

Northeast Nigeria Resilience Study
RMS Round 3
Statistical Tables (Descriptive Analyses)

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Table A3.1 Household food security indicators, RRA areas

	Average R1	Average R2	Average R3	R2-R1			R3-R2			R3-R1			Obs R1	Obs R2	Obs R3
				Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.			
Average food consumption score (0-112)	44.8	46.2	50.7	1.5	0.1869	ns	4.5	0.0056	**	6.0	0.0001	***	1,012	1,004	985
Food consumption score groups															
Poor food consumption (0-21)	10.4	8.6	5.2	-1.8	0.2002	ns	-3.3	0.1823	ns	-5.2	0.0007	***	1,012	1,004	985
Borderline food consumption (21.5-35)	27.5	26.9	23.0	-0.5	0.9009	ns	-3.9	0.3932	ns	-4.4	0.1985	ns	1,012	1,004	985
Acceptable food consumption (35.5-112)	62.1	64.5	71.7	2.4	0.5829	ns	7.2	0.1456	ns	9.6	0.0212	*	1,012	1,004	985
Household food insecurity access score (HFIAS)	10.1	10.2	10.9	0.1	0.8880	ns	0.7	0.0639	ns	0.8	0.2393	ns	1,012	1,004	985
Household food insecurity access prevalence (HFIAP)	15.4	16.2	13.1	0.7	0.6469		-3.0	0.0911		-2.3	0.2815		1,012	1,004	985
Food secure	4.3	5.7	3.8	1.4	0.4337	ns	-1.9	0.1304	ns	-0.5	0.5566	ns	1,012	1,004	985
Mildly insecure	22.8	23.5	27.1	0.7	0.8314	ns	3.6	0.1344	ns	4.3	0.3441	ns	1,012	1,004	985
Moderately insecure	57.5	54.7	56.0	-2.8	0.6346	ns	1.3	0.6616	ns	-1.5	0.8108	ns	1,012	1,004	985
Severely insecure	57.5	54.7	56.0	-2.8	0.6346	ns	1.3	0.6616	ns	-1.5	0.8108	ns	1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES: The recall period for the food consumption score refers to the seven days before the survey. The reference period for the household food insecurity access score and prevalence is 30 days before the survey.

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Table A3.2. Distribution of households by incidence of food insecurity condition (HFIAS), RRA areas

	Average R1	Average R2	Average R3	R2-R1			R3-R2			R3-R1			Obs R1	Obs R2	Obs R3
				Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.			
Worried not enough food	74.1	66.9	75.1	-7.2	0.1388	ns	8.2	0.0167	*	1.0	0.8107	ns	1,012	1,004	985
Unable to eat preferred foods	60.3	77.2	81.7	16.8	0.0056	**	4.5	0.0578	ns	21.3	0.0061	**	1,012	1,004	985
Ate limited variety of foods	67.6	70.0	74.4	2.4	0.7304	ns	4.5	0.1089	ns	6.8	0.3138	ns	1,012	1,004	985
Ate some foods that they did not want to eat	70.9	75.2	75.7	4.3	0.1335	ns	0.5	0.8219	ns	4.8	0.0630	ns	1,012	1,004	985
Ate smaller meals	68.0	63.4	67.9	-4.6	0.2005	ns	4.4	0.1076	ns	-0.2	0.9546	ns	1,012	1,004	985
Ate fewer meals per day	69.2	61.9	65.4	-7.3	0.0252	*	3.5	0.1676	ns	-3.8	0.3005	ns	1,012	1,004	985
Did not eat food of any kind	48.0	48.5	50.1	0.4	0.9460	ns	1.6	0.5008	ns	2.0	0.7859	ns	1,012	1,004	985
Went to sleep hungry	37.9	35.0	31.1	-2.9	0.5138	ns	-3.9	0.0957	ns	-6.8	0.0939	ns	1,012	1,004	985
Went a whole day and night without eating	13.4	16.9	15.1	3.5	0.4053	ns	-1.8	0.6173	ns	1.6	0.5760	ns	1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES: The reference period for the household food insecurity conditions is 30 days before the survey.

Northeast Nigeria Resilience Study Recurrent Monitoring Survey

Table A3.3. Distribution of households by types of food groups consumed (FCS), RRA areas

	Average R1	Average R2	Average R3	R2-R1			R3-R2			R3-R1			Obs R1	Obs R2	Obs R3
				Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.			
Percentage of households consuming food group in the past 7 days (%)															
Staples															
Grains	100.0	99.9	100.0	-0.1	0.3447	ns	0.1	0.4921	ns	0.0	0.3534	ns	1,012	1,004	985
Roots or tubers	53.9	51.5	52.7	-2.4	0.5924	ns	1.2	0.8093	ns	-1.1	0.8433	ns	1,012	1,004	985
Vegetables	96.5	90.0	97.5	-6.5	0.0087	**	7.5	0.0006	***	1.0	0.5911	ns	1,012	1,004	985
Fruit	37.6	54.3	90.2	16.6	0.0010	***	35.9	0.0000	***	52.5	0.0000	***	1,012	1,004	985
Meat and Fish															
Beef, mutton, pork, lamb, rat/bush meat, kundi, camel, chicken or duck	41.7	42.0	42.0	0.2	0.9454	ns	0.0	0.9906	ns	0.3	0.9080	ns	1,012	1,004	985
Eggs	17.8	13.4	12.2	-4.4	0.2396	ns	-1.2	0.3019	ns	-5.6	0.1560	ns	1,012	1,004	985
Fresh or dried fish or shellfish	24.5	39.0	40.1	14.5	0.0000	***	1.1	0.6906	ns	15.6	0.0000	***	1,012	1,004	985
Pulses	82.8	92.2	86.0	9.3	0.0000	***	-6.2	0.0299	*	3.2	0.1842	ns	1,012	1,004	985
Milk and Dairy	33.7	31.0	40.1	-2.6	0.1935	ns	9.1	0.0173	*	6.4	0.1690	ns	1,012	1,004	985
Oil	95.4	97.3	96.5	2.0	0.2200	ns	-0.8	0.4164	ns	1.2	0.4348	ns	1,012	1,004	985
Sugar	70.0	82.0	69.6	12.0	0.0065	**	-12.4	0.0390	*	-0.4	0.8615	ns	1,012	1,004	985
Condiments	98.0	98.6	95.8	0.6	0.3533	ns	-2.8	0.1111	ns	-2.2	0.2545	ns	1,012	1,004	985
Mean number of days household consumed food items (0-7)															
Staples															
Grains	6.4	6.5	6.7	0.2	0.0645	ns	0.1	0.0270	*	0.3	0.0049	**	1,012	1,004	985
Roots or tubers	1.6	1.3	1.5	-0.3	0.0126	*	0.2	0.3136	ns	-0.1	0.5032	ns	1,012	1,004	985
Vegetables	5.1	4.2	5.1	-0.8	0.0001	***	0.8	0.0054	**	0.0	0.8323	ns	1,012	1,004	985
Fruit	1.1	1.6	4.0	0.5	0.0309	*	2.3	0.0000	***	2.9	0.0000	***	1,012	1,004	985
Meat and Fish															
Beef, mutton, pork, lamb, rat/bush meat, kundi, camel, chicken or duck	1.0	0.9	1.0	0.0	0.5481	ns	0.0	0.8690	ns	0.0	0.9292	ns	1,012	1,004	985
Eggs	0.4	0.3	0.2	-0.1	0.2441	ns	-0.1	0.2350	ns	-0.2	0.0065	**	1,012	1,004	985
Fresh or dried fish or shellfish	0.6	1.0	1.1	0.4	0.0002	***	0.1	0.2030	ns	0.4	0.0000	***	1,012	1,004	985
Pulses	3.2	3.9	3.4	0.7	0.0003	***	-0.4	0.0901	ns	0.2	0.0684	ns	1,012	1,004	985
Milk and Dairy	1.2	0.9	1.4	-0.3	0.0202	*	0.5	0.0358	*	0.2	0.1434	ns	1,012	1,004	985
Oil	5.5	5.0	5.0	-0.4	0.0288	*	0.0	0.9069	ns	-0.4	0.0168	*	1,012	1,004	985
Sugar	3.4	3.1	3.0	-0.2	0.4424	ns	-0.1	0.7816	ns	-0.3	0.0005	***	1,012	1,004	985
Condiments	6.5	6.4	6.1	-0.2	0.1312	ns	-0.3	0.0960	ns	-0.4	0.0466	*	1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.05, ns = statistically nonsignificant p<0.1.

NOTES: FCS is a composite score based on dietary diversity, food frequency and relative nutritional value of the different food groups. Values are then weighted and summed to obtain the FCS. Households are categorized into consumption groups based on pre-established thresholds. The recall period for the food consumption score refers to the seven days before the survey.

