Table 1: Species-specific allometric models selected from best fit predictor variables (x.var) used to estimate biomass

Species	Location	x.var§	n	r^2	$log(a)^{\dagger}$	b [†]	σ^{\dagger}	LC^{\dagger}	UC^{\dagger}	MSE	Duan [‡]	MB*
Aloe speciosa	Kirkwood	CA.SL	22	0.85	-13.31	1.10	0.72	0.30	3.36	0.47	1.22	1.08
Aloe striata	Darlington	Hgt	15	0.74	-6.53	1.79	0.80	0.26	3.85	0.55	1.26	1.12
Asparagus capensis	Darlington	CD	16	0.85	-12.07	2.33	0.55	0.40	2.50	0.26	1.12	1.07
Azima tetracantha	Kirkwood	CA.H	11	0.95	-15.63	1.15	0.36	0.55	1.81	0.10	1.05	1.02
Blepharis capensis $^{\nabla}$	Kirkwood	CA.H	5	1.00	-11.36	0.78	0.18	0.75	1.34	0.02	1.01	1.01
Boscia oleoides	Kirkwood	CA.H	14	0.81	-18.89	1.33	0.39	0.52	1.91	0.13	1.07	1.01
Brachylaena ilicifolia	Kirkwood	$\mathrm{CD.H}$	13	0.96	-17.13	1.79	0.28	0.63	1.58	0.06	1.04	1.01
Capparis sepiaria	Kirkwood	CD	11	0.89	-10.48	2.40	0.40	0.52	1.94	0.13	1.07	1.02
Carissa haematocarpa	Kirkwood	Hgt	8	0.93	-15.86	3.75	0.33	0.58	1.72	0.08	1.04	1.01
Cotyledon velutina	Kirkwood	CD	8	0.83	-7.88	2.17	0.37	0.54	1.84	0.10	1.05	1.01
Crassula mesembryanthemoides	Darlington	CD	14	0.75	-7.62	1.62	0.42	0.49	2.02	0.15	1.08	1.05
Crassula muscosa	Darlington	CA.H	17	0.97	-9.71	0.77	0.26	0.66	1.53	0.06	1.03	1.03
Crassula ovata ∇	Cambria	$\mathrm{CD.H}$	21	0.87	-14.92	1.62	0.90	0.21	4.65	0.74	1.30	1.16
Crassula perforata	Darlington	$\mathrm{CD.H}$	14	0.98	-10.65	1.27	0.25	0.67	1.50	0.05	1.03	1.03
Drosanthemum lique	Calitzdorp	CD	5	0.93	-13.59	3.05	0.52	0.42	2.38	0.16	1.09	1.02
Ehretia rigida	Kirkwood	$\mathrm{CD.H}$	8	0.99	-13.18	1.43	0.13	0.81	1.24	0.01	1.01	1.01
Euclea undulata	Kirkwood	CD	22	0.95	-11.28	2.60	0.42	0.50	2.01	0.16	1.10	1.06
Euphorbia coerulescens	Jansenville	CA.H	15	0.97	-8.95	0.88	0.40	0.52	1.93	0.14	1.07	1.06
Euphorbia mauritanica	Calitzdorp	$\mathrm{CD.H}$	10	0.60	-10.06	1.17	0.64	0.34	2.95	0.33	1.19	1.01
Euphorbia triangularis	Kirkwood	Hgt	22	0.98	-15.19	3.18	0.35	0.56	1.79	0.11	1.05	1.04
Galenia filiformis	Calitzdorp	CD	6	0.74	-12.27	2.52	0.58	0.38	2.63	0.22	1.11	1.01
Grewia robusta	Kirkwood	CD	16	0.91	-11.87	2.66	0.35	0.56	1.78	0.11	1.06	1.02
Gymnosporia polyacantha	Kirkwood	CA.H	15	0.99	-15.41	1.14	0.30	0.61	1.64	0.08	1.04	1.03
Jathropa capensis	Kirkwood	CA.H	4	0.72	-13.23	0.97	0.48	0.45	2.22	0.12	1.06	1.00
Lycium cinereum	Calitzdorp	$\mathrm{CD.H}$	8	0.95	-9.18	1.04	0.30	0.61	1.65	0.07	1.03	1.02
