

Supplementary Table S1. Effect of tree-based land-use systems on SOC (Mg ha⁻¹) at different soil depths

Tree-based land-use system	0-20 cm	20-40 cm	40-60 cm	Mean
Forest				
<i>Lagerstroemia parviflora</i>	40.88±0.91	39.99±0.96	32.90±0.81	37.92b
<i>Michelia champaca</i>	40.12±1.01	36.95±1.07	31.66±1.02	36.24cd
<i>Tectona grandis</i>	39.52±0.59	35.74±0.76	30.25±0.65	35.17de
<i>Shorea robusta</i>	41.17±1.15	40.18±0.48	29.48±0.61	36.94bc
Mixed	47.06±1.14	47.13±1.90	32.48±1.33	42.22a
Forest Tree Plantation				
<i>Swietenia macrophylla</i>	23.55±0.40	21.58±1.36	19.45±0.95	21.53gh
<i>Anthocephalus cadamba</i>	23.78±0.38	20.49±0.55	19.37±0.29	21.21ghi
<i>Gmelina arborea</i>	22.95±0.64	19.06±1.29	17.99±0.74	20.00hijkl
<i>Shorea borneensis</i>	23.01±0.94	19.66±0.44	17.36±0.39	20.01hijkl
<i>Tectona grandis</i>	23.33±1.86	19.55±0.53	18.62±0.73	20.50ghijkl
<i>Lagerstroemia indica</i>	23.47±1.35	19.96±0.30	17.03±0.60	20.16hijkl
<i>Tectona grandis</i> + <i>Milvus migrans</i>	23.45±1.21	18.96±0.32	17.58±1.02	20.00hijkl
A c + S m	23.05±1.51	19.71±0.64	17.32±0.62	20.03hijkl
Agroforestry				
<i>Albizia lebbek</i> based	24.56±0.95	20.63±0.47	16.66±0.71	20.62ghijkl
<i>Swietenia macrophylla</i> based	25.77±0.69	19.35±0.38	17.37±0.58	20.83ghijk
<i>Terminalia arjuna</i> based	24.56±0.65	19.48±0.32	16.54±0.39	20.19hijkl
<i>Gmelina arborea</i> based	25.23±1.50	19.77±0.45	16.91±0.67	20.64ghijkl
<i>Millettia pinnata</i> based	23.26±1.11	19.45±0.24	18.31±0.10	20.34ghijkl
<i>Lagerstroemia indica</i> based	25.83±0.95	20.69±0.19	18.92±0.29	20.81g
<i>Anthocephalus cadamba</i> based	24.02±1.30	19.26±0.96	18.66±0.70	20.65hijkl
<i>Mangifera indica</i> based	24.22±1.25	19.63±0.39	17.06±0.71	20.30ghijkl
Homegarden	34.98±1.18	28.23±1.44	27.13±0.71	30.11f
Commercial Crop Plantation				
<i>Hevea brasiliensis</i>	24.27±1.45	19.27±0.86	16.51±0.88	20.02hijkl
<i>Cocos nucifera</i>	24.67±0.37	18.82±0.56	17.32±0.63	20.27hijkl
<i>Areca catechu</i>	25.54±0.67	19.73±0.38	18.32±0.50	21.20ghi
<i>Machilus bombycina</i>	24.53±1.16	19.95±0.25	18.77±0.15	21.08ghij
Tea plantations	39.93±1.26	33.57±0.92	29.69±0.44	34.40e
Fruit Orchard				
<i>Psidium guajava</i>	24.28±0.58	18.81±1.07	16.32±0.58	19.80ijkl
<i>Manilkara zapota</i>	24.02±0.85	18.28±0.68	17.74±1.21	20.01hijkl
<i>Litchi chinensis</i>	23.82±0.61	18.31±0.63	15.33±0.53	19.15l
<i>Anacardium occidentale</i>	23.61±0.55	18.45±0.51	16.65±0.45	19.57jkl
<i>Citrus lemon</i>	22.55±1.13	18.90±0.87	16.18±1.17	19.2ll
<i>Mangifera indica</i>	23.56±0.55	18.15±0.73	16.60±0.59	19.44kl
Mean	27.53a	23.26b	20.26c	

A c + S m- *Anthocephalus cadamba* + *Swietenia macrophylla*

Supplementary Table S2. Effect of tree-based land-use systems on biomass accumulation and partitioning (Mg ha⁻¹)

