

Species name	occurrence	frequency	Relative frequency	No of individuals	Density	Relative Density	BA in sqm/h	R DO (RBA)
<i>Alangium chinense (Lour) Harms</i>	1	1.67	0.09	6	1.60	0.11	0.03	0.04
<i>Albizia gummifera</i>	14	23.33	1.21	14	3.73	0.26	0.13	0.16
<i>Albizia Schimperiana</i>	2	3.33	0.17	2	0.53	0.04	0.02	0.03
<i>Allophylus abyssinica</i>	19	31.67	1.65	34	9.07	0.63	0.19	0.23
<i>Apodytes dimidiata E. Mey. ex Arn</i>	15	25.00	1.30	25	6.67	0.46	0.84	1.04
<i>Bersama abyssinica Fresen.</i>	45	75.00	3.90	146	38.93	2.68	0.84	1.04
<i>Buddleja polystachya</i>	1	1.67	0.09	16	4.27	0.29	0.17	0.22
<i>Canthium oligocarpum Hiern</i>	36	60.00	3.12	92	24.53	1.69	0.66	0.82
<i>Cassipourea malosana (Baker)</i>	3	5.00	0.26	6	1.60	0.11	0.01	0.01
<i>Celtis Africana</i>	7	11.67	0.61	9	2.40	0.17	0.25	0.31
<i>Clausena anisata</i>	8	13.33	0.69	10	2.67	0.18	0.01	0.02
<i>Clematis semensis</i>	2	3.33	0.17	2	0.53	0.04	0.002	0.002
<i>Coffea arbica</i>	39	65.00	3.38	221	58.93	4.06	0.20	0.24
<i>Cordia Africana</i>	5	8.33	0.43	5	1.33	0.09	0.09	0.11
<i>Croton macostachys</i>	13	21.67	1.13	44	11.73	0.81	0.77	0.95
<i>Cyathea manniana Hook.</i>	6	10.00	0.52	117	31.20	2.15	0.43	0.54
<i>Dalbergia alata</i>	3	5.00	0.26	5	1.33	0.09	0.003	0.004
<i>Dombeya torrid</i>	1	1.67	0.09	2	0.53	0.04	0.00	0.00
<i>Dracaena steudneri Scw.ex Engl.</i>	19	31.67	1.65	35	9.33	0.64	0.42	0.52
<i>Dracena afromontana</i>	26	43.33	2.25	184	49.07	3.38	0.55	0.68
<i>Ehretia cymosa</i>	9	15.00	0.78	18	4.80	0.33	0.08	0.10
<i>Ekebergia capensis</i>	1	1.67	0.09	1	0.27	0.02	0.11	0.14
<i>Elaeodendron buchananii {Loes.} Loes,</i>	50	83.33	4.33	663	176.80	12.19	5.02	6.21
<i>Erythrococca trichogyne</i>	16	26.67	1.39	32	8.53	0.59	0.08	0.10
<i>Euphorbia ampiliphyla</i>	2	3.33	0.17	2	0.53	0.04	0.26	0.32
<i>Fagraopsis angolensis</i>	16	26.67	1.39	28	7.47	0.51	0.35	0.43
<i>Ficus sur</i>	21	35.00	1.82	53	14.13	0.97	1.09	1.35
<i>Flacourtia indica</i>	7	11.67	0.61	13	3.47	0.24	0.04	0.05
<i>Gallinaria saxifraga</i>	42	70.00	3.64	99	26.40	1.82	0.25	0.31

