

Appendix 1. Control villages for NESP survey 2017.

Summary

Table A1.1. List of control villages for each HD based on variables used in matching: (a) B1 (primary biophysical variables), (b) B1 & B2 (both primary and secondary biophysical variables), (c) B1 & P1 (primary biophysical and basic human wellbeing variables), (d) B1, B2 & P1 (biophysical and basic human wellbeing variables), and (e) B1, B2, P1 & P2 (biophysical, basic human wellbeing and infrastructure variables) (see Table 2 for baseline variables B1, B2, P1 & P2). Cell highlighted in orange represents the eligible control based on matching variables for column (b)-(e). Cell highlighted in red represents the most suitable control village (closest match to HD), and cell highlighted in blue represents the second most suitable control village. *The final control was selected minimizing column (b) or (c).*

Kab. (District)	Hutan Desa (HD)	Kecamatan	Control village candidates, based on ‡	Similarity to HD (smaller value indicates closer match)				
			(a) B1 (<i>with X denotes the final selected control</i>)	(b) B1 & B2	(c) B1 & P1	(d) B1, B2 & P1	(e) B1, B2, P1 & P2	
Ketapang	Laman Satong (M, HPK)	Sandai	Sandai (M, HPK)	4.33	2.58	5.04	5.37	
		Simpang Hulu	Balai Pinang (M,HPK)	3.89	0.60	3.94	4.04	
		Nanga Tayap	Kayong Utara (M,HP) X	3.26	0.04	3.26	3.83	
		Sandai	Merimbang Jaya (M,HP)	3.54	1.95	4.04	6.94	
		Simpang Dua	Semandang Kanan (M,HP)	4.19	3.55	5.49	5.62	
		Simpang Hulu	Paoh Concong (M,HP)	3.09	1.92	3.64	3.74	
		Simpang Hulu	Semandang Kiri (M,HP)	3.10	2.01	3.70	3.86	
		Sungai Melayu Rayak	Sei Melayu (M,HP)	4.76	3.72	6.05	6.41	
		Sungai Melayu Rayak	Suka Mulya (M,HP)	6.19	2.06	6.52	6.59	
		Tumbang Titi	Mahawa (M,HP)	2.26	3.50	4.16	4.77	
		Tumbang Titi	Nanga Kelampai (M,HP)	5.03	3.27	6.00	6.49	
		Pematang Gadung (P, HPK)	Manis Mata	Suka Ramai (P,HPK)	2.81	1.97	3.44	3.64
	Air Upas		Air Durian Jaya (P,HP)	2.32	1.98	3.05	3.13	
	Kendawangan		Air Tarap (P,HP)	3.07	2.69	4.08	6.40	
	Kendawangan		Suka Damai (P,HP)	2.15	1.96	2.91	2.93	
	Nanga Tayap		Sungai Kelik (P,HP) X	1.55	3.37	3.71	3.72	
	Simpang Hulu		Kualan Hilir (P,HP)	4.59	3.84	5.99	6.73	
	Singkup		Pantai Ketikal (P,HP)	2.16	2.61	3.39	3.58	
	Kapuas Hulu		Menua Sadap (M, HPT)	Badau	Badau (M,HPT)	4.47	3.13	5.68
		Boyan Tanjung		Boyan Tanjung (M,HPT)	5.35	4.45	7.12	8.34
Hulu Gurung		Kelakar (M,HPT) X		2.84	3.50	4.39	5.16	
Hulu Gurung		Nanga Tepuai (M,HPT)		4.41	3.92	5.99	6.48	
Pengkadan		Riam Panjang (M,HPT) X		2.63	3.13	4.00	4.38	
Nanga Lauk (P, HL)		Embaloh Hulu	Pulau Manak (P,HL) X	2.99	1.05	3.46	4.84	
		Embaloh Hulu	Tamao (P,HL)	2.59	3.22	4.01	4.59	
		Putussibau Utara	Nanga Awin (P,HL)	3.55	1.17	4.09	5.74	
		Putussibau Utara	Nanga Nyabau (P,HL) X	4.33	3.56	5.74	6.10	

‡ HL = Hutan Lindung (Watershed protection forest), HPT = Hutan Produksi Teerbatas (Limited production forest), HP = Hutan Produksi Tetap (Permanent production forest), HPK = Hutan Produksi Konversi (Convertible production forest). M = Mineral soil, P = Peat soil.

Methodology

Table A1.2. List of baseline variables used in matching: (a) B1 (primary biophysical variables), (b) B2 (secondary biophysical variables), (c) P1 (basic human wellbeing variables), and (d) P2 (infrastructure variables).

Aspect to match	Description	PODES‡ variable	Response
Biophysical - Primary (B1)	Location	Location on peat	Binary
		Forest functional zone	Categorical (HL, HPT, HP/HPK)
Biophysical - Secondary (B2)	Anthropogenic pressure	Forest area	Continuous
		Forest loss (2005-2015)	Continuous
		Elevation	Continuous
		Slope	Continuous
		Distance to cities and major roads	Continuous
Poverty -Basic human wellbeing (P1)	Living conditions	Proportions of families living in poor housing conditions or slums	Continuous
		Households with electricity	Continuous
		Energy for cooking for the majority of households	Categorical (1=natural gas/electricity, 2=kerosene, 3=others)
		Toilet facilities for the majority of households	Categorical (1=own toilet, 2=joint toilet, 3=public toilet, 4=non-toilet)
		Children malnutrition incidence in the last year	Continuous
Poverty - Infrastructure (P2)	Access to health, knowledge, infrastructure and services	Distance to the nearest health facility	Continuous
		Distance to nearest elementary school	Continuous
		Number of elementary schools nearby	Continuous
		Distance to nearest secondary school	Continuous

‡ PODES is the Pendataan Potensi Desa or Village Potential Statistics from the Bureau of Statistics/Badan Pusat Statistik of the Republic of Indonesia. This statistical matching used data from the 2014 survey, for which the report is available online, but the data is not open access (<https://www.bps.go.id/publication/2014/12/16/7107f6b0f1a6f3e4619a2e0e/statistik-potensi-desa-indonesia-2014.html>)