TBL	Biomass			TSB	AGB	BGB	LB	TB
	Tree	Shrub	Herb					
Forest								
L p	130.36 *(2.12)c	11.39 (1.1)c	3.22 (0.62)c	144.97 (2.16)c	126.06 (2.10)c	18.91 (1.30)c	14.10 (1.17)a	159.07 (2.21)c
M c	139.68 (2.15)c	10.54 (1.1)c	4.13 (0.71)b	154.36 (2.19)c	134.23 (2.13)c	20.13 (1.33)c	9.35 (1.01)b	168.84 (2.22)c
T g	140.70 (2.15)c	10.19 (1.1)c	3.39 (0.64)c	154.29 (2.19)c	134.16 (2.13)c	20.12 (1.33)c	14.48 (1.19)a	163.64 (2.23)c
S r	256.02 (2.41)b	7.44 (0.9)d	2.81 (0.6)cd	266.26 (2.43)b	231.53 (2.37)b	34.73 (1.55)b	12.43 (1.13)a	278.69 (2.45)b
Mixed	743.19 (2.87)a	17.80 (1.3)b	6.62 (0.88)a	767.61 (2.88)a	667.49 (2.82)a	100.12 (2.00)a	13.60 (1.16)a	781.21 (2.89)a
Forest Tree Plantation								
S m	39.13 (1.60)h	2.06 (0.5)g	0.93 (0.3)gh	42.12 (1.64)h	36.63 (1.58)h	5.49 (0.82)g	3.58 (0.66)d	45.70 (1.68)i
A c	58.28 (1.77)f	0.90 (0.5)jkl	1.16 (0.33)g	60.34 (1.79)g	52.47 (1.73)g	7.87 (0.95)f	3.51 (0.65)a	63.85 (1.8)gh
G a	27.36 (1.45)ij	1.54 (0.3)hi	0.91 (0.3)gh	29.82 (1.49)i	25.93 (1.43)i	3.89 (0.69)h	2.32 (0.52)e	32.14 (1.52)j
S b	27.60 (1.45)ij	1.97 (0.5)gh	0.86 (0.3)gh	30.44 (1.49)i	26.47 (1.44)i	3.97 (0.69)h	1.73 (0.43)f	32.17 (1.52)j
T g	22.65 (1.4)jkl	1.89 (0.3)gh	0.91 (0.3)gh	25.44 (1.42)ij	22.12 (1.36)ij	3.32 (0.6)hij	0.97 (0.1)gh	26.41 (1.4)jkl
L i	39.04 (1.60)h	1.55 (0.4)hi	2.35 (0.3)de	42.95 (1.63)h	37.34 (1.57)h	5.60 (0.81)g	4.53 (0.44)c	47.47 (1.67)i
Tg+Mm	82.21 (1.92)e	1.18 (0.34)ij	0.84 (0.26)h	84.23 (1.9)ef	73.25 (1.87)ef	10.99 (1.08)e	1.74 (0.44)f	85.97 (1.9)ef
Ac+Sm	103.36 (2.02)d	5.54 (0.81)e	2.11 (0.49)e	111.56 (2.05)d	97.01 (1.99)d	14.55 (1.19)d	0.30 (0.11)i	111.86 (2.05)d
Agroforestry								
A l b	17.66 (1.3)mn	0.80 (0.25)kl	0.04 (0.02)k	18.49 (1.29)l	16.08 (1.23)l	2.41 (0.53)kl	0.06 (0.03)jk	18.56 (1.29)h
S m b	79.44 (1.90)e	1.31 (0.47)i	0.06 (0.27)k	80.81 (1.9)ef	70.27 (1.85)ef	10.54 (1.06)e	3.01 (0.60)d	83.82 (1.9)ef
T a b	25.52 (1.4)ijk	0.50 (0.2)mn	0.12 (0.05)k	26.14 (1.43)ij	22.73 (1.37)ij	3.41 (0.64)hi	0.02 (0.01)k	26.15 (1.4)kl
G a b	28.30 (1.47)i	1.95 (0.36)gh	0.50 (0.11)i	30.75 (1.50)i	26.74 (1.44)i	4.01 (0.70)h	0.03 (0.01)k	30.78 (1.5)jk
M p b	13.54 (1.2)op	0.33 (0.12)no	0.06 (0.03)k	13.93 (1.2)m	12.11 (1.12)m	1.82 (0.5)mn	0.08 (0.03)jk	14.01 (1.17)o
L i b	15.86 (1.2)no	0.64 (0.17)lm	0.88 (0.03)gh	17.38 (1.26)l	15.11 (1.20)l	2.27 (0.5)lm	0.04 (0.02)k	17.42 (1.26)n
A c b	49.21 (1.7)fg	1.34 (0.37)i	0.31 (0.18)j	50.86 (1.7)gh	44.23 (1.7)gh	6.63 (0.88)f	1.04 (0.3)gh	51.9 (1.72)i
M i b	19.36 (1.3)lmn	0.94 (0.25)jk	0.06 (0.05)k	20.36 (1.3)kl	17.71 (1.27)kl	2.66 (0.56)kl	0.07 (0.03)jk	20.44 (1.3)mn
Hg	90.16 (1.9)de	2.72 (0.57)f	1.52 (0.40)f	94.41 (1.9)de	82.09 (1.9)de	12.31 (1.12)e	2.97 (0.60)d	97.38 (1.9)de
Commercial Plantation Crops								
H b	51.35 (1.72)fg	0.75 (0.24)ij	0.75 (0.24)h	53.36 (1.73)g	46.40 (1.67)g	6.96 (0.90)f	1.25 (0.35)g	54.60 (1.7)hi

C n	20.71 (1.3)klm	0.07 (0.03)p	0.05 (0.02)k	20.83 (1.3)kl	18.11 (1.28)kl	2.72 (0.6)jkl	0.04 (0.02)k	20.87 (1.3)mn
A c	17.85 (1.3)mn	0.06 (0.03)p	0.08 (0.03)k	17.99 (1.28)l	15.64 (1.22)l	2.35 (0.52)l	0.02 (0.01)k	18.01 (1.28)n
M b	17.44 (1.3)mn	0.73 (0.2)klm	1.61 (0.42)f	19.78 (1.32)l	17.20 (1.26)kl	2.58 (0.6)kl	1.06 (0.3)gh	20.85 (1.3)mn
T P	47.17 (1.7)gh	29.24 (1.48)a	0.41 (0.15)ij	76.82 (1.88)f	65.30 (1.81)f	11.52 (1.09)e	0.25 (0.10)ij	77.07 (1.9)fg
Fruit Orchard								
P g	6.32 (0.9)qr	0.29 (0.11)o	0.06 (0.02)k	6.66 (0.9)no	5.79 (0.8)no	0.87 (0.27)o	0.02 (0.01)k	6.68 (0.9)pq
M z	12.54 (1.13)p	0.17 (0.07)op	0.08 (0.03)k	12.79 (1.1)m	11.12 (1.08)m	1.67 (0.42)n	0.11 (0.1)jk	12.90 (1.14)o
L c	7.82 (0.94)q	0.06 (0.03)p	0.07 (0.03)k	7.95 (0.95)n	6.92 (0.90)n	1.04 (0.31)o	0.09 (0.04)jk	8.05 (0.95)p
A o	17.86 (1.3)mn	0.14 (0.06)op	0.06 (0.03)k	18.07 (1.28)l	15.71 (1.22)l	2.36 (0.53)l	0.88 (0.27)h	18.95 (1.30)n
C l	6.15 (0.85)r	0.04 (0.02)p	0.01 (0.00)k	6.20 (0.86)o	5.40 (0.81)o	0.81 (0.26)o	0.07 (0.03)jk	6.27 (0.9)q
M i	22.63 (1.4)jkl	0.19 (0.08)op	0.07 (0.03)k	22.89 (1.4)jk	19.90 (1.32)jk	2.99 (0.6)ijk	0.81 (0.26)h	23.70 (1.4)lm
S_{em}	0.03	0.02	0.02	0.03	0.03	0.02	0.02	0.03
CD_{p=0.05}	0.08	0.06	0.06	0.08	0.08	0.06	0.06	0.08

*figures in parenthesis are log transformed values; TBLS- Tree-based land-use system; *L p*- *Lagerstroemia parviflora*; *M c*- *Michelia champaca*; *T g*- *Tectona grandis*; *S r*- *Shorea robusta*; *S m*- *Swietenia macrophylla*; *A c*- *Anthocephalus cadamba*; *G a*- *Gmelina arborea*; *S b*- *Shorea borneensis*; *L i*- *Lagerstroemia indica*; *M m*- *Milvus migrans*; *A l b*- *Albizia lebeck* based; *S m b*- *Swietenia macrophylla* based; *T a b*- *Terminalia arjuna* based; *G a b*- *Gmelina arborea* based; *M p b*- *Millettia pinnata* based; *L i b*- *Lagerstroemia indica* based; *A c b*- *Anthocephalus cadamba* based; *M i b*- *Mangifera indica* based; Hg- homegarden; *H b*- *Hevea brasiliensis*; *C n*- *Cocos nucifera*; *A c*- *Areca catechu*; *M b*- *Machilus bombycina*; T P- tea plantation; *P g*- *Psidium guajava*; *M z*- *Manilkara zapota*; *L c*- *Litchi chinensis*; *A o*- *Anacardium occidentale*; *C l*- *Citrus lemon*; *M i*- *Mangifera indica*; TSB- total standing biomass; AGB- above ground biomass; BGB- below ground biomass; L B- litter biomass; TB- total biomass

