

附录 1 贵州分布国家重点保护野生种子植物的物种多样性及迁地保护试验 (●表示中国特有分布)
Appendix 1 Species diversity and *ex-situ* conservation experiment of wild spermatophyta under national key protection distributed in Guizhou (● represents endemic plant in China)

科 Family	植物种类 Plant species	濒危评估及就地保护 Endangered species assessment and <i>in-situ</i> conservation	贵州省植物园迁地保护 <i>Ex-situ</i> conservation plant number in Guizhou Botanical Garden	引种源地 Source region	栽培成活率 Cultivation survival rate(%)
银杏科 Ginkgoaceae	1. 银杏 ● <i>Ginkgo biloba</i>	极危植物; CRC 2a(ii), D。建立了野生银杏植物种群就地保护区 Critically endangered plant. The native reserves are established	有效种群保育 500 株 Established IEP (inbreeding effective population), and 500 plants were conserved	盘州市石桥镇, 贵阳市白宜乡 Shiqiao Town of Panzhou City, Baiyi Town of Guiyang City	97.50
松科 Pinaceae	2. 梵净山冷杉 ● <i>Abies fanjingshanensis</i>	濒危植物; EN B1ab(v), C2a(ii)。建立了国家级自然保护区 Endangered plant. The national nature reserve is established.	有效种群保育 100 株 Established IEP, and 100 plants were conserved	梵净山北坡烂茶顶 Lanchading of Fanjingshan	95.00
	3. 银杉 ● <i>Cathaya argyrophylla</i>	易危植物; VU D。建立了国家级自然保护区 Vulnerable plant. The national nature reserve is established	引种栽培保育 10 株 Introduced and conserved 10 plants	道真大沙河, 桐梓柏芷山 Daozhen Dashahe, Baizhi Mountain of Tongzi	90.00
	4. 柔毛油杉 ● <i>Keteleeria pubescans</i>	易危植物; VU D2。建立了国家级自然保护区 Vulnerable plan. The national nature reserve is established	有效种群保育 20 株 Established IEP, and 20 plants were conserved	梵净山, 雷公山 Fanjingshan, Leigongshan	95.00
	5. 黄枝油杉 ● <i>K.calcareae</i>	濒危植物; EN A2cd。建立了天然林保护工程林区 Endangered plant. Natural forest protection project is established	有效种群保育 20 株 Established IEP, and 20 plants were conserved	荔波、独山、平塘 Libo, Dushan, Pingtang	95.00
	6. 短叶黄杉 ● <i>Pseudotsuga brevifolia</i>	易危植物; VU B2ab(iii,v), C2a(i)。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	有效种群保育 20 株 Established IEP, and 20 plants were conserved	荔波、安龙 Libo, Anlong	90.00
	7. 南方铁杉 ● <i>Tsuga chinensis</i> var. <i>tchekiangensis</i>	易危植物; VU A2acd。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	有效种群保育 20 株 Established IEP, and 20 plants were conserved	花溪高坡、雷公山 Gaopo Town of Huaxi District, Leigongshan	95.00
	8. 红豆杉 <i>Taxus chinensis</i>	濒危植物; EN A1cd。贵州广泛分布。建立了天然林保护工程和自然保护区 Endangered plant. Widely distributed in Guizhou. Natural forest protection project and the native reserves are established	有效种群保育 500 株 Established IEP, and 500 plants were conserved	雷公山、梵净山 Leigongshan, Fanjingshan	97.50
红豆杉科 Taxaceae	9. 南方红豆杉 <i>T. chinensis</i> var. <i>mairei</i>	极危植物; VU A2d。贵州广泛分布。建立了天然林保护工程和自然保护区 Vulnerable plant. Widely distributed in Guizhou Natural forest protection project and the native reserves are established	有效种群保育 500 株 Established IEP, and 500 plants were conserved	雷公山、梵净山 Leigongshan, Fanjingshan	99.00
	10. 巴山榧树 ● <i>Torreya fargesii</i>	易危植物; VU A2cd。建立了天然林保护工程和植物就地保护区 Vulnerable plant. Natural forest protection project and the native reserves are established	有效种群保育 200 株 Established IEP, and 200 plants were conserved	桐梓县狮溪镇柏芷山 Baizhishan of Shixi Town, Tongzhi County	95.00
	11. 秃杉 <i>Taiwania cryptomerioides</i>	易危植物; VU D2。建立了国家级自然保护区 Vulnerable plant. The national nature reserves are established	有效种群保育 100 株 Established IEP, and 100 plants were conserved	雷公山自然保护区 The National Nature Reserve of Leigongshan	95.00
杉科 Taxodiaceae					

