

Supplemental material for

“Species Diversity Patterns in Natural Secondary Plant Communities and Man-made Forests in a Subtropical Mountainous Karst Area, Yunnan, SW China,” by Cindy Q. Tang, Yu-hui Li, and Zhi-ying Zhang; published in [Mountain Research and Development](#) (MRD) vol 30 no 3 (August 2010).

Appendix S1: Woody species ($H \geq 1.3$ m tall) composition in the overstory of each plant community. Values represent the relative basal area (RBA) for each species. Dominant species are shown in boldface.

Species	Traits	Plantation	Natural secondary plant communities		
		PP	SL	SF	NF
<i>Pinus yunnanensis</i> Fr.	LD	99.3	9.6		
<i>Albizia mollis</i> (Wall.) Boiv.	LD	0.41		8	1.6
<i>Pistacia weinmannifolia</i> J. Poisson ex Fr.	LD	0.1	1.2	28.1	8.1
<i>Pistacia chinensis</i> Bunge	LD	0.07	1.9	5.7	4.7
<i>Rhamnus leptophylus</i> Schneid	LD	0.04		0.3	0.9
<i>Dichotomanthes tristaniaecarpa</i> Kurz	IN	0.04	0.3	1.4	0.1
<i>Cotoneaster franchetii</i> Bois	LD	0.04		0.2	
<i>Neolitsea homilantha</i> Allen	LD		60.5	4.8	5.4
<i>Diospyros mollifolia</i> Rehd. et Wils.	LD		10.1		0.1
<i>Olea yunnanensis</i> Hand.-Mazz.	ST		4.1	11.7	12.5
<i>Rhamnella martini</i> (Levl) Schneid	LD		3	1.9	0.01
<i>Mallotus philippinensis</i> (Lam.) Muell.-Arg.	LD		2.8		
<i>Dalbergia mimosoides</i> Franch.	LD		1.6	1.4	0.1
<i>Prunus zippeliana</i> Miq.	LD		1.3		1.9
<i>Toxicodendron succedaneum</i> (L.) O. Kuntze	LD		0.9	0.04	0.7
<i>Morus australis</i> Poir.	IN		0.6		0.2
<i>Sageretia theezans</i> L.	LD		0.6		0.09
<i>Celtis bungeana</i> Bl.	LD		0.5		0.09
<i>Nothapodytes tomentosa</i> C. Y. Wu	LD		0.4		0.08
<i>Pyrus pashia</i> Buch.-Ham. ex. D. Don	LD		0.3		0.01
<i>Prunus persica</i> (L.) Bartsch	LD		0.1		
<i>Cyclobalanopsis glaucooides</i> Shottky	ST			30.7	39.8
<i>Toxicodendron griffithii</i> (Hook. F.) Wall. Ex. D. Don	LD			2.8	1.9
<i>Machilus yunnanensis</i> Leecomie	ST			1.1	2.6
<i>Osyris wightiana</i> Wall.	IN			0.4	
<i>Juniperus formosanna</i> Hayata	LD			0.4	
<i>Keteleeria evelyniana</i> Mast.	LD			0.4	
<i>Photinia glomerata</i> Rehd. ex Wils	ST			0.2	0.02
<i>Photinia</i> sp.	ST			0.1	0.1
<i>Rhus chinensis</i> Mill	LD			0.09	0.04
<i>Campylotropis polyyantha</i> (Franch.) A. K. Schind	LD			0.07	
<i>Pentapanax henryi</i> Harms	IN			0.05	0.2
<i>Quercus dentata</i> Th.	LD			0.05	
<i>Celtis tetrandra</i> Roxb.	LD			0.04	1.4
<i>Rosa banksiae</i> R. Br	LD			0.04	
<i>Cornus paucinervis</i> Hance	LD			0.03	

^{a)} PP: *Pinus* plantation; SL: shrubland; SF: secondary forest; NF: natural premature forest; LD: light-demanding; IN: intermediate; ST: shade-tolerant

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<i>Ilex macrocarpa</i> Oliv.	LD				5
<i>Carpinus mobeigiana</i> Hand.-Mazz	LD				4.5
<i>Xylosma racemosum</i> (Sieb et Zucc.) Miq.	LD				1.7
<i>Lindera communis</i> Hemsl	IN				1.5
<i>Jasminum humile</i> L.	IN				1.1
<i>Pittosporum brevicalyx</i> (Oliv.)	ST				0.7
<i>Zhanthoxylum scandens</i> Bl.	LD				0.5
<i>Distyliopsis laurifolia</i> (Hemsl.) Endress	LD				0.4
<i>Quercus variabilis</i> Bl.	LD				0.4
<i>Ficus virens</i> Ait.	IN				0.4
<i>Milletia dielsiana</i> Harms	LD				0.3
<i>Dalbergia collettii</i> Prein	LD				0.2
<i>Milletia reticulata</i> Benth.	LD				0.2
<i>Myrsine semiserrata</i> Wall.	ST				0.1
<i>Schoepfia jasminodora</i> S. et. Z.	LD				0.07
<i>Ficus pandurata</i> Hance	ST				0.07
<i>Lonicera japonica</i> Thunb.	IN				0.06
<i>Lithocarpus confinis</i> Hunag et Chang	ST				0.06
<i>Fortunella sagittifolia</i> Feng et Mao	IN				0.03
<i>Indigofera cinerascens</i> Franch.	IN				0.03
<i>Leptodermis potaninii</i> Batain	IN				0.02
<i>Paederia scandens</i> (Lour.) Merr.	IN				0.02
<i>Elaeagnus lanceolata</i> Walb.	IN				0.01
<i>Debregeasia edulis</i> (Sieb. et Zucc.) Wedd.	LD				0.01
<i>Crataegus scabrifolia</i> (Franch.) Rehd.	LD				0.007
<i>Euonymus fortunei</i> Maxim.	ST				0.007
<i>Ficus chartacea</i> Wall. ex King	ST				0.006
<i>Buddleia officinalis</i> Maxim	IN				0.004

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