Supplementary Table S3. Effect of tree-based land-use systems on soil EC (dS m⁻¹) at different depths

Tree-based land-use system	0-20 cm	20-40 cm	40-60 cm	Mean
Forest				
<i>Lagerstroemia parviflora</i>	0.25±0.01	0.24±0.01	0.20±0.01	0.23cd
<i>Michelia champaca</i>	0.27±0.01	0.25±0.01	0.23±0.03	0.25bc
<i>Tectona grandis</i>	0.28±0.01	0.24±0.03	0.22±0.01	0.24bcd
<i>Shorea robusta</i>	0.27±0.01	0.26±0.01	0.24±0.03	0.26b
Mixed	0.30±0.02	0.28±0.02	0.26±0.03	0.28a
Forest Tree Plantation				
<i>Swietenia macrophylla</i>	0.21±0.01	0.21±0.02	0.18±0.02	0.20fg
<i>Anthocephalus cadamba</i>	0.20±0.01	0.20±0.02	0.19±0.02	0.20fg
<i>Gmelina arborea</i>	0.24±0.02	0.21±0.03	0.17±0.03	0.21ef
<i>Shorea borneensis</i>	0.23±0.01	0.18±0.02	0.15±0.01	0.18fghijk
<i>Tectona grandis</i>	0.22±0.01	0.20±0.01	0.19±0.02	0.20ef
<i>Lagerstroemia indica</i>	0.20±0.01	0.19±0.02	0.17±0.02	0.19fghij
<i>Tectona grandis</i> + <i>Milvus migrans</i>	0.20±0.00	0.19±0.01	0.19±0.02	0.20fg
A c + S m	0.19±0.01	0.15±0.01	0.13±0.02	0.16lmn
Agroforestry				
<i>Albizia lebbek</i> based	0.20±0.01	0.16±0.02	0.15±0.01	0.17hijklm
<i>Swietenia macrophylla</i> based	0.18±0.01	0.16±0.02	0.16±0.02	0.16jklm
<i>Terminalia arjuna</i> based	0.20±0.01	0.19±0.01	0.18±0.02	0.19fgh
<i>Gmelina arborea</i> based	0.17±0.01	0.17±0.03	0.16±0.01	0.17de
<i>Millettia pinnata</i> based	0.22±0.01	0.19±0.01	0.18±0.02	0.20ijklm
<i>Lagerstroemia indica</i> based	0.19±0.01	0.19±0.01	0.13±0.01	0.17fg
<i>Anthocephalus cadamba</i> based	0.20±0.02	0.19±0.02	0.19±0.03	0.19hijklm
<i>Mangifera indica</i> based	0.21±0.01	0.19±0.02	0.16±0.01	0.19fgh
Homegarden	0.24±0.01	0.23±0.02	0.21±0.03	0.22fghij
Commercial Crop Plantation				
<i>Hevea brasiliensis</i>	0.19±0.01	0.16±0.03	0.13±0.02	0.16de
<i>Cocos nucifera</i>	0.20±0.03	0.18±0.02	0.15±0.02	0.18klm
<i>Areca catechu</i>	0.19±0.02	0.18±0.03	0.17±0.02	0.16ghijkl
<i>Machilus bombycina</i>	0.20±0.01	0.18±0.02	0.15±0.02	0.18ghijkl
Tea plantations	0.25±0.02	0.23±0.01	0.22±0.01	0.23cd
Fruit Orchard				
<i>Psidium guajava</i>	0.17±0.01	0.16±0.03	0.14±0.03	0.16lmn
<i>Manilkara zapota</i>	0.16±0.01	0.14±0.01	0.15±0.02	0.15mn
<i>Litchi chinensis</i>	0.16±0.01	0.13±0.03	0.13±0.02	0.14m
<i>Anacardium occidentale</i>	0.19±0.01	0.19±0.02	0.15±0.01	0.18ghijkl
<i>Citrus lemon</i>	0.20±0.01	0.19±0.02	0.17±0.01	0.19fghi
<i>Mangifera indica</i>	0.22±0.01	0.20±0.03	0.15±0.02	0.19fghij
Mean	0.21a	0.19b	0.18c	

A c + S m- *Anthocephalus cadamba* + *Swietenia macrophylla*

Supplementary Table S4. Effect of tree-based land-use systems on soil pH at different depths

Tree-based land-use system	0-20 cm	20-40 cm	40-60 cm	Mean
Forest				
<i>Lagerstroemia parviflora</i>	4.64±0.04	4.74±0.04	5.17±0.07	4.85pq
<i>Michelia champaca</i>	4.73±0.07	4.90±0.04	5.20±0.03	4.94p
<i>Tectona grandis</i>	4.72±0.09	4.74±0.07	5.11±0.02	4.86pq
<i>Shorea robusta</i>	5.69±0.11	5.82±0.05	5.79±0.09	5.77abc
Mixed	4.23±0.07	5.06±0.08	5.16±0.04	4.82q
Forest Tree Plantation				
<i>Swietenia macrophylla</i>	5.45±0.04	5.73±0.08	5.55±0.05	5.58ghijk
<i>Anthocephalus cadamba</i>	5.11±0.02	5.23±0.05	5.38±0.05	5.24o
<i>Gmelina arborea</i>	5.19±0.11	5.41±0.08	5.54±0.12	5.38mn
<i>Shorea borneensis</i>	5.74±0.05	5.85±0.05	5.82±0.07	5.80a
<i>Tectona grandis</i>	5.73±0.05	5.86±0.05	5.83±0.05	5.81a
<i>Lagerstroemia indica</i>	5.68±0.10	5.77±0.09	5.73±0.06	5.73abcdef
<i>Tectona grandis</i> + <i>Milvus migrans</i>	5.45±0.09	5.61±0.10	5.83±0.06	5.63efghij
A c + S m	5.59±0.05	5.58±0.09	5.84±0.06	5.67bcdefgh
Agroforestry				
<i>Albizia lebbek</i> based	5.46±0.08	5.78±0.02	5.64±0.06	5.63efghij
<i>Swietenia macrophylla</i> based	5.47±0.11	5.66±0.03	5.48±0.05	5.54ijk
<i>Terminalia arjuna</i> based	5.43±0.06	5.67±0.05	5.73±0.06	5.61efghijk
<i>Gmelina arborea</i> based	5.34±0.08	5.58±0.03	5.68±0.05	5.53ijk
<i>Millettia pinnata</i> based	5.56±0.04	5.67±0.05	5.71±0.06	5.65cdefghij
<i>Lagerstroemia indica</i> based	5.45±0.09	5.75±0.04	5.74±0.04	5.64cdefghi
<i>Anthocephalus cadamba</i> based	5.65±0.08	5.8±0.07	5.76±0.09	5.74abcde
<i>Mangifera indica</i> based	5.22±0.08	5.4±0.04	5.62±0.06	5.41lmn
Homegarden	5.19±0.05	5.23±0.03	5.35±0.09	5.23o
Commercial Crop Plantation				
<i>Hevea brasiliensis</i>	5.74±0.10	5.74±0.06	5.79±0.10	5.76abcd
<i>Cocos nucifera</i>	5.56±0.11	5.65±0.03	5.77±0.04	5.52jkl
<i>Areca catechu</i>	5.44±0.10	5.51±0.04	5.62±0.02	5.52ijkl
<i>Machilus bombycina</i>	5.19±0.08	5.24±0.06	5.33±0.04	5.25o
Tea plantations	5.10±0.04	5.16±0.09	5.67±0.08	5.30no
Fruit Orchard				
<i>Psidium guajava</i>	5.14±0.08	5.23±0.05	5.35±0.06	5.24o
<i>Manilkara zapota</i>	5.67±0.05	5.84±0.05	5.84±0.04	5.78ab
<i>Litchi chinensis</i>	5.57±0.11	5.80±0.07	5.90±0.03	5.76abc
<i>Anacardium occidentale</i>	5.51±0.07	5.69±0.09	5.72±0.08	5.64defghij
<i>Citrus lemon</i>	5.64±0.09	5.65±0.05	5.80±0.09	5.70abcdefg
<i>Mangifera indica</i>	5.20±0.08	5.59±0.05	5.68±0.03	5.49klm
Mean	5.38c	5.51b	5.59a	

