

## Supplementary Materials:

**Table S1.** Geographical information of AFS sample sites.

Study Area	Sample No.	Latitude(N)	Longitude(E)	Altitude(m)	Slope direction(°)	Slope(e°)	Slope position	Type of landform	Soil type
Homegarden (HG)	CF-①	27°15'08.9	105°5'29.28	1833	70E	7	Mid-slope	Policy	Yellow Loam
	CF-②	27°24'51.9	105°5'48.48	1829	102E	9	Downslope	Policy	yellow-brown soil
	CF-③	27°14'50.1	105°5'53.04	1843	113W	25	Mid-slope	Mountain	Yellow Loam
	CF-④	27°24'68.0	105°10'63.0	1882	163ES	15	Downslope	Policy	Yellow Loam
	CF-⑤	27°24'68.5	105°10'21.8	1881	178S	13	Downslope	Mountain	Yellow Loam
	CF-⑥	27°14'16.1	105°5'23.34	1690	124S	6	Flatland	Depression	yellow-brown soil
	CF-⑦	27°14'05.2	105°5'32.03	1740	182S	9	Flatland	Depression	yellow-brown soil
	CF-⑧	27°14'44.3	105°5'47.57	1810	146S	10	Flatland	Depression	yellow-brown soil
	CF-⑨	27°15'14.4	105°5'51.26	1896	6N	8	Flatland	Depression	Yellow Loam
Agrisilviculture (ASV)	HJ-①	25°40'15.9	105°40'00.2	598	148S	45	Mid-slope	Mid-slope	Limestone
	HJ-②	25°40'26.3	105°39'59.5	613	153S	37	Mid-slope	Mid-slope	Limestone
	HJ-③	25°40'24.6	105°40'0.19	580	220S	35	Mid-slope	Mid-slope	Limestone
	HJ-④	25°40'25.7	105°39'55.2	568	237S	45	Mid-slope	Mid-slope	Limestone
	HJ-⑤	25°39'33.3	105°38'34.2	783	110E	25	Mid-slope	Mid-slope	Limestone
	HJ-⑥	25°39'31.9	105°38'31.3	800	101E	27	Mid-slope	Mid-slope	Limestone
	HJ-⑦	25°39'30.6	105°38'31.0	747	6N	20	Downslope	Depression	Limestone
	HJ-⑧	25°39'00.4	105°38'13.5	891	73E	13	Flatland	Depression	Limestone
	HJ-⑨	25°41'32.1	105°38'34.2	936	47S	17	Flatland	Depression	Limestone
Multipurpose woodlot (MWLs)	SB-①	27°8'57.4	108°7'35.04	1031	325WN	34	Mid-slope	Mid-slope	Yellow Loam
	SB-②	27°8'56.4	108°6'58.12	1012	153S	20	Downslope	Mid-slope	Yellow Loam
	SB-③	27°12'56.5	108°1'32.03	981	220S	20	Downslope	Mid-slope	yellow-brown soil

SB-④	27°13'6.38" 108°1'37.77"	1132	237S	47	Mid-slope	Mid-slope	Limestone
SB-⑤	27°9'00.40" 108°9'00.26"	1036	110E	34	Mid-slope	Mid-slope	Limestone
SB-⑥	27°9'00.31" 108°9'00.25"	897	213WS	35	Mid-slope	Mid-slope	Limestone
SB-⑦	27°9'31.34" 108°9'00.25"	1014	136W	17	Downslope	Depression	Limestone
SB-⑧	27°54'25.40" 108°9'50.81"	1154	116E	20	Downslope	Depression	Yellow Loam
SB-⑨	27°9'26.49" 108°7'47.54"	1197	23N	13	Flatland	Depression	Limestone