Species name	occurrence	frequency	Relative frequency	No of individuals	Density	Relative Density	BA in sqm/h	R DO (RBA)
<i>Hippocartes pallens</i>	26	43.33	2.25	57	15.20	1.05	0.08	0.10
<i>Illex mitis</i>	21	35.00	1.82	110	29.33	2.02	1.59	1.97
<i>Landolphia buchanani</i>	35	58.33	3.03	116	30.93	2.13	0.22	0.27
<i>Lepidagathis glandulosa</i> Hochst. ex Nees	10	16.67	0.87	15	4.00	0.28	0.02	0.02
<i>Lepidotrichilia volkensii</i> (Gurke) Leory	25	41.67	2.16	104	27.73	1.91	0.35	0.43
<i>Macaranga capensis</i> (Baill.) Sim	18	30.00	1.56	82	21.87	1.51	0.74	0.91
<i>Masea lanceolata</i>	5	8.33	0.43	57	15.20	1.05	0.36	0.45
<i>Maytenus gracilipes</i> (Welw.ex Oliv.) Exell	18	30.00	1.56	64	17.07	1.18	0.07	0.09
<i>Millettia ferruginea</i> (Hochst.) Baker	41	68.33	3.55	290	77.33	5.33	1.79	2.21
<i>Ocotea kenyensis</i> (Chiov.) Robyns & Wilcz	21	35.00	1.82	47	12.53	0.86	1.02	1.26
<i>olea capensis</i>	59	98.33	5.11	808	215.47	14.85	1.63	2.01
<i>Olea welwitschii</i> (Knobl.) Gilg & Schellenb.	52	86.67	4.50	178	47.47	3.27	26.87	33.25
<i>Oxyanthus speciosus</i> DC.	52	86.67	4.50	249	66.40	4.58	1.10	1.36
<i>Pavetta abyssinica</i>	1	1.67	0.09	2	0.53	0.04	0.0005	0.001
<i>Phonix reclinata</i>	24	40.00	2.08	98	26.13	1.80	1.35	1.67
<i>Pittosporum viridiflorum</i> Sims	17	28.33	1.47	20	5.33	0.37	0.06	0.08
<i>Polyscias fulva</i> (Hiern) Harms	16	26.67	1.39	22	5.87	0.40	1.82	2.25
<i>Pouteria adolfi-friederici</i> (Engl.) Baehni	11	18.33	0.95	22	5.87	0.40	0.36	0.44
<i>Premna schimperi</i>	1	1.67	0.09	2	0.53	0.04	0.01	0.01
<i>Prunus Africana</i>	8	13.33	0.69	12	3.20	0.22	0.66	0.81
<i>Psychotria orophila</i> Petit	8	13.33	0.69	10	2.67	0.18	0.004	0.004
<i>Rhamnus prinoides</i>	1	1.67	0.09	1	0.27	0.02	0.003	0.004
<i>Rothmannia urcelliformis</i> (Hiern) Robyns	34	56.67	2.94	68	18.13	1.25	0.14	0.17
<i>Rytignia neglecta</i> (Hirn) Robyns	24	40.00	2.08	88	23.47	1.62	0.20	0.24
<i>Sapium ellipticum</i> (Krauss) Pax	26	43.33	2.25	45	12.00	0.83	4.49	5.55
<i>Schefflera abyssinica</i>	28	46.67	2.42	51	13.60	0.94	11.66	14.43
<i>Syzygium guineense</i> (Willd.) DC.	53	88.33	4.59	234	62.40	4.30	9.72	12.03
<i>Teclea nobilis</i> Del.	24	40.00	2.08	96	25.60	1.76	0.18	0.22
<i>Tiliacora troupinii</i> Cuf.	2	3.33	0.17	3	0.80	0.06	0.02	0.02
<i>Trema orientalis</i> (uffo)	2	3.33	0.17	2	0.53	0.04	0.01	0.01
<i>Vepris dainellii</i> (Pich.-Serm.) Kokwaro	57	95.00	4.94	575	153.33	10.57	1.30	1.61

Species name	occurrence	frequency	Relative frequency	No of individuals	Density	Relative Density	BA in sqm/h	R DO (RBA)
<i>Vernonia amgdalina</i>	1	1.67	0.09	1	0.27	0.02	0.01	0.01
<i>Vernonia auriculifera</i>	1	1.67	0.09	3	0.80	0.06	0.01	0.01
		1918.33		<b>5416</b>	1444.27		80.70	99.88

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Additional file 2 data used to calculate Importance Value Index (IVI)