A c + S m- *Anthocephalus cadamba* + *Swietenia macrophylla*

Supplementary Table S5. Effect of tree-based land-use systems on soil moisture (%) at different depths

Tree-based land-use system	0-20 cm	20-40 cm	40-60 cm	Mean
Forest				
<i>Lagerstroemia parviflora</i>	27.33±0.22	28.70±0.38	30.73±0.71	28.92bcd
<i>Michelia champaca</i>	26.04±0.36	27.41±0.60	28.93±0.87	27.46defghij
<i>Tectona grandis</i>	26.98±0.51	28.14±0.69	29.91±0.93	28.34cdefgh
<i>Shorea robusta</i>	25.95±0.72	25.25±0.67	24.03±0.29	25.08lm
Mixed	30.10±0.53	32.46±0.69	33.18±0.38	31.92a
Forest Tree Plantation				
<i>Swietenia macrophylla</i>	25.60±0.20	26.24±0.78	26.89±0.25	26.24ijkl
<i>Anthocephalus cadamba</i>	24.60±0.37	29.60±0.75	31.84±0.48	28.68cdef
<i>Gmelina arborea</i>	24.25±0.62	25.51±0.99	26.11±0.51	25.29klm
<i>Shorea borneensis</i>	21.25±0.63	28.82±0.64	28.89±0.55	26.32ijkl
<i>Tectona grandis</i>	24.60±0.61	27.94±0.42	28.53±0.09	27.02efghijk
<i>Lagerstroemia indica</i>	27.83±0.50	29.30±0.26	30.79±0.65	29.31bc
<i>Tectona grandis</i> + <i>Milvus migrans</i>	26.50±0.63	28.63±0.22	29.66±0.28	28.26cdefgh
A c + S m	22.91±0.44	25.31±0.35	25.26±0.18	24.49mn
Agroforestry				
<i>Albizia lebbek</i> based	25.49±0.47	26.44±0.57	28.84±0.27	26.92fghijk
<i>Swietenia macrophylla</i> based	26.78±0.92	28.61±0.66	29.89±0.15	28.43cdefg
<i>Terminalia arjuna</i> based	25.43±0.35	26.79±0.31	27.08±0.43	26.43ijkl
<i>Gmelina arborea</i> based	24.65±0.97	26.76±0.81	28.65±0.94	26.69ghijkl
<i>Millettia pinnata</i> based	25.02±0.47	25.32±0.61	27.11±0.91	26.48ijkl
<i>Lagerstroemia indica</i> based	25.32±0.85	26.52±0.90	27.40±2.36	26.41ijkl
<i>Anthocephalus cadamba</i> based	23.77±0.28	26.96±0.48	29.55±0.51	26.76ghijk
<i>Mangifera indica</i> based	25.02±0.88	25.32±0.64	27.11±4.71	25.82jklm
Homegarden	25.99±0.58	26.98±0.88	29.55±1.01	27.5defghij
Commercial Crop Plantation				
<i>Hevea brasiliensis</i>	25.94±0.81	28.18±0.49	30.01±0.54	28.04cdefghi
<i>Cocos nucifera</i>	25.26±0.60	27.12±0.63	28.97±0.59	27.12efghij
<i>Areca catechu</i>	25.19±0.33	30.66±0.95	30.33±0.11	28.73cde
<i>Machilus bombycina</i>	25.68±0.16	27.05±0.71	27.17±0.27	26.63hijkl
Tea plantations	29.50±0.66	30.70±0.60	31.16±0.43	30.45ab
Fruit Orchard				
<i>Psidium guajava</i>	24.26±0.92	25.84±1.00	31.10±0.67	27.07efghij
<i>Manilkara zapota</i>	23.13±0.90	24.62±0.29	25.70±3.74	24.48mn
<i>Litchi chinensis</i>	25.97±0.11	26.15±0.52	27.14±1.03	26.42ijkl
<i>Anacardium occidentale</i>	22.22±0.79	23.37±0.75	24.74±0.50	23.44m
<i>Citrus lemon</i>	24.77±0.74	25.65±0.44	26.93±0.69	25.78jklm
<i>Mangifera indica</i>	24.27±0.44	26.97±0.60	27.91±0.05	26.38ijkl
Mean	25.40c	26.89b	28.61a	

A c + S m- *Anthocephalus cadamba* + *Swietenia macrophylla*

Supplementary Table S6. Effect of tree-based land-use systems on soil available nitrogen (kg ha⁻¹) at different depths