**Table S2.** Principles and description of the construction of the index system.

Follow the principles	Description
Scientific principle	It is necessary to understand the essential characteristics of AFS and the basic characteristics of the KD ecosystem. A deep understanding of the primary connotation of stability is necessary to comprehensively, systematically, and accurately reflect the connotation characteristics of stability in the index system. To reveal the internal relationships of karst KD AFS and the reflections brought about when subjected to external disturbances.
Sustainability Principles	The KD-AFS responds to the system's stability through a continuous dynamic process of artificial sowing, planting, cultivation, management, and care until harvesting, which requires the selection of indicators to be based on the present while considering future sustainable use.
Representativeness Principle	The construction of the AFS Stability evaluation index system involves a wide range of available indicators, which requires the selection of representative leading indicators. At the same time can reflect the unique environmental characteristics of KD areas.
Feasibility principle	The principle focuses on the operability of the actual monitoring indicators, which contains the difficulty of obtaining and the accuracy of measurement. Due to the limited existing technical means, the difficulty of obtaining accurate monitoring and assessment indicators varies greatly. We should not focus only on the objectivity of the indicator system at the expense of operability and should combine quantitative and qualitative.
Comprehensive Principle	The AFS in the KD is a natural-economic-social composite ecosystem formed by interacting with the natural environment and human society. Therefore, the selection of indicators requires careful consideration of the various impacts of natural and human factors on the internal and external ecosystem

**Table S3.** Stability evaluation index screening criteria and meaning.

Selection criteria	Meaning
Logical clarity	Organize indicators according to logical relationships within ecosystem stability.
Related to management objectives	Indicators provide indicative and precise information concerning management objectives to serve ecosystem conservation and management decisions.
related to KD domain-specific environment	Indicators are used to assess the AFS Stability in KAD and can cover the natural and social issues associated with it.

Representation	The number of indicators need not be excessive but should reveal the critical issues in the AFS Stability assessment.
Method refinement	The clear and scientific definition of indicators, scientific evaluation methods, reliable data collection methods, and ease for long-term and continuous measurement.
Integrity and flexibility	The indicator system is stable and can meet the needs of different users to the maximum extent.
Applicability and diffusion	Easy to understand and grasp, the evaluation results are not only grasped by the researcher but also easily understood and recognized by the manager.

**Table S4.** AFS Stability evaluation indicators and their ecological significance .

Target layer	Guideline layer	Level 1 Indicators	Secondary indicators	Nature of Indicator	Ecological significance
AFS Stability	Structural indicators (U)	Stand structure (U <sub>1</sub> )	Angular scale(U <sub>11</sub> )	Reverse	Forest distribution pattern
			Mixing degree(U <sub>12</sub> )	Positive	Degree of spatial isolation of forest trees
			Size ratio(U <sub>13</sub> )	Positive	Extent of stand size differentiation
		Depression(U <sub>14</sub> )	Reverse	Reflects stand density	
			Tree height(U <sub>15</sub> )	Positive	Forest growth status
	Species diversity (U <sub>2</sub> )	Crown size(U <sub>16</sub> )	Positive	Forest growth status	
			Margalef Richness(U <sub>21</sub> )	Positive	Species $\alpha$ diversity characteristics
			Shanon Diversity(U <sub>22</sub> )	Positive	Species $\alpha$ diversity characteristics
		Pielou Uniformity(U <sub>23</sub> )	Positive	Species $\alpha$ diversity characteristics	
			Simpson dominance(U <sub>24</sub> )	Positive	Species $\alpha$ diversity characteristics
	Site Environment (U)	Soil fertility (U <sub>3</sub> )	SOM(U <sub>31</sub> )	Positive	Soil fertility status
			TN(U <sub>32</sub> )	Positive	Soil fertility status
			TP(U <sub>33</sub> )	Positive	Soil fertility status
		TK(U <sub>34</sub> )	Positive	Soil fertility status	
			SBD (U <sub>35</sub> )	Positive	Soil fertility status
			WFPS(U <sub>36</sub> )	Positive	Soil structural characteristics
		Topographic factors (U <sub>4</sub> )	Soil pH(U <sub>37</sub> )	Reverse	Soil structural characteristics
			Falling gradient(U <sub>41</sub> )	Reverse	Terrain and landform conditions
			Height(U <sub>42</sub> )	Reverse	Terrain and landform conditions
			Rock Exposure Rate(U <sub>43</sub> )	Reverse	Terrain and landform conditions

