

Supplemental material for

“The Role of Montane Forests for Indigenous Dongba Papermaking in the Naxi Highlands of Northwest Yunnan, China,” by Lixin Yang, John Richard Stepp, Selena Ahmed, Shengji Pei, published in *Mountain Research and Development* 31(4), 2011.

TABLE S1. Floristic composition and associated Ecological Importance Value (IV) of plots sampled in pine forests, dwarf forests, grasslands, and with Relative Density (RD) and Relative Frequency (RF).

PINE FOREST PLOT 1 (Household management)

Canopy

Serial no.	Family name	Species name	Density
1-39	Pinaceae	<i>Pinus yunnanensis</i>	39

Shrub layer

Serial no.	Family name	Species name	Density	RD	RF	IV
3201	Berberidaceae	<i>Berberis wilsonae</i>	31	22.0	20	42
06	Ericaceae	<i>Rhododendron delavayi</i>	33	23.4	20	43.4
3227	Coriariaceae	<i>Coriaria nepalensis</i>	32	22.7	20	42.7
6312	Papilionaceae	<i>Desmodium yunnanensis</i>	2	1.4	4	5.4
6314	Rosaceae	<i>Cotoneaster buxifolius</i>	26	18.4	20	38.4
3235	Thymelaceae	<i>Wikstroemia delavayi</i>	17	12.1	16	28.1
Total			141	100	100	200

Grass layer

Serial no.	Family name	Species name	Density	RD	RF	IV
6311	Compositae	<i>Leontopodium sinense</i>	1	0.7	3.3	4.0
3218	Compositae	<i>Pertya phylloides</i>	1	0.7	3.3	4.0
3221	Compositae	<i>Saussurea romuleifolia</i>	2	1.4	3.3	4.7
3216	Grammineae	<i>Erianthus rufipilus</i>	31	21.4	16.7	38.1
3217	Grammineae	<i>Arthraxon psionocles</i>	23	15.9	16.7	32.6
18	Liliaceae	<i>Ophiopogon bodineei</i>	17	11.7	13.3	25
3222	Sarophulariaceae	<i>Phtheirospermum tenuisectum</i>	10	6.9	10	16.9
3227	Umbeliferae	<i>Daucus casota</i>	35	24.1	16.7	40.8
3224	Umbeliferae	<i>Angelica sinensis</i>	25	17.2	16.7	33.9
Total			145	100	100	200

PINE FOREST PLOT 2 (Household management)

Canopy

Serial no.	Family name	Species name	Density
39 - 78	Pinaceae	<i>Pinus yunnanensis</i>	39

Shrub layer

Serial no.	Family name	Species name	Density	RD	RF	IV
3201	Berberidaceae	<i>Berberis wilsonae</i>	45	26.9	20	46.9
3227	Coriariaceae	<i>Coriaria nepalensis</i>	26	15.6	16	31.6
06	Ericaceae	<i>Rhododendron delavayi</i>	27	16.2	20	36.2
6322	Gentianaceae	<i>Gentiana lineolata</i>	16	9.6	8	17.6
6314	Rosaceae	<i>Cotoneaster buxifolius</i>	20	12	16	28.0
3235	Thymelaceae	<i>Wikstroemia delavayi</i>	33	19.8	20	39.8
Total			167	100	100	200

Grass layer

Serial no.	Family name	Species name	Density	RD	RF	IV
3221	Compositae	<i>Saussurea romuleifolia</i>	4	3.3	3.3	6.6
3216	Grammineae	<i>Erianthus rufipilus</i>	24	19.7	16.7	36.4
3217	Grammineae	<i>Arthraxon psionocles</i>	18	14.8	16.7	31.5
22	Labiatae	<i>Origanum vulgare</i>	20	16.4	16.7	33.1
3219	Orchidaceae	<i>Cymbidium goeringii</i>	20	16.4	16.7	33.1
3220	Orchidaceae	<i>Cymbidium ensifolium</i>	1	0.8	3.3	4.1
3215	Papilionaceae	<i>Desmodium yunnanensis</i>	18	14.8	13.3	28.1
3224	Umbeliferae	<i>Angelica sinensis</i>	17	13.9	13.3	27.2
Total			122	100	100	200