Lycium ferocissimum [▽]	Cambria	$\mathrm{CD.H}$	24	0.66	-7.48	0.85	0.77	0.27	3.68	0.54	1.26	1.10
Malephora lutea	Calitzdorp	CA.H	9	0.93	-7.47	0.67	0.31	0.60	1.66	0.07	1.04	1.03
Mesembryanthemum guerichianum	Pearston	Hgt	3	0.98	-7.46	1.73	0.08	0.87	1.15	0.00	1.00	1.00
Panicum maximum [▽]	Kirkwood	CD	8	0.85	-12.34	2.42	0.55	0.40	2.49	0.22	1.11	1.03
Pappea capensis	Kirkwood	CD	20	0.98	-12.07	2.79	0.27	0.64	1.56	0.07	1.03	1.03
Plumbago auriculata [▽]	Cambria	$\mathrm{CD.H}$	21	0.80	-14.03	1.47	0.64	0.34	2.91	0.37	1.26	1.05
Portulacaria afra	Kirkwood	CA.H	42	0.94	-11.15	0.94	0.58	0.38	2.65	0.33	1.15	1.13
Psilocaulon junceum	Calitzdorp	CD	8	0.96	-10.21	2.28	0.36	0.55	1.82	0.10	1.05	1.04
Ptaeroxylon obliquum	Kirkwood	$\mathrm{CD.H}$	20	0.98	-18.06	1.87	0.48	0.45	2.23	0.21	1.12	1.07
Pteronia incana	Calitzdorp	CA.H	6	0.95	-11.68	0.94	0.44	0.48	2.08	0.13	1.07	1.03

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Table 1: Species-specific allometric models selected from best fit predictor variables (x.var) used to estimate biomass

Species	Location	x.var§	n	r^2	$log(a)^{\dagger}$	b [†]	σ^{\dagger}	LC^{\dagger}	UC^\dagger	MSE	Duan [‡]	MB*
Putterlickia pyracantha	Kirkwood	CA.H	15	0.78	-7.90	0.66	0.79	0.26	3.80	0.54	1.40	1.10
Rhigozum obovatum	Oudtshoorn	CA.H	8	0.90	-12.39	0.94	0.53	0.41	2.43	0.21	1.14	1.03
Ruschia multiflora	Calitzdorp	CA.H	6	0.90	-7.43	0.58	0.30	0.61	1.63	0.06	1.03	1.01
Schotia afra	Kirkwood	CA.H	19	0.93	-14.34	1.08	0.61	0.36	2.78	0.34	1.14	1.08
Vachellia karoo [▽]	Cambria	CA.H	15	0.97	-20.91	1.35	0.33	0.58	1.72	0.09	1.05	1.02

[§] Predictor variable where Hgt/H = plant height (cm), CD = mean crown diameter, CD.H = CD.Hgt, CA.H = $\pi . (\frac{CD}{2})^2 .H$, SL = stem length up to base of rosette for *Aloe speciosa*, BSD = basal stem diameter, BSA = basal stem area.

[†] To get an individual estimate use the power function $y_n = ax^b$ and substitute a = exp(log(a)) and b. This estimate, naive y (y_n) , can be corrected following Zou et al. (2009) and nickless2011method to derive corrected y_c with $y_c = exp(ln(y_n) + \frac{\sigma^2}{2})$. The Lower (LC) and Upper confidence limits (UC) can be obtained by multiplying Y_c with the tabled LC and UC values.

[‡] Duan (1983)'s Smearing Estimate correction factor to arrive at $y_c = y_n \cdot c f_{duan}$.