**Table S5.** Evaluation Indicators.

Area.	Agroforestry type	Angular scale	Mixing degree	Size ratio	Depression	Tree height	Crown size	Uniformity index	Strength Index	Richness Index	Diversity Index	SOM	TN	TP	TK	SBD	WFPS	Soil pH	Falling gradient	Height(m)
BJ	HG	0.516667	0.5	0.233333	0.603333	4.208	2.9395	3.479406	2.398306	0.828148	0.133768	3.3828450.2364060.6932435.664033	1.23	53.423338.666667	1825.666667	1857	6.83			
	ASV	0.5	0.533333	0.3	0.229	3.900952	2.920548	2.808085	2.171033	0.767159	0.163411	3.45789 0.2534050.68947117.93379	1.23	53.31667	14	1857	6.61			
HJ	MWLS	0.566667	0.6	0.283333	0.6	3.295741	2.882167	2.532238	1.925686	0.759135	0.23903	4.166633 0.32371 0.7324187.0488561.40666747.50667	0	1731.333333	6.626666667	24	760.333333	6.99		
	HG	0.533333	0.583333	0.533333	0.6	6.136	4.209333	2.052716	2.003938	0.876364	0.152604	5.9883240.4730350.9947868.2360491.20333354.276667	51.49	17.33333	698.333333	7.17				
SB	ASV	0.45	0.466667	0.316667	0.486667	4.104667	2.999167	1.310267	1.075337	0.517955	0.502126	2.5704740.3211770.38554312.881121.286667	51.78	47.9	579.6666667	6.916666667				
	MWLS	0.616667	0.633333	0.416667	0.593333	3.114963	2.523	2.174054	2.109609	0.88785	0.145571	3.9223620.2527550.626903 15.0789 1.096667	57.78	24.66667	985.333333	6.46				
SB	ASV	0.4	0.05	0.55	0.74	2.042	1.974667	1.551854	1.668428	0.645389	0.335831	2.7539260.1425230.65581318.66124	1.18	54.943323.666667	1033	5.22				
	MWLS	0.483333	0	0.35	0.57	2.682667	2.967667	1.998004	1.40521	0.630972	0.311398	2.6645060.2082060.80653537.246181.16333355.5966731.666667	1037	6.023333333						