Species name	Relative Density	Relative frequency	Relative dominance	IVI	% IVI
<i>Alangium chinense (Lour) Harms</i>	0.11	0.09	0.04	0.24	0.08
<i>Albizia gummifera</i>	0.28	1.21	0.16	1.64	0.55
<i>Albizia Schimperiana</i>	0.04	0.17	0.03	0.24	0.08
<i>Allophylus abyssinica</i>	0.74	1.65	0.23	2.61	0.87
<i>Apodytes dimidiata E. Mey. ex Arn</i>	0.46	1.30	1.04	2.79	0.93
<i>Bersama abyssinica Fresen.</i>	2.70	3.90	1.04	7.63	2.55
<i>Buddleja polystachya</i>	0.29	0.09	0.22	0.60	0.20
<i>Canthium oligocarpum Hiern</i>	1.69	3.12	0.82	5.62	1.88
<i>Cassipourea malosana (Baker)</i>	0.11	0.26	0.01	0.38	0.13
<i>Celtis africana</i>	0.18	0.61	0.31	1.10	0.37
<i>Clausena anisata</i>	0.18	0.69	0.02	0.89	0.30
<i>Clematis semensis</i>	0.04	0.17	0.00	0.21	0.07
<i>Coffea arbica</i>	4.08	3.38	0.24	7.70	2.57
<i>Cordia africana</i>	0.09	0.43	0.11	0.63	0.21
<i>Croton macostachys</i>	0.81	1.13	0.95	2.88	0.96
<i>Cyathea manniana Hook.</i>	2.15	0.52	0.54	3.21	1.07
<i>Dalbergia alata</i>	0.09	0.26	0.004	0.36	0.12
<i>Dombeya torrida</i>	0.04	0.09	0.14	0.27	0.09
<i>Dracaena steudneri Sw.ex Engl.</i>	0.66	1.65	0.52	2.83	0.94
<i>Dracena afromontana</i>	3.38	2.25	0.68	6.31	2.11
<i>Ehretia cymosa</i>	0.33	0.78	0.10	1.21	0.40
<i>Ekebergia capensis</i>	0.02	0.09	0.14	0.24	0.08
<i>Elaeodendron buchananii {Loes.} Loes,</i>	12.19	4.33	6.21	22.73	7.59
<i>Erythrococca trichogyne</i>	0.59	1.39	0.10	2.08	0.69
<i>Euphorbia ampiliphyla</i>	0.04	0.17	0.32	0.53	0.18
<i>Fragaropsis angolensis</i>	0.51	1.39	0.43	2.33	0.78
<i>Ficus sur</i>	0.97	1.82	1.35	4.15	1.38
<i>Flacourtia indica</i>	0.24	0.61	0.05	0.90	0.30
<i>Gallinaria saxifraga</i>	1.82	3.64	0.31	5.76	1.92
<i>Hippocartes pallens</i>	1.05	2.25	0.10	3.40	1.13
<i>Illex mitis</i>	2.02	1.82	1.97	5.81	1.94
<i>Landolphia buchanani</i>	2.13	3.03	0.27	5.44	1.82
<i>Lepidagathis glandulosa Hochst. ex Nees</i>	0.28	0.87	0.02	1.16	0.39
<i>Lepidotrichilia volkensii (Gurke) Leory</i>	1.91	2.16	0.43	4.51	1.51
<i>Macaranga capensis (Baill.) Sim</i>	1.51	1.56	0.91	3.98	1.33
<i>Masea lanceolata</i>	1.05	0.43	0.45	1.93	0.64

Species name	Relative Density	Relative frequency	Relative dominance	IVI	% IVI
<i>Maytenus gracilipes</i> (Welw.ex Oliv.) Exell	1.18	1.56	0.09	2.82	0.94
<i>Millettia ferruginea</i> (Hochst.) Baker	5.33	3.55	2.21	11.09	3.70
<i>Ocotea kenyensis</i> (Chiov.) Robyns & Wilcz	0.86	1.82	1.26	3.94	1.32
<i>Olea capensis</i>	14.85	5.11	2.01	21.97	7.34
<i>Olea welwitschii</i> (Knobl.) Gilg & Schellenb.	3.27	4.50	33.25	41.03	13.70
<i>Oxyanthus speciosus</i> DC.	4.58	4.50	1.36	10.44	3.49
<i>Pavetta abyssinica</i>	0.04	0.09	0.001	0.12	0.04
<i>Phonix reclinata</i>	1.80	2.08	1.67	5.55	1.85
<i>Pittosporum viridiflorum</i> Sims	0.37	1.47	0.08	1.92	0.64
<i>Polyscias fulva</i> (Hiern) Harms	0.40	1.39	2.25	4.04	1.35
<i>Pouteria adolfi-friederici</i> (Engl.) Baehni	0.39	0.95	0.44	1.78	0.59
<i>Premna schimperii</i>	0.04	0.09	0.01	0.13	0.04
<i>Prunus africana</i>	0.22	0.69	0.81	1.72	0.58
<i>Psychotria orophila</i> Petit	0.18	0.69	0.004	0.88	0.29
<i>Rhamnus prinoides</i>	0.02	0.09	0.004	0.11	0.04
<i>Rothmannia urcelliformis</i> (Hiern) Robyns	1.25	2.94	0.17	4.37	1.46
<i>Rytignia neglecta</i> (Hirn) Robyns	1.62	2.08	0.24	3.94	1.32
<i>Sapium ellipticum</i> (Krauss) Pax	0.83	2.25	5.55	8.63	2.88
<i>Schefflera abyssinica</i>	0.94	2.42	14.43	17.79	5.94
<i>Syzygium guineense</i> (Willd.) DC.	4.30	4.59	12.03	20.92	6.99
<i>Teclea nobilis</i> Del.	1.76	2.08	0.22	4.06	1.36
<i>Tiliacora troupinii</i> Cuf.	0.06	0.17	0.02	0.25	0.08
<i>Trema orientalis</i> (uffo)	0.04	0.17	0.01	0.22	0.07
<i>Vepris dainellii</i> (Pich.-Serm.) Kokwaro	10.57	4.94	1.61	17.11	5.71
<i>Vernonia amgdalina</i>	0.02	0.09	0.01	0.12	0.04
<i>Vernonia auriculifera</i>	0.06	0.09	0.01	0.15	0.05