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科 Family	植物种类 Plant species	濒危评估及就地保护 Endangered species assessment and <i>in-situ</i> conservation	贵州省植物园迁地保护 <i>Ex-situ</i> conservation plant number in Guizhou Botanical Garden	引种源地 Source region	栽培成活率 Cultivation survival rate(%)
伯乐树科 Bretschneideraceae	12. 伯乐树 <i>Bretschneidera sinensis</i>	近危植物;NT D2。建立了国家级自然保护区 Near threatened plant. The national nature reserves are established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	雷公山自然保护区 The National Nature Reserve of Leigongshan	96.00
樟科 Lauraceae	13. 香樟 <i>Cinnamomum camphora</i>	近危植物;NT D2。建立了天然林保护工程林区 Near threatened plant. Natural forest protection project is established	有效种群保育 200 株 Established IEP, and 200 plants were conserved	赤水、从江、黎平 Chishui, Congjiang, Liping	99.50
豆科 Leguminosae	14. 格木 ● <i>Erythrophloeum Fordioli</i>	易危植物;VU A2c; D1。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	有效种群保育 20 株 Established IEP, and 20 plants were conserved	黎平、从江、罗甸 Liping, Congjiang, Luodian	95.00
	15. 红豆树 ● <i>Ormosia hosiei</i>	濒危植物;EN A2c。建立了天然林保护工程林区 Endangered plant. Natural forest protection project is established	有效种群保育 20 株 Established IEP, and 20 plants were conserved	息烽、开阳 Xifeng, Kaiyang	95.00
	16. 任豆 <i>Zenia insignis</i>	易危植物;VU D1+2。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	有效种群保育 20 株 Established IEP, and 20 plants were conserved	荔波、册亨、兴义 Libo, Ceheng, Xingyi	90.00
木兰科 Magnoliaceae	17. 单性木兰 ● <i>Kneria septentrionalis</i>	极危植物;CR B1ab (i,iii, v), D。建立了国家级自然保护区 Critically endangered plant. The national nature reserve is established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	荔波茂兰 Maolan Town of Libo County	95.00
	18. 鹅掌楸 <i>Liriodendron chinense</i>	近危植物;NT D2。建立了国家级自然保护区 Near threatened plant. The national nature reserve is established	有效种群保育 30 株 Established IEP, and 30 plants were conserved.	梵净山 Fanjingshan	96.66
	19. 厚朴 <i>Magnolia officinalis</i>	易危植物;VU A2c。建立了国家级自然保护区 Vulnerable plant. The national nature reserve is established	有效种群保育 100 株 Established IEP, and 100 plants were conserved	梵净山 Fanjingshan	97.00
	20. 凹叶厚朴 <i>M. officinalis</i> subsp. <i>biloba</i>	易危植物;VU A2c。建立国家级自然保护区 Vulnerable plant. The national nature reserve is established	引种栽培保育 10 株 Introduced and conserved 10 plants	梵净山 Fanjingshan	96.00
	21. 香木莲 <i>Manglietia aromatica</i>	易危植物;VU D1。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	引种栽培保育 20 株 Introduced and conserved 20 plants	黎平、荔波 Liping, Libo	95.00
	22. 云南拟单性木兰 <i>Parakmeria yunnanensis</i>	易危植物;VU D1。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	榕江、水城 Rongjiang, Shuicheng	94.00
水青树科 Tetracentraceae	23. 水青树 <i>Tetracentron sinense</i>	易危植物;VU D1。建立了国家级自然保护区 Vulnerable plant. The national nature reserves are established	有效种群保育 20 株 Established IEP, and 20 plants were conserved	梵净山、道真大沙河 Fanjingshan, Daozhen Dashahe	90.00
楝科 Meliaceae	24. 红椿 <i>Toona ciliata</i>	易危植物, VU B1ab (i, iii)。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project and the native reserves are established	有效种群保育 100 株 Established IEP, and 100 plants were conserved	安龙、册亨 Anlong, Ceheng	99.00

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科 Family	植物种类 Plant species	濒危评估及就地保护 Endangered species assessment and <i>in-situ</i> conservation	贵州省植物园迁地保护 <i>Ex-situ</i> conservation plant number in Guizhou Botanical Garden	引种源地 Source region	栽培成活率 Cultivation survival rate(%)
蓝果树科 Nyssaceae	25. 毛红椿 <i>Foona ciliate</i> var. <i>pucescens</i>	易危植物, VU B1ab (i, iii)。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	有效种群保育 100 株 Established IEP, and 100 plants were conserved	安龙、册亨 Anlong, Ceheng	98.00
	26. 喜树(旱莲木) <i>Camptotheca acuminata</i>	近危植物; NT D2。建立了天然林保护工程林区 Near threatened plant. Natural forest protection project is established	有效种群保育 100 株 Established IEP, and 100 plants were conserved	兴义、六枝 Xingyi, Liuzhi	99.00
	27. 珙桐 ● <i>Davidia involucrate</i>	濒危植物; EN A2c。建立了国家级自然保护区 Endangered plant. The national nature reserves are established	有效种群保育 500 株 Established IEP, and 500 plants were conserved	印江(梵净山) Yinjiang(Fanjingshan)	98.50
马尾树科 Rhoipteleaceae	28. 马尾树 <i>Rhoiptelea chiliantha</i>	第三纪孑遗植物, 近危植物, NT。生长于国家级自然保护区 Near threatened plant. The national nature reserves are established	引种栽培保育 20 株 Established IEP, and 20 plants were conserved.	雷公山 Leigongshan	95.00
芸香科 Rutaceae	29. 川黄檗(黄皮树) ● <i>Phellodendron chinense</i>	无危植物; LC。建立了天然林保护工程林区 Endangered plant. Natural forest protection project is established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	湄潭、凤冈 Meitan, Fengang	96.00
无患子科 Sapindaceae	30. 掌叶木 ● <i>Handeliodendron Bodinieri</i>	濒危植物; EN D。建立了天然林保护工程林区 Endangered plant. Natural forest protection project is established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	荔波茂兰 Maolan Town of Libo County	96.00
	31. 伞花木 ● <i>Eurycorymbus cavaleriei</i>	无危植物; LC。生长于自然保护区 Least concern plant. The national nature reserves are established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	荔波茂兰 Maolan Town of Libo County	95.00
安息香科 Styraceae	32. 秤锤树 ● <i>Sinojackia xylocarpa</i>	濒危植物; EN A2c。建立了国家级自然保护区 Endangered plant. The national nature reserves are established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	荔波茂兰 Maolan Town of Libo County	96.00
榆科 Ulmaceae	33. 大叶榉树 ● <i>Zelkova schneideriana</i>	近危植物; NT。建立了国家级自然保护区 Near threatened plant. The national nature reserves are established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	雷公山、梵净山 Leigongshan, Fanjingshan	95.00
合计: 33 种(含变种) Total: 33 species (including variants)		从不同地理种源地引种保育3 650株 3 650 plants from different source regions		平均值 Mean(%)	95.47

附录 2 贵州及毗邻川、滇、桂极少地区特有分布种子植物的迁地保护试验(⊙表示贵州特有分布)

Appendix 2 *Ex-situ* conservation experiment of endemic spermatophyta distributed in only a few areas of Guizhou, Sichuan, Yunnan and Guangxi and their *ex-situ* conservation experiments (⊙ represents endemic plant in Guizhou)

