ $1.01*$ $1.03***$ Flooding $0$ $0$ $1$ $1$ $1$ $4$ Crop losses $27***$ $18***$ $7**$ $55***$ $28***$ $17***$ Year indicators $86***$ $51***$ $40***$ $87***$ $51***$ $40***$ Thana indicators $120***$ $92***$ $149***$ $117***$ $91***$ $146***$ $90***$ $67***$	Household losses							0.99	0.98	1.02	
Health shock: in household Percent exposed in thana $0.87 * 0.93 \\ 1.01 * 1.03 *** 1.00$ $0.79 * \\ 1.02 * 1.03 *** 1.00$ Household losses Subdistrict mean losses $0.97 & 0.98 \\ 1.05 & 1.20 + 0.95$ Joint tests ( $\chi^2$ ) Flooding Crop losses Year indicators $0 & 0 & 1 \\ 27 ** 18 *** 7 ** 55 *** 25 *** 28 *** 17 *** 14 *** 13 ** 13 ** 100 *** 60 *** 63 *** 100 *** 60 *** 63 *** 100 *** 60 *** 63 *** 149 *** 117 *** 91 *** 146 *** 90 *** 67 *** 136 ***$	Subdistrict mean losses							0.76	0.71	0.82	
Percent exposed in thana $1.01*$ $1.03***$ $1.00$ $1.02*$ $1.03***$ $1.00$ Household losses $0.97$ $0.98$ $0.96$ Subdistrict mean losses $1.05$ $1.20+$ $0.95$ Joint tests ( $\chi^2$ )       Flooding $0$ $0$ $1$ $1$ $1$ $4$ $1$ $3$ $3$ Crop losses $27***$ $18***$ $7**$ $55***$ $25***$ $28***$ $17***$ $14***$ $13**$ Year indicators $86***51$ $***$ $40***$ $87***51***$ $40***$ $100***$ $60***$ $63***$ Thana indicators $120***$ $92***$ $149***$ $117***$ $91***$ $146***$ $90***$ $67***$ $136***$	Health shock: in household				0.87*	0.93	0.79*				
Household losses $0.97$ $0.98$ $0.96$ Subdistrict mean losses $1.05$ $1.20 + 0.95$ Joint tests ( $\chi^2$ ) $1.05$ $1.20 + 0.95$ Flooding $0$ $0$ $1$ $1$ $4$ Crop losses $27 * * 18 * * 7 * 55 * * 25 * * 28 * * 17 * * 14 * * 13 * * 13 * 14 * * 13 * 13 *$	Percent exposed in thana	1.01*	1.03 ***	1.00	1.02*	1.03 ***	1.00				
Subdistrict mean losses $1.05$ $1.20 +$ $0.95$ Joint tests $(\chi^2)$ $0$ $0$ $1$ $1$ $1$ $4$ $1$ $3$ $3$ Flooding $0$ $0$ $1$ $1$ $1$ $4$ $1$ $3$ $3$ Crop losses $27**$ $18**$ $7*$ $55**$ $25**$ $28**$ $17**$ $14***$ $13**$ Year indicators $86**$ $51***$ $40***$ $87***$ $51***$ $40***$ $100***$ $60***$ $63***$ Thana indicators $120***$ $92***$ $149***$ $117***$ $91***$ $146***$ $90***$ $67***$ $136***$	Household losses							0.97	0.98	0.96	
The first of th	Subdistrict mean losses							1.05	1.20 +	0.95	
Flooding001114133Crop losses $27***$ $18***$ $7**$ $55***$ $25***$ $28***$ $17***$ $14***$ $13**$ Year indicators $86**$ $51***$ $40***$ $87***$ $51***$ $40***$ $100***$ $60***$ $63***$ Thana indicators $120***$ $92***$ $149***$ $117***$ $91***$ $146***$ $90***$ $67***$ $136***$	Joint tests $(\gamma^2)$									****	
Crop losses       27***       18 ***       7 **       55 ***       25 ***       28 ***       17 ***       14 ***       13 **         Year indicators       86 ***       51 ***       40 ***       87 ***       51 ***       40 ***       100 ***       60 ***       63 ***         Thana indicators       120 ***       92 ***       149 ***       117 ***       91 ***       146 ***       90 ***       67 ***       136 ***	Flooding	0	0	1	1	1	4	1	3	3	
Year indicators $86^{***}$ $51^{***}$ $40^{***}$ $87^{***}$ $51^{***}$ $40^{***}$ $100^{***}$ $60^{***}$ $63^{***}$ Thana indicators $120^{***}$ $92^{***}$ $149^{***}$ $117^{***}$ $91^{***}$ $146^{***}$ $90^{***}$ $67^{***}$ $136^{***}$	Crop losses	27 ***	18 ***	7 **	55 ***	25 ***	28 ***	17***	14 ***	13**	
Thana indicators 120*** 92 *** 149*** 117*** 91*** 146*** 90*** 67*** 136***	Year indicators	86 ***	51 ***	40 ***	87 ***	51 ***	40 ***	100 ***	60 ***	63 ***	
	Thana indicators	120 ***	92 ***	149 ***	117 ***	91 ***	146 ***	90 ***	67 ***	136 ***	