^{* (}Shen et al. 2008)'s Minimum Bias (MB) correction factor to arrive at $y_c = y_n.cf_{MB}$.

[∇] Models are based on dry weight instead of freshly felled weight (no need for applying a dry:wet ratio).

Table 2: Parameters of all allometric models developed for common species within spekboom thicket and adjacent vegetation.

Aloe speciosa Kirkwood BSD 22 0.74 -8.28 2.08 0.95 0.20 5.04 0.81 1.39 1.15 Aloe speciosa Kirkwood CD.SL 22 0.83 -12.05 0.40 0.70 0.70 0.70 0.70 0.70 0.70 0.70	Species	Location	x.var§	n	r^2	$log(a)^{\dagger}$	b [†]	σ^{\dagger}	LC^{\dagger}	UC^{\dagger}	MSE	Duan [‡]	MB*
Aloe speciosa Kirkwood CD.S.L 22 0.79 -6.05 1.93 0.86 0.23 4.30 0.67 1.40 1.20 1.00 Aloe speciosa Kirkwood CD.S.L 22 0.85 -13.31 1.00 0.76 0.76 0.76 0.73 0.364 0.53 1.24 1.00 Aloe speciosa Kirkwood CD.S.L 22 0.85 -13.31 1.10 0.72 0.30 3.36 0.47 1.22 1.08 Aloe speciosa Kirkwood Kirkwood CA 22 0.81 -15.55 1.97 0.80 0.26 3.90 0.59 1.34 1.00 Aloe speciosa Kirkwood BSDa 22 0.79 -6.75 0.67 0.86 0.23 4.29 0.67 1.36 1.18 Aloe striata Darlington Ingt 15 0.74 0.653 0.79 0.80 0.26 3.85 0.55 1.26 1.12 Aloe striata Darlington CD.H 15 0.60 0.60 0.80 0.20 0.88 0.25 0.85 0.82 1.24 1.12 Aloe striata Darlington CD.H 15 0.71 0.80 0.80 0.80 0.80 0.80 0.82 0.82 0.82	Aloe speciosa	Kirkwood		22	0.81	-16.02	3.93	0.80	0.26	3.90	0.59	1.34	1.06
Aloe speciosa Kirkwood CA.SL 22 0.83 -12.05 1.47 0.76 0.27 3.64 0.53 1.24 1.09 Aloe speciosa Kirkwood CA.SL 22 0.85 -13.31 1.10 0.72 0.30 3.36 0.47 1.22 1.08 Aloe speciosa Kirkwood CA.SL 22 0.81 -15.55 1.97 0.80 0.26 3.36 0.47 1.22 1.08 Aloe speciosa Kirkwood BSDa C.SL 22 0.79 -5.82 0.97 0.86 0.23 4.29 0.67 1.40 1.20 Aloe speciosa Kirkwood BSDa.SL 22 0.79 -6.77 0.67 0.86 0.23 4.29 0.67 1.40 1.20 Aloe speciosa Kirkwood BSDa.SL 22 0.79 -6.77 0.67 0.86 0.23 4.29 0.67 1.36 1.18 Aloe striata Darlington Hgt 15 0.74 -6.33 1.79 0.80 0.26 3.85 0.55 1.26 1.12 Aloe striata Darlington CD.H 15 0.71 -6.83 0.79 0.84 0.24 4.16 0.61 1.31 1.12 Aloe striata Darlington CD.H 15 0.68 -6.30 0.67 0.87 0.23 4.43 0.66 1.34 1.12 Aloe striata Darlington CD.H 15 0.71 -6.83 0.99 0.84 0.24 4.16 0.61 1.31 1.12 Aloe striata Darlington CD.H 15 0.68 -6.63 0.67 0.87 0.23 4.43 0.66 1.34 1.12 Asparagus capensis Darlington CD.H 16 0.85 1.20 0.70 1.34 0.09 1.81 1.57 2.84 1.09 Asparagus capensis