科 Family	植物种类 Plant species	濒危评估及就地保护 Endangered species assessment and <i>in-situ</i> conservation	贵州省植物园迁地保护 <i>Ex-situ</i> conservation plant number in Guizhou Botanical Garden	引种源地 Source region	栽培成活率 Cultivation survival rate(%)
苏铁科 Cycadaceae	1. 贵州苏铁 <i>Cycas guizhouensis</i>	极危植物;CR A2c。建立了天然林保护工程林区 Critically endangered plant. Natural forest protection project is established	有效种群保育 500 株 Established IEP (inbreeding effective population), and 500 plants were conserved	兴义、望漠 Xingyi, Wangmo	96.00
松科 Pinaceae	2. 青岩油杉 ⊙ <i>Keteleeria davidiana</i> var. <i>chien-peii</i>	易危植物;VU A2c。建立了天然林保护工程区 Vulnerable plant. Natural forest protection project is established	有效种群保育 200 株 Established IEP, and 200 plants were conserved	贵阳市青岩镇 Qingyan Town of Guiyang City	95.00
三尖杉科 Cephalotaxaceae	3. 粗榧 <i>Cephalotaxus sinensis</i>	易危植物;VU B1ab (iii)。建立了国家级自然保护区 Vulnerable plant. The national nature reserves are established	引种栽培保育 20 株 Introduced and conserved 20 plants	梵净山、道真大沙河 Fanjingshan, Daozhen Dashahe	90.00
	4. 宽叶粗榧 <i>C. sinensis</i>	极危植物;CR B2b(i,ii,iii,v)。建立了国家级自然保护区 Critically endangered plant. The national nature reserves are established	引种栽培保育 30 株 Introduced and conserved 30 plants	雷公山、施秉云台山 Leigongshan, Yuntaishan of Shibing County	93.33
	5. 篦子三尖杉 <i>C. oliveri</i>	易危植物;VU A2cd。建立了国家级自然保护区 Vulnerable plant. The national nature reserves are established	引种栽培保育 20 株 Introduced and conserved 20 plants	雷公山、施秉云台山 Leigongshan, Yuntaishan of Shibing County	95.00
木兰科 Magnoliaceae	6. 阔瓣含笑 <i>Michelia platypetala</i>	近危植物;NT。建立了国家级自然保护区 Near threatened plant. The national nature reserves are established	有效种群保育 200 株 Established IEP, and 200 plants were conserved	梵净山、雷公山 Fanjingshan, Leigongshan	97.50
	7. 乐东拟单性木兰 <i>Parakmeria lotungensis</i>	易危植物;VU A2c。建立了国家级自然保护区 Vulnerable plant. The national nature reserves are established	有效种群保育 200 株 Established IEP, and 200 plants were conserved	雷公山 Leigongshan	95.00
	8. 狭叶含笑 ⊙ <i>Michelia angustiolonga</i>	极危植物;CR B1ab(ii,v) +2ab (ii,v)。建立了国家级自然保护区 Critically endangered plant. The national nature reserves are established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	荔波茂兰 Maolan Town of Libo County	90.00
	9. 深山含笑 <i>M. maudiae</i>	易危植物;VU A2c。建立了国家级自然保护区 Vulnerable plant. The national nature reserves are established	有效种群保育 200 株 Established IEP, and 200 plants were conserved	荔波茂兰 Maolan Town of Libo County	95.00
	10. 峨眉含笑 <i>M. wilsonii</i>	易危植物;VU A2c; B1ab (iii) 建立了国家级自然保护区 Vulnerable plant. The national nature reserves are established	有效种群保育 1000 株 Established IEP, and 1000 plants were conserved	梵净山、榕江月亮山 Fanjingshan, Yueliangshan of Rongjiang County	98.00
	11. 平伐含笑 ⊙ <i>M. cavaleriei</i> var. <i>cavaleriei</i>	濒危植物;ENA2c。建立了天然林保护工程林区 Endangered plant. Natural forest protection project is established	引种栽培保育 20 株 Introduced and conserved 20 plants	贵定云雾山 Yunwushan of Guiding County	95.00
樟科 Lauraceae	12. 石山桂 ⊙ <i>Cinnamomum calcareum</i>	易危植物;VU A2+3cd。建立了国家级自然保护区 Vulnerable plant. The national nature reserves are established	引种栽培保育 20 株 Introduced and conserved 20 plants	荔波水尧山 Shuiyaoshan of Libo County	95.00