Model also includes indicators for thana and year, not shown. + p < 0.10, \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

**S7**. Full results of Specification D, including odds ratios and significance tests.

		Multir	nomial		Logit by subpopulation	lation		
Predictor	Logit	In district	Out of district	Men	Women	Low PCE	Medium PCE	High PCE
Individual-level controls								
Female	2.98***	6.40***	1.00	-	-	3.93***	3.50***	2.19***
Age 17-19	1.63***	1.54***	1.98***	1.61***	1.83***	1.73***	1.65***	1.66***
Age 20-24	1.83***	1.62***	2.39***	1.91***	2.20***	1.95***	1.92***	1.92***
Age 25-29	1.70***	1.18	2.86***	2.04***	1.72**	1.87**	1.79***	1.67***
Age 30-39	1.43*	1.07	2.09***	1.91***	0.83	1.18	1.22	1.72**
Child of head	1.26**	1.22 +	1.24+	0.48***	2.18***	1.25	1.63**	1.03
Primary education	0.67***	0.54***	0.94	0.77*	0.59***	0.60***	0.68**	0.66***
Secondary education	0.56***	0.39***	0.94	0.84	0.36***	0.54**	0.53***	0.58***
Has a child	0.24***	0.18***	0.36***	0.40***	0.20***	0.20***	0.23***	0.30***
Household-level controls								
Household size	0.99	1.00	0.97 +	1.01	0.99	0.98	0.99	0.99
Proportion of minors	1.01***	1.01**	1.01 +	1.01*	1.01**	1.01*	1.01*	1.00 +
Head is female	0.98	0.83	1.25	0.85	1.19	0.83	0.94	1.23
Head is non-Muslim	0.75*	0.59*	1.03	0.63*	0.75*	0.44*	0.99	0.87
Head has primary education	1.12	1.10	1.11	1.07	1.09	1.22	0.98	1.16
Head has secondary education	1.24**	1.20 +	1.26*	1.15	1.15	1.06	1.32+	1.24*
Ln(expenditures per capita)	1.17*	1.16+	1.18 +	1.33**	1.05	0.94	1.79+	1.01
Ln(land area+1)	0.98	1.04	0.90**	0.93*	1.03	1.00	1.03	0.97
Land with irrigation	0.97	0.93	1.05	0.98	0.94	0.87	1.01	1.09
Village and thana-level controls								
Rich community	1.29**	1.54**	1.01	1.19	1.24	0.99	1.70***	1.34
Poor community	1.05	1.00	1.12	1.09	1.06	1.31*	0.87	1.22
Jute-producing community	0.84*	0.81*	0.83+	0.80*	0.90	0.77	0.94	0.81 +
Community has a road	0.79+	0.92	0.65*	0.64*	0.95	0.61**	0.79	0.93
Community has a school	0.95	0.82**	1.18	0.93	0.97	0.99	0.76**	0.98
Thana propensity of local moves	0.98 +	0.98	0.99	0.98	0.98	0.98	0.95*	1.02
Thana propensity of out-migration	1.00	1.01	1.00	1.03	0.97	0.98	1.02	0.98
Shocks								
Flood exposure: in household	1.08	0.93	1.29	0.99	1.11	0.86	0.97	1.30
5-20% exposed in thana	1.08	1.57***	0.72 +	0.89	1.36*	1.59*	0.94	1.04
>20% exposed in thana	0.93	1.12	0.73	0.91	0.99	0.90	0.91	1.04
Crop loss: in household	0.64***	0.69*	0.54***	0.63**	0.68*	0.55*	0.79	0.52**
5-20% exposed in thana	1.19+	1.45**	0.96	1.13	1.31*	1.32 +	1.25	1.04
>20% exposed in thana	2.38***	2.97***	1.82**	1.91***	2.78***	2.42**	2.36**	2.53***
Livestock death: in household	0.96	0.99	0.95	0.91	1.05	1.00	0.94	0.90
5-20% exposed in thana	1.12	1.12	1.08	1.02	1.22+	1.33*	1.09	0.98
>20% exposed in thana	1.51	1.27	2.18	2.35*	1.10	0.88	2.69+	0.88
Health shock: in household	0.87 +	0.95	0.79*	0.79*	1.00	0.65***	0.98	0.96
5-20% exposed in thana	1.15	1.02	1.39+	1.33	1.02	1.19	0.97	1.10
>20% exposed in thana	1.49+	1.63+	1.21	1.55	1.41	1.59	1.13	1.52
<b>Joint tests</b> $(\chi^2)$								
Flooding	2	12**	7+	1	6	8*	0	3
Crop losses	50***	28***	28***	23***	19***	14**	8*	24***
Year indicators	106***	62***	60***	43***	69***	53***	953***	73***
Thana indicators	120***	118***	151***	108***	92***	49***	91***	50***