Additional file 3 data used to determine regeneration status and priority class for conservation

Species name	Seedling /ha	sapling/ ha	Tree/ shrub/ ha	Total	Regeneration Status
<i>Alangium chinense</i> (Lour) Harms	0	0	1	1	good
<i>Albizia gummifera</i>	140	55	4	199	good
<i>Allophylus abyssinica</i>	71	28	10	108	good
<i>Apodytes dimidiata</i> E. Mey. ex Arn	40	24	4	68	good
<i>Bersama abyssinica</i> Fresen.	120	80	40	240	good
<i>Buddleja polystachya</i>	8	0	4	12	Fair
<i>Canthium oligocarpum</i> Hiern	120	52	26	198	good
<i>Cassipourea malosana</i> (Baker)	7	4	2	13	good
<i>Celtis africana</i>	19	7	3	29	good
<i>Clausena anisate</i>	95	47	12	154	good
<i>Coffea arabica</i>	220	156	57	433	good
<i>Cordia Africana</i>	0	0	2	2	No regeneration
<i>Croton macostachys</i>	69	30	9	107	good
<i>Cyathea manniana</i> Hook.	0	0	30	30	Fair
<i>Dombeya torrida</i>	3	1	0.5	4	good
<i>Dracaena steudneri</i> Scw.ex Engl.	72	26	14	112	good
<i>Dracena afromontana</i>	30	45	48	123	good
<i>Ehretia cymosa</i>	28	10	5	43	good
<i>Ekebergia capensis</i>	0	0	0.3	0	No regeneration
<i>Elaeodendron buchananii</i>	250	162	178	589	Fair
<i>Erythrococca trichogyne</i>	3	2	9	14	good
<i>Euphorbia ampiliphyla</i>	2	0	2	4	No regeneration
<i>Fagraopsis angolensis</i>	2	0	9	11	good
<i>Ficus sur</i>	3	6	25	34	fair
<i>Flacourtia indica</i>	0	10	4	14	poor
<i>Gallinaria saxifraga</i>	159	70	24	253	good
<i>Illex mitis</i>	107	43	28	178	good
<i>Lepidotrichilia volkensii</i> (Gurke) Leory	115	52	24	191	good
<i>Macaranga capensis</i> (Baill.) Sim	80	36	20	136	good
<i>Masea lanceolata</i>	40	32	14	86	good
<i>Maytenus gracilipes</i> (Welw.ex Oliv.) Exell	150	144	21	315	good
<i>Millettia ferruginea</i> (Hochst.) Baker	170	90	81	341	good
<i>Ocotea kenyensis</i> (Chiov.) Robyns & Wilcz	5	6	13	24	good
<i>Olea capensis</i>	250	206	204	660	good
<i>Olea welwitschii</i> (Knobl.) Gilg & Schellenb.	12	15	49	76	good
<i>Oxyanthus speciosus</i> DC.	159	65	109	333	good

<i>Phonix reclinata</i>	240	60	26	326	good
<i>Pittosporum viridiflorum</i> Sims	6	4	2	12	good
<i>Polyscias fulva</i> (Hiern) Harms	2	8	6	16	good
<i>Pouteria adolfi-friederici</i> (Engl.) Baehni	15	10	9	34	good
<i>Premna schimperi</i>	2	0	1	2	good
<i>Prunus Africana</i>	18	7	3	29	good
<i>Psychotria orophila</i> Petit	60	40	28	128	good
<i>Rhamnus prinoides</i>	3	0	1	3	good
<i>Rothmannia urcelliformis</i> (Hiern) Robyns	32	22	21	75	good
<i>Rytignia neglecta</i> (Hirn) Robyns	30	25	23	78	good
<i>Sapium ellipticum</i> (Krauss) Pax	10	12	14	36	good
<i>Schefflera abyssinica</i>	0	0	20	20	No regeneration
<i>Syzygium guineense</i> (Willd.) DC.	120	60	65	245	good
<i>Teclea nobilis</i> Del.	40	30	25	95	good
<i>Trema orientalis</i> (uffo)	2	0	0.3	2	good
<i>Vepris dainellii</i> (Pich.-Serm.) Kokwaro	235	101	155	491	good
<i>Vernonia amgdalina</i>	1.1	1	0.3	2	good
<i>Vernonia auriculifera</i>	14	4	1	19	good