DWARF FOREST PLOT 1 (Common property management)**Shrub layer**

Serial no.	Family name	Species name	Density	RD	RF	IV
3209	Anacardiaceae	<i>Pistacia weinmanifolia</i>	3	2.5	5.6	8.1
3201	Berberidaceae	<i>Berberis wilsonae</i>	20	16.5	13.9	30.4
3208	Compositae	<i>Pestya phyllicoides</i>	4	3.3	5.6	8.9
06	Ericaceae	<i>Rhododendion delavayi</i>	3	2.5	5.6	8.1
3210	Fagaceae	<i>Quereus schottkyana</i>	1	0.8	2.8	3.6
3202	Fagaceae	<i>Lithocarpus polystachyus</i>	8	6.6	5.6	12.2
3203	Fagaceae	<i>Quercus senescens</i>	2	1.7	5.6	7.3
3220	Fagaceae	<i>Quercus monimotricha</i>	2	1.7	2.8	4.5
22	Labiatae	<i>Origanum vulgare</i>	2	1.7	5.6	7.3
3212	Opiliaceae	<i>Schoepfia jasminodora</i>	2	1.7	2.8	4.5
3223	Papilionaceae	<i>Campylotropis hirtella</i>	12	9.9	11.1	21
6314	Rosaceace	<i>Cotoneaster buxifolius</i>	14	11.6	11.1	22.7
3211	Rubiaceae	<i>Leptodermis forrestii</i>	9	7.4	8.3	15.7
3235	Thymelaceae	<i>Wikstroemia delavayi</i>	39	32.2	13.	46.1
Total			121	100	100	200

Grass layer

Serial no.	Family name	Species name	Density	RD	RF	IV
18	Liliaceae	<i>Ophiopogon bodineei</i>	2	22.2	16.7	38.9
3217	Grammineae	<i>Arthraxon psionocles</i>	5	55.6	50	105.6
19	Orchidaceae	<i>Cymbidium goeringii</i>	2	22.2	33.3	55.5
Total			9	100	100	200

DWARF FOREST PLOT 2 (Common property management)

Shrub layer

Serial no.	Family name	Species name	Density	RD	RF	IV
3231	Corylaceae	<i>Corylus chinensis</i>	12	5.0	12.1	17.1
06	Ericaceae	<i>Rhododendron delavayi</i>	16	6.7	12.1	18.8
20	Fagaceae	<i>Quercus monimotricha</i>	16	6.7	12.1	18.8
21	Papilionaceae	<i>Desmodium velutinum</i>	2	0.8	3.0	3.8
25	Papilionaceae	<i>Desmodium yunnanensis</i>	20	8.3	15.2	23.5
23	Papilionaceae	<i>Campylotropis hirtella</i>	16	6.7	15.2	21.9
6314	Rosaceae	<i>Cotoneaster buxifolius</i>	9	3.8	6.1	9.9
24	Rubiaceae	<i>Leptodermis potanini</i>	12	5.0	9.1	14.1
3235	Thymelaeaceae	<i>Wikstroemia delavayi</i>	137	57.1	15.2	72.3
Total			240	100	100	200