Darlington CD.H 16 0.85 1.20 0.70 1.34 0.09 1.81 1.57 2.84 1.09 Asparagus capensis Darlington CD.H 16 0.84 1.20 1.33 0.86 0.23 4.31 0.65 1.12 1.07 Asparagus capensis Darlington CD.H 16 0.84 1.20 1.33 0.86 0.33 4.31 0.65 1.12 1.07 Asparagus capensis Darlington CD.H 16 0.84 1.20 1.33 0.86 0.34 4.31 0.65 1.12 1.07 Asparagus capensis Darlington CD.H 16 0.84 1.20 1.33 0.86 0.23 4.31 0.65 1.12 1.07 Asparagus capensis Darlington CD.H 16 0.84 1.20 1.20 0.84 0.24 1.14 0.42 1.12 0.10 Azima tetracantha Kirkwood Hgt 11 0.54 1.23 0.29 1.05 0.69 0.32 1.05 0.10 0.10 1.05 1.02 Azima tetracantha Kirkwood CD.H 17 0.92 1.130 0.90 1.05 0.48 0.21 0.14 1.04 0.10 1.05 1.02 Azima tetracantha Kirkwood CD.H 17 0.92 1.130 0.80 0.55 1.81 0.10 1.05 1.02 Blepharis capensis Kirkwood CD.H 17 0.92 1.130 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0.	Aloe speciosa	Kirkwood			0.74	-8.28	2.08	0.95	0.20	5.04	0.81	1.39	1.15
Aloe speciosa Kirkwood CA SL 22 0.85 -13.31 1.10 0.72 0.30 3.36 0.47 1.22 1.08 Aloe speciosa Kirkwood CA 22 0.81 -15.55 1.97 0.80 0.26 3.90 0.59 1.34 1.07 Moe speciosa Kirkwood BSDa 22 0.79 -5.82 0.97 0.86 0.23 4.90 0.67 1.34 1.07 Aloe speciosa Kirkwood BSDa 22 0.79 -5.82 0.97 0.86 0.23 4.29 0.67 1.36 1.18 Aloe striata Darlington Hgt 15 0.74 -6.53 1.79 0.80 0.26 3.85 0.55 1.26 1.12 Aloe striata Darlington CD 15 0.60 -6.40 1.98 0.98 0.19 5.33 0.82 1.42 1.12 Aloe striata Darlington CD 15 0.60 -6.40 1.98 0.98 0.19 5.33 0.82 1.42 1.12 Aloe striata Darlington CD.H 15 0.74 -6.83 0.99 0.84 0.24 4.16 0.61 1.31 1.12 Aloe striata Darlington CA.H 15 0.88 -6.63 0.67 0.87 0.23 4.43 0.66 1.34 1.12 Aloe striata Darlington CD.H 15 0.12 -6.50 1.07 1.34 0.09 10.81 1.57 2.84 1.09 Asparagus capensis Darlington CD.H 16 0.85 1.20 0.25 0.26 1.12 1.07 Asparagus capensis Darlington CD.H 16 0.85 1.20 0.23 0.55 0.40 0.25 0.26 1.12 1.07 Asparagus capensis Darlington CD.H 16 0.64 1.29 0.33 0.55 0.40 0.25 0.26 1.12 1.07 Asparagus capensis Darlington CD.H 16 0.64 1.29 0.33 0.55 0.40 0.25 0.26 1.12 1.07 Asparagus capensis Darlington CD.H 16 0.64 1.29 0.33 0.55 0.40 0.25 0.26 1.12 1.07 Asparagus capensis Darlington CD.H 16 0.64 1.29 0.40 0.50 0.32 0.31 0.65 1.82 1.06 Asparagus capensis Darlington CD.H 17 0.54 1.23 0.55 0.40 0.25 0.26 0.11 0.00 0.20 0.20 0.20 0.20 0.20 0.20	Aloe speciosa	Kirkwood	BSD	22	0.79	-6.05	1.93	0.86	0.23	4.30	0.67	1.40	1.20
