

Supplementary table S1 Combined monetary benefits of the regulating and provisioning services in the Chulalongkorn Centenary Park (CU 100 Park).

Appendix Table 01 Combined Monetary Benefits of the Regulating and provisioning services in the Chikarabongm Century Park (30-100 Park)																	
Species Name	Forest Type	Habitat	DBH (cm)	Total Height (m)	Tree Count	Monetary Value from i-Tree Eco Calculation (USD) (1)								Monetary Value from BAAC (USD) (2)		Total Monetary Value (USD) (1) + (2)	
						Carbon Storage		Gross Carbon Sequestration		Avoid Runoff		Pollution Removal		Oxygen	Timber Value		
						kg tree ⁻¹ year ⁻¹	USD tree ⁻¹ year ⁻¹	kg tree ⁻¹ year ⁻¹	USD tree ⁻¹ year ⁻¹	m ³ tree ⁻¹ year ⁻¹	USD tree ⁻¹ year ⁻¹	kg tree ⁻¹ year ⁻¹	USD tree ⁻¹ year ⁻¹	kg/tree	Total (USD)	USD tree ⁻¹ year ⁻¹	USD tree ⁻¹ year ⁻¹
Hard Wood																	
<i>Azadirachta indica</i>	D	NA	18.80 ± 0.96	8.30 ± 0.83	3	67.06	13.57	12.33	2.48	0.17	0.43	1.29	14.54	32.90	1463.18	487.73	518.75
<i>Shorea roxburghii</i>	D	NA	14.45 ± 9.55	6.15 ± 2.45	2	57.60	11.74	12.40	2.49	0.30	0.76	2.27	25.58	33.00	753.19	376.60	417.17
<i>Millettia leucantha</i>	D	NA	16.85 ± 1.15	8.45 ± 0.75	2	57.95	11.67	7.75	1.56	0.37	0.93	2.77	31.23	20.70	738.95	369.48	414.87
<i>Xylia xylocarpa</i>	D	NA	13.74 ± 2.33	8.47 ± 1.22	17	33.82	6.84	7.80	1.57	0.17	0.36	1.07	12.11	20.81	3881.34	228.31	249.20
<i>Dalbergia cochinchinensis</i>	D	NA	13.82 ± 2.11	8.33 ± 1.43	136	36.18	7.28	11.23	1.29	0.13	0.32	0.97	10.86	17.12	31,152.70	229.06	248.82
<i>Hopea odorata</i>	D	A	13.68 ± 2.14	8.70 ± 1.37	26	35.66	7.19	6.27	1.21	0.05	0.13	0.39	4.41	16.72	5986.74	230.26	243.26
<i>Chukrasia tabularis</i>	E	NA	13.49 ± 3.12	7.69 ± 0.90	9	35.47	7.15	7.13	1.43	0.04	0.14	0.42	4.72	19.01	2048.94	227.66	241.10
<i>Terminalia arjuna</i>	D	NA	12.57 ± 3.58	5.97 ± 2.52	3	27.20	5.58	8.37	1.69	0.27	0.68	2.05	23.09	22.30	608.18	202.73	233.77
<i>Afzelia xylocarpa</i>	D	NA	13.54 ± 2.03	7.26 ± 0.83	27	43.56	6.95	5.89	1.18	0.04	0.11	0.34	3.59	15.69	5938.30	219.94	231.77
<i>Terminalia alata</i>	D	NA	13.34 ± 1.42	7.06 ± 1.07	5	29.60	5.69	6.20	1.25	0.08	0.21	0.64	7.19	16.50	1033.55	206.71	221.31
<i>Lagerstroemian floribunda</i>	D	NA	12.9±2.35	6.45±0.95	22	31.44	6.33	5.93	1.20	0.08	0.19	0.57	6.40	15.83	4,445.66	202.08	216.19
<i>Homalium tomentosum</i>	D	NA	12.41±1.74	8.86±1.56	23	28.97	5.83	5.64	1.14	0.11	0.27	0.77	9.17	15.05	3,844.52	167.15	183.57
<i>Pterocarpus indicus</i>	D	NA	19.30	7.50	1	81.00	16.31	8.70	1.74	0.20	0.51	15.55	17.17	23.10	105.40	105.40	141.13
<i>Syzygium cumini</i>	E	NA	16.98±1.99	6.45±0.26	4	60.65	12.21	9.15	1.84	0.18	0.41	1.24	13.99	24.33	379.84	94.96	123.41