Model also includes indicators for thana and year, not shown.

PCE = per capita expenditure

+ p<0.10, \* p<0.05, \*\* p<0.01, \*\*\* p<0.001

S8. Main results of Specifications E-H, including odds ratios, significance tests, and IV coefficients.

	Lo	git		Multi	nomial		Descriptive values		
Exposure to natural disasters		All mobility		strict	Out of				
T. C. L 194 94 W. L		Jointy	in un		dıst	rıct	Mean	SD	
E. Subdistrict A household interactions	0.82		0.21	*	1 5 5		0.01	0.09	
Subdictrict moderate X household no	0.85		0.51	**	1.55		0.01	0.08	
Subdistrict moderate X household no	1.07		1.30		0.72	Ŧ	0.06	0.23	
Subdistrict modelate A household no	1.13		1.56		0.95		0.01	0.08	
Subdistrict severe X household use	0.90		1.02		0.75		0.07	0.23	
Subdistrict severe X household yes	1.05		1.15		0.91		0.04	0.20	
Crop failure: subdistrict low X nousehold yes	0.71	+	0.74	**	0.55		0.01	0.09	
Subdistrict moderate X household no	1.19	+	1.46	**	0.95		0.19	0.39	
Subdistrict moderate X household yes	0.75		0.97	ala ala ala	0.55	+	0.03	0.16	
Subdistrict severe X household no	2.39	***	2.96	***	1.84	* *	0.03	0.16	
Subdistrict severe X household yes	1.53		2.11	~	0.96		0.01	0.10	
F. Multiple temporal lags									
Flooding: Household exposed in year t	1.26		1.11		1.50	+	0.03	0.16	
Household exposed in year t-1	0.92		0.81		1.10		0.03	0.17	
Percent exposed in subdistrict in year t	1.00		1.00		0.99		2.33	7.19	
Percent exposed in subdistrict in year t-1	1.00		1.01	+	0.99		2.41	7.30	
Crop failure: Household exposed in year t	0.67	*	0.84		0.42	***	0.02	0.16	
Household exposed in year t-1	0.57	**	0.48	**	0.66		0.02	0.15	
Percent exposed in subdistrict in year t	1.03	***	1.03	**	1.03	*	1.97	3.92	
Percent exposed in subdistrict in year t-1	1.05	***	1.05	***	1.04	**	1.83	3.73	
G. Stratified by baseline survey									
Survey 1 ( $n = 5,855$ )									
Flooding: Household exposed	0.95		0.86		1.14		0.06	0.23	
Percent exposed in subdistrict	0.99	*	0.99		0.97	**	4.31	10.84	
Crop failure: Household exposed	1.04		1.09		0.91		0.05	0.22	
Percent exposed in subdistrict	1.02		1.07	***	0.94		2.54	4.29	
Survey 2 ( $n = 21,857$ )									
Flooding: Household exposed	1.32	*	1.16		1.46	*	0.05	0.22	
Percent exposed in subdistrict	1.00		1.00		1.00		4.36	9.44	
Crop failure: Household exposed	0.52	***	0.51	*	0.52	**	0.04	0.19	
Percent exposed in subdistrict	1.02	+	1.03		1.02		3.50	5.46	
Survey 3 $(n = 4,517)$									
Flooding: Household exposed	0.83		0.68		1.25		0.08	0.28	
Percent exposed in subdistrict	0.99		0.99		0.99		7.06	11.25	