Aloe speciosa Kirkwood BSDa. 22 0.81 -15.55 1.97 0.80 0.26 0.39 0.59 1.34 1.07 Aloe speciosa Kirkwood BSDa. 22 0.79 -5.82 0.97 0.66 0.23 4.30 0.67 1.40 1.20 Aloe speciosa Kirkwood BSDa.SL 22 0.79 -5.82 0.77 0.67 0.68 0.23 4.30 0.67 1.40 1.20 Aloe speciosa Kirkwood BSDa.SL 22 0.79 -6.77 0.67 0.68 0.23 4.30 0.67 1.36 1.32 1.22 Aloe striata Darlington PHgt 15 0.74 -6.53 1.79 0.60 0.86 0.23 4.30 0.67 1.36 1.32 1.22 Aloe striata Darlington CD 15 0.60 -6.40 1.98 0.98 0.19 5.33 0.82 1.42 1.12 Aloe striata Darlington CD 15 0.60 -6.40 1.98 0.98 0.19 5.33 0.82 1.42 1.12 Aloe striata Darlington CD 1.5 0.68 -6.63 0.67 0.87 0.87 0.23 4.43 0.66 1.34 1.12 Aloe striata Darlington PHgt 16 0.64 -12.92 1.33 0.65 0.67 0.87 0.23 4.43 0.66 1.34 1.12 Asparagus capensis Darlington CD 16 0.85 -12.07 2.33 0.55 0.40 2.50 0.26 1.12 1.07 Asparagus capensis Darlington CD 1.66 0.85 -12.07 2.33 0.55 0.40 2.50 0.26 1.12 1.07 Asparagus capensis Darlington CD 1.66 0.64 -12.92 1.33 0.86 0.23 4.31 0.65 1.82 1.06 Asparagus capensis Darlington CD 1.66 0.64 -12.92 1.33 0.86 0.23 4.31 0.65 1.82 1.06 Asparagus capensis Darlington CD 1.66 0.64 -12.92 1.33 0.86 0.23 4.31 0.65 1.82 1.06 Asparagus capensis Darlington CD 1.66 0.64 -12.92 1.33 0.86 0.23 4.31 0.65 1.82 1.06 Asparagus capensis Darlington CD 1.66 0.64 -12.92 1.33 0.86 0.23 4.31 0.65 1.82 1.06 Asparagus capensis Darlington CD 1.66 0.64 -12.92 1.33 0.86 0.23 4.31 0.65 1.82 1.06 Asparagus capensis Darlington CD 1.66 0.64 -12.92 1.33 0.86 0.23 4.31 0.65 1.82 1.06 Asparagus capensis Darlington CD 1.66 0.64 -12.92 1.33 0.86 0.23 4.31 0.65 1.82 1.06 Asparagus capensis Darlington CD 1.06 0.64 -12.92 1.33 0.86 0.23 4.31 0.65 1.82 1.06 Asparagus capensis Darlington CD 1.07 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0	Aloe speciosa	Kirkwood	CD.SL		0.83	-12.05	1.47	0.76	0.27	3.64	0.53	1.24	1.09
Aloe speciosa Kirkwood BSDa 22 0.79 -5.82 0.97 0.86 0.23 4.30 0.67 1.40 1.20 Aloe speciosa Kirkwood BSDa.SL 22 0.79 -6.77 0.67 0.86 0.23 4.29 0.67 1.36 1.18 Aloe striata Darlington Hgt 15 0.74 -6.53 1.79 0.80 0.26 3.85 0.55 1.26 1.18 Aloe striata Darlington CD 15 0.60 -6.40 1.98 0.98 0.19 5.33 0.82 1.42 1.12 Aloe striata Darlington CD 15 0.60 -6.40 1.98 0.98 0.19 5.33 0.82 1.42 1.12 Aloe striata Darlington CD.H 15 0.60 -6.40 1.98 0.98 0.19 5.33 0.82 1.42 1.12 Aloe striata Darlington CD.H 15 0.68 -6.63 0.67 0.87 0.23 4.43 0.66 1.31 1.12 Aloe striata Darlington CD.H 15 0.68 -6.63 0.67 0.87 0.23 4.43 0.66 1.31 1.12 Aloe striata Darlington Bgt 16 0.12 -6.50 1.07 1.34 0.09 10.81 1.57 2.84 1.09 Asparagus capensis Darlington CD.H 16 0.12 -6.50 1.07 1.34 0.09 10.81 1.57 2.84 1.09 Asparagus capensis Darlington CD.H 16 0.85 1-2.07 2.33 0.55 0.40 2.50 0.26 1.12 1.07 Asparagus capensis Darlington CD.H 16 0.77 1.31 0.91 0.69 0.32 3.16 0.41 1.33 1.06 Azima tetracantha Kirkwood Hgt 11 0.54 1-2.39 2.98 1.05 0.16 6.15 0.91 1.60 1.02 Azima tetracantha Kirkwood CD 11 0.92 1-13.05 2.98 1.05 0.16 6.15 0.91 1.60 1.02 Azima tetracantha Kirkwood CD.H 11 0.91 -16.71 1.82 0.45 0.47 2.12 0.16 1.05 1.02 Azima tetracantha Kirkwood CD.H 11 0.95 1-15.63 1.15 0.36 0.55 1.81 0.10 1.05 1.02 Azima tetracantha Kirkwood CD.H 15 0.99 1.15.77 1.34 0.94 0.44 1.45 0.42 1.19 1.03 Blepharis capensis Kirkwood CD.H 5 0.99 1.15.77 1.34 0.94 0.67 1.35 0.02 1.01 1.01 Blepharis capensis Kirkwood CD.H 5 0.99 1.15.77 1.34 0.94 0.67 0.32 3.16 0.41 1.10 1.05 1.02 Blepharis capensis Kirkwood CD.H 14 0.79 -21.08 1.15 0.36 0.55 1.81 0.10 1.01 1.05 1.02 Blepharis capensis Kirkwood CD.H 14 0.79 -21.08 1.15 0.36 0.55 1.81 0.10 1.01 1.05 1.02 Blepharis capensis Kirkwood CD.H 14 0.79 -21.08 1.35 0.49 0.49 0.49 0.55 0.41 1.09 1.01 1.05 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02	Aloe speciosa	Kirkwood	CA.SL		0.85	-13.31	1.10	0.72	0.30	3.36	0.47	1.22	1.08
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$Aloe\ speciosa$	Kirkwood	CA	22	0.81	-15.55	1.97	0.80	0.26	3.90	0.59	1.34	1.07
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Aloe speciosa	Kirkwood	BSDa		0.79	-5.82	0.97	0.86	0.23	4.30	0.67	1.40	1.20
Aloe striata Darlington CD 15 0.60 -6.40 1.98 0.98 0.19 5.33 0.82 1.42 1.12 Aloe striata Darlington CD.H 15 0.71 -6.83 0.99 0.84 0.24 4.16 0.61 1.31 1.12 Asparagus capensis Darlington Hgt 16 0.12 -6.63 0.67 0.87 0.23 4.43 0.66 1.34 1.12 Asparagus capensis Darlington CD 16 0.85 -12.07 2.33 0.55 0.40 2.50 0.26 1.12 1.07 Asparagus capensis Darlington CD.H 16 0.64 -12.92 1.33 0.86 0.23 4.31 0.65 1.82 1.06 Azima tetracantha Kirkwood Hgt 11 0.54 -12.39 2.98 1.05 0.16 6.15 0.91 1.60 1.02 Azima tetracantha Kirkwood CD.H 11	$Aloe\ speciosa$	Kirkwood	BSDa.SL	22	0.79	-6.77	0.67	0.86	0.23	4.29	0.67	1.36	1.18
