

## Supplementary Table

Table S1. Awareness and status of forest exploited in Chau Thai, Nghe An

Farmers' perceptions, actions and perceived willingness-to-involve REDD+ program		N	Mean	Std. Deviation	Std. Error	Min	95% Confidence Interval for Mean		Max	Range
							Lower Bound	Upper Bound		
Forest	Importance forest	215.00	4.69	0.54	0.04	3.00	4.62	4.77	5.00	2.00
	Total land area (ha)	215.00	3.15	2.86	0.20	0.11	2.77	3.54	12.45	12.34
Household's land area structure	Wet rice land area (ha)	215.00	0.09	0.06	0.00	0.00	0.09	0.10	0.44	0.44
	Paddy land area (ha)	215.00	0.01	0.15	0.01	0.00	-0.01	0.03	2.00	2.00
	Shifting cultivation land area (ha)	215.00	0.01	0.10	0.01	0.00	0.00	0.02	1.00	1.00
	Garden land area (ha)	215.00	0.01	0.03	0.00	0.00	0.01	0.02	0.23	0.23
	Forest land area (ha)	215.00	2.94	2.80	0.19	0.03	2.57	3.32	12.00	11.97
	Pond land area (ha)	215.00	0.02	0.07	0.01	0.00	0.01	0.03	1.00	1.00
	Residential land area (ha)	215.00	0.05	0.08	0.01	0.00	0.04	0.06	1.00	1.00
	Other land area ha	215.00	0.01	0.14	0.01	0.00	-0.01	0.03	2.00	2.00
Reasons to plant forest species	Easy to cultivate	215.00	0.98	0.14	0.01	0.00	0.96	1.00	1.00	1.00
	Few pests	215.00	0.68	0.47	0.03	0.00	0.62	0.74	1.00	1.00
	Fast growth	215.00	0.67	0.47	0.03	0.00	0.61	0.73	1.00	1.00
	Short harvesting time	215.00	0.13	0.34	0.02	0.00	0.09	0.18	1.00	1.00
	Easy to sell	215.00	0.62	0.49	0.03	0.00	0.55	0.68	1.00	1.00

	Economic efficiency	215.00	0.45	0.50	0.03	0.00	0.38	0.52	1.00	1.00
	Environmental protection	215.00	0.33	0.47	0.03	0.00	0.27	0.40	1.00	1.00
	Native species favoured	215.00	0.09	0.28	0.02	0.00	0.05	0.13	1.00	1.00
	Weather resistance	215.00	0.33	0.47	0.03	0.00	0.27	0.40	1.00	1.00
	Seedlings and technical availability	215.00	0.19	0.39	0.03	0.00	0.14	0.24	1.00	1.00
	Learn from neighbors	215.00	0.77	0.42	0.03	0.00	0.72	0.83	1.00	1.00
	No other choice seed	215.00	0.27	0.44	0.03	0.00	0.21	0.33	1.00	1.00
	Suggested by the extension officers	215.00	0.20	0.40	0.03	0.00	0.15	0.26	1.00	1.00
Household income structure	Total income (US\$)	215.00	68.00	39.99	2.73	8.63	62.63	73.38	212.84	204.21
	Income from rice (US\$)	215.00	5.03	3.36	0.23	0.00	4.58	5.48	21.60	21.60
	Income from corn (US\$)	215.00	0.04	0.30	0.02	0.00	0.00	0.08	3.60	3.60
	Income from potato (US\$)	215.00	0.02	0.19	0.01	0.00	-0.01	0.05	2.40	2.40
	Income from cassava (US\$)	215.00	0.03	0.28	0.02	0.00	-0.01	0.06	4.00	4.00
	Income from soybean (US\$)	215.00	0.05	0.49	0.03	0.00	-0.02	0.11	6.00	6.00
	Income from fruit (US\$)	215.00	0.98	6.01	0.41	0.00	0.17	1.79	73.00	73.00
	Income from livestock (US\$)	215.00	17.24	17.55	1.20	0.00	14.88	19.60	112.50	112.50
	Income from seafood (US\$)	215.00	0.44	1.48	0.10	0.00	0.24	0.64	10.50	10.50
	Income from planted forest (US\$)	215.00	14.67	15.18	1.04	0.00	12.63	16.71	83.33	83.33