Species Name	Forest Type	Habitat	DBH (cm)	Total Height (m)	Tree Count	Monetary Value from i-Tree Eco Calculation (USD) (1)									Monetary Value from BAAC (USD) (2)		Total Monetary Value (USD) (1) + (2)
						Carbon Storage		Gross Carbon Sequestration		Avoid Runoff		Pollution Removal		Oxygen	Timber Value		
						kg tree ⁻¹ year ⁻¹	USD tree ⁻¹ year ⁻¹	kg tree ⁻¹ year ⁻¹	USD tree ⁻¹ year ⁻¹	m ³ tree ⁻¹ year ⁻¹	USD tree ⁻¹ year ⁻¹	kg tree ⁻¹ year ⁻¹	USD tree ⁻¹ year ⁻¹	kg/tree	Total (USD)	USD tree ⁻¹ year ⁻¹	USD tree ⁻¹ year ⁻¹
Hard Wood																	
Millingtonia hortensis	E	NA	14.50±1.78	7.97±1.21	70	73.78	14.95	7.07	23.56	0.05	0.32	0.50	4.54	18.85	5,494.42	78.49	121.87
Melaleuca quinquenervia	E	NA	17.20±2.88	8.73±1.60	11	58.97	11.91	8.90	1.79	0.14	0.35	1.04	11.72	23.74	1,057.00	96.09	121.85
Syzygium cinereum	E	NA	16.81±2.80	7.79±0.86	12	52.08	10.51	8.59	1.73	0.09	0.23	0.70	7.91	22.88	1,168.82	97.40	117.78
Samanea saman	E	A	19.70±4.89	7.71±1.42	74	88.44	17.76	12.87	2.59	0.34	0.86	2.63	29.15	34.33	4,039.37	54.59	104.95
Terminalia bellirica	D	NA	14.48±1.60	9.70±0.70	6	40.45	8.14	7.65	1.54	0.11	0.28	0.68	9.55	20.40	492.27	82.04	101.56
Artocarpus lacucha	D	NA	14.08± 0.87	8.79±1.25	5	38.96	7.87	7.70	1.66	0.12	0.30	0.91	10.24	20.54	400.32	80.06	100.03
Terminalia chebula	E	NA	13.44±3.47	6.89±1.24	8	36.98	7.44	5.93	1.19	0.06	0.16	0.47	5.32	15.78	569.70	71.21	85.32
Dipterocarpus alatus	E	NA	12.57±2.25	8.19±1.38	47	26.36	5.34	4.35	0.86	0.04	0.11	0.34	3.83	11.38	3,091.04	65.77	75.92
Polyalthia cerasoides	E	NA	11.75±1.95	7.85±0.05	2	20.35	4.09	5.40	1.08	0.09	0.23	0.69	7.84	14.30	122.60	61.30	74.55
Bombax ceiba	D	ME	15.90± 7.57	6.37± 2.88	3	67.77	13.64	8.37	1.68	0.20	0.51	1.52	17.20	22.30	122.35	40.78	73.81
Vitex glabrata	D	NA	4.60	5.00	1	2.60	0.52	1.60	0.32	0.01	0.01	0.04	0.48	4.20	67.76	67.76	69.09
Sterculia gilva	D	NA	11.70	6.30	1	21.80	4.55	8.40	1.68	0.30	0.72	2.15	24.28	22.30	27.30	27.30	58.53

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						Carbon Storage		Gross Carbon Sequestration		Avoid Runoff		Pollution Removal		Oxygen	Timber Value		
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Hard Wood																	
<i>Phyllanthus emblica</i>	D	NA	9.60	5.50	1	11.70	2.35	6.10	1.22	0.09	0.23	0.70	7.86	16.20	45.54	45.54	57.18
<i>Pterospermum acerifolium</i>	D	NA	8.57±1.72	6.00±1.07	3	10.00	2.02	4.03	0.81	0.12	0.30	0.88	9.99	10.77	118.13	39.38	52.49
<i>Casearia greviifolia</i>	E	A	14.45±1.65	7.25±0.25	2	0.04	6.55	0.01	1.76	0.03	0.07	0.22	2.46	23.35	76.22	38.11	48.96
<i>Anogeissus acuminata</i>	D	ME	6.90	5.60	1	6.70	1.35	2.90	0.58	0.10	0.22	0.65	7.40	7.70	29.60	29.60	39.16
<i>Berrya mollis</i>	D	NA	8.40	6.50	1	8.70	1.75	5.50	1.11	0.17	0.44	1.32	14.91	14.70	19.07	19.07	37.28
<i>Scaphium macropodium</i>	D	NA	4.80	3.60	1	2.50	0.53	2.80	0.57	0.03	0.08	0.25	2.77	7.50	15.15	15.15	19.10
Soft Wood																	
<i>Gliricidia sepium</i>	D	A	21.00	4.10	1	74.10	14.92	11.10	2.24	0.34	0.86	2.56	28.93	29.60	59.84	59.84	106.78
<i>Bauhinia purpurea</i>	D	NA	16.28± 2.72	6.01±1.08	20	296.02	57.01	9.78	1.93	0.17	0.42	1.25	14.08	25.54	648.07	32.40	105.85
<i>Ficus racemosa</i>	D	NA	17.15±3.45	5.55±0.05	2	64.15	12.92	9.10	1.83	0.18	0.44	1.33	14.99	24.25	94.53	47.27	77.45
<i>Ficus lacor</i>	D	NA	18.20	7.10	1	54.20	10.91	15.00	3.02	0.09	0.24	0.71	7.98	40.00	47.94	47.94	70.09
<i>Barringtonia acutangula</i>	D	NA	17.01±3.11	5.96±0.86	7	51.89	10.47	7.23	1.45	0.08	0.20	0.61	6.92	19.27	312.93	44.70	63.75
<i>Crateva religiosa</i>	E	OC	15.58±2.57	6.68±0.90	4	40.43	8.14	6.78	1.36	0.03	0.12	0.37	4.13	18.08	157.54	39.39	53.13
<i>Ficus carica</i>	E	ME	12.30±1.50	5.50±1.50	2	26.75	5.39	5.95	1.20	0.16	0.39	1.18	13.31	15.85	62.00	31.00	51.29

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Soft Wood																	
<i>Crateva adansonii</i>	E	NA	15.17±1.40	5.93±0.85	7	36.39	7.32	7.06	1.42	0.03	0.07	0.20	2.31	18.80	276.60	39.51	50.63
<i>Tabebuia rosea</i>	D	A	12.71±2.42	6.73±0.87	81	28.42	5.58	7.01	1.42	0.07	0.18	0.54	6.24	18.84	2,605.85	32.17	45.87
<i>Cinnamomum bejolghota</i>	E	NA	12.90±1.71	7.00±0.35	4	25.20	5.10	5.15	1.04	0.08	0.15	0.44	4.98	13.75	123.99	31.00	42.26
<i>Saraca indica</i>	E	NA	11.77±1.21	4.56±0.61	7	21.04	4.24	6.94	1.40	0.23	0.21	0.62	6.97	18.55	201.92	28.85	41.66
<i>Euphorbia spp.</i>	D	NA	9.77±2.46	7.80±3.54	3	15.47	3.11	6.00	1.21	0.14	0.36	1.09	12.31	16.03	63.97	21.32	38.32
<i>Mitrephora tomentosa</i>	E	NA	8.58±3.93	5.64±1.53	7	22.13	4.46	4.30	0.86	0.06	0.14	0.42	4.74	11.44	152.43	21.78	31.98
<i>Elaeocarpus hygrophilus</i>	E	NA	10.50±2.98	5.20±1.05	7	18.50	3.72	3.51	0.71	0.04	0.10	0.30	3.40	9.39	160.41	22.92	30.84
<i>Shirakiopsis indica</i>	D	NA	9.50	4.80	1	12.20	2.50	5.90	1.20	0.09	0.22	0.67	7.56	15.90	19.07	19.07	30.55
<i>Scaevola taccada</i>	D	NA	9.10	5.20	1	10.80	2.20	5.70	1.14	0.10	0.14	0.41	4.59	15.10	19.07	19.07	27.15
<i>Homonoia riparia</i>	D	NA	9.00	3.60	1	12.70	2.55	3.40	0.69	0.04	0.11	0.32	3.68	9.10	19.07	19.07	25.99
<i>Saraca thaipingensis</i>	D	NA	10.00	3.50	1	12.40	2.50	6.30	1.26	0.01	0.03	0.09	1.00	16.70	19.07	19.07	23.86
<i>Elaeocarpus grandiflorus</i>	E	NA	7.86±2.38	3.28±0.62	5	10.30	2.08	3.28	0.66	0.05	0.12	0.36	4.10	8.72	84.19	16.84	23.79
<i>Radermachera ignea</i>	D	NA	7.75±0.35	6.15±0.05	2	7.20	1.45	5.20	1.05	0.01	0.02	0.07	0.78	13.85	28.44	14.22	17.52

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Soft Wood																	
<i>Diospyros mollis</i>	D	NA	6.40	5.70	1	4.50	0.91	3.50	0.70	0.10	0.17	0.50	5.63	9.20	9.37	9.37	16.77
<i>Fraxinus griffithii</i>	D	NA	6.10	4.10	1	4.60	0.96	3.00	0.60	0.06	0.15	0.45	5.06	7.90	9.37	9.37	16.14
<i>Dolichandrone spathacea</i>	D	NA	5.00	3.5	1	2.70	0.55	2.30	0.47	0.03	0.07	0.20	2.28	6.20	9.37	9.37	12.74
<i>Semecarpus cochinchinensis</i>	D	NA	6.80	9.90	1	6.30	1.26	1.40	0.27	0.01	0.04	0.11	1.11	3.60	9.37	9.37	12.16
Forest type: “D” = Deciduous, “E” = Evergreen. Habitat: “A” = Central/North/South America, “NA” = native to Thailand, “ME” = Middle East, and “OC” = other continents (Australia and Africa).																	