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$Aloe\ striata$	Darlington	Hgt	15	0.74	-6.53	1.79	0.80	0.26	3.85	0.55	1.26	1.12
Aloe striata Darlington CA.H 15 0.68 -6.63 0.67 0.23 4.43 0.66 1.34 1.12 Asparagus capensis Darlington Hgt 16 0.12 -6.50 1.07 1.34 0.09 10.81 1.57 2.84 1.09 Asparagus capensis Darlington CD.H 16 0.85 -12.07 2.33 0.55 0.40 2.50 0.26 1.12 1.07 Asparagus capensis Darlington CA.H 16 0.64 -12.92 1.33 0.86 0.23 3.16 0.41 1.33 1.06 Azima tetracantha Kirkwood CD 11 0.92 -13.02 2.84 0.45 0.48 2.10 0.41 1.33 1.06 Azima tetracantha Kirkwood CD.H 11 0.92 -13.02 2.84 0.45 0.42 2.12 0.16 1.09 1.02 Azima tetracantha Kirkwood CD.H 11 0.92 </td <td>$Aloe\ striata$</td> <td>Darlington</td> <td>$^{\mathrm{CD}}$</td> <td>15</td> <td>0.60</td> <td>-6.40</td> <td>1.98</td> <td>0.98</td> <td>0.19</td> <td>5.33</td> <td>0.82</td> <td>1.42</td> <td>1.12</td>	$Aloe\ striata$	Darlington	$^{\mathrm{CD}}$	15	0.60	-6.40	1.98	0.98	0.19	5.33	0.82	1.42	1.12
Asparagus capensis Darlington Hgt 16 0.12 -6.50 1.07 1.34 0.09 10.81 1.57 2.84 1.09 Asparagus capensis Darlington CD 16 0.85 -12.07 2.33 0.55 0.40 2.50 0.26 1.12 1.07 Asparagus capensis Darlington CD.H 16 0.64 -12.92 1.33 0.06 0.23 3.16 0.41 1.33 1.06 Asparagus capensis Darlington CD.H 16 0.77 -13.15 0.91 0.69 0.32 3.16 0.41 1.33 1.06 Azima tetracantha Kirkwood CD 11 0.92 -13.02 2.84 0.45 0.48 2.10 0.16 1.09 1.02 Azima tetracantha Kirkwood CD.H 11 0.92 -13.02 2.84 0.45 0.47 2.12 0.17 1.08 1.02 Azima tetracantha Kirkwood CD.H 11 0.92 -15.63 1.15 0.36 0.55 1.81 0.10	Aloe striata	Darlington	CD.H	15	0.71	-6.83	0.99	0.84	0.24	4.16	0.61	1.31	1.12
$ \begin{array}{c} Asparagus \ capensis \\ Asparagus \ capensis \\ Asparagus \ capensis \\ Darlington \\ CD.H \\ 16 \\ 0.64 \\ -12.92 \\ 1.33 \\ 0.86 \\ 0.23 \\ 0.25 \\ 0.40 \\ 0.25 \\ 0.40 \\ 0.25 \\ 0.40 \\ 0.26 \\ 0.25 \\ 0.41 \\ 0.65 \\ 1.82 \\ 1.06 \\ 0.41 \\ 0.65 \\ 1.82 \\ 1.06 \\ 0.41 \\ 0.65 \\ 1.82 \\ 1.06 \\ 0.40 \\ 0.42 \\ 1.06 \\ 0.41 \\ 0.42 \\ 1.06 \\ 0.41 \\ 0.42 \\ 0.42 \\ 0.45 \\ 0.4$	Aloe striata	Darlington	CA.H	15	0.68	-6.63	0.67	0.87	0.23	4.43	0.66	1.34	1.12
$ \begin{array}{c} Asparagus \ capensis \\ Azima \ tetracantha \\ Azima \ $	Asparagus capensis	Darlington	Hgt	16	0.12	-6.50	1.07	1.34	0.09	10.81	1.57	2.84	1.09