	Income from non-timber forest products (US\$)	215.00	0.03	0.41	0.03	0.00	-0.03	0.08	6.00	6.00
	Income from wage earning (US\$)	215.00	26.55	29.84	2.04	0.00	22.53	30.56	144.00	144.00
	Income from doing business (US\$)	215.00	0.85	5.98	0.41	0.00	0.05	1.65	72.00	72.00
	Income from official salary (US\$)	215.00	1.01	7.40	0.50	0.00	0.02	2.01	96.00	96.00
	Income from pension (US\$)	215.00	1.08	7.06	0.48	0.00	0.13	2.03	78.00	78.00
Potential participation in the REDD + project	REDD+_join_500k (1=yes, 0=no)	215.00	0.20	0.40	0.03	0.00	0.14	0.25	1.00	1.00
	REDD+_join_1000k (1=yes, 0=no)	215.00	0.41	0.49	0.03	0.00	0.34	0.48	1.00	1.00
	REDD+_join_2000k (1=yes, 0=no)	215.00	0.52	0.50	0.03	0.00	0.45	0.58	1.00	1.00

Data sources: field survey, personal calculation & [1–3]

**Table S2.** Differences in awareness and forest exploited between poor and non-poor households in Chau Thai, Nghe An

Farmers' perceptions, actions and perceived willingness-to-involve REDD+ program		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig.(2-tailed)	Mean difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Forest	Importance forest	4.64	0.03	-1.23	161.70	0.22	-0.09	0.07	-0.24	0.06
Household's land area structure	Total land area (ha)	18.46	0.00	4.52	199.82	0.00	1.59	0.35	0.90	2.28
	Wet rice land area (ha)	0.01	0.93	0.37	213.00	0.71	0.00	0.01	-0.01	0.02
	Paddy land area (ha)	3.54	0.06	0.93	213.00	0.35	0.02	0.02	-0.02	0.06
	Shifting cultivation land area (ha)	2.44	0.12	0.77	213.00	0.44	0.01	0.01	-0.02	0.04
	Garden land area (ha)	0.79	0.37	0.53	213.00	0.60	0.00	0.01	-0.01	0.01
	Forest land area (ha)	16.82	0.00	4.38	199.34	0.00	1.51	0.34	0.83	2.19
	Pond land area (ha)	5.17	0.02	1.99	175.15	0.05	0.02	0.01	0.00	0.03
	Residential land area (ha)	1.92	0.17	1.00	213.00	0.32	0.01	0.01	-0.01	0.03
	Other land area (ha)	2.11	0.15	0.73	213.00	0.47	0.01	0.02	-0.02	0.05
Reasons to plant forest species	Easy to cultivate	0.58	0.45	-0.38	213.00	0.70	-0.01	0.02	-0.05	0.03
	Few pests	4.98	0.03	-1.08	153.41	0.28	-0.07	0.07	-0.20	0.06
	Fast growth	0.00	0.95	-0.03	213.00	0.97	0.00	0.07	-0.14	0.13
	Short harvesting time	6.19	0.01	1.28	173.25	0.20	0.06	0.05	-0.03	0.15
	Easy to sell	19.52	0.00	-2.10	156.90	0.04	-0.14	0.07	-0.28	-0.01
	Economic efficiency	1.73	0.19	-1.76	213.00	0.08	-0.13	0.07	-0.27	0.02
	Environmental protection	2.42	0.12	0.74	213.00	0.46	0.05	0.07	-0.08	0.19
	Native species favoured	49.83	0.00	-2.82	92.82	0.01	-0.14	0.05	-0.23	-0.04
	Weather resistance	11.11	0.00	-1.95	134.43	0.05	-0.14	0.07	-0.27	0.00