Crop failure: Household exposed	0.64	+	0.86		0.38	*	0.09	0.28	
Percent exposed in subdistrict	1.03	*	1.01		1.05	*	6.61	8.58	
H. IV model: Cost-based measures of exposure <sup>2,3</sup>									
Endogenous variables									
Ln(household flooding losses +1)	0.10	+	0.06		0.04		0.15	0.64	
$L_n(household cron losses +1)$		*	0.21	*	0.14	+	0.11	0.51	
Specification tests									
Underidentification (Kleibergen-Paan)	11.2	*	114	**	114	**	-	-	
Overidentification (Hansen)	0.2		0.8		0.1		-	-	
Weak identification (Cragg-Donald)	8.	5	8.	8	8.	8	-	-	

Models also include control variables and indicators for the subdistrict and year. + p < 0.10, \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001<sup>1</sup> Reference category is "subdistrict low, household no". <sup>2</sup> Losses measured in '000 taka.

<sup>3</sup> Second stage results from three linear instrumental variables models of mobility, presented as untransformed coefficients. Models for overall, within-district and out-of-district mobility were each estimated separately using the two-step generalized method of moments estimator. N = 26,211

**S9**. First stage results of the instrumental variables model, Specification H.

	Endoge	nous variables
Exogenous variables	Ln(household flooding losses +1)	Ln(household crop losses +1)
Individual controls		
Female	-0.01	0.00
Age 17-19	0.00	-0.01
Age 20-24	0.00	0.01
Age 25-29	0.01	0.01
Age 30-39	0.02	0.04 +
Child of head	-0.02	0.01
Primary education	0.01	0.01
Secondary education	-0.01	-0.01
Has a child	-0.01	-0.02
Household controls		
Household size	0.02 **	0.01 +
Proportion of minors	0.00	0.00 **
Head is female	-0.06	0.02
Head is non-Muslim	-0.06	-0.05
Head has primary education	0.00	-0.06 **
Head has secondary education	0.07 *	-0.02
Ln(expenditures per capita)	0.03	0.03
Ln(land area+1)	0.01	0.03 ***
Land with irrigation	0.05 +	0.00
Village and subdistrict controls		
Rich community	-0.11 **	-0.06 *
Poor community	0.00	0.00
Jute-producing community	-0.15 **	-0.07 +
Community has a road	0.06	0.04 +
Community has a school	0.01	0.04 +
Subdistrict propensity of local moves	0.00	0.01 *
Subdistrict propensity of out-migration	0.02 **	0.00
Instruments		
Annual rainfall/median rainfall, year t	-8.31 **	2.19 +
(Annual rainfall/median rainfall) <sup>2</sup> , year t	4.04 **	-1.23 +
Annual rainfall/median rainfall, year t-1	-3.30	2.95 *
(Annual rainfall/median rainfall) <sup>2</sup> , year t-1	1.91	-1.34 *
Measures of model fit		
F test of instruments	3.96 **	3.15 *
R-squared	0.031	0.024