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Asparagus capensis	Darlington	CD	16	0.85	-12.07	2.33	0.55	0.40	2.50	0.26	1.12	1.07
Azima tetracantha Kirkwood Hgt 11 0.54 -12.39 2.98 1.05 0.16 6.15 0.91 1.60 1.02 Azima tetracantha Kirkwood CD 11 0.92 -13.02 2.84 0.45 0.48 2.10 0.16 1.09 1.02 Azima tetracantha Kirkwood CD.H 11 0.91 -16.71 1.82 0.45 0.47 2.12 0.17 1.08 1.02 Azima tetracantha Kirkwood CD.H 11 0.91 -16.71 1.82 0.45 0.47 2.12 0.17 1.08 1.02 Azima tetracantha Kirkwood CA.H 11 0.95 -15.63 1.15 0.36 0.55 1.81 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 <	Asparagus capensis	Darlington	$\mathrm{CD.H}$	16	0.64	-12.92	1.33	0.86	0.23	4.31	0.65	1.82	1.06
Azima tetracantha Kirkwood CD 11 0.92 -13.02 2.84 0.45 0.48 2.10 0.16 1.09 1.02 Azima tetracantha Kirkwood CD.H 11 0.91 -16.71 1.82 0.45 0.47 2.12 0.17 1.08 1.02 Azima tetracantha Kirkwood CA.H 11 0.95 -15.63 1.15 0.36 0.55 1.81 0.10 1.05 1.02 Blepharis capensis ∇ Kirkwood CD 5 1.00 -8.91 1.85 0.18 0.74 1.35 0.02 1.01 1.03 Blepharis capensis ∇ Kirkwood CD.H 5 0.99 -11.57 1.34 0.24 0.67 1.49 0.03 1.02 1.02 Blepharis capensis ∇ Kirkwood CA.H 5 1.00 -11.36 0.78 0.18 0.75 1.34 0.02 1.01 1.01 Boscia oleoides Kirkwood CD.H 14	Asparagus capensis		CA.H	16	0.77	-13.15	0.91	0.69	0.32	3.16	0.41	1.33	1.06
Azima tetracanthaKirkwoodCD.H110.91-16.711.820.450.472.120.171.081.02Azima tetracanthaKirkwoodCA.H110.95-15.631.150.360.551.810.101.051.02Blepharis capensis ∇ KirkwoodHgt50.92-17.344.490.840.244.140.421.191.03Blepharis capensis ∇ KirkwoodCD51.00-8.911.850.180.741.350.021.011.01Blepharis capensis ∇ KirkwoodCD.H50.99-11.571.340.240.671.490.031.021.02Blepharis capensis ∇ KirkwoodCA.H51.00-11.360.780.180.751.340.021.011.01Boscia oleoidesKirkwoodHgt140.41-15.223.340.690.323.160.401.221.00Boscia oleoidesKirkwoodCD.H140.79-21.082.160.410.511.970.141.071.00Boscia oleoidesKirkwoodCA.H140.79-21.082.160.410.511.970.141.071.00Brachylaena ilicifoliaKirkwoodHgt130.95-22.094.480.300.611.630.071.041.01Brachylaena ilicifoliaKirkwoodCD.H13<	Azima tetracantha	Kirkwood	Hgt	11	0.54	-12.39	2.98	1.05	0.16	6.15	0.91	1.60	1.02
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Azima tetracantha	Kirkwood	CD	11	0.92	-13.02	2.84	0.45	0.48	2.10	0.16	1.09	1.02
Blepharis capensis $∇$ Kirkwood Hgt 5 0