TBLS	0-20 cm	20-40 cm	40-60 cm	Mean
Forest				
L p	250.72±7.32	217.80±11.26	190.92±3.24	219.82cd
<i>Michelia champaca</i>	261.20±6.39	207.47±11.42	187.36±2.61	218.67cd
<i>Tectona grandis</i>	243.06±3.08	208.76±6.64	181.76±1.99	211.19d
<i>Shorea robusta</i>	245.87±4.19	223.52±9.83	214.85±3.99	228.08bc
Mixed	291.29±3.87	246.05±3.83	234.40±7.81	257.25a
Forest Tree Plantation				
<i>Swietenia macrophylla</i>	197.70±7.22	164.23±6.36	124.40±7.81	162.11ghi
A c	191.97±2.74	150.75±5.82	112.82±1.47	151.85ijklmn
<i>Gmelina arborea</i>	190.67±7.08	147.79±6.20	108.96±6.62	149.14klmn
<i>Shorea borneensis</i>	192.22±6.02	132.00±9.17	127.32±2.18	150.52ijklmn
<i>Tectona grandis</i>	188.09±6.92	129.33±3.93	110.22±2.44	142.55n
<i>Lagerstroemia indica</i>	190.89±6.53	141.15±4.66	117.67±5.81	149.90jklm
T g + M m	198.78±5.96	157.00±5.01	125.67±5.70	160.48ghijk
A c + S m	192.83±6.87	134.71±3.83	113.33±2.60	146.96mn
Agroforestry				
<i>Albizia lebbbeck</i> based	202.53±3.93	156.77±3.72	126.59±3.25	161.96ghi
S m based	204.65±4.18	141.12±4.47	137.67±1.45	161.14ghij
T a based	199.99±5.10	144.15±6.98	118.31±2.83	154.15hijklm
<i>Gmelina arborea</i> based	184.00±2.20	150.02±1.65	123.08±3.14	152.37ijklmn
<i>Millettia pinnata</i> based	206.57±8.84	143.00±8.50	131.16±2.31	160.24bghijk
L i based	202.71±4.05	140.78±5.14	122.67±2.33	155.39ghijklm
A c based	191.38±4.29	132.33±9.06	124.58±3.29	149.43klmn
<i>Mangifera indica</i> based	185.14±2.45	166.59±5.01	126.25±3.99	159.33ghijkl
Homegarden	250.92±8.29	220.53±5.32	217.68±8.54	230.76b
Commercial Crop Plantation				
<i>Hevea brasiliensis</i>	198.82±6.13	153.46±8.36	111.62±1.69	154.64hijklm
<i>Cocos nucifera</i>	190.37±7.32	143.95±8.05	112.74±1.67	149.02klmn
<i>Areca catechu</i>	210.12±2.57	132.29±8.90	105.88±1.45	149.43klmn
<i>Machilus bombycina</i>	186.16±11.19	153.40±5.26	105.51±0.91	148.36lmn
Tea plantations	261.41±9.84	172.80±1.75	108.44±6.64	180.89e
Fruit Orchard				
<i>Psidium guajava</i>	209.17±6.63	184.77±8.74	154.75±4.37	182.90e
<i>Manilkara zapota</i>	192.23±11.22	170.24±9.28	156.37±7.24	172.95ef
<i>Litchi chinensis</i>	209.88±0.96	177.13±4.90	145.45±3.46	177.49e
A o	193.72±6.94	160.41±7.30	144.46±4.06	166.20fg
<i>Citrus lemon</i>	190.84±9.76	169.40±1.72	157.00±1.48	172.75ef
<i>Mangifera indica</i>	196.77±6.28	157.62±4.67	141.23±4.60	165.21fgh
Mean	209.17a	164.71b	140.03c	

TBLS- tree-based land-use system; L p- *Lagerstroemia parviflora*; A c- *Anthocephalus cadamba*; T g + M m- *Tectona grandis* + *Milvus migrans*; S m- *Swietenia macrophylla*; T a- *Terminalia arjuna*; L i- *Lagerstroemia indica*; A o- *Anacardium occidentale*

Supplementary Table S7. Effect of tree-based land-use systems on soil available phosphorus (kg ha⁻¹) at different depths

Tree based land use system	0-20 cm	20-40 cm	40-60 cm	Mean
Forest				
<i>Lagerstroemia parviflora</i>	25.77±0.72	19.39±0.88	18.14±0.87	21.10cd
<i>Michelia champaca</i>	25.08±0.91	18.91±0.92	17.49±0.72	20.49d
<i>Tectona grandis</i>	26.33±0.88	22.94±1.01	18.09±0.92	22.45b
<i>Shorea robusta</i>	26.48±0.52	21.06±0.93	18.45±0.91	22.00bc
Mixed	30.15±0.54	24.42±0.52	19.62±0.58	24.73a
Forest Tree Plantation				
<i>Swietenia macrophylla</i>	19.33±1.20	18.33±0.88	15.58±0.89	17.75f
<i>Anthocephalus cadamba</i>	17.23±0.62	15.03±0.65	14.87±0.87	15.71hijk
<i>Gmelina arborea</i>	18.16±1.19	16.06±0.67	15.48±1.10	16.57fghi
<i>Shorea borneensis</i>	19.31±0.56	16.13±0.64	15.01±0.58	16.82fghi
<i>Tectona grandis</i>	18.02±0.81	16.20±0.74	15.96±1.01	16.73fghi
<i>Lagerstroemia indica</i>	17.33±1.20	17.37±0.69	15.23±0.87	16.64fghi
T g + M m	16.45±1.18	16.36±1.05	14.25±0.90	15.68hijk
A c + S m	18.21±0.85	17.12±0.47	15.87±1.02	17.07fgh
Agroforestry				
<i>Albizia lebeck</i> based	16.16±1.04	15.68±0.87	15.02±0.57	15.62ijk
<i>Swietenia macrophylla</i> based	17.34±1.20	16.30±0.58	15.22±0.91	16.29ghij
<i>Terminalia arjuna</i> based	18.03±0.89	18.09±0.58	16.43±0.97	17.52fg
<i>Gmelina arborea</i> based	17.35±1.20	15.21±0.41	15.16±0.70	15.90hij
<i>Millettia pinnata</i> based	16.05±0.80	14.89±0.87	14.22±0.40	15.05jk
<i>Lagerstroemia indica</i> based	17.11±1.06	15.57±0.65	14.05±0.53	15.58ijk
A c based	16.18±0.24	14.67±0.89	14.09±0.48	14.98jk
<i>Mangifera indica</i> based	17.21±0.58	15.08±0.99	16.13±0.65	16.14ghij
Homegarden	23.37±0.35	19.82±1.02	14.20±0.93	19.13e
Commercial Crop Plantation				
<i>Hevea brasiliensis</i>	19.20±0.86	14.04±0.54	13.16±0.45	15.47ijk
<i>Cocos nucifera</i>	16.68±0.61	16.07±0.49	15.47±0.65	16.07hij
<i>Areca catechu</i>	17.33±0.88	16.16±0.43	13.34±0.41	15.61ijk
<i>Machilus bombycina</i>	18.60±0.74	14.34±0.34	11.91±0.35	14.95jk
Tea plantations	28.22±0.51	23.43±0.66	21.94±1.04	24.53a
Fruit Orchard				
<i>Psidium guajava</i>	16.16±0.60	15.03±0.58	13.70±0.45	14.96jk
<i>Manilkara zapota</i>	15.11±0.88	14.04±0.51	13.96±0.77	14.37k
<i>Litchi chinensis</i>	16.19±0.67	15.54±0.36	15.02±0.71	15.58ijk
<i>Anacardium occidentale</i>	14.05±0.76	13.09±0.58	11.62±0.30	12.92l
<i>Citrus lemon</i>	15.53±0.40	11.34±0.34	10.68±0.18	12.52l
<i>Mangifera indica</i>	14.25±0.61	12.17±0.58	10.43±0.49	12.28l
Mean	19.03a	16.68b	15.13c	