Notes: Models also include indicators for the subdistrict and year. Annual rainfall values were extracted at the subdistrict level from NASA's Prediction of Worldwide Energy Resources dataset (http://power.larc.nasa.gov/), which provides global daily precipitation values at 1 degree resolution from a variety of satellite sources. Because the data are restricted to the period 1997-2009, the sample size is restricted to N = 26,211 person-years.

S10. Determinants of sample attrition with alternative measures of exposure.

	Log	it	Μ	ultinon	Logi	Logit		
Predictor	All		Hous	sehold	Individual		Individ	ual
	attriti	on	10	ost	lost		lost	
Individual-level controls								
Female	1.28	*	1.33	*	1.22		1.22	
Age	0.99		0.94	+	1.06	*	1.06	*
Age squared	1.00		1.00		1.00	*	1.00	*
Child of head	0.57	**	0.50	*	0.60	*	0.61	*
Household-level controls								
Household size	0.88	**	0.77	*	0.92	*	0.93	
Proportion of minors	1.01		1.02	+	1.00		1.00	
Head is female	1.65	+	1.15		2.05	*	2.11	*
Head is non-Muslim	0.71		0.39		0.97		0.92	
Head has primary education	1.31		1.33		1.24		1.19	
Head has secondary education	1.19		0.98		1.46		1.43	
Ln(expenditures per capita)	1.37		2.08		0.84		0.90	
Ln(land area+1)	0.79	**	0.61	**	1.08		1.09	
Land with irrigation	1.02		0.99		1.26		1.29	
Community-level controls								
Rich community	1.01		1.00		1.22		1.19	
Poor community	0.81		1.19		0.59	*	0.58	*
Jute-producing community	0.94		2.10	+	0.47	*	0.52	+
Cumulative village shocks (mean an	nual per	cent of	househo	lds expo	sed in vil	lage)		
Flooding	0.90		0.81		0.99			
Crop losses	0.93		0.97		0.84	+		
Livestock deaths	0.85	*	0.74	+	0.91			
Health shocks	1.08		1.12		1.06			
Cumulative household shocks (num	ber of ti	nes ho	usehold e	exposed	over stud	y perio	od)	
Flooding							0.85	
Crop losses							0.65	*
Livestock deaths							0.93	
Health shocks							1.08	
Joint test of flooding & crop losses	2.12			4.00			4.41	
N (individuals)	6060			6060			5668	
Percent lost to follow up	6.47		3.05		3.42		3.16	

Model also includes indicators for subdistrict and year.

+ p<0.10, \* p<0.05, \*\* p<0.01, \*\*\* p<0.001

<sup>1</sup> Conditional on whole household not being lost

Note: Models also include indicators for the subdistrict. Because these models are cross-sectional rather than longitudinal, alternative measures of exposure were developed to identify disaster effects when subdistrict fixed effects are controlled. For the case of households lost to follow up, exposure is measured by the cumulative proportion of households exposed in the village. For the case of individuals lost to follow up (where household data are available), exposure is measured by the cumulative number of times the household was exposed over the study period.