**Table S6.** Evaluation index standard grading.

Indicator Level	Grade Criteria					Reference basis
	I	II	III	IV	V	
U <sub>11</sub>	0~0.234	0.234~ 0.475	0.475~ 0.517	0.517~ 0.758	0.758~ 1.000	Spatial structure parameters of forest stand
U <sub>12</sub>	0.75~1	0.5~0.75	0.25~0.5	0~0.25	0	Spatial structure parameters of forest stand
U <sub>13</sub>	0.8~1	0.6~0.8	0.4~0.6	0.2~0.4	0~0.2	Spatial structure parameters of forest stand
U <sub>14</sub>	0~0.2	0.2~0.4	0.4~0.6	0.6~0.8	0.8~1	Modern forest determination methods
U <sub>15</sub>	5.91~6.99	4.84~5.91	3.76~4.84	2.69~3.76	1.61~ 2.69	Field Type
U <sub>16</sub>	4.11~4.71	3.51~4.11	2.9~3.51	2.30~2.90	1.70~ 2.30	Field Type
U <sub>21</sub>	3.70 ~ 4.38	3.02 ~ 3.70	2.35 ~ 3.02	1.67 ~ 2.35	0.99 ~ 1.67	Field Type
U <sub>22</sub>	2.39 ~ 2.75	2.03 ~ 2.39	1.67 ~ 2.03	1.31 ~ 1.67	0.95 ~ 1.31	Field Type
U <sub>23</sub>	0.85 ~ 0.95	0.75 ~ 0.85	0.66 ~ 0.75	0.56 ~ 0.66	0.47 ~ 0.56	Field Type
U <sub>24</sub>	0.08 ~ 0.17	0.17 ~ 0.27	0.27 ~ 0.36	0.36 ~ 0.45	0.45 ~ 0.54	Field Type
U <sub>31</sub>	>4	3~4	2~3	1~2	0.6~1	National Soil Census Office China Soil
U <sub>32</sub>	0.41~0.49	0.34~0.41	0.27~0.34	0.20~0.27	0.13~ 2.0	Field Type
U <sub>33</sub>	1.05~1.23	0.87~1.05	0.69~0.87	0.50~0.69	0.32~ 0.50	Field Type
U <sub>34</sub>	37.52~46.03	29.02~ 37.52	20.51~ 29.02	12.01~ 20.51	3.50~ 12.01	Field Type
U <sub>35</sub>	1~1.25	1.25~1.35	1.35~1.45	1.45~1.55	>1.55	National Soil Census Office China Soil
U <sub>36</sub>	55~65	45~55	35~45	25~35	15~25	National Soil Census Office China Soil
U <sub>37</sub>	6.97~7.43	6.51~6.97	6.04~6.51	5.58~6.04	5.15~ 5.58	Field Type
U <sub>41</sub>	<10	10~20	20~30	30~40	>40	Field Type
U <sub>42</sub>	526~823	823~1085	1085~ 1346	1346~1607	1607~ 1869	Field Type
U <sub>43</sub>	0~0.120	0.120~ 0.239	0.239~ 0.359	0.339~ 0.478	0.478~ 0.5978	Field Type

**Table S7.** Plants composition and importance values in AFS.

Agroforestry	Area	English name	Latin Name	Type	IV	English name	Latin Name	Type	IV
		Walnut	<i>Juglans regia</i> L.	Arbo r	0.48 2	Erigeron canadensis	<i>Conyza canadensis</i> (L.) Cronq.	Herbal	0.111
		Rosa roxburghii trat	<i>Rosa roxburghii</i> Tratt.	Shru b	0.42 3	Artemisia	<i>Artemisia argyi</i> H. Lév. & Vaniot	Herbal	0.105
BJ		Moss	<i>Bryophyta</i>	Herb al	0.20 7	Glandulars talk St	<i>Siegesbeckiae</i> <i>Orientalis</i>	Herbal	0.101
		Green bristlegrass	<i>Setaria viridis</i> (L.) Beauv.	Herb al	0.19 4	Berseem Clover	<i>Galium odoratum</i> (L.) Scop.	Herbal	0.089
		Herb of Hispid Arthraxon	<i>Arthraxon hispidus</i> (Trin.) Makino	Herb al	0.12 2	Galinsoga parviflora	<i>Galinsoga parviflora</i> Cav.	Herbal	0.085
		The Bidens bipinnata	<i>Bidens pilosa</i> L.	Herb al	0.38 7	Fructus amomi	<i>Amomum villosum</i> Lour.	Herbal	0.158
		Evodia rutaecarpa	<i>Tetradium ruticarpum</i> (A. Juss.) T. G. Hartley	Arbo r	0.36 9	Leek	<i>Allium tuberosum</i> Rottler ex Spreng.	Herbal	0.116
Homegarden (HG)	HJ	Walnut	<i>Juglans regia</i> L.	Arbo r	0.30 3	Honeysuck le	<i>Lonicera Japonica</i> Thunb.	Herbal	0.11
		Chinese Prickly Ash	<i>Zanthoxylum simulans</i> Hance	Arbo r	0.27 2	Paper Mulberry	<i>Broussonetia papyrifera</i> (Linn.) L'Hér. ex Vent.	Arbor	0.107
		Deutzia	<i>Deutzia setchuenensis</i> Franch.	Shru b	0.16 7	Camphor	<i>Cinnamomum camphora</i> (L.) Presl.	Arbor	0.101
		Cyperus rotundus	<i>Cyperu srotundus</i> Linn.	Herb al	0.26 3	Garland chrysante mum	<i>Crassocephalu m crepidioides</i> (Benth.) S. Moore	Herbal	0.137
		Peach	<i>Amygdalus persica</i> L.	Shru b	0.23 5	Berseem Clover	<i>Galium odoratum</i> (L.) Scop.	Herbal	0.133
SB		Plantago Herb	<i>Plantginis</i> Herba	Herb al	0.20 6	Plum	<i>Prunus salicina</i> Lindl.	Arbor	0.102
		Cherry	<i>Prunus pseudocerasus</i> Lindl.	Shru b	0.19 1	Corn	<i>Zea mays</i> L.	Herbal	0.1
		Flue-cured tobacco	<i>Nicotiana tabacum</i> L.	Herb al	0.15 1	Lysimachi a	<i>Lysimachia patungensis</i> Hand.-Mazz.	Herbal	0.09
Agrisilvicultu re (ASV)	BJ	Rosa roxburghii trat	<i>Rosa roxburghii</i> Tratt.	Shru b	0.69 1	Axillary Southern Wildjujube	<i>Rubus coreanus</i> Miq.	Herbal	0.149
		Walnut	<i>Juglans regia</i> L.	Arbo r	0.38 8	Herb of Hispid Arthraxon	<i>Arthraxon hispidus</i> (Thunb.) Makino	Herbal	0.149