Grass layer

Serial no.	Family name	Species name	Density	RD	RF	IV
29	Boraginaceae	<i>Onosma paniculatum</i>	24	9.0	9.4	18.4
6311	Compositae	<i>Leontopodium sinense</i>	38	14.3	9.4	23.7
31	Compositae	<i>Ainslaea yunnanensis</i>	11	4.1	7.5	11.6
30	Compositae	<i>Crepis rigecens</i>	25	9.4	9.4	18.8
3216	Grammineae	<i>Erianthus rufipilus</i>	34	12.8	9.4	22.2
3217	Grammineae	<i>Arthraxon psionocles</i>	25	9.4	9.4	18.8
13	Liliaceae	<i>Polygonatum cirrhifolium</i>	13	4.9	5.7	10.6
26	Orchidaceae	<i>Cypripedium plectrochilon</i>	17	6.4	9.4	15.8
22	Gentianaceae	<i>Gentiana lineolata</i>	20	7.5	7.5	15
3222	Sarophulariaceae	<i>Phtheirospermum tenuisectum</i>	26	9.8	9.4	19.2
27	Umbeliferae	<i>Daucus carota</i>	17	6.3	5.7	12
28	Umbeliferae	<i>Bupleurum rockii</i>	16	6.0	7.5	13.5
Total			266	100	100	200

GRASSLAND PLOT 1 (Common property management)**Shrub layer**

Serial no.	Family name	Species name	Density	RD	RF	IV
3201	Berberidaceae	<i>Berberis wilsonae</i>	35	22.7	15.6	38.3
06	Ericaceae	<i>Rhododendron delavayi</i>	41	26.6	15.6	42.1
3220	Fagaceae	<i>Quercus monimotricha</i>	15	9.7	12.5	22.2
6322	Gentianaceae	<i>Gentiana lineolata</i>	11	7.1	12.5	19.6
33	Papilionaceae	<i>Campylotropid polyantha</i>	15	9.7	15.6	25.3
6314	Rosaceae	<i>Cotoneaster buxifolius</i>	19	12.3	12.5	24.8
3235	Thymelaceae	<i>Wikstroemia delavayi</i>	18	11.7	12.5	27.3
Total			154	100	100	200

Grass layer

Serial no.	Family name	Species name	Density	RD	RF	IV
3221	Compositae	<i>Saussurea romuleifolia</i>	1	1.0	4.2	5.2
3216	Grammineae	<i>Erianthus rufipilus</i>	18	18.4	16.7	35.1
3219	Orchidaceae	<i>Cymbidium goeringii</i>	17	17.3	20.8	38.1
3215	Papilionaceae	<i>Desmodium yunnanensis</i>	13	13.3	16.7	30
3233	Saprophulariaceae	<i>Sacrophularia lineasis</i>	19	19.4	20.8	40.2
3223	Umbeliferae	<i>Daucus casota</i>	30	30.6	20.8	51.4
Total			98	100	100	200

GRASSLAND PLOT 2 (Common property management)

Shrub layer

Serial no.	Family name	Species name	Density	RD	RF	IV
3232	Anacardiaceae	<i>Cotinus coggygia</i>	5	4.1	8.7	12.8
3201	Berberidaceae	<i>Berberis wilsonae</i>	38	31.4	21.7	53.1
3231	Corylaceae	<i>Corylus chinensis</i>	10	8.3	17.4	25.7
06	Ericaceae	<i>Rhododendron delavayi</i>	26	21.5	17.4	38.9
6314	Rosaceae	<i>Cotoneaster buxifolius</i>	16	13.2	13	26.2
3235	Thymelaceae	<i>Wikstroemia delavayi</i>	26	21.5	21.7	43.2
Total			121	100	100	200

Grass layer

Serial no.	Family name	Species name	Density	RD	RF	IV
6311	Compositae	<i>Leontopodium sinense</i>	2	1.9	3.8	5.7
3216	Grammineae	<i>Erianthus rufipilus</i>	22	21.2	15.4	36.6
3217	Grammineae	<i>Arthraxon psionocles</i>	18	17.3	19.2	36.5
3220	Orchidaceae	<i>Cymbidium ensifolium</i>	3	2.9	3.8	6.7
3215	Papillionaceae	<i>Desmodium yunnanensis</i>	16	15.4	15.4	30.8
3222	Sarophulariaceae	<i>Phtheirospermum tenuisectum</i>	6	5.8	7.7	13.5
3223	Umbeliferae	<i>Daucus casota</i>	16	15.4	15.4	30.8
3224	Umbeliferae	<i>Angelica sinensis</i>	21	20.2	19.2	39.4
Total			104	100	100	200