T g- *Tectona grandis*; M m- *Milvus migrans*; A c- *Anthocephalus cadamba*; S m- *Swietenia macrophylla*

Supplementary Table S8. Effect of tree-based land-use systems on soil available potassium (Kg ha⁻¹) at different depths

TBLS	0-20 cm	20-40 cm	40-60 cm	Mean
Forest				
L p	122.16±9.11	116.32±2.33	113.28±7.41	117.25d
<i>Michelia champaca</i>	124.74±5.26	103.25±6.63	90.26±6.00	106.08cd
<i>Tectona grandis</i>	118.48±1.04	110.66±5.81	101.40±7.02	110.18bc
<i>Shorea robusta</i>	129.49±0.84	124.92±2.89	90.26±6.00	114.89bc
Mixed	141.14±6.05	131.74±4.28	114.92±2.69	129.27a
Tree Plantation				
<i>Swietenia macrophylla</i>	86.10±4.61	83.07±4.62	78.60±1.05	82.50ghi
<i>Anthocephalus cadamba</i>	88.17±1.57	73.69±4.82	64.38±3.96	75.41gklmn
<i>Gmelina arborea</i>	87.61±1.46	71.45±2.61	64.10±3.15	74.38ijklm
<i>Shorea borneensis</i>	91.01±2.77	75.18±3.46	63.97±7.27	76.72hijklm
<i>Tectona grandis</i>	89.23±2.32	59.25±5.31	54.74±2.90	67.74mn
<i>Lagerstroemia indica</i>	87.62±2.21	66.27±3.33	57.44±3.77	70.44jklmn
T g + M m	90.15±4.05	88.50±1.63	65.54±7.29	81.40ghij
A c + S m	112.60±7.28	103.03±2.45	76.80±4.11	97.48de
Agroforestry				
<i>Albizia lebbek</i> based	126.23±3.77	116.48±10.75	85.74±5.74	109.48bc
S m based	100.41±6.13	99.74±0.85	81.53±7.14	93.89ef
<i>Terminalia arjuna</i> based	94.24±2.65	86.62±2.15	71.07±6.72	83.98ghi
<i>Gmelina arborea</i> based	84.36±4.43	80.31±5.50	63.94±6.99	76.20hijklm
<i>Millettia pinnata</i> based	75.50±8.67	66.81±1.98	50.72±5.74	64.34n
L i based	90.29±2.15	71.54±4.50	67.38±3.74	76.40hijklm
A c based	109.09±5.84	83.43±2.10	54.60±7.91	82.37ghi
<i>Mangifera indica</i> based	91.35±2.85	82.53±7.58	79.85±0.88	84.58fghi
Homegarden	87.62±1.92	79.92±3.79	75.75±8.15	81.10ghij
Commercial Crop Plantation				
<i>Hevea brasiliensis</i>	107.91±1.10	81.53±7.14	69.47±5.32	86.30fgh
<i>Cocos nucifera</i>	93.27±5.64	83.82±7.87	71.44±8.32	82.84ghi
<i>Areca catechu</i>	106.40±4.03	82.72±3.68	78.17±9.22	89.10fg
<i>Machilus bombycina</i>	94.21±4.53	91.55±7.16	71.07±6.72	85.61fgh
Tea plantations	123.19±4.64	98.47±7.94	72.67±6.46	98.11de
Fruit Orchard				
<i>Psidium guajava</i>	107.76±3.68	99.40±2.43	84.94±4.94	97.37de
<i>Manilkara zapota</i>	99.57±2.40	78.46±8.01	61.23±9.19	79.75ghijk
<i>Litchi chinensis</i>	103.59±2.61	76.64±4.04	56.20±6.11	78.81hijkl
<i>Anacardium occidentale</i>	94.44±3.55	75.54±2.62	55.41±3.93	75.13ijklm
<i>Citrus lemon</i>	93.24±7.41	64.57±4.90	51.77±4.24	69.86klmn
<i>Mangifera indica</i>	94.59±2.32	61.79±6.05	51.03±5.60	69.14lmn
Mean	100.85a	86.95b	72.42c	

TBLS- Tree-based land-use system; L p- *Lagerstroemia parviflora*; T g- *Tectona grandis*; M m- *Milvus migrans*; A c- *Anthocephalus cadamba*; S m- *Swietenia macrophylla*; L i- *Lagerstroemia indica*

Supplementary Table S9. Effect of tree-based land-use systems on biomass carbon stock and partitioning (Mg ha⁻¹)