	Artemisia	<i>Artemisia argyi</i> H. Lév. & Vaniot	Herb 0.37 al 1	Erigeron canadensis	<i>Conyza canadensis</i> (L.) Cronq.	Herbal	0.134
	Sang	<i>Morus alba</i> L.	Shrub 0.31 b 7	Wilford's Cranesbill	<i>Geranium wilfordii</i> Maxim.	Herbal	0.12
	Ryegrass	<i>Lolium perenne</i> L.	Herb 0.27 al 2	Ryuki	<i>Solanum nigrum</i> L.	Herbal	0.115
	Pitaya	<i>Hylocereus (A. Berger)</i> Britton & Rose	Shrub 0.65 b 3	The Bidens bipinnata	<i>Bidens pilosa</i> L.	Herbal	0.13
	Chinese Prickly Ash	<i>Zanthoxylum simulans</i> Hance	Arbo 0.39 r 3	Erigeron canadensis	<i>Conyza canadensis</i> (L.) Cronq.	Herbal	0.114
HJ	Mexican fire plant	<i>Euphorbia cyathophora</i> Murr.	Herb 0.27 al	Ageratum conyzoides	<i>Ageratum conyzoides</i> L.	Herbal	0.086
	Erigeron canadensis	<i>Conyza canadensis</i> (L.) Cronq.	Herb 0.17 al 4	June cry	<i>Pinellia ternata</i> (Thunb.) Makino	Herbal	0.082
	Herb of Hispid Arthraxon	<i>Arthraxon hispidus</i> (Thunb.) Makino	Herb 0.17 al 1	field sow thistle	<i>Ixeris polycephala</i> Cass.	Herbal	0.062
	Pear	<i>Pyrus</i> spp	Arbo 0.45 r 9	Goosegrass s Herb	<i>Eleusine indica</i> (L.) Gaertn.	Herbal	0.119
	Echinochloa crusgalli (L.) Beauv.]	<i>Echinochloa crus-galli</i> (L.) P. Beauv.	Herb 0.36 al 8	Herb of Hispid Arthraxon	<i>Arthraxon hispidus</i> (Thunb.) Makino	Herbal	0.113
SB	Bletilla striata	<i>Bletilla striata</i> (Thunb. ex Murray) Rchb. F.	Herb 0.26 al 5	Indian Mock strawberry Herb	<i>Duchesnea indica</i> (Andr.) Focke	Herbal	0.084
	Herb of Common Crabgrass	<i>Digitaria sanguinalis</i> (L.) Scop.	Herb 0.15 al 6	Portulacaria afra	<i>Portulacaria afra</i> Jacq.	Herbal	0.078
	Green bristlegrass	<i>Setaria viridis</i> (L.) Beauv.	Herb 0.15 al	Calamint	<i>Clinopodium chinense</i> (Benth.) Kuntze	Herbal	0.064
	Rosa roxburghii trat	<i>Rosa roxburghii</i> Tratt.	Shrub 0.29 b 6	Oplismenfoli	<i>Oplismenus undulatifolius</i> (Ard.) Roemer & Schuit.	Herbal	0.115
	Walnut	<i>Juglans regia</i> L.	Arbo 0.41 r 2	Cat's Claw Fern	<i>Onychium japonicum</i> (Thunb.) Kunze	Herbal	0.115
Multipurpose woodlots (MWLs)	BJ	Commelinace Herba	<i>Commelina communis</i> L.	Herb 0.18 al	Indian Mock strawberry Herb	<i>Duchesnea indica</i> (Andr.) Focke	Herbal 0.112
	Rubus setchuenensis	<i>Rubus setchuenensis</i> Bureau & Franch.	Herb 0.12 al 4	Berseem Clover	<i>Galium odoratum</i> (L.) Scop.	Herbal	0.107
	Creeping oxalis	<i>Oxalis corniculata</i> L.	Herb 0.11 al 8	Pteris ensiformis Burm	<i>Pteris ensiformis</i> Burm.f.	Herbal	0.104