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科 Family	植物种类 Plant species	濒危评估及就地保护 Endangered species assessment and <i>in-situ</i> conservation	贵州省植物园迁地保护 <i>Ex-situ</i> conservation plant number in Guizhou Botanical Garden	引种源地 Source region	栽培成活率 Cultivation survival rate(%)
	13. 黔南润楠 <i>Machilus austroguizhouensis</i>	易危植物;VU A2+3cd。建立了国家级自然保护区 Vulnerable plant. The national nature reserves are established	有效种群保育 100 株 Established IEP, and 100 plants were conserved	荔波茂兰 Maolan Town of Libo County	97.00
	14. 黔桂润楠 <i>M. chienkueiensis</i>	易危植物;VU A2+3cd。建立了国家级自然保护区 Vulnerable plant. The national nature reserves are established	有效种群保育 150 株 Established IEP, and 150 plants were conserved	荔波茂兰 Maolan Town of Libo County	96.66
	15. 安龙油果樟 ⊙ <i>Syndiclis anlongensis</i>	极危植物;CR D。建立了天然林保护工程林区 Critically endangered plant. Natural forest protection project is established	引种栽培保育 50 株 Established IEP, and 50 plants were conserved	安龙县笃山乡王院村 Dushan Town of Anlong County	95.00
藤黄科 Guttiferae	16. 贵州金丝桃 <i>Hyperinum kouytchense</i>	无危植物;LC。建立了天然林保护工程林区 Least Concern plant. Natural forest protection project is established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	贵阳市花溪区高坡乡 Gaopo Town of Guiyang City	96.00
千屈菜科 Lythraceae	17. 贵州紫薇 ⊙ <i>Lagertromia kweichouensis</i>	濒危植物;EN B1ab (i, iii)。建立了国家级自然保护区 Endangered plant. The national nature reserves are established	有效种群保育 100 株 Established IEP, and 100 plants were conserved	梵净山 Fanjingshan	98.00
	18. 川黔紫薇 <i>L. excelsa</i>	易危植物;VU B1ab (i, iii)。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	有效种群保育 100 株 Established IEP, and 100 plants were conserved	梵净山、平坝 Fanjingshan, Pingba	98.00
槭树科 Aceraceae	19. 贵州槭 ⊙ <i>Acer guizhouensis</i>	濒危植物;EN A2c; B1ab (i, iii)。建立了天然林保护工程林区 Endangered plant. Natural forest protection project is established	有效种群保育植株 150 株 Established IEP, and 150 plants were conserved	黄平县雷坪村 Leiping Village of Huangping County	95.83
	20. 雷公山槭 ⊙ <i>A. legongshanensis</i>	易危植物;VU A2c; B1ab (i, iii)。建立了国家级自然保护区 Vulnerable plant. The national nature reserves are established	引种栽培保育植株 20 株 Introduced and conserved 20 plants	雷公山雷公坪 Leigongping of Leigongshan	95.00
	21. 灰叶槭 ⊙ <i>A. poliophyllum</i>	易危植物;VU A2c; B1ab (i, iii)。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	引种栽培保育植株 20 株 Introduced and conserved 20 plants	安龙雨章和兴义坡冈 Yuzhang Village of Anlong County, Pogang Village of Xingyi County	95.00
	22. 平坝槭 ⊙ <i>A. shihweii</i>	极危植物;CR A2c; B1ab (i, iii)。建立了天然林保护工程林区 Critically endangered plant. Natural forest protection project is established	引种栽培保育 20 株 Introduced and conserved 20 plants	平坝县高峰山 Gaofengshan of Pingba County	96.00
	23. 红脉槭 ⊙ <i>A. rubronervium</i>	极危植物;CR A2c; B1ab (i, iii)。建立了天然林保护工程林区 Critically endangered plant. Natural forest protection project is established	引种栽培保育 20 株 Introduced and conserved 20 plants	施秉县牛场镇新地村 Xindi Village of Niudachang Town of Shibing County	90.00
山茶科 Theaceae	24. 小黄花茶 ⊙ <i>Camellia luteoflora</i>	易危植物;VU D2。建立了自然保护区 Vulnerable plant. The native reserves are established	有效种群保育 1 000 株 Established IEP, and 1 000 plants were conserved	赤水胡市镇 Hushi Town of Chishui City	96.50

续附录 2

科 Family	植物种类 Plant species	濒危评估及就地保护 Endangered species assessment and <i>in-situ</i> conservation	贵州省植物园迁地保护 <i>Ex-situ</i> conservation plant number in Guizhou Botanical Garden	引种源地 Source region	栽培成活率 Cultivation survival rate(%)
	25. 贵州金花茶 <i>C. huana</i>	濒危植物; EN A2c; B1b (i, iii)。建立了天然林保护工程林区 Endangered plant. Natural forest protection project is established	引种栽培保育 10 株 Introduced and conserved 10 plants	册亨、兴义 Ceheng, Xingyi	90.00
	26. 离蕊金花茶 ⊙ <i>C. liberofilamenta</i>	极危植物; CR B1ab (i, iii)。建立了天然林保护工程林区 Critically endangered plant. Natural forest protection project is established	引种栽培保育 10 株 Introduced and conserved 10 plants	册亨县百口乡路雄村 Luxiong Village of Baikou Town of Ceheng County	90.00
	27. 尖齿离蕊茶 ⊙ <i>C. acutiserrata</i>	极危植物; CR B1ab (i, iii)。建立了天然林保护工程林区 Critically endangered plant. Natural forest protection project is established	引种栽培保育 30 株 Introduced and conserved 30 plants	册亨县陆家洞 Lujiadong Village of Ceheng County	95.00
	28. 荔波莲蕊茶 <i>C. lipoensis</i>	濒危植物; EN A2c; B1b (i, iii)。建立了国家级自然保护区 Endangered plant. The national nature reserves are established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	荔波茂兰 Maolan Town of Libo County	90.00
	29. 美丽红山茶 ⊙ <i>C. delicata</i>	濒危植物; EN D。建立了国家级自然保护区 Endangered plant. The national nature reserves are established	有效种群保育 200 多株 Established IEP, and 200 plants were conserved	赤水、习水 Chishui, Xishui	95.00
	30. 冬青叶山茶 ⊙ <i>C. ilicifolia</i>	濒危植物; EN D。建立了国家级自然保护区 Endangered plant. The national nature reserves are established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	赤水金沙沟 Jinshagou of Chishui City	90.00
	31. 芳香短柱茶 ⊙ <i>C. odorata</i>	极危植物; CR B1ab (i, iii)。建立了国家级自然保护区 Critically endangered plant. The national nature reserves are established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	赤水金沙沟 Jinshagou of Chishui City	90.00
	32. 威宁短柱茶 ⊙ <i>C. weiningensis</i>	濒危植物; EN D。建立了天然林保护工程林区 Endangered plant. Natural forest protection project is established	有效种群保育 60 株 Established IEP, and 60 plants were conserved	威宁县迤那镇新田村 Xintian Village of Yi ' na Town of Weining County	95.00
	33. 四球茶 ⊙ <i>C. tetracocca</i>	濒危植物; EN D。建立了天然林保护工程林区 Endangered plant. Natural forest protection project is established	有效种群保育 60 株 Established IEP, and 60 plants were conserved	普安普白林场 Pubai forest farm of Pu ' an County	96.00
	34. 皱叶瘤果茶 ⊙ <i>C. rhytidophylla</i>	极危植物; CR B1ab (i, iii)。建立了天然林保护工程林区 Critically endangered plant. Natural forest protection project is established	有效种群植株 50 株 Established IEP, and 50 plants were conserved	开阳县花梨乡 Hualì Town of Kaiyang County	96.00
	35. 狭叶瘤果茶 ⊙ <i>C. neriifolia</i>	极危植物; CR B1ab (i, iii)。建立了国家级自然保护区 Critically endangered plant. The national nature reserves are established	有效种群植株 50 株 Established IEP, and 50 plants were conserved	赤水金沙沟 Jinshagou of Chishui City	95.00
	36. 长柱红山茶 ⊙ <i>C. longistyla</i>	濒危植物; EN D。建立了国家级自然保护区 Endangered plant. The national nature reserves are established	有效种群保育植株 200 株 Established IEP, and 200 plants were conserved	赤水市金合村; 雷山县大塘村 Jinhe Village of Chishui City; Datang Village of Leishan County	95.00