Table A3. Distribution of households by types of food groups consumed (FCS), RRA areas, RMS

	Average	Average	Average	R2-R1			R3-R2			R3-R1			Obs	Obs	Obs
	R1	R2	R3	Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.	R1	R2	R3
Percentage of households experiencing shocks and stresses															
Excessive rains/ flooding	43.0	58.1	1.1	15.1	0.0048	**	-56.9	0.0000	***	-41.8	0.0000	***	1,012	1,004	985
Variable rain/drought	42.1	13.2	3.3	-28.9	0.0000	***	-9.9	0.0012	**	-38.8	0.0000	***	1,012	1,004	985
Soil erosion	12.0	7.9	0.9	-4.0	0.0223	*	-7.1	0.0010	***	-11.1	0.0000	***	1,012	1,004	985
Crop disease	34.2	36.8	5.8	2.5	0.3352	ns	-30.9	0.0000	***	-28.4	0.0000	***	1,012	1,004	985
Crop pests	51.9	55.6	17.2	3.7	0.4387	ns	-38.4	0.0000	***	-34.7	0.0000	***	1,012	1,004	985
Weeds	28.4	22.2	0.4	-6.2	0.0408	*	-21.9	0.0000	***	-28.1	0.0000	***	1,012	1,004	984
Livestock disease	41.7	32.4	33.0	-9.3	0.0000	***	0.6	0.8989	ns	-8.7	0.0494	*	1,012	1,004	985
Covid-19 illness, infection	1.3	0.0	0.0	-1.3	0.0519	ns	0.0			-1.3	0.0519	ns	1,012	1,004	983
Human disease	68.0	64.8	63.0	-3.3	0.4635	ns	-1.8	0.6572	ns	-5.1	0.4977	ns	1,012	1,003	985
Soil degradation	35.8	23.2	3.1	-12.6	0.0087	**	-20.1	0.0000	***	-32.7	0.0000	***	1,011	1,004	985
Theft or destruction of assets	20.4	14.0	9.2	-6.4	0.0478	*	-4.8	0.0434	*	-11.1	0.0103	*	1,012	1,004	985
Theft of livestock	13.1	9.3	9.9	-3.9	0.2237	ns	0.6	0.8429	ns	-3.2	0.2979	ns	1,012	1,004	985
Conflict over natural resources	8.4	3.1	2.2	-5.3	0.0021	**	-0.9	0.5993	ns	-6.2	0.0284	*	1,012	1,004	984
Community insecurity/violence	4.7	4.8	2.8	0.2	0.9409	ns	-2.0	0.2104	ns	-1.8	0.3079	ns	1,012	1,004	985
Communication black outs	19.0	10.3	13.0	-8.6	0.0230	*	2.7	0.6743	ns	-5.9	0.4726	ns	1,012	1,004	984
Energy cuts	35.6	14.9	20.6	-20.7	0.0000	***	5.6	0.3285	ns	-15.1	0.0284	*	1,012	1,003	985
Fuel shortage	25.2	18.9	35.2	-6.2	0.0313	*	16.3	0.0044	**	10.1	0.1134	ns	1,012	1,004	982
Increased fuel prices	71.1	78.4	70.7	7.3	0.0359	*	-7.7	0.0712	ns	-0.4	0.9085	ns	1,012	1,003	985
Interruptions in assistance	16.0	8.7	9.3	-7.3	0.1157	ns	0.6	0.6521	ns	-6.7	0.1768	ns	1,012	1,004	985
Increased food prices	94.0	75.9	89.9	-18.1	0.0000	***	14.1	0.0000	***	-4.0	0.0199	*	1,012	1,004	985
Food shortages in markets	9.9	3.8	1.5	-6.1	0.0009	***	-2.4	0.0188	*	-8.5	0.0010	**	1,012	1,004	985
Increased input prices	69.9	52.8	27.3	-17.2	0.0000	***	-25.4	0.0000	***	-42.6	0.0000	***	1,012	1,004	984
Unable to reach markets	5.0	1.3	1.0	-3.7	0.0009	***	-0.3	0.6786	ns	-4.0	0.0097	**	1,012	1,004	985
Reduced sales	21.5	8.0	11.7	-13.5	0.0003	***	3.7	0.1167	ns	-9.8	0.0319	*	1,012	1,004	984
Decreased prices agri/livestock products	13.0	12.2	12.0	-0.7	0.7976	ns	-0.2	0.9469	ns	-1.0	0.6588	ns	1,012	1,004	985
Input shortages	20.4	19.8	5.5	-0.5	0.9291	ns	-14.4	0.0001	***	-14.9	0.0001	***	1,012	1,003	985
Loss of land/house	8.8	5.0	4.7	-3.8	0.0035	**	-0.3	0.8090	ns	-4.1	0.0334	*	1,012	1,004	985
Job loss	12.4	2.5	3.3	-9.9	0.0002	***	0.8	0.6538	ns	-9.1	0.0000	***	1,012	1,004	985
Illness/death/health expenses	54.4	44.7	29.7	-9.7	0.0016	**	-15.0	0.0000	***	-24.7	0.0000	***	1,012	1,004	985
Displacement	2.1	0.9	0.6	-1.1	0.3343	ns	-0.4	0.3728	ns	-1.5	0.0806	ns	1,012	1,004	985
Separation from household	2.0	0.6	0.4	-1.5	0.0899	ns	-0.1	0.2346	ns	-1.6	0.0741	ns	1,012	1,004	985
Interpersonal violence	0.6	0.1	0.1	-0.5	0.0491	*	-0.1	0.5816	ns	-0.5	0.0610	ns	1,012	1,004	985
Number of shocks/stresses experienced in past 12 months (0-32)	8.9	7.0	4.9	-1.8	0.0000	***	-2.2	0.0000	***	-4.0	0.0000	***	1,012	1,004	985
Index of shock exposure (0-256)	44.0	35.5	24.2	-8.4	0.0000	***	-11.4	0.0000	***	-19.8	0.0000	***	1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES: The recall period for the survey rounds is R1, 12 months before the survey; R2, three months before the survey; and R3, six months before the survey.

Table A3.5. Coping strategies of households impacted by shocks and stresses, RRA areas

	Average	Average	Average	R2-R1			R3-R2			R3-R1			Obs	Obs	Obs
	R1	R2	R3	Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.	R1	R2	R3
Sent livestock in search of pasture	1.4	0.2	0.1	-1.2	0.0296	*	-0.1	0.7331	ns	-1.3	0.0291	*	1,008	998	970
Sold livestock	21.4	18.6	13.4	-2.8	0.6117	ns	-5.2	0.0477	*	-7.9	0.0411	*	1,008	998	970
Slaughtered livestock	7.0	8.9	8.8	1.9	0.4472	ns	-0.1	0.9693	ns	1.8	0.6862	ns	1,008	998	970
Leased out land	0.6	1.1	0.0	0.4	0.6274	ns	-1.0	0.1245	ns	-0.6	0.0817	ns	1,008	998	970
Migrated (only some family members)	0.6	0.2	10.3	-0.4	0.1406	ns	10.1	0.0166	*	9.6	0.0239	*	1,008	998	970
Migrated (the whole family)	1.8	0.3	9.9	-1.5	0.0850	ns	9.6	0.0065	**	8.1	0.0392	*	1,008	998	970
Sent children or an adult to stay with relatives	1.5	0.2	0.0	-1.3	0.0311	*	-0.2	0.1574	ns	-1.5	0.0234	*	1,008	998	970
Took children out of school	1.9	0.0	0.0	-1.8	0.0023	**	0.0	0.3510	ns	-1.9	0.0015	**	1,008	998	970
Moved to less expensive housing	1.9	0.7	0.2	-1.2	0.0503	ns	-0.5	0.2437	ns	-1.7	0.0107	*	1,008	998	970
Reduced food consumption (quantity or meals/day)	62.8	54.1	1.0	-8.8	0.0008	***	-53.1	0.0000	***	-61.8	0.0000	***	1,008	998	970
Consumed less nutritious foods or fewer types of food	49.2	45.7	1.2	-3.5	0.4185	ns	-44.5	0.0000	***	-48.0	0.0000	***	1,008	998	970
Reduced non-essential household expenses	29.8	27.1	62.6	-2.7	0.5088	ns	35.5	0.0000	***	32.9	0.0000	***	1,008	998	970
Got food on credit from a local merchant	11.3	6.2	47.9	-5.1	0.0234	*	41.7	0.0000	***	36.6	0.0000	***	1,008	998	970
Took up new/additional work (casual/wage labor, petty trade)	34.7	17.9	24.7	-16.8	0.0000	***	6.8	0.4610	ns	-10.0	0.3120	ns	1,008	998	970
Sold household items (e.g., radio, bed)	3.1	3.2	7.2	0.2	0.9307	ns	4.0	0.2623	ns	4.1	0.1460	ns	1,008	998	970
Sold productive assets (e.g., plough, water pump)	3.1	0.5	31.6	-2.7	0.0559	ns	31.2	0.0000	***	28.5	0.0000	***	1,008	998	970
Borrowed from a (formal) bank	1.8	0.4	1.5	-1.5	0.0967	ns	1.1	0.1978	ns	-0.4	0.7972	ns	1,008	998	970
Borrowed from an mi/vela/Sacco	1.9	2.7	0.1	0.8	0.6320	ns	-2.6	0.0600	ns	-1.8	0.0044	**	1,008	998	970
Borrowed from a moneylender	10.1	6.3	0.3	-3.7	0.1196	ns	-6.1	0.0104	*	-9.8	0.0007	***	1,008	998	970
Borrowed from mobile money	1.5	1.1	2.8	-0.3	0.7551	ns	1.7	0.1125	ns	1.3	0.2931	ns	1,008	998	970
Borrowed or food from friends or relatives	41.3	37.3	4.0	-4.0	0.5563	ns	-33.4	0.0000	***	-37.4	0.0000	***	1,008	998	970
Gift of money or food	18.6	6.5	1.0	-12.1	0.0001	***	-5.5	0.0002	***	-17.6	0.0000	***	1,008	998	970
Sent children to work for money (e.g., domestic service)	1.9	0.2	35.7	-1.7	0.0049	**	35.5	0.0000	***	33.8	0.0000	***	1,008	998	970
Married off daughter	0.0	0.0	13.1	0.0	0.0956	ns	13.1	0.0000	***	13.1	0.0000	***	1,008	998	970
Received emergency food aid from government or NGO	0.0	0.0	0.1	0.0	0.0956	ns	0.1	0.2372	ns	0.0	0.5973	ns	1,008	998	970
Received emergency cash transfer from the government or NGO	0.0	0.4	0.0	0.4	0.1823	ns	-0.4	0.1451	ns	0.0	0.3504	ns	1,008	998	970
Received direct food support from government or NGO	0.1	0.0	0.0	-0.1	0.2565	ns	0.0	0.3013	ns	-0.1	0.4917	ns	1,008	998	970
Received direct support cash transfer from government or NGO	0.1	0.0	0.0	-0.1	0.2306	ns	0.0	0.3541	ns	-0.1	0.1539	ns	1,008	998	970
Participated in government or NGO food-for-work or cash-for-work	0.0	0.0	0.0	0.0	0.1533	ns	0.0	0.3538	ns	0.0	0.9272	ns	1,008	998	970
Used own savings	42.4	11.7	0.0	-30.7	0.0000	***	-11.7	0.0000	***	-42.4	0.0000	***	1,008	998	970
Relied on remittances from a relative that migrated	0.5	0.2	0.1	-0.3	0.0940	ns	-0.2	0.4284	ns	-0.4	0.1055	ns	1,008	998	970
Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)	28.6	24.7	24.7	-4.0	0.4818	ns	0.0	0.9945	ns	-3.9	0.6709	ns	1,008	998	970
Went to a new supplier of inputs not visited before	2.4	0.4	0.5	-2.0	0.0672	ns	0.1	0.7679	ns	-1.9	0.0251	*	1,008	998	970
Went to a new market or contacted new customers to sell agricultural or livestock products	1.4	3.2	13.5	1.8	0.4365	ns	10.3	0.0008	***	12.1	0.0153	*	1,008	998	970
Shifted to new crop not grown before	6.6	0.7	0.1	-5.9	0.0071	**	-0.6	0.0710	ns	-6.5	0.0056	**	1,008	998	970
Shifted to new types of improved agricultural or livestock products for sale	3.0	0.1	0.4	-2.9	0.0001	***	0.3	0.1577	ns	-2.6	0.0009	***	1,008	998	970
Renegotiated agreements with input providers	1.1	0.5	0.0	-0.6	0.4265	ns	-0.5	0.1927	ns	-1.1	0.0976	ns	1,008	998	970
Renegotiated agreements with buyers of products	0.9	0.6	0.0	-0.4	0.4921	ns	-0.5	0.0521	ns	-0.9	0.0771	ns	1,008	998	970
Invested in new forms of transport or communication (vehicles, phones, computers...)	0.9	0.0	0.0	-0.9	0.0604	ns	0.0	0.3533	ns	-0.9	0.0671	ns	1,008	998	970
Sought informal support from community mediators or peace committees	1.3	0.7	0.0	-0.6	0.3745	ns	-0.7	0.1138	ns	-1.3	0.0555	ns	1,008	998	970
Sought formal recompense from judicial authorities	1.0	0.4	0.0	-0.6	0.2818	ns	-0.4	0.1876	ns	-1.0	0.1227	ns	1,008	998	970
Armed myself or my family or joined local militia	0.0	0.0	0.2	0.0	0.2169	ns	0.1	0.1689	ns	0.1	0.3269	ns	1,008	998	970
Quarantine	0.0	0.0	0.1	0.0	0.0000	***	0.1	0.1953	ns	0.1	0.1953	ns	1,008	998	970
Used physical separation to distance sick member from others	1.8	0.0	0.0	-1.8	0.1742	ns	0.0	0.6134	ns	-1.8	0.1829	ns	1,008	998	970
Avoided contact with sick member	0.6	0.7	0.0	0.2	0.8139	ns	-0.7	0.2937	ns	-0.6	0.1380	ns	1,008	998	970
Washed hands with water and soap	1.6	0.7	0.1	-0.8	0.1166	ns	-0.7	0.3303	ns	-1.5	0.1037	ns	1,008	998	970
Washed hands more frequently	2.2	0.7	0.8	-1.5	0.0262	*	0.1	0.1623	ns	-1.4	0.0389	*	1,008	998	970
Sought help at a health clinic	52.0	58.0	2.0	6.1	0.1237	ns	-56.0	0.0000	***	-50.0	0.0000	***	1,008	998	970
Got Covid-19 vaccine	1.2	0.0	2.4	-1.2	0.0630	ns	2.4	0.0935	ns	1.2	0.5179	ns	1,008	998	970
Applied pesticide to crops (for crop pests or diseases)	...	29.7	66.6	n/a	n/a	n/a	36.9	0.0000	***	n/a	n/a	n/a	...	998	970
Deworming, administered drugs (for livestock disease)	...	16.3	6.5	n/a	n/a	n/a	-9.9	0.0050	**	n/a	n/a	n/a	...	998	970