		sorghum	<i>Sorghum bicolor</i> (L.) Moench	Herb al	0.48 7	Rough Melic	<i>ogonatherum</i> <i>crinitum</i> (Thunb.) Kunth.	Herbal	0.19
		Chinese Prickly Ash	<i>Zanthoxylum</i> <i>simulans</i> Hance	Arbo r	0.47 1	Ageratum conyzoides	<i>Ageratum</i> <i>conyzoides</i> L.	Herbal	0.168
HJ	Pitaya		<i>Hylocereus</i> <i>undulatus</i> (A. Berger) Britton & Rose	Shru b	0.30 4	Persimmon	<i>Diospyros kaki</i> Thunb.	Shrub	0.162
	Pear		<i>Pyrus</i> spp	Arbo r	0.21 4	Perilla frutescens crispa	<i>Perilla</i> <i>frutescens</i> (L.) Britt.(Ocim um frutescens L.	Shrub	0.152
	Plum		<i>Prunus salicina</i> Lindl.	Shru b	0.21 2	Mango	<i>Mangifera</i> <i>indica</i> L.	Shrub	0.133
	Manyflower Solomonseal Rhizome		<i>Polygonatum</i> <i>sibiricum</i> Delar. Ex Redoute	Herb al	0.81	Herb of Hispid Arthraxon	<i>Arthraxon</i> <i>hispidus</i> (Thunb.) Makino	Herbal	0.13
	Walnut		<i>Juglans regia</i> L.	Arbo r	0.44 2	Aquatic Malachium	<i>Myosoton</i> <i>aquaticum</i> (L.) Moench	Herbal	0.105
SB	Pear		<i>Pyrus</i> spp	Arbo r	0.29 7	Annual Fleabane	<i>Erigeron</i> <i>annuus</i> (L.) Desf	Herbal	0.102
	Peach		<i>Amygdalus persica</i> L.	Shru b	0.22 2	Erigeron canadensis	<i>Conyza</i> <i>canadensis</i> (L.) Cronq.	Herbal	0.084
	Brittle Falsepimpernel Herb		<i>Lindernia crustacea</i> (L.) F. Muell	Herb al	0.17 1	Amaranthu s	<i>Amaranthus</i> <i>hypochondriac</i> us L.	Herbal	0.077

Note: Only the number of plant species with the top ten importance values are shown in the table.