续附录 2

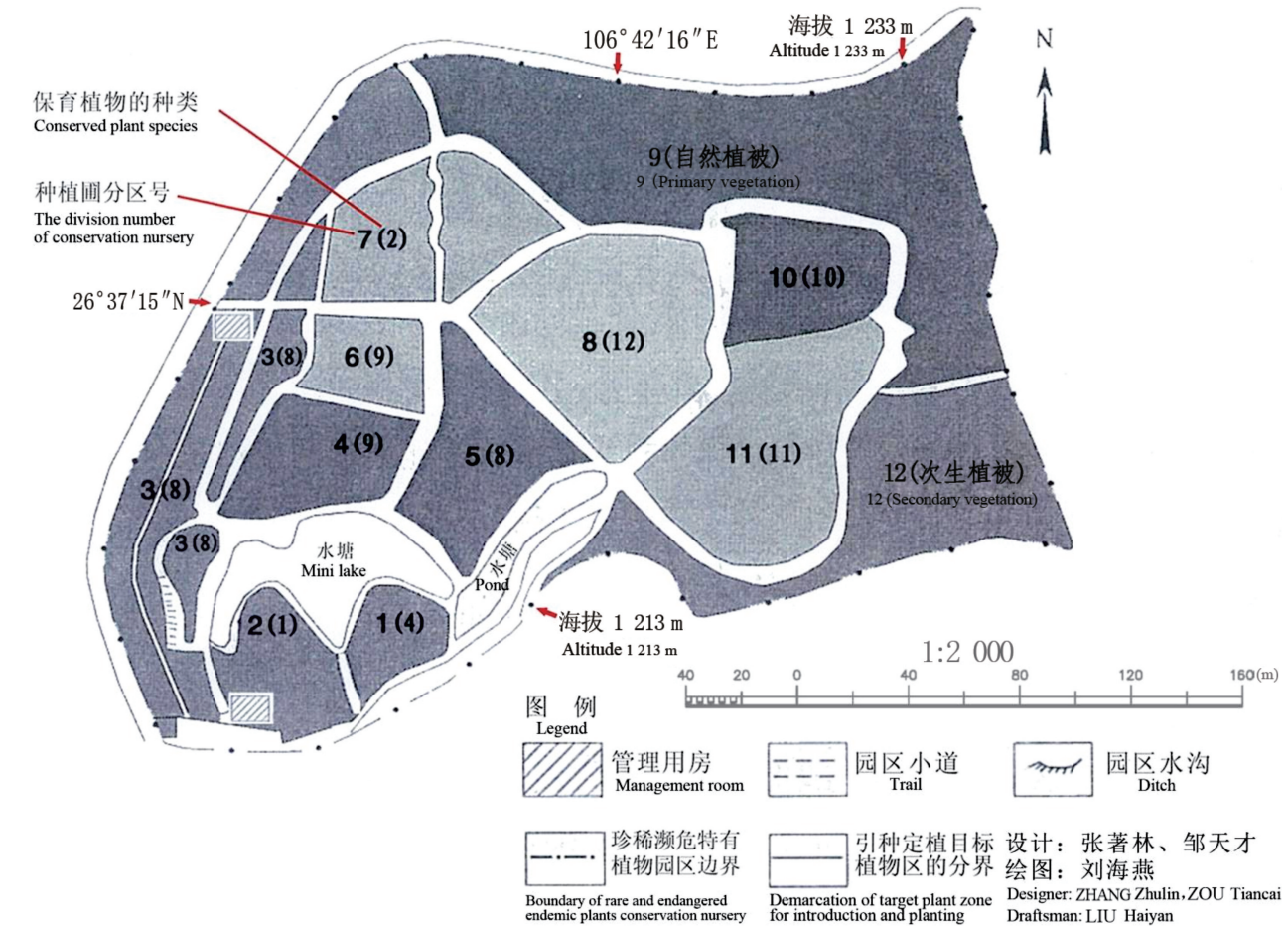
科 Family	植物种类 Plant species	濒危评估及就地保护 Endangered species assessment and <i>in-situ</i> conservation	贵州省植物园迁地保护 <i>Ex-situ</i> conservation plant number in Guizhou Botanical Garden	引种源地 Source region	栽培成活率 Cultivation survival rate(%)
	37. 黎平瘤果茶 ⊙ <i>C. lipingensis</i>	濒危植物;EN D。建立了国家级自然保护区 Endangered plant. The national nature reserves are established	引种栽培保育 10 株 Introduced and conserved 10 plants	赤水金沙沟 Jinshagou of Chishui City	90.00
	38. 红花瘤果茶 ⊙ <i>C. rubituberculata</i>	濒危植物;EN D。建立了天然林自然保护区 Endangered plant. Natural forest protection project is established	引种栽培保育植株 10 株 Introduced and conserved 10 plants	兴仁县田湾乡 Tianwan Town of Xingren City	90.00
	39. 三江瘤果茶 <i>C. pyxidiacea</i> var. <i>pyxidiacea</i>	濒危植物;EN D。建立了天然林保护区工程林区 Endangered plant. Natural forest protection project is established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	兴义市乌沙镇 Wusha Town of Xingyi City	96.00
	40. 安龙瘤果茶 <i>C. anlungensis</i>	濒危植物;EN D。建立了天然林保护区工程林区 Endangered plant. Natural forest protection project is established	引种栽培保育植株 10 株 Introduced and conserved 10 plants	安龙、册亨、望谟等地 Anlong, Ceheng, Wangmo, etc.	90.00
	41. 曾氏瘤果茶 <i>C. zengii</i>	濒危植物;EN D。建立了天然林保护区工程林区 Endangered plant. Natural forest protection project is established	引种栽培保育植株 30 株 Introduced and conserved 30 plants	黎平五龙山、赤水金沙沟 Wulongshan of Liping County, Jinshagou of Chishui City	93.33
	42. 贵州红山茶 ⊙ <i>C. kweichowensis</i>	濒危植物;EN D。建立了天然林保护区工程林区 Endangered plant. Natural forest protection project is established	有效种群保育 400 株 Established IEP, and 400 plants were conserved	清镇市九龙山 Jiulongshan of Qingzhen City	97.50
	43. 红药红山茶 ⊙ <i>C. rubo-anthera</i>	极危植物;CR B1ab (i, iii)。建立了天然林保护区工程林区 Critically endangered plant, Natural forest protection project is established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	晴隆县箐口村 Jingkou Village of Qinglong County	94.00
	44. 寡瓣红山茶 ⊙ <i>C. paucipetala</i>	极危植物;CR B1ab (i, iii)。建立了天然林保护区工程林区 Critically endangered plant. Natural forest protection project is established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	盘州坪地 Pingdi Village of Panzhou City	95.00
	45. 榕江茶 <i>C. costata</i>	濒危植物;EN D。建立了国家级自然保护区 Endangered plant. The national nature reserves are established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	榕江月亮山 Yueliangshan of Rongjiang County	96.00
	46. 丹寨秃茶 ⊙ <i>C. danzaiensis</i>	濒危植物;EN D。建立了天然林保护区工程林区 Endangered plant. Natural forest protection project is established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	丹寨县龙泉村 Longquan Village of Danzhai County	95.00
	47. 贵州石笔木 ⊙ <i>Tutcheria kweichowensis</i>	濒危植物;EN D。建立了国家级自然保护区 Endangered plant. The national nature reserves are established	有效种群保育植株 500 株 Established IEP, and 500 plants were conserved	赤水金沙沟 Jinsagou Village of Chishui City	98.00
	48. 斑枝石笔木 ⊙ <i>T. maculatoclada</i>	濒危植物;EN D。建立了天然林保护区工程林区 Endangered plant. Natural forest protection project is established	有效种群保育植株 150 株 Established IEP, and 150 plants were conserved	三都侗人山 Yaorensan of Sandu County	93.33
蔷薇科 Rosaceae	49. 亮叶月季 <i>Rosa lucidissima</i>	极危植物;CR B1ab (iii)。建立了天然林保护区工程林区 Critically endangered plant. Natural forest protection project is established	有效种群保育 500 株 Established IEP, and 500 plants were conserved	贵定、惠水 Guiding, Huishui	98.00