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES: Includes households that experienced at least one shock. The recall period for the survey rounds is R1, 12 months before the survey; R2, three months before the survey; and R3, six months before the survey.

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Table A3.6. Household recovery from shocks and stresses, RRA areas

	Average	Average	Average	R2-R1			R3-R2			R3-R1			Obs	Obs	Obs	
	R1	R2	R3	Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.	R1	R2	R3	
Percentage of households recovering from shocks, by type																
Excessive rains/ flooding	17.9	7.5	28.1	-10.3	0.0003	***	20.6	0.0000	***	10.2	0.0279	*	490	587	30	
Variable rain/drought	25.6	4.0	0.3	-21.6	0.0035	**	-3.7	0.1281	ns	-25.3	0.0004	***	385	153	34	
Soil erosion	31.6	11.7	0.0	-19.9	0.0002	***	-11.7	0.0812	ns	-31.6	0.0000	***	94	45	7	
Crop disease	14.3	7.3	14.7	-7.1	0.0103	*	7.4	0.2613	ns	0.3	0.9660	ns	358	361	72	
Crop pests	20.2	10.1	17.4	-10.2	0.0000	***	7.4	0.0004	***	-2.8	0.3961	ns	542	515	150	
Weeds	16.6	10.3	13.5	-6.3	0.0240	*	3.2	0.7870	ns	-3.1	0.7964	ns	331	275	10	
Livestock disease	30.0	31.1	26.9	1.0	0.8994	ns	-4.2	0.3755	ns	-3.2	0.4957	ns	422	327	311	
Covid-19 illness, infection	32.4												5			
Human disease	52.6	44.2	60.1	-8.3	0.0439	*	15.8	0.2002	ns	7.5	0.4471	ns	690	607	548	
Soil degradation	16.3	12.2	0.0	-4.2	0.2828	ns	-12.2	0.0020	**	-16.3	0.0219	*	320	223	15	
Theft or destruction of assets	20.6	10.9	23.0	-9.7	0.1328	ns	12.2	0.0918	ns	2.5	0.7236	ns	249	180	89	
Theft of livestock	24.2	15.7	18.8	-8.4	0.3524	ns	3.0	0.6717	ns	-5.4	0.6152	ns	184	91	108	
Conflict over natural resources	35.0	3.9	30.5	-31.1	0.0034	**	26.7	0.1567	ns	-4.5	0.8687	ns	51	21	9	
Community insecurity/violence	31.2	1.1	42.4	-30.1	0.0030	**	41.3	0.0969	ns	11.2	0.6934	ns	56	32	18	
Communication black outs	64.5	46.0	32.7	-18.5	0.1153	ns	-13.3	0.4003	ns	-31.8	0.0007	***	237	122	124	
Energy cuts	46.0	49.4	15.9	3.4	0.7353	ns	-33.5	0.0160	*	-30.1	0.0000	***	446	204	179	
Fuel shortage	25.4	10.7	24.4	-14.7	0.0017	**	13.7	0.0391	*	-1.0	0.9082	ns	297	213	302	
Increased fuel prices	16.7	6.7	13.8	-10.1	0.0000	***	7.1	0.0201	*	-2.9	0.3665	ns	704	768	672	
Interruptions in assistance	4.0	1.5	4.4	-2.5	0.3416	ns	2.9	0.5328	ns	0.4	0.9373	ns	113	51	47	
Increased food prices	9.2	5.6	3.5	-3.6	0.1620	ns	-2.0	0.1077	ns	-5.7	0.0221	*	975	820	877	
Food shortages in markets	33.7	62.2	32.6	28.5	0.0057	**	-29.6	0.2830	ns	-1.1	0.9673	ns	105	44	17	
Increased input prices	7.6	8.3	5.7	0.8	0.5725	ns	-2.6	0.4213	ns	-1.9	0.4779	ns	714	480	203	
Unable to reach markets	28.7	13.2	13.2	-15.5	0.1768	ns	0.0	0.9994	ns	-15.5	0.1809	ns	65	16	12	
Reduced sales	3.2	13.7	7.5	10.6	0.0733	ns	-6.3	0.2370	ns	4.3	0.3144	ns	217	108	121	
Decreased prices agri/livestock products	28.0	2.1	9.0	-25.9	0.0220	*	6.9	0.2307	ns	-18.9	0.1761	ns	145	90	120	
Input shortages	13.4	5.0	3.2	-8.3	0.0049	**	-1.9	0.5456	ns	-10.2	0.0131	*	223	165	39	
Loss of land/house	9.9	3.6	5.7	-6.3	0.2538	ns	2.1	0.7112	ns	-4.2	0.6047	ns	95	49	23	
Job loss	5.1	5.5	0.0	0.4	0.9301	ns	-5.5	0.1077	ns	-5.1	0.1164	ns	99	44	17	
Illness/death/health expenses	29.6	27.1	27.2	-2.5	0.1520	ns	0.1	0.9946	ns	-2.4	0.7832	ns	542	439	273	
Displacement	48.1	1.1	1.1	-47.0	0.0563	ns	0.1	0.9726	ns	-47.0	0.0566	ns	28	5	5	
Separation from household	52.5	75.7	0.0	23.1	0.4556	ns	-75.7	0.0027	**	-52.5	0.0324	*	26	9	3	
Interpersonal violence	47.6	0.0	0.0	-47.6	0.0463	*	0.0			-47.6	0.0463	*	13	3	1	

*** p<0.001, ** p<0.01, * p<0.05, ns = statistically nonsignificant p<0.1.

NOTES: Households are considered to have recovered from the shock stressor if they fully recovered to the same as before the shock, fully recovered and better than before the shock, or were not impacted by the shock. Includes only a subsample of households that experienced the shock. The recall period for the survey rounds is R1, 12 months before the survey; R2, three months before the survey; and R3, six months before the survey. Results are statistically unreliable for sample sizes less than 30.

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Table A3.7. Household shock preparedness and mitigation, RRA areas

	Average	Average	Average	R2-R1			R3-R2			R3-R1			Obs	Obs	Obs
	R1	R2	R3	Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.	R1	R2	R3
Households prepare for impact of future shocks (0-1)	0.7	0.6	0.6	-0.1	0.0574	ns	0.0	0.5586	ns	-0.1	0.2017	ns	1,012	1,004	985
Types of shock preparedness and mitigation activities (%)															
Increased savings	20.6	19.0	18.0	-1.6	0.6221	ns	-1.0	0.8380	ns	-2.6	0.3697	ns	1,012	1,004	985
Put aside grains (for HH or animals)	23.8	36.7	24.1	12.9	0.0001	***	-12.6	0.0009	***	0.3	0.9555	ns	1,012	1,004	985
Switched to different crop(s)	9.6	10.3	11.5	0.8	0.7732	ns	1.2	0.8045	ns	1.9	0.4967	ns	1,012	1,004	985
Switched to different livestock	4.7	9.9	11.6	5.2	0.0165	*	1.7	0.7142	ns	6.9	0.2155	ns	1,012	1,004	985
Added additional agricultural activity	41.2	28.3	31.1	-12.9	0.0002	***	2.8	0.3681	ns	-10.1	0.0061	**	1,012	1,004	985
Added additional non-agricultural activity	28.9	30.3	34.3	1.3	0.6703	ns	4.1	0.2084	ns	5.4	0.1239	ns	1,012	1,004	985
Diversified into agricultural livelihood	7.9	4.8	8.3	-3.1	0.0398	*	3.5	0.0868	ns	0.4	0.8481	ns	1,012	1,004	985
Diversified into non-agricultural activity	11.4	4.4	14.5	-7.0	0.0272	*	10.1	0.0783	ns	3.1	0.3844	ns	1,012	1,004	985
Changed from ag to non-ag livelihood	1.3	2.0	1.0	0.7	0.4311	ns	-1.0	0.3705	ns	-0.2	0.7872	ns	1,012	1,004	985
Changed from non-ag to ag livelihood	0.9	1.5	0.2	0.6	0.6184	ns	-1.3	0.0720	ns	-0.7	0.2985	ns	1,012	1,004	985
Acquired crop insurance	0.0	0.0	0.0				0.0			0.0			1,012	1,004	985
Acquired livestock insurance	0.0	0.0	0.0				0.0			0.0			1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES: Refers to mitigation practices performed at or around the time of the survey.

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Table A3.8 Household asset ownership, RRA areas

	Average	Average	Average	R2-R1			R3-R2			R3-R1			Obs	Obs	Obs
	R1	R2	R3	Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.	R1	R2	R3
Household assets count (0-37)	7.3	7.2	7.0	-0.2	0.2916	ns	-0.2	0.3925	ns	-0.3	0.1396	ns	1,012	1,004	985
Productive assets count (0-20)	4.4	4.2	4.1	-0.2	0.1056	ns	-0.1	0.5786	ns	-0.3	0.2171	ns	1,012	1,004	985
Livestock assets count (0-9)	0.2	0.2	0.2	0.0	0.0709	ns	-0.1	0.0625	ns	0.0	0.5716	ns	1,012	1,004	985
Index of asset ownership (0-66)	12.0	11.6	11.3	-0.3	0.0070	**	-0.3	0.3195	ns	-0.7	0.0846	ns	1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES: Refers to assets owned by the household at the time of the survey. The index is a count of distinct types of items the household owns; it is not a count of the number of each item owned.

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Table A3.9. Household sources of food or income, RRA areas

	Average	Average	Average	R2-R1			R3-R2			R3-R1			Obs	Obs	Obs
	R1	R2	R3	Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.	R1	R2	R3
Average number of livelihood activities (0-25)	4.9	4.2	4.2	-0.7	0.0002	***	0.0	0.9608	ns	-0.7	0.0073	**	1,012	1,004	985
Percentage of households participating in livelihood by type															
Own farming/crop production and sales	72.5	62.7	45.0	-9.8	0.0887	ns	-17.7	0.0000	***	-27.5	0.0011	**	1,012	1,004	985
Own livestock production/fattening and sales	45.6	39.9	38.0	-5.7	0.0948	ns	-1.9	0.3429	ns	-7.5	0.0029	**	1,012	1,004	985
Agricultural wage labor (within the village)	50.6	40.4	25.2	-10.3	0.0252	*	-15.2	0.0153	*	-25.4	0.0000	***	1,012	1,004	985
Agricultural wage labor (outside the village)	24.4	18.2	17.0	-6.2	0.1111	ns	-1.2	0.7721	ns	-7.4	0.0004	***	1,012	1,004	985
Non-agricultural wage labor (within the village)	41.7	42.0	48.4	0.3	0.9279	ns	6.4	0.0371	*	6.7	0.0748	ns	1,012	1,004	985
Non-agricultural wage labor (outside the village)	25.5	25.7	35.7	0.2	0.9143	ns	10.0	0.0106	*	10.2	0.0051	**	1,012	1,004	985
Salaried work	15.6	14.7	13.4	-0.9	0.3343	ns	-1.3	0.4473	ns	-2.2	0.2235	ns	1,012	1,004	985
Sale of wild/bush products (including charcoal, firewood)	7.2	3.8	3.0	-3.4	0.0112	*	-0.8	0.6385	ns	-4.2	0.1259	ns	1,012	1,004	985
Honey production and sales	0.9	1.1	0.4	0.2	0.3238	ns	-0.7	0.4029	ns	-0.5	0.5478	ns	1,012	1,003	985
Petty trade (selling other products, e.g., grain, veggies, oil, sugar, etc.)	26.6	20.1	26.0	-6.5	0.0009	***	5.9	0.0164	*	-0.6	0.7388	ns	1,012	1,004	985
Petty trade (selling own products, e.g., soap, pottery, leather goods, weaving)	8.4	9.5	13.6	1.1	0.4676	ns	4.0	0.0010	***	5.1	0.0194	*	1,012	1,004	985
Other agricultural self-employment/own business (e.g., agro-processing, grain processing)	25.2	23.2	17.9	-2.0	0.5816	ns	-5.3	0.2243	ns	-7.4	0.0611	ns	1,012	1,004	985
Other non-agricultural self-employment/own business (e.g., food vendor, stone masonry)	21.8	26.2	24.3	4.4	0.4063	ns	-1.9	0.6305	ns	2.5	0.6354	ns	1,012	1,004	985
Rental of land, house, rooms	3.6	2.7	2.3	-0.9	0.3986	ns	-0.4	0.5146	ns	-1.3	0.1214	ns	1,012	1,004	985
Remittances	3.0	1.8	5.8	-1.2	0.2287	ns	4.0	0.3791	ns	2.8	0.5713	ns	1,012	1,004	985
Gifts/inheritance	24.3	13.5	27.5	-10.7	0.0133	*	14.0	0.0432	*	3.3	0.4881	ns	1,012	1,004	985
Safety net food/cash assistance (relief)	2.7	0.3	0.0	-2.4	0.0064	**	-0.3	0.1082	ns	-2.7	0.0020	**	1,012	1,004	985
Hunting	0.8	0.2	0.8	-0.6	0.0983	ns	0.6	0.1301	ns	0.0	0.9413	ns	1,012	1,004	985
Fishing	2.5	1.1	0.1	-1.4	0.0233	*	-0.9	0.1729	ns	-2.4	0.0534	ns	1,012	1,004	985
Sale or lease of land or other non-livestock assets	4.5	2.1	0.4	-2.4	0.0001	***	-1.7	0.2191	ns	-4.1	0.0186	*	1,012	1,004	985
Borrowing	53.3	51.6	51.8	-1.6	0.4234	ns	0.2	0.9789	ns	-1.5	0.8470	ns	1,012	1,004	985
Gathering of wild fruits, vegetables, insects, or other wild foods for own consumption	12.9	10.7	13.3	-2.2	0.0173	*	2.6	0.1021	ns	0.4	0.7870	ns	1,012	1,004	985
Barter/trade	9.9	3.6	5.0	-6.4	0.0077	**	1.4	0.0670	ns	-4.9	0.0063	**	1,012	1,004	985
Mining or other activities	1.1	0.3	0.0	-0.8	0.1010	ns	-0.3	0.0965	ns	-1.1	0.0520	ns	1,012	1,004	985
Other form of livelihood	0.3	0.5	0.1	0.2	0.5522	ns	-0.4	0.3198	ns	-0.1	0.3088	ns	1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.05, ns = statistically nonsignificant p<0.1.

NOTES: Multiple responses allowed. Totals may add up to more than 100. The recall period for the survey rounds is R1, 12 months before the survey; R2, three months before the survey; and R3, six months before the survey.

Table A3.10. Index of bonding social capital and its components, RRA areas

	Average	Average	Average	R2-R1			R3-R2			R3-R1			Obs	Obs	Obs
	R1	R2	R3	Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.	R1	R2	R3
Index of bonding social capital (0-6)	3.2	3.4	3.7	0.2	0.0535	ns	0.3	0.1972	ns	0.5	0.0665	ns	1,012	1,004	985
Percentage of households who could turn to someone in their village for help in times of distress															
Relatives	61.6	61.3	74.8	-0.4	0.8797	ns	13.5	0.0003	***	13.1	0.0031	**	1,012	1,004	985
Non-relatives in my ethnic group/clan	34.3	38.9	41.9	4.7	0.0707	ns	3.0	0.5235	ns	7.6	0.2082	ns	1,012	1,004	985
Non-relatives in other ethnic group/clan	23.3	28.9	30.3	5.6	0.0254	*	1.4	0.6916	ns	7.0	0.1231	ns	1,012	1,004	985
No one	25.5	24.6	16.1	-0.9	0.7173	ns	-8.5	0.1249	ns	-9.4	0.0582	ns	1,012	1,004	985
Other (specify)	0.4	0.1	0.1	-0.3	0.2511	ns	0.1	0.2816	ns	-0.2	0.3809	ns	1,012	1,004	985
Percentage of households who could give support to someone in their village who needed help in times of distress															
Relatives	71.5	76.3	83.6	4.7	0.2100	ns	7.3	0.1219	ns	12.1	0.0146	*	1,012	1,004	985
Non-relatives in my ethnic group/clan	64.9	70.4	72.9	5.5	0.1329	ns	2.5	0.4528	ns	8.0	0.1753	ns	1,012	1,004	985
Non-relatives in other ethnic group/clan	60.8	65.2	62.5	4.4	0.2764	ns	-2.7	0.4832	ns	1.7	0.7456	ns	1,012	1,004	985
No one	12.8	16.9	9.7	4.1	0.2401	ns	-7.2	0.1837	ns	-3.1	0.3609	ns	1,012	1,004	985
Other	0.4	0.0	0.0	-0.4	0.2467	ns	0.0			-0.4	0.2467	ns	1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.05, ns = statistically nonsignificant p<0.1.

Table A3.11. Index of bridging social capital and its components, RRA areas

	Average R1	Average R2	Average R3	R2-R1			R3-R2			R3-R1			Obs R1	Obs R2	Obs R3
				Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.			
Index of bridging social capital (0-6)	2.6	2.8	3.2	0.2	0.2980	ns	0.4	0.0375	*	0.6	0.0918	ns	1,012	1,004	985
Percentage of households who could turn to someone outside their village for help in times of distress															
Relatives	48.1	51.8	68.0	3.7	0.1024	ns	16.2	0.0025	**	19.9	0.0028	**	1,012	1,004	985
Non-relatives in my ethnic group/clan	22.9	27.4	31.9	4.6	0.1470	ns	4.5	0.1635	ns	9.1	0.0716	ns	1,012	1,004	985
Non-relatives in other ethnic group/clan	17.2	21.0	24.2	3.9	0.0610	ns	3.2	0.2986	ns	7.1	0.0189	*	1,012	1,004	985
No one	44.2	43.1	25.6	-1.1	0.7089	ns	-17.5	0.0083	**	-18.6	0.0147	*	1,012	1,004	985
Other (specify)	0.0	0.1	0.0	0.1	0.3501	ns	-0.1	0.3501	ns	0.0		***	1,012	1,004	985
Percentage of households who could give support to someone outside their village who needed help in times of distress															
Relatives	66.1	68.9	76.9	2.8	0.6455	ns	8.0	0.1110	ns	10.9	0.1456	ns	1,012	1,004	985
Non-relatives in my ethnic group/clan	53.4	57.7	64.3	4.3	0.4720	ns	6.6	0.0253	*	10.9	0.1253	ns	1,012	1,004	985
Non-relatives in other ethnic group/clan	54.6	53.5	53.3	-1.2	0.7625	ns	-0.1	0.9775	ns	-1.3	0.8379	ns	1,012	1,004	985
No one	23.4	27.1	18.2	3.8	0.2981	ns	-8.9	0.0455	*	-5.1	0.2950	ns	1,012	1,004	985
Other	0.0	0.0	0.0	0.0			0.0			0.0			1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.05, ns = statistically nonsignificant p<0.1.

Table A3.12. Collective action, RRA areas

	Average R1	Average R2	Average R3	R2-R1			R3-R2			R3-R1			Obs R1	Obs R2	Obs R3
				Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.			
Index of collective action (0-10)	0.5	0.3	0.3	-0.2	0.0007	*	0.0	0.9345	ns	-0.2	0.0000	*	1,012	1,004	985
Percentage of households engaging in collective action, by type															
Soil conservation (terracing, bunds, half-moons, gabions, etc.)	4.5	12.3	9.8	7.8	0.0000	***	-2.5	0.3518	ns	5.3	0.0247	*	344	235	239
Flood diversion activities	40.2	35.3	11.9	-4.9	0.5876	ns	-23.4	0.0003	***	-28.3	0.0350	*	344	235	239
Repaired/built schools	7.2	12.8	9.4	5.5	0.3179	ns	-3.4	0.3114	ns	2.1	0.7204	ns	344	235	239
Repaired/built health posts or centers	3.8	3.3	0.9	-0.5	0.8894	ns	-2.4	0.3164	ns	-2.8	0.0903	ns	344	235	239
Road maintenance/construction	60.7	50.5	60.6	-10.3	0.0325	*	10.1	0.0812	ns	-0.1	0.9865	ns	344	235	239
Planted trees on communal land	2.1	1.2	1.3	-0.9	0.4463	ns	0.1	0.9069	ns	-0.9	0.4611	ns	344	235	239
Area enclosure	4.0	1.8	2.1	-2.2	0.1963	ns	0.2	0.8949	ns	-2.0	0.4118	ns	344	235	239
Improving access to drinking water	4.7	4.2	10.6	-0.5	0.7512	ns	6.4	0.3258	ns	5.9	0.3483	ns	344	235	239
Repaired/built communal irrigation system	3.7	3.6	4.0	-0.1	0.9735	ns	0.4	0.8698	ns	0.3	0.9177	ns	344	235	239
Other	13.9	2.5	4.0	-11.4	0.0000	***	1.5	0.6363	ns	-9.9	0.0010	***	344	235	239

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

Table A3.13. Percentage of households who used financial services, RRA areas

	Average	Average	Average	R2-R1			R3-R2			R3-R1			Obs	Obs	Obs
	R1	R2	R3	Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.	R1	R2	R3
Borrowed cash (formal or informal source)	72.3	70.7	73.4	-1.6	0.5629	ns	2.7	0.5040	ns	1.0	0.8505	ns	1,012	1,004	985
Received in-kind agricultural inputs in exchange for harvest	20.4	28.4	10.2	8.0	0.0737	ns	-18.3	0.0002	***	-10.2	0.0280	*	1,012	1,004	985
Saved cash (formal or informal source)	19.9	15.1	17.1	-4.8	0.2995	ns	2.0	0.6598	ns	-2.8	0.4258	ns	1,012	1,004	985
Purchased crop or livestock insurance	0.3	0.0	0.0	-0.3	0.3026	ns	0.0	0.3528	ns	-0.2	0.3558	ns	1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES: Formal sources of financial services include banks, MFIs, VSLAs, cooperatives, credit/savings group, ADASHE, NGOs, and mobile-based credit or savings). Informal sources of financial services include friends and family. The recall period for the survey rounds is R1, 12 months before the survey; R2, three months before the survey; and R3, six months before the survey.

Table A3.14. Sources of borrowing and saving, RRA areas

	Average R1	Average R2	Average R3	R2-R1			R3-R2			R3-R1			Obs R1	Obs R2	Obs R3
				Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.			
Sources of cash loans used by households¹															
Relatives or friends	92.8	92.2	94.9	-0.6	0.7924	ns	2.6	0.3625	ns	2.1	0.1057	ns	704	709	688
Micro-finance institutions	3.4	1.5	2.9	-2.0	0.0581	ns	1.4	0.5134	ns	-0.6	0.7164	ns	704	709	688
VSLA/credit group, cooperative, ADASHE	8.7	9.6	6.8	0.9	0.7971	ns	-2.8	0.0790	ns	-1.9	0.5384	ns	704	709	688
Bank	4.7	2.0	2.7	-2.6	0.0107	*	0.7	0.6641	ns	-2.0	0.2318	ns	704	709	688
NGO	0.0	0.0	0.4	0.0	0.3524	ns	0.4	0.3276	ns	0.3	0.3814	ns	704	709	688
Mobile-based lending/digital loan (e.g., MOMO, OPAY)	0.2	1.0	0.1	0.8	0.4224	ns	-0.9	0.3759	ns	-0.1	0.7010	ns	704	709	688
Other	1.0	0.3	0.4	-0.8	0.3394	ns	0.1	0.4936	ns	-0.7	0.3978	ns	704	709	688
Source of in-kind agricultural loans¹															
Shops in market	46.8	27.8	67.4	-18.9	0.0099	**	39.5	0.0003	***	20.6	0.0519	ns	213	241	92
Relatives/friends	41.3	75.5	65.9	34.2	0.0007	***	-9.6	0.5603	ns	24.5	0.0086	**	213	241	92
Off-takers	2.8	3.7	27.4	0.9	0.8091	ns	23.7	0.1789	ns	24.6	0.1650	ns	213	241	92
Aggregators	1.1	4.2	16.2	3.1	0.3530	ns	12.1	0.3139	ns	15.1	0.2040	ns	213	241	92
Group of families/friends (established group or cooperative)	5.5	2.8	0.0	-2.7	0.5082	ns	-2.8	0.0808	ns	-5.5	0.0648	ns	213	241	92
Other	5.4	0.4	0.0	-5.0	0.0954	ns	-0.4	0.1773	ns	-5.4	0.0598	ns	213	241	92
Source of savings²															
Relatives or friends	14.8	1.8	4.0	-13.1	0.0050	**	2.2	0.2988	ns	-10.9	0.0267	*	286	170	193
MFI	0.1	0.0	0.0	-0.1	0.3414	ns	0.0			-0.1	0.3414	ns	286	170	193
VSLA/credit group, cooperative, ADASHE	32.2	28.4	48.2	-3.8	0.6985	ns	19.7	0.0142	*	15.9	0.0100	*	286	170	193
Bank	46.4	60.4	38.3	14.0	0.2837	ns	-22.0	0.0553	ns	-8.1	0.3333	ns	286	170	193
NGO	0.0	0.0	0.6	0.0			0.6	0.3299	ns	0.6	0.3299	ns	286	170	193
Mobile-based lending/digital loan (e.g., MOMO, OPAY)	6.4	9.4	8.9	3.0	0.4451		-0.5	0.9257		2.6	0.6915		286	170	193

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES: Includes only households that utilized the financial service.

¹ Multiple responses were allowed. Totals may add up to more than 100.

² Refers to the primary place where savings are held. Total adds up to 100.

Table A3.15. Household membership in credit/microfinance groups and savings and loan groups, RRA areas

	Average	Average	Average	R2-R1			R3-R2			R3-R1			Obs	Obs	Obs
	R1	R2	R3	Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.	R1	R2	R3
Credit or microfinance group	1.4	0.2	0.7	-1.2	0.2611	ns	0.4	0.2696	ns	-0.8	0.2831	ns	1,012	1,004	985
Savings and loan groups (VSLAs, merry-go-round, etc.)	13.0	11.5	13.0	-1.5	0.4540	ns	1.4	0.4020	ns	0.0	0.9806	ns	1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES: The recall period for the survey rounds is R1, 12 months before the survey; R2, three months before the survey; and R3, six months before the survey.

Table A.3.16. Access to information, RRA areas

	Average R1	Average R2	Average R3	R2-R1			R3-R2			R3-R1			Obs R1	Obs R2	Obs R3
				Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.			
Percentage of households who received or knew about any information on [TOPIC]															
Early warning for natural hazards (flooding, hail, landslide)	55.2	51.1	23.8	-4.1	0.1227	ns	-27.4	0.0000	***	-31.5	0.0000	***	1,012	1,004	985
Long-term changes in weather patterns	46.4	39.6	24.8	-6.9	0.2102	ns	-14.8	0.0015	**	-21.7	0.0000	***	1,012	1,003	985
Rainfall/ weather prospects for coming growing season	43.6	28.8	32.2	-14.8	0.0000	***	3.4	0.4886	ns	-11.4	0.0429	*	1,012	1,004	984
Water prices and availability in local boreholes, wells, etc.	22.5	24.5	15.1	2.0	0.6314	ns	-9.5	0.0415	*	-7.4	0.1985	ns	1,012	1,004	985
Animal health (e.g., disease, epidemic, prevention)	43.5	35.2	31.6	-8.4	0.0178	*	-3.6	0.2581	ns	-11.9	0.0000	***	1,012	1,004	985
Crop health (e.g., pest outbreaks, disease, prevention)	51.1	40.6	23.7	-10.5	0.0127	*	-16.9	0.0000	***	-27.4	0.0000	***	1,012	1,004	985
Improved crop production practices/technologies (CA, seeds)	41.9	24.4	16.6	-17.5	0.0000	***	-7.8	0.0026	**	-25.3	0.0000	***	1,012	1,004	985
Improved livestock production practices (fodder, husbandry)	27.6	18.7	17.4	-8.9	0.0068	**	-1.3	0.5901	ns	-10.3	0.0093	**	1,012	1,004	985
Current market prices for live animals in the area	52.7	51.8	47.4	-0.8	0.9120	ns	-4.4	0.3118	ns	-5.3	0.3024	ns	1,012	1,004	985
Market prices for animal products (milk, hides, skins, etc.)	30.4	22.5	23.9	-7.9	0.0505	ns	1.4	0.6065	ns	-6.5	0.0740	ns	1,012	1,004	985
Market prices for crops and agricultural products	75.9	71.2	54.8	-4.7	0.1608	ns	-16.4	0.0010	***	-21.0	0.0000	***	1,012	1,004	985
Grazing conditions in nearby areas	22.6	12.8	8.0	-9.8	0.0714	ns	-4.8	0.0871	ns	-14.6	0.0025	**	1,012	1,004	985
Conflict or security issues	76.8	65.8	54.3	-11.0	0.0000	***	-11.5	0.0004	***	-22.5	0.0000	***	1,012	1,004	985
Business and investment opportunities	39.8	22.4	18.9	-17.5	0.0015	**	-3.5	0.3971	ns	-21.0	0.0058	**	1,012	1,004	985
Opportunities for borrowing money	43.5	29.9	20.5	-13.6	0.0001	***	-9.4	0.0116	*	-23.0	0.0000	***	1,012	1,004	985
Market prices of the food you buy	86.3	85.7	81.0	-0.6	0.7678	ns	-4.6	0.1255	ns	-5.2	0.0211	*	1,012	1,004	985
Child nutrition and health information	57.8	43.4	32.8	-14.4	0.0063	**	-10.6	0.0706	ns	-25.0	0.0000	***	1,012	1,004	985
Equal rights for women and men	29.2	21.9	11.2	-7.4	0.2234	ns	-10.7	0.0863	ns	-18.1	0.0000	***	1,012	1,004	985
Gender-based violence	28.8	20.7	13.5	-8.1	0.1723	ns	-7.2	0.1273	ns	-15.3	0.0000	***	1,012	1,004	985
Natural resource management	24.9	13.6	8.6	-11.3	0.1102	ns	-5.0	0.0452	*	-16.4	0.0041	**	1,012	1,004	985
Index of information exposure (0-20)	9.0	7.2	5.6	-1.8	0.0018	**	-1.6	0.00176	**	-3.4	0.0000	***	1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.05, ns = statistically nonsignificant p<0.1.

NOTES: Respondents were asked whether they or anyone in the household received or knew about any information on a list of topics, including market systems development topics. The recall period for the survey rounds is R1, 12 months before the survey; R2, three months before the survey; and R3, six months before the survey.

Table A3.17. Primary source of information across all topics, RRA areas

	Average	Average	Average	R2-R1			R3-R2			R3-R1			Obs	Obs	Obs
	R1	R2	R3	Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.	R1	R2	R3
Relatives, friends, neighbors	78.6	82.2	71.7	3.6	0.1246	ns	-10.5	0.00000	***	-6.9	0.01714	*	965	933	884
Local Administration	3.2	2.0	3.2	-1.2	0.2765	ns	1.2	0.20070	ns	0.0	0.97523	ns	965	933	884
Village/ward development committee	3.9	1.3	2.1	-2.6	0.0038	**	0.8	0.23649	ns	-1.8	0.10742	ns	965	933	884
School teachers	0.0	0.1	0.5	0.1	0.5562	ns	0.3	0.30325	ns	0.4	0.19664	ns	965	933	884
Group in community (e.g., savings, water users, farmers)	5.3	4.0	2.8	-1.3	0.6633	ns	-1.2	0.62168	ns	-2.5	0.20387	ns	965	933	884
Religious leaders	2.2	3.8	2.2	1.6	0.5095	ns	-1.6	0.55329	ns	0.0	0.9788	ns	965	933	884
Elders	3.7	5.0	3.4	1.3	0.6341	ns	-1.6	0.37737	ns	-0.3	0.86171	ns	965	933	884
Local market	70.7	58.5	73.0	-12.2	0.0302	*	14.5	0.00000	***	2.3	0.60708	ns	965	933	884
Gov't: rural development agents, health/agriculture ext.	31.7	14.7	20.5	-17.0	0.0000	***	5.8	0.00145	**	-11.2	0.00004	***	965	933	884
NGOs	4.3	3.0	2.0	-1.4	0.1741	ns	-1.0	0.23888	ns	-2.3	0.00117	**	965	933	884
Newspaper /Radio / TV	64.8	47.1	36.8	-17.6	0.0002	***	-10.3	0.02457	*	-27.9	0.00038	***	965	933	884
Internet or SMS, social media	10.9	6.1	5.0	-4.7	0.0014	**	-1.1	0.17115	ns	-5.9	0.00031	***	965	933	884
Private sector (input supplier, veterinarian, etc.)	4.1	1.4	0.8	-2.7	0.0425	*	-0.6	0.35645	ns	-3.3	0.00531	**	965	933	884
Police or security individuals	0.3	0.0	1.7	-0.2	0.1416	ns	1.7	0.01937	*	1.4	0.0451	*	965	933	884

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES: Includes households that reported receiving or knowing information on at least one topic. The recall period for the survey rounds is R1, 12 months before the survey; R2, three months before the survey; and R3, six months before the survey.

Table A3.18. Participation in market systems development-related training, RRA areas

	Average R1	Average R2	Average R3	R2-R1			R3-R2			R3-R1			Obs R1	Obs R2	Obs R3
				Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.			
Percentage of households that participated in market systems development-type training															
Use of mobile phones for market price information	0.8	0.6	1.9	-0.3	0.5488	ns	1.3	0.1541	ns	1.0	0.3062	ns	1,011	1,004	985
Livestock production practices/health/management	2.3	0.7	0.4	-1.5	0.1198	ns	-0.4	0.3622	ns	-1.9	0.0289	*	1,012	1,004	985
Crop production practices	4.0	1.6	1.3	-2.3	0.1954	ns	-0.3	0.3546	ns	-2.7	0.1460	ns	1,012	1,004	985
Crop or livestock marketing	2.5	0.3	0.0	-2.2	0.0010	**	-0.3	0.1148	ns	-2.5	0.0002	***	1,012	1,004	985
Business/financial/accounting practices	2.5	0.5	0.2	-2.0	0.0301	*	-0.3	0.4863	ns	-2.3	0.0364	*	1,012	1,004	985
Savings/microfinance (financial literacy training)	1.2	0.1	0.4	-1.1	0.0273	*	0.3	0.2777	ns	-0.8	0.1597	ns	1,012	1,004	985
Youth skills/vocational training (apprenticeship/internship, etc.)	2.3	0.2	1.5	-2.2	0.0147	*	1.3	0.1412	ns	-0.8	0.3994	ns	1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.05, ns = statistically nonsignificant p<0.1.

NOTES: The recall period for the survey rounds is R1, 12 months before the survey; R2, three months before the survey; and R3, six months before the survey.

Table A3.19. Value chain production and microenterprises or agribusinesses, RRA areas

	Average	Average	Average	R2-R1			R3-R2			R3-R1			Obs	Obs	Obs
	R1	R2	R3	Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.	R1	R2	R3
Percentage of households partaking in value chain production ¹	55.0	42.3	33.5	-12.7	0.0027	**	-8.8	0.01971	*	-21.5	0.00004	***	1,012	1,004	985
Percentage of households operating a microenterprise or small-medium agribusiness ²	18.8	16.5	11.8	-2.4	0.5605	ns	-4.7	0.01989	*	-7.1	0.02194	*	1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES: A household is considered to partake in value chain production if they cultivated any crops or raised/bought livestock with the intention to sell/resell some of it to earn income. Microenterprises can be agricultural or nonagricultural. Agribusinesses include agro-processors and agri-dealers. The recall period for the survey rounds is R1, 12 months before the survey; R2, three months before the survey; and R3, six months before the survey.

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Table A3.20. Percentage of households by type of crop cultivated or livestock raised, RRA areas

	Average R1	Average R2	Average R3	R2-R1			R3-R2			R3-R1			Obs R1	Obs R2	Obs R3
				Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.			
Crops															
Maize	67.6	44.2	6.6	-23.4	0.0000	***	-37.6	0.0000	***	-61.0	0.0000	***	1,012	1,004	985
Rice	56.6	35.6	9.6	-21.0	0.0002	***	-26.0	0.0000	***	-47.0	0.0000	***	1,012	1,004	985
Cowpea	62.9	52.5	9.9	-10.4	0.0026	**	-42.6	0.0000	***	-53.0	0.0000	***	1,012	1,004	985
Ground nut	39.2	22.0	2.4	-17.2	0.0000	***	-19.6	0.0022	**	-36.8	0.0000	***	1,012	1,004	985
Sorghum	53.2	41.5	10.2	-11.7	0.0002	***	-31.3	0.0015	**	-42.9	0.0001	***	1,012	1,004	985
Millet	29.9	17.3	3.4	-12.6	0.0021	**	-13.9	0.0121	*	-26.5	0.0001	***	1,012	1,004	985
Guinea corn	7.0	1.8	0.2	-5.2	0.0562	ns	-1.6	0.0906	ns	-6.8	0.0061	**	1,012	1,004	985
Wheat	1.1	0.0	0.1	-1.1	0.1066	ns	0.1	0.2775	ns	-0.9	0.1653	ns	1,012	1,004	985
Household does not cultivate crops	7.2	16.2	80.0	9.0	0.0310	*	63.7	0.0000	***	72.7	0.0000	***	1,012	1,004	985
Livestock															
Goats	52.1	45.9	40.4	-6.2	0.2411	ns	-5.5	0.0255	*	-11.7	0.0294	*	1,012	1,004	985
Sheep	18.4	16.2	16.4	-2.1	0.1660	ns	0.1	0.9413	ns	-2.0	0.3877	ns	1,012	1,004	985
Cattle	13.8	13.5	11.7	-0.3	0.8718	ns	-1.8	0.4616	ns	-2.0	0.2286	ns	1,012	1,004	985
Poultry	37.1	34.1	28.9	-3.0	0.5609	ns	-5.3	0.0908	ns	-8.2	0.1338	ns	1,012	1,004	985
Household does not raise any of these livestock	30.7	38.1	46.9	7.5	0.2366	ns	8.7	0.0041	**	16.2	0.0004	***	1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES: The recall period for the survey rounds is R1, 12 months before the survey; R2, three months before the survey; and R3, six months before the survey.

Table A3.21. Percentage of households using targeted input market services, RRA areas

	Average	Average	Average	R2-R1			R3-R2			R3-R1			Obs	Obs	Obs
	R1	R2	R3	Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.	R1	R2	R3
Agricultural extension services	2.4	0.2	5.1	-2.2	0.0153	*	5.0	0.0771	ns	2.7	0.1700	ns	565	423	305
Financial advisory services, including linkages to financial institutions	0.2	0.3	0.0	0.1	0.4737	ns	-0.3	0.1902	ns	-0.2	0.1449	ns	565	423	305
Business development services	5.7	10.4	2.7	4.7	0.3436	ns	-7.7	0.1031	ns	-3.0	0.0045	**	565	423	305
Precision farming advisory services/training	1.9	0.0	2.4	-1.9	0.0495	*	2.4	0.0883	ns	0.5	0.3683	ns	565	423	305

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES: Questions on the adoption of targeted value chain activities were only asked to households that responded 'Yes' to one of the two following questions: (1) Whether any member of the household cultivated any crops or raised/bought livestock with the specific intent to sell or resell them to earn an income in the past 12 months; or (2) whether any member of the household operated a microenterprise (agricultural or nonagricultural) or small-medium size agribusiness (e.g., agro-processor, agro dealer) in the past 12 months. The recall period for the survey rounds is R1, 12 months before the survey; R2, three months before the survey; and R3, six months before the survey.

Table A3.22. Use of targeted veterinary/livestock services, RRA areas

	Average	Average	Average	R2-R1			R3-R2			R3-R1			Obs	Obs	Obs
	R1	R2	R3	Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.	R1	R2	R3
Percentage of households who used veterinary/livestock services	31.6	27.2	24.6	-4.4	0.2333	ns	-2.6	0.4637	ns	-7.0	0.1131	ns	674	570	501
Type of vet or paravet services used															
Animal health advice	39.9	32.2	27.6	-7.8	0.0338	*	-4.6	0.3080	ns	-12.4	0.0486	*	235	122	115
Livestock vaccinations	85.4	65.4	51.8	-20.1	0.1885	ns	-13.5	0.1200	ns	-33.6	0.0958	ns	235	122	115
Livestock antibiotics	65.1	68.6	76.7	3.5	0.7975	ns	8.1	0.2606	ns	11.6	0.5395	ns	235	122	115
De-worming	33.7	30.8	27.8	-2.9	0.6221	ns	-3.0	0.7701	ns	-5.9	0.4630	ns	235	122	115
Dipping inoculation	2.8	0.3	0.3	-2.5	0.2935	ns	0.0	0.9438	ns	-2.5	0.2997	ns	235	122	115
Commercial feed	6.8	0.6	0.3	-6.2	0.0847	ns	-0.3	0.5865	ns	-6.5	0.0696	ns	235	122	115
Home feed production training	3.0	0.0	0.1	-3.0	0.0732	ns	0.1	0.3758	ns	-2.9	0.0776	ns	235	122	115
Did not use any of these services	0.3	1.6	0.1	1.3	0.4296	ns	-1.5	0.3693	ns	-0.2	0.3615	ns	235	122	115

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES: Includes the subsample of households that raise livestock. The recall period for the survey rounds is R1, 12 months before the survey; R2, three months before the survey; and R3, six months before the survey.

Table A3.23. Use of targeted output market services, RRA areas

	Average R1	Average R2	Average R3	R2-R1			R3-R2			R3-R1			Obs R1	Obs R2	Obs R3
				Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.			
Percentage of households who used one of the targeted output market services															
Contract farming	16.2	4.3	2.6	-11.9	0.0334	*	-1.7	0.3069	ns	-13.6	0.0040	**	565	423	305
Selling products through trader, village agent or grain aggregator	30.5	41.3	27.4	10.8	0.0000	***	-13.9	0.1573	ns	-3.1	0.7747	ns	565	423	305
Selling (livestock) products through an off-taker	14.2	20.2	32.7	6.0	0.0810	ns	12.5	0.0924	ns	18.5	0.0517	ns	565	423	305
Selling (livestock) products via electronic off-taker services	3.4	3.0	3.1	-0.4	0.6688	ns	0.1	0.9660	ns	-0.3	0.8930	ns	565	423	305
Use of linkages to transportation services (for products)	6.2	3.5	8.2	-2.6	0.2242	ns	4.7	0.4805	ns	2.0	0.7253	ns	565	423	305
Cereal banks	0.0	0.0	0.1	0.0			0.1	0.2717	ns	0.1	0.2717	ns	565	423	305
Percentage of households participating in a cooperative or producer group															
Crop producers group (including marketing group)	12.2	8.9	8.9	-3.4	0.1011	ns	0.1	0.9505	ns	-3.3	0.2737	ns	1,012	1,004	985
Livestock producer group (including marketing group)	2.2	2.5	2.1	0.3	0.7784	ns	-0.4	0.6714	ns	-0.1	0.9158	ns	1,012	1,004	985
Farmers cooperative	8.5	8.9	5.1	0.4	0.8906	ns	-3.8	0.1957	ns	-3.4	0.0241	*	1,012	1,004	985

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES: Questions on the adoption of targeted value chain activities were only asked to households that responded 'Yes' to one of the two following questions: (1) Whether any member of the household cultivated any crops or raised/bought livestock with the specific intent to sell or resell them to earn an income in the past 12 months; or (2) whether any member of the household operated a microenterprise (agricultural or nonagricultural) or small-medium size agribusiness (e.g., agro-processor, agro dealer) in the past 12 months. The recall period for the survey rounds is R1, 12 months before the survey; R2, three months before the survey; and R3, six months before the survey.

Table A3.24. Use of targeted improved agricultural production practices and technologies, RRA areas

	Average	Average	Average	R2-R1			R3-R2			R3-R1			Obs	Obs	Obs
	R1	R2	R3	Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.	R1	R2	R3
Percentage of households adopting targeted improved crop production practices and technologies ¹															
Cropping systems (crop rotation, intercropping, cover cropping)	49.4	40.4	2.0	-9.0	0.0152	*	-38.4	0.0000	***	-47.4	0.0000	***	899	806	170
Minimum tillage	35.7	35.2	48.6	-0.5	0.9228	ns	13.3	0.2236	ns	12.8	0.1146	ns	899	806	170
Proper plant spacing	54.9	59.1	47.5	4.2	0.6320	ns	-11.5	0.2958	ns	-7.3	0.6360	ns	899	806	170
Integrated pest management	26.4	25.4	15.0	-1.0	0.8316	ns	-10.4	0.0010	***	-11.4	0.0377	*	899	806	170
Fertilizer application (compost, manure, organic fertilizer)	63.1	48.6	58.6	-14.5	0.0000	***	9.9	0.5326	ns	-4.5	0.7955	ns	899	806	170
Drip or micro-irrigation	5.2	4.0	9.6	-1.3	0.4971	ns	5.6	0.2266	ns	4.3	0.3542	ns	899	806	170
Rainwater harvesting	54.4	60.9	14.7	6.4	0.3314	ns	-46.2	0.0000	***	-39.7	0.0000	***	899	806	170
Use of improved seeds (drought-tolerant, early-maturing,)	11.2	7.6	10.8	-3.5	0.0254	*	3.2	0.1758	ns	-0.4	0.8996	ns	899	806	170
Did not use any of the targeted crop practices	9.5	15.8	28.3	6.3	0.1265	ns	12.5	0.2890	ns	18.8	0.2115	ns	899	806	170
Percentage of households adopting targeted improved post-harvest storage practices and technologies ¹															
Improved locally made structure/granary	1.8	1.3	8.9	-0.4	0.7193	ns	7.5	0.1954	ns	7.1	0.1446	ns	899	806	170
Modern storage structure like cribs or silos	1.9	0.7	0.2	-1.2	0.0673	ns	-0.5	0.3043	ns	-1.7	0.0568	ns	899	806	170
Sealed/airtight containers	23.0	21.4	56.8	-1.5	0.7741	ns	35.4	0.0040	**	33.9	0.0164	*	899	806	170
Traditional storage	21.5	11.1	11.4	-10.4	0.0851	ns	0.3	0.8970	ns	-10.1	0.0764	ns	899	806	170
PICS -Purdue Improved Crop Storage bags/grain bags	56.3	59.2	30.9	2.9	0.5500	ns	-28.3	0.0010	**	-25.4	0.0197	*	899	806	170
Did not store any crops	3.8	3.7	0.1	-0.1	0.9106	ns	-3.5	0.0226	*	-3.7	0.0000	***	899	806	170
Did not use any of the targeted storage practices	0.0	0.0	0.0	0.0			0.0			0.0			899	806	170
Percentage of households adopting targeted improved livestock practices and technologies ²															
Use of improved animal feed	7.7	7.1	3.4	-0.6	0.8533	ns	-3.7	0.0046	**	-4.3	0.0823	ns	674	570	501
Use of veterinary services	31.6	27.2	24.6	-4.4	0.2333	ns	-2.6	0.4637	ns	-7.0	0.1131	ns	674	570	501
Use of improved species/breeds	3.1	2.5	0.8	-0.6	0.3072	ns	-1.7	0.0813	ns	-2.3	0.0101	*	674	570	501
Did not use any of the targeted livestock practices	0.0	0.0	0.0	0.0		***	0.0			0.0			674	570	501
Type of vet or paravet services used ³															
Animal health advice	39.9	32.2	27.6	-7.8	0.0338	*	-4.6	0.3080	ns	-12.4	0.0486	*	235	122	115
Livestock vaccinations	85.4	65.4	51.8	-20.1	0.1885	ns	-13.5	0.1200	ns	-33.6	0.0958	ns	235	122	115
Livestock antibiotics	65.1	68.6	76.7	3.5	0.7975	ns	8.1	0.2606	ns	11.6	0.5395	ns	235	122	115
De-worming	33.7	30.8	27.8	-2.9	0.6221	ns	-3.0	0.7701	ns	-5.9	0.4630	ns	235	122	115
Dipping inoculation	2.8	0.3	0.3	-2.5	0.2935	ns	0.0	0.9438	ns	-2.5	0.2997	ns	235	122	115
Commercial feed	6.8	0.6	0.3	-6.2	0.0847	ns	-0.3	0.5865	ns	-6.5	0.0696	ns	235	122	115
Home feed production training	3.0	0.0	0.1	-3.0	0.0732	ns	0.1	0.3758	ns	-2.9	0.0776	ns	235	122	115
Did not use any of the targeted vet practices	0.3	1.6	0.1	1.3	0.4296	ns	-1.5	0.3693	ns	-0.2	0.3615	ns	235	122	115

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES:

1 Includes the subsample of households who cultivated crops in the past 12 months. Multiple responses were allowed. The total may add up to more than 100.

2 Includes the subsample of households who raised livestock (goat, sheep, cattle, or poultry) in the past 12 months. Multiple responses were allowed. The total may add up to more than 100.

3 Includes the subsample of households who raised livestock and used vet or para vet services in the past 12 months. The total may add up to more than 100.

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Table A3. Receipt of formal support from the government or an NGO, RRA areas, RMS

	Average R1	Average R2	Average R3	R2-R1			R3-R2			R3-R1			Obs R1	Obs R2	Obs R3
				Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.			
Percentage of households that received formal support from the government or NGO	9.0	3.3	0.4	-5.6	0.0003	***	-2.9	0.0269	*	-8.5	0.0000	***	1,012	1,004	985
Type of formal assistance received ¹															
Emergency food assistance	14.3	67.4	2.0	53.1	0.0061	**	-65.4	0.0055	**	-12.3	0.0831	ns	93	28	8
Emergency cash assistance	35.4	19.4	4.3	-16.0	0.2826	ns	-15.1	0.2787	ns	-31.1	0.0462	*	93	28	8
Conditional cash transfer	29.6	7.4	23.4	-22.2	0.1729	ns	16.0	0.4331	ns	-6.2	0.7916	ns	93	28	8
Conditional food transfer	4.0	3.1	0.0	-0.9	0.8415	ns	-3.1	0.3200	ns	-4.0	0.2702	ns	93	28	8
Housing materials/non-food items	1.2	4.1	4.4	2.9	0.4208	ns	0.3	0.9510	ns	3.3	0.4410	ns	93	28	8
WASH inputs (chlorine water tablets)	0.3	2.5	8.2	2.2	0.4465	ns	5.7	0.4951	ns	7.9	0.3245	ns	93	28	8
Educational assistance/school feeding	0.7	0.0	0.0	-0.7	0.3021	ns	0.0			-0.7	0.3021	ns	93	28	8
Agricultural inputs (seeds, fertilizers, etc.)	7.8	0.0	0.0	-7.8	0.0909	ns	0.0			-7.8	0.0909	ns	93	28	8
Livestock medicine, dips	0.9	0.0	0.0	-0.9	0.3052	ns	0.0			-0.9	0.3052	ns	93	28	8
Livestock fodder	0.0	0.0	0.0	0.0			0.0			0.0			93	28	8
Livestock feed	0.0	0.0	0.0	0.0			0.0			0.0			93	28	8
Children's nutrition/supplemental feeding	1.1	0.0	0.0	-1.1	0.2191	ns	0.0			-1.1	0.2191	ns	93	28	8
Trucked water/Drinking water	0.1	0.0	0.0	-0.1	0.3629	ns	0.0			-0.1	0.3629	ns	93	28	8
Water for livestock	0.0	0.0	0.0	0.0			0.0			0.0			93	28	8
Other	11.0	0.0	59.6	-11.0	0.0671	ns	59.6	0.0484	*	48.7	0.1070	ns	93	28	8

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.

NOTES:

1 Includes the subsample of households who received formal assistance from the government or an NGO in the past 12 months. Results are statistically unreliable for sample sizes less than 30.

Table A3.26. Views and beliefs: Absence of fatalism, RRA areas

	Average R1	Average R2	Average R3	R2-R1			R3-R2			R3-R1			Obs R1	Obs R2	Obs R3	
				Diff.	P-value	Sig.	Diff.	P-value	Sig.	Diff.	P-value	Sig.				
Percentage of households agreeing with the statement (% Yes)																
"Each person is primarily responsible for his/her success or failure in life"	40.4	35.2	37.7	-5.2	0.0011	**	2.5	0.5702	ns	-2.7	0.5617	ns	1,010	998	983	
"One's success or failure in life is a matter of his/her destiny"	59.6	64.8	62.3	5.2	0.0011	**	-2.5	0.5702	ns	2.7	0.5617	ns	1,010	998	983	
Percentage of households agreeing with the statement (% Yes)																
"To be successful, above all one needs to work very hard"	62.5	58.9	54.5	-3.6	0.3318	ns	-4.4	0.2672	ns	-8.1	0.1957	ns	1,011	1,004	985	
"To be successful above all one needs to be lucky"	37.5	41.1	45.5	3.6	0.3318	ns	4.4	0.2672	ns	8.1	0.1957	ns	1,011	1,004	985	

*** p<0.001, ** p<0.01, * p<0.5, ns = statistically nonsignificant p<0.1.