**Table S8.** Changes in ecosystem plant composition.

Structure	Area	Total species	Total number of genera	Subject	Number of the total		Number of species	Of the total number of species/%
					of genera	number of genera/%		
Homegarden (HG)	BJ	29	29	Asteraceae	9	31.03	9	21.95
				Graminaceae	4	13.79	4	9.76
				Labiateae	2	6.9	2	4.88
				Caryophyllaceae	2	6.9	2	4.88
				Polygonaceae	2	6.9	2	4.88
	HJ	19	17	Urticaceae	2	6.9	2	4.88
				Liliaceae	1	3.45	1	2.44
				Sanko	2	11.76	2	10.53
				Leguminosae	2	11.76	2	10.53

				Jiang Ke	1	5.88	1	5.26
				Asteraceae	7	16.67	7	16.28
				Labiatae	4	9.52	4	9.3
				Solanaceae	4	9.52	4	9.3
				Graminaceae	3	7.14	3	6.98
Agrisilviculture (ASV)	SB	43	42	Rosaceae	2	4.76	2	4.65
				Primulaceae	2	4.76	2	4.65
				Liliaceae	2	4.76	2	4.65
				Polygonaceae	2	4.76	2	4.65
				Jiang Ke	1	2.38	1	2.33
				Asteraceae	5	18.52	6	16.22
				Graminaceae	4	14.81	5	13.51
				Rosaceae	3	11.11	4	10.81
				Labiatae	3	11.11	3	8.11
				Leguminosae	1	3.7	1	2.7
Multipurpose woodlots (MWLs)	HJ	14	13	Asteraceae	5	38.46	5	35.71
				Leguminosae	1	7.69	1	7.14
				Graminaceae	4	19.05	4	19.05
				Labiatae	2	9.52	2	9.52
				Asteraceae	2	9.52	2	9.52
				Rosaceae	1	4.76	1	4.76
				Asteraceae	7	33.33	8	26.67
				Graminaceae	4	19.05	4	13.33
				Leguminosae	2	9.52	2	6.67
				Labiatae	1	4.76	1	3.33
Agrisilviculture (ASV)	HJ	14	12	Graminaceae	2	16.67	2	14.29
				Asteraceae	2	16.67	2	14.29
				Rutaceae	1	8.33	1	7.14
				Asteraceae	5	22.73	5	15.63
				Graminaceae	4	18.18	4	12.5
				SB	32	22		
				Amaranthaceae	2	9.09	3	9.38
				Xanthaceae	2	9.09	2	6.25
				Caryophyllaceae	1	4.55	1	3.13

**Table S9.** AFS species diversity index .

Structure type	Area	type	H	E	C	D
Homegarden (HG)	BJ	Woody	0.75	0.65	0.59	0.64
		Herbal	2.4	0.83	0.13	3.48
	HJ	Woody	0.9	0.94	0.42	0.46
		Herbal	2	0.88	0.15	2.05
Agrisilviculture	SB	Woody	0.41	0.42	0.76	0.37
		Herbal	2.3	0.8	0.14	3.47
	BJ	Woody	0.65	0.94	0.53	0.21

(ASV)		Herbal	2.22	0.77	0.16	2.99
HJ	Woody	0.35	0.5	0.79	0.19	
	Herbal	1.08	0.52	0.5	1.31	
SB	Woody	0.03	0.05	0.99	0.19	
	Herbal	1.3	0.59	0.39	1.29	
BJ	Woody	0.42	0.6	0.7	0.27	
	Herbal	1.93	0.76	0.24	2.53	
Multipurpose woodlots (MWLs)	Woody	0.84	0.78	0.5	0.63	
	Herbal	2.11	0.89	0.15	2.17	
	Woody	0.05	0.07	0.98	0.21	
	Herbal	1.57	0.61	0.31	2.11	

Note: "H" refers to Shannon's diversity index; "E" Pielou's evenness index; "C" Simpson's dominance index; "D" Margalef's richness index.