TBLS	TC	SC	HC	TPC	AGC	BGC	LC	TBC
Forest								
L p	65.18 *(1.8)c	5.70 (0.8)c	1.61 (0.4)c	72.49 (1.9)c	63.03 (1.81)c	9.45 (1.0)c	7.05 (0.9)a	79.54 (1.9)c
M c	70.35 (1.9)c	5.10 (0.8)c	1.70 (0.4)c	77.15 (1.9)c	67.08 (1.83)c	10.06 (1.0)c	4.68 (0.8)b	81.82 (1.9)c
T g	69.84 (1.9)c	5.27 (0.8)c	2.07 (0.5)b	77.18 (1.9)c	67.11 (1.83)c	10.07 (1.0)c	7.24 (0.9)a	84.42 (1.9)c
S r	128.0 (2.1)b	3.72 (0.7)d	1.40 (0.4)cd	133.1 (2.1)b	115.77 (2.07)b	17.37 (1.3)b	6.21 (0.9)a	139.35 (2.15)b
Mixed	371.6 (2.6)a	8.90 (0.9)b	3.31 (0.6)a	383.8 (2.6)a	333.74 (2.52)a	50.06 (1.7)a	6.80 (0.9)a	390.61 (2.59)a
Forest Tree Plantation								
S m	19.57 (1.3)h	1.03 (0.3)g	0.47 (0.2)gh	21.06 (1.3)h	18.31 (1.29)h	2.75 (0.6)g	1.79 (0.5)d	22.85 (1.38)i
A c	29.14 (1.5)f	0.45 (0.2)jkl	0.58 (0.20)g	30.17 (1.5)g	26.23 (1.43)g	3.94 (0.7)f	1.75 (0.4)a	31.92 (1.52)gh
G a	13.68 (1.2)ij	0.77 (0.25)hi	0.46 (0.2)gh	14.91 (1.2)i	12.96 (1.14)i	1.94 (0.5)h	1.16 (0.3)e	16.07 (1.23)j
S b	13.80 (1.2)ij	0.99 (0.3)gh	0.43 (0.2)gh	15.22 (1.2)i	13.23 (1.15)i	1.99 (0.5)h	0.87 (0.3)f	16.09 (1.23)j
T g	11.32 (1.1)kl	0.95 (0.3)gh	0.45 (0.2)gh	12.72 (1.1)ij	11.06 (1.08)ij	1.66 (0.4)hij	0.48 (0.2)gh	13.21 (1.2)jkl
L i	19.52 (1.3)h	0.78 (0.25)hi	1.18 (0.3)de	21.47 (1.4)h	18.67 (1.29)h	2.80 (0.58)g	2.26 (0.51)c	23.74 (1.39)i
T g+M m	41.11 (1.6)e	0.59 (0.20)ij	0.42 (0.15)h	42.12 (1.6)ef	36.62 (1.57)ef	5.49 (0.81)e	0.87 (0.27)f	42.99 (1.64)ef
A c+ S m	51.95 (1.7)d	2.77 (0.57)e	1.06 (0.31)e	55.78 (1.8)d	48.50 (1.69)d	7.28 (0.92)d	0.15 (0.06)i	55.93 (1.75)d
Agroforestry								
A l b	8.83 (0.9)mn	0.40 (0.15)kl	0.02 (0.01)k	9.25 (1.0)l	8.04 (0.95)l	1.21 (0.34)kl	0.03 (0.01)k	9.28 (1.01)h
S m b	39.72 (1.6)e	0.66 (0.22)i	0.03 (0.01)k	40.41 (1.6)ef	35.13 (1.56)ef	5.27 (0.80)e	1.50 (0.40)d	41.91 (1.63)ef
T a b	12.76 (1.1)ijk	0.25 (0.1)mn	0.06 (0.03)k	13.07 (1.2)ij	11.36 (1.09)ij	1.70 (0.43)hi	0.01 (0.00)k	13.08 (1.15)kl
G a b	14.15 (1.18)i	0.97 (0.3)gh	0.25 (0.10)i	15.38 (1.2)i	13.37 (1.16)i	2.01 (0.48)h	0.01 (0.01)k	15.39 (1.21)jk
M p b	6.77 (0.9)op	0.16 (0.1)no	0.03 (0.01)k	6.97 (0.9)m	6.06 (0.85)m	0.91 (0.3)mn	0.04 (0.02)jk	7.00 (0.90)o
L i b	7.93 (0.9)no	0.32 (0.1)lm	0.44 (0.2)gh	8.69 (0.9)l	7.56 (0.93)l	1.13 (0.3)lm	0.02 (0.01)k	8.71 (0.98)n
A c b	24.61 (1.4)fg	0.67 (0.22)i	0.15 (0.06)j	25.43 (1.4)gh	22.11 (1.4)gh	3.32 (0.63)f	0.52 (0.2)gh	25.95 (1.43)i
M i b	9.68	0.47	0.03	10.18	8.85	1.33	0.04	10.22

	(1.0)mn	(0.17)jk	(0.01)k	(1.05)kl	(0.99)kl	(0.37)kl	(0.02)jk	(1.1)mn
Hg	45.08	1.36	0.76	47.20	41.05	6.16	1.49	48.69
	(1.7)de	(0.37)f	(0.25)f	(1.7)de	(1.6)de	(0.85)e	(0.39)d	(1.7)de
Commercial Plantation Crops								
H b	25.68	0.37	0.37	26.42	22.98	3.45	0.62	27.05
	(1.4)fg	(0.14)ij	(0.14)h	(1.44)g	(1.38)g	(0.65)f	(0.21)g	(1.45)hi
C n	10.36	0.04	0.02	10.42	9.06	1.36	0.02	10.44
	(1.1)klm	(0.02)p	(0.01)k	(1.06)kl	(1.00)kl	(0.4)jkl	(0.01)k	(1.1)mn
A c	8.93	0.03	0.04	8.99	7.82	1.17	0.01	9.00
	(1.0)mn	(0.01)p	(0.02)k	(1.00)l	(0.95)l	(0.34)l	(0.00)k	(1.00)n
M b	8.72	0.37	0.81	9.89	8.60	1.29	0.53	10.42
	(0.9)mn	(0.1)klm	(0.26)f	(1.04)l	(0.98)kl	(0.36)kl	(0.2)gh	(1.1)mn
T P	23.58	14.62	0.21	38.41	32.65	5.76	0.13	38.54
	(1.4)gh	(1.19)a	(0.08)ij	(1.59)f	(1.52)f	(0.82)e	(0.05)ij	(1.6)fg
Fruit Orchard								
P g	3.16	0.14	0.03	3.33	2.90	0.43	0.01	3.34
	(0.6)qr	(0.06)o	(0.01)k	(0.6)no	(0.6)no	(0.16)o	(0.01)k	(0.6)pq
M z	6.27	0.08	0.04	6.39	5.56	0.83	0.06	6.45
	(0.9)p	(0.03)op	(0.02)k	(0.86)m	(0.81)m	(0.26)n	(0.02)jk	(0.87)o
L c	3.91	0.03	0.03	3.98	3.46	0.52	0.05	4.02
	(0.7)q	(0.01)p	(0.01)k	(0.70)n	(0.65)n	(0.18)o	(0.02)jk	(0.70)p
A o	8.93	0.07	0.03	9.03	7.85	1.18	0.44	9.47
	(1.0)mn	(0.03)op	(0.01)k	(1.00)l	(0.95)l	(0.34)l	(0.16)h	(1.02)n
C l	3.08	0.02	0.01	3.10	2.70	0.40	0.04	3.14
	(0.6)r	(0.01)p	(0.00)k	(0.61)o	(0.57)o	(0.15)o	(0.02)jk	(0.62)q
M i	11.31	0.10	0.04	11.44	9.95	1.49	0.40	11.85
	(1.1)jkl	(0.04)op	(0.02)k	(1.09)k	(1.04)k	(0.4)ijk	(0.15)h	(1.1)lm
S_{em}	0.03	0.02	0.02	0.03	0.03	0.02	0.02	0.03
CD_{p=0.05}	0.08	0.05	0.05	0.07	0.07	0.05	0.05	0.07