续附录 2

科 Family	植物种类 Plant species	濒危评估及就地保护 Endangered species assessment and <i>in-situ</i> conservation	贵州省植物园迁地保护 <i>Ex-situ</i> conservation plant number in Guizhou Botanical Garden	引种源地 Source region	栽培成活率 Cultivation survival rate(%)
	50. 无子刺梨 ⊙ <i>R. sterilos</i>	极危植物;CR B1ab (iii)。建立了天然林保护工程林区 Critically endangered plant. Natural forest protection project is established	有效种群保育 500 株 Established IEP, and 500 plants were conserved	兴仁市巴铃镇 Baling Town of Xingren City	97.50
豆科 Leguminosae	51. 岩生红豆树 ⊙ <i>Ormosia saxatilis</i>	濒危植物;EN A2c。建立了天然林保护工程林区 Endangered plant. Natural forest protection project is established	引种栽培保育 10 株 Introduced and conserved 10 plants	贵阳黔灵山 Qianlingshan of Guiyang City	90.00
猕猴桃科 Actinidiaceae	52. 密花猕猴桃 <i>Actinidia rufotricha</i> var. <i>glomerata</i>	濒危植物;EN D。建立了天然林保护工程林区 Endangered plant. Natural forest protection project is established	有效种群保育 100 株 Established IEP, and 100 plants were conserved	兴义、安龙 Xingyi, Anlong	96.00
	53. 梵净山猕猴桃 ⊙ <i>A. fanjingshanensis</i>	濒危植物;EN A2c; D1。建立了国家级自然保护区 Endangered plant. The national nature reserves are established	有效种群保育 100 株。 Established IEP, and 100 plants were conserved.	梵净山。 Fanjingshan	95.00
杜鹃花科 Ericaceae	54. 百合花杜鹃 <i>Rhododendron</i> <i>Liliiflorum</i>	易危植物;VU D2。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	引种栽培保育 20 株 Introduced and conserved 20 plants	贵阳市花溪区高坡乡 Gaopo Town , Huaxi District, Guiyang City	95.00
	55. 圆叶杜鹃 <i>R. williamsianum</i>	濒危植物;EN D。建立了天然林保护工程林区 Endangered plant. Natural forest protection project is established	引种栽培保育 20 株 Introduced and conserved 20 plants	水城、威宁 Shuicheng, Weining	95.00
	56. 锈叶杜鹃 <i>R. siderophyllum</i>	易危植物;VU D2。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	引种栽培保育 20 株 Introduced and conserved 20 plants	百里杜鹃森林公园 The Baili Azalea National Forest Park of Guizhou	95.00
	57. 凹叶杜鹃 <i>R. davidsonianum</i>	易危植物;VU D2。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	引种栽培保育 20 株 Introduced and conserved 20 plants	百里杜鹃森林公园 The Baili Azalea National Forest Park of Guizhou	95.00
	58. 马樱杜鹃 <i>R. delavayi</i>	易危植物;VU D2。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	有效种群保育 80 株 Established IEP, and 80 plants were conserved	百里杜鹃森林公园 The Baili Azalea National Forest Park of Guizhou	96.00
	59. 露珠杜鹃 <i>R. irroratum</i>	易危植物;VU D2。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	百里杜鹃森林公园 The Baili Azalea National Forest Park of Guizhou	96.00
	60. 迷人杜鹃 <i>R. agastum</i>	易危植物;VU D2。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	有效种群保育 50 株 Established IEP, and 50 plants were conserved	百里杜鹃森林公园 The Baili Azalea National Forest Park of Guizhou	95.00
	61. 羊躑躅 <i>R. molle</i>	易危植物;VU D2。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	引种栽培保育 20 株 Introduced and conserved 50 plants	百里杜鹃森林公园 The Baili azalea National Forest Park of Guizhou	96.00
	62. 雷山杜鹃 ⊙ <i>R. leshanicum</i>	濒危植物;EN D。建立了国家级自然保护区 Endangered plant. The national nature reserves are established	引种栽培保育植株 20 株 Introduced and conserved 20 plants	雷公山 Leigongshan	90.00

貴州

科 Family	植物种类 Plant species	濒危评估及就地保护 Endangered species assessment and <i>in-situ</i> conservation	贵州省植物园迁地保护 <i>Ex-situ</i> conservation plant number in Guizhou Botanical Garden	引种源地 Source region	栽培成活率 Cultivation survival rate(%)
竹亚科 Bambusoideae	63. 平伐杜鹃 ○ <i>R. fuchsifolium</i>	极危植物; CR B1ab(i, iii)。建立了天然林保护工程林区 Critically endangered plant. Natural forest protection project is established	引种栽培保育植株 20 株。 Introduced and conserved 20 plants	贵定云雾山 Yunwushan of Guiding County	85.00
	64. 大白杜鹃 <i>R. decorum</i>	易危植物; VU D2。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	有效种群保育植株 50 株 Established IEP, and 50 plants were conserved	雷山、大方 Leishan, Dafang	95.00
	65. 贵州悬竹 ○ <i>Ampelocalamus Calcareus</i>	极危植物; CR B1ab(i, iii, v); C1。建立了天然林保护工程林区 Critically endangered plant. Natural forest protection project is established	引种栽培保育 10 株 Introduced and conserved 10 plants	贵州荔波 Libo County, Guizhou Province	90.00
兰科 Orchidaceae	66. 春兰 <i>Cymbidium goeringii</i>	易危植物; VU A4c; B1ab(iii)。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	有效种群保育 1000 株 Established IEP, and 1000 plants were conserved	贵阳、兴义 Guiyang, Xingyi	97.50
	67. 多花兰 <i>C. floribundum</i>	易危植物; VU A2cd。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	有效种群保育 500 株 Established IEP, and 500 plants were conserved	荔波茂兰 MaolanTown, Libo County	95.60
	68. 硬叶兜兰 <i>Paphiopedilum micranthum</i>	易危植物; VU A4c。建立了天然林保护工程林区 Vulnerable plant. Natural forest protection project is established	有效种群保育 500 株 Established IEP, and 500 plants were conserved	荔波茂兰 Maolan Town, Libo County	96.00
	69. 白花兜兰 <i>P. emersonii</i>	极危植物; CR A2cd。建立了天然林保护工程林区 Critically endangered plant, Natural forest protection project is established	有效种群保育 500 株 Established IEP, and 500 plants were conserved	荔波茂兰 Maolan Town, Libo County	96.00
	70. 麻栗坡兜兰 <i>P. malipoense</i>	极危植物; CR A2ac。建立了天然林保护工程林区 Critically endangered plant. Natural forest protection project is established	有效种群保育 500 株 Established IEP, and 500 plants were conserved	安龙、兴义 Anlong, Xingyi	96.50
合计: 70 种(含变种) Total: 70 species (including variants)		从不同地理种源地引种保育 11 010 株 11 010 plants from different source regions			平均值 Mean (%) 95.80



附录3 贵州省植物园珍稀濒危特有植物保育区种植圃图示及其说明

Appendix 3 The diagram and instruction of rare and endangered plants conservation nursery in Guizhou Botanical Garden

贵州稀有濒危种子植物迁地保护的引种栽培种群模式如附录3所示,按照不同生态类型将73种植物分别种植于编号为1#—12#种植圃中,其中57种植物的栽培种群满足遗传多样性维持数量(IEP)。

1#种植圃:引种保育4种。贵州苏铁(*Cycas guizhouensis*)、梵净山冷杉(*Abies fanjingshanensis*)、青岩油杉(*Keteleeria davidiana* var. *chien-peii*)、银杉(*Cathaya argyrophylla*)。伴生混交植物有柳杉(*Cryptomeria fortunei*)、池杉(*Taxodium ascendens*)、日本花柏(*Chamaecyparis pisifera*)、光皮桦(*Betula luminifera*)、喙核桃(*Annamocarya sinensis*)等。

2#种植圃:水杉(*Metasequoia glyptostroboides*)单种群丛林。

3#种植圃:引种保育8种。秃杉(*Taiwania cryptomerioides*)、香樟(*Cinnamomum camphora*)、百合花杜鹃(*Rhododendron liliiflorum*)、圆叶杜鹃

(*R. williamsianum*)、锈叶杜鹃(*R. siderophyllum*)、凹叶杜鹃(*R. davidsonianum*)、马缨杜鹃(*R. delavayi*)、露珠杜鹃(*R. irroratum*)。伴生混交植物有喜树(*Camptotheca acuminata*)、红花木莲(*Manglietia insignis*)、银鹊树(*Tapiscia sinensis*)、楸树(*Catalpa bungei*)、构树(*Broussonetia papyrifera*)、柳杉等。

4#种植圃:引种保育9种。银杏(*Ginkgo biloba*)、柔毛油杉(*Keteleeria pubescans*)、黄枝油杉(*K. calcarea*)、短叶黄杉(*Pseudotsuga brevifolia*)、珙桐(*Davidia involucrate*)、亮叶月季(*Rosa lucidissima*)、无子刺梨(*R. sterilos*)、岩生红豆树(*Ormosia saxatilis*)、贵州金丝桃(*Hypericum kouytchense*)、混交植物有银鹊树、篦子三尖杉(*Cephalotaxus oliveri*)、喜树、红花木莲(*Manglietia insignis*)、杜仲(*Eucommia ulmoides*)、蓝果树(*Nyssa sinensis*)、五裂槭(*Acer oliverianum*)、苦楝(*Melia*

azedarach)、朴树(*Celtis tetrandra*)、广玉兰(*Magnolia grandiflora*)、白玉兰(*Michelia alba*)等。

5#种植圃: 引种保育 8 种。迷人杜鹃(*Rhododendron agastum*)、羊躑躅(*R. mole*)、雷山杜鹃(*R. leshanicum*)、平伐杜鹃(*R. feddei*)、大白杜鹃(*R. decorum*)、阔瓣含笑(*Michelia platypetala*)、乐东拟单性木兰(*Parakmeria lotungensis*)、贵州悬竹(*Ampelocalamus calcareus*)。混交植物有红花木莲、粗梗含笑(*Michelia crassipes*)、山玉兰(*Magnolia delavayi*)、鸡爪槭(*Acer palmatum*)、青窄槭(*A. davidii*)、柳杉、日本柳杉(*Cryptomeria japonica*)等。

6#种植圃: 引种保育 9 种。南方铁杉(*Tsuga chinensis* var. *tehekiangensis*)、红豆杉(*Taxus chinensis*)、南方红豆杉(*T. chinensis* var. *mairei*)、巴山榧树(*Torreya fargesii*)、粗榧(*Cephalotaxus sinensis*)、宽叶粗榧(*C. sinensis* var. *latifolia*)、篦子三尖杉(*C. oliveri*)、贵州紫薇(*Lagerstromia kweichouensis*)、川黔紫薇(*L. excels*)。混交植物有白辛树(*Pterostyrax psilophyllus*)、水青树(*Tetracentron sinense*)、蓝果树(*Nyssa sinensis*)、阔瓣含笑(*Michelia platypetala*)、桂花(*Osmanthus fragrans*)等。

7#种植圃: 引种保育 2 种。伯乐树(*Bretschneidera sinensis*)、单性木兰(*Kmeria septentrionalis*)。伴生混交植物有绒毛皂荚(*Gleditsia vestita*)、桂花、多花含笑(*Michelia floribunda*)、红花玉兰(*Magnolia wufengensis*)、蓝果树、杨桐(*Adinandra millettii*)、北美红杉(*Sequoia sempervirens*)、连香树(*Cercidiphyllum japonicum*)、栎树(*Koelreuteria paniculata*)、杜英(*Elaeocarpus decipiens*)、苦楝(*Melia azedarach*)、白玉兰等。

8#种植圃: 引种保育 12 种。鹅掌楸(*Liriodendron chinense*)、厚朴(*Magnolia officinalis*)、凹叶厚朴(*M. officinalis* subsp. *biloba*)、香木莲(*Manglietia aromatica*)、云南拟单性木兰(*Parakmeria yunnanensis*)、水青树(*Tetracentron sinense*)、喜树、掌叶木(*Handelioidendron bodinieri*)、狭叶含笑(*Michelia angustiblonda*)、深山含笑

(*M. maudiae*)、峨眉含笑(*M. wilsonii*)、莽草(*Illicium lanceolatum*)。伴生混交植物有观光木(*Michelia odora*)、粗梗含笑(*M. crassipes*)、平伐含笑(*M. cavaleriei*)、柳杉、雪松(*Cedrus deodara*)、龙柏(*Sabina chinensis* var. *chinensis* cv.)、木瓜(*Chaenomeles sinensis*)、石榴(*Punica granatum*)等。

9#种植圃: 栽植白玉兰、侧柏(*Platycladus orientalis*)、马尾松(*Pinus massoniana*)等, 以及自然植被构成了种植园的防护林带。

10#种植圃: 引种保育 10 种。秤锤树(*Sinojackia xylocarpa*)、大叶榉树(*Zelkova schneideriana*)、贵州槭(*Acer guizhouensis*)、雷公山槭(*A. legongshanensis*)、灰叶槭(*A. poliophyllum*)、平坝槭(*A. shihweii*)、青榨槭(*A. davidi*)、红脉槭(*A. rubronervium*)、石山桂(*Cinnamomum calcareum*)、黔南润楠(*Machilus austroguizhouensis*)、黔桂润楠(*M. chienkweiensis*)、安龙油果樟(*Syndiclis anlongensis*)。伴生混交植物有猴樟(*Cinnamomum bodinieri*)、金钱松(*Pseudolarix amabilis*)、连香树、福建柏(*Fokienia hodginsii*)、雪松(*Cedrus deodara*)、山桐子(*Idesia polycarpa*)等。

11#种植圃: 引种保育 11 种。密花猕猴桃(*Actinidia rufotricha* var. *glomerata*)、梵净山猕猴桃(*A. fanjingshanensis*)、格木(*Erythrophleum fordii*)、红豆树(*Ormosia hosiei*)、任豆(*Zenia insignis*)、红椿(*Toona ciliata*)、毛红椿(*T. ciliata* var. *pubescens*)、马尾树(*Rhoiptelea chilantha*)、川黄檗(*Phellodendron chinense*)、伞花木(*Eurycorymbus cavaleriei*)。伴生混交植物有翠柏(*Calocedrus macrolepis*)、银鹊树、栎树、紫荆(*Cercis chinensis*)、白栎(*Quercus fabri*)、光皮槲木(*Swida wilsoniana*)、马尾松、构树等。

12#种植圃: 光皮桦、白栎(*Quercus fabri*)、光皮槲木(*Swida wilsoniana*)、野蔷薇(*Rosa multiflora*)、芒(*Miscanthus sinensis*)、丛竹(*Neosinocalamus affinis*)、迎春(*Jasminum nudiflorum*)等次生植被带。