	Seedlings and technical availability	32.70	0.00	-2.74	113.58	0.01	-0.17	0.06	-0.29	-0.05
	Learn from neighbors	0.19	0.66	-0.22	213.00	0.83	-0.01	0.06	-0.13	0.11
	No other choice seed	4.16	0.04	-1.04	135.80	0.30	-0.07	0.07	-0.20	0.06
	Suggested by the extension officers	0.46	0.50	0.34	149.71	0.74	0.02	0.06	-0.10	0.13
Household income structure	Total income (US\$)	23.60	0.00	12.17	205.37	0.00	46.42	3.81	38.90	53.95
	Income from rice (US\$)	1.13	0.29	0.91	213.00	0.36	0.44	0.48	-0.51	1.39
	Income from corn (US\$)	3.79	0.05	-0.99	213.00	0.33	-0.04	0.04	-0.13	0.04
	Income from potato (US\$)	0.46	0.50	-0.35	213.00	0.72	-0.01	0.03	-0.06	0.04
	Income from cassava (US\$)	0.76	0.38	0.43	213.00	0.67	0.02	0.04	-0.06	0.10
	Income from soybean (US\$)	4.08	0.04	1.39	141.00	0.17	0.07	0.05	-0.03	0.17
	Income from fruit (US\$)	7.44	0.01	2.01	150.03	0.05	1.26	0.63	0.02	2.49
	Income from livestock (US\$)	13.34	0.00	4.31	212.97	0.00	8.74	2.03	4.74	12.74
	Income from seafood (US\$)	5.03	0.03	1.30	172.36	0.19	0.26	0.20	-0.13	0.65
	Income from planted forest (US\$)	23.93	0.00	4.20	212.60	0.00	7.33	1.75	3.89	10.77
	Income from non-timber forest products (US\$)	2.08	0.15	0.72	213.00	0.47	0.04	0.06	-0.07	0.16
	Income from wage earning (US\$)	24.90	0.00	8.39	208.17	0.00	26.24	3.13	20.08	32.40
	Income from doing business (US\$)	8.50	0.00	2.02	141.56	0.05	1.24	0.62	0.03	2.46
	Income from official salary (US\$)	4.41	0.04	1.41	169.25	0.16	1.12	0.79	-0.44	2.68
	Income from pension (US\$)	0.24	0.62	-0.28	213.00	0.78	-0.29	1.02	-2.30	1.72
Potential participation in	REDD+_join_500k (1=yes, 0=no)	36.91	0.00	3.00	195.95	0.00	0.15	0.05	0.05	0.25
	REDD+_join_1000k (1=yes, 0=no)	5.87	0.02	1.15	149.57	0.25	0.08	0.07	-0.06	0.22

the REDD + project	REDD+_join_2000k (1-yes, 0-no)	0.13	0.72	0.77	213.00	0.44	0.06	0.07	-0.09	0.20
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Data sources: field survey, personal calculation & [1–3]

Table S3. The poverty line in Vietnam and the World in 2004-2020

Year	Vietnam				World
	Rural		City		
	VND month-1	USD day-1	VND month-1	USD day-1	USD day-1
2004	170,000	0.38	220,000	0.49	1
2006	200,000	0.42	260,000	0.54	1
2008	290,000	0.59	370,000	0.75	1.25
2010	360,000	0.62	450,000	0.77	1.25
2011-2015	400,000	0.57	500,000	0.71	1.25
2016-2020	700,000	1.02	900,000	1.32	1.9

Note: Data was obtained from <http://www.molisa.gov.vn>; [www.gso.gov.vn](http://www.gso.gov.vn); <https://data.worldbank.org>; <https://www.vietcombank.com.vn>

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