*figures in parenthesis are log transformed values; TBLS- Tree-based land-use system; *L p- Lagerstroemia parviflora*; *M c- Michelia champaca*; *T g- Tectona grandis*; *S r- Shorea robusta*; *S m- Swietenia macrophylla*; *A c- Anthocephalus cadamba*; *G a- Gmelina arborea*; *S b- Shorea borneensis*; *L i- Lagerstroemia indica*; *M m- Milvus migrans*; *A l b- Albizia lebeck* based; *S m b- Swietenia macrophylla* based; *T a b- Terminalia arjuna* based; *G a b- Gmelina arborea* based; *M p b- Millettia pinnata* based; *L i b- Lagerstroemia indica* based; *A c b- Anthocephalus cadamba* based; *M i b- Mangifera indica* based; Hg- homegarden; *H b- Hevea brasiliensis*; *C n- Cocos nucifera*; *A c- Areca catechu*; *M b- Machilus bombycina*; T P- tea plantation; *P g- Psidium guajava*; *M z- Manilkara zapota*; *L c- Litchi chinensis*; *A o- Anacardium occidentale*; *C l- Citrus lemon*; *M i- Mangifera indica*; TC- tree carbon; SC- shrub carbon, HC- herb carbon; TPC- total plant carbon; AGC- above ground carbon; BGC- below ground carbon; L C- litter carbon; TBC- total biomass carbon

**Supplementary Table S10. Effect of tree-based land-use system on ecosystem carbon
(Mg ha⁻¹)**

TBLS	TPC	L _t C	SOC	E _m C
Forest				
L p	72.49(1.87)*c	7.05(0.90)ab	113.77(2.06)b	193.31(2.29)c
M c	77.15(1.89)c	4.68(0.75)c	108.73(2.04)bc	190.55(2.28)c
T g	77.18(1.89)c	7.24(0.91)a	105.51(2.03)bc	189.93(2.28)c
S r	133.13(2.13)b	6.21(0.86)b	110.82(2.05)bc	250.16(2.40)b
Mixed	383.81(2.58)a	6.80(0.89)ab	126.67(2.11)a	517.27(2.71)a
Forest Tree Plantation				
S m	21.06(1.34)h	1.79(0.45)e	64.58(1.82)e	87.44(1.95)fgh
A c	30.17(1.49)g	1.75(0.44)e	63.64(1.81)ef	95.55(1.98)fgh
G a	14.91(1.20)i	1.16(0.33)f	60.00(1.8)efgh	76.07(1.89)hijk
S b	15.22(1.21)i	0.87(0.27)g	60.03(1.8)efgh	76.12(1.88)ijk
T g	12.72(1.14)ij	0.48(0.17)hi	61.50(1.8)efgh	74.70(1.88)ijk
L i	21.47(1.35)h	2.26(0.51)d	60.48(1.8)efgh	84.21(1.93)fgh
T g + M m	42.12(1.63)fg	0.87(0.27)g	60.00(1.8)efgh	102.99(2.02)efg
A c + S m	55.78(1.75)d	0.15(0.06)j	60.07(1.8)efgh	116.02(2.07)e
Agroforestry				
A l based	9.25(1.01)l	0.03(0.01)j	61.85(1.8)efgh	71.14(1.86)ijk
S m based	40.41(1.62)ef	1.50(0.40)e	62.49(1.8)efgh	104.40(2.02)efg
T a based	13.07(1.15)ij	0.01(0.00)j	60.58(1.8)efgh	73.65(1.87)ijk
G a based	15.38(1.21)i	0.01(0.01)j	61.91(1.8)efgh	77.31(1.89)hijk
M p based	6.97(0.90)m	0.04(0.02)j	61.01(1.8)efgh	68.03(1.8)jklm
L I based	8.69(0.98)l	0.02(0.01)j	62.44(1.82)e	71.14(1.86)ijk
A c based	25.43(1.42)g	0.52(0.18)hi	61.94(1.80)efgh	87.90(1.95)fgh
M i based	10.18(1.05)kl	0.04(0.02)j	60.9(1.79)efgh	71.12(1.86)ijk
Hg	47.20(1.68)d	1.49(0.39)e	90.34(1.96)d	139.02(2.15)d
Commercial Plantation Crops				
H b	26.42(1.44)g	0.62(0.21)h	60.05(1.8)efgh	87.10(1.94)fgh
C n	10.42(1.06)kl	0.02(0.01)j	60.8(1.79)efgh	71.24(1.86)ijk
A c	8.99(1.00)l	0.01(0.00)j	63.59(1.81)efg	72.60(1.87)ijk
M b	9.89(1.04)kl	0.53(0.19)hi	63.24(1.81)efg	73.66(1.87)ijk
T p	38.41(1.59)f	0.13(0.05)j	103.19(2.02)c	141.74(2.15)d
Fruit Orchard				
P g	3.33(0.64)no	0.01(0.01)j	59.40(1.8)efgh	62.74(1.8)jklm
M z	6.39(0.86)m	0.06(0.02)j	60.04(1.8)efgh	66.48(1.83)jklm
L c	3.98(0.70)n	0.05(0.02)j	57.45(1.77)h	61.48(1.80)jklm
A o	9.03(1.00)l	0.44(0.16)hi	58.72(1.78)efgh	68.19(1.84)jklm
C l	3.10(0.61)o	0.04(0.02)j	57.63(1.77)gh	60.77(1.79)jklm
M i	11.44(1.09)jk	0.40(0.15)i	58.31(1.77)efgh	70.16(1.85)ijk
S_{em}	0.03	0.02	0.01	0.02
CD_{p=0.05}	0.07	0.05	0.04	0.06

*figures in parenthesis are log transformed values; TBLS- Tree-based land-use system; L p- *Lagerstroemia parviflora*; M c- *Michelia champaca*; T g- *Tectona grandis*; S r- *Shorea robusta*; S m- *Swietenia macrophylla*; A c- *Anthocephalus cadamba*; G a- *Gmelina arborea*; S b- *Shorea borneensis*; L i- *Lagerstroemia indica*; M m- *Milvus migrans*; A l- *Albizia lebbek*; T a- *Terminalia arjuna*; M p- *Millettia pinnata*; L i- *Lagerstroemia indica*; M i- *Mangifera indica*; Hg- homegarden; H b- *Hevea brasiliensis*; C n- *Cocos nucifera*; A c- *Areca catechu*; M b- *Machilus bombycina*; T p- tea plantations; P g- *Psidium guajava*; M z- *Manilkara zapota*; L c- *Litchi chinensis*; A o- *Anacardium occidentale*; C l- *Citrus lemon*; TPC- total plant carbon; L_t C- litter carbon; SOC- soil organic carbon (up to 60 cm soil depth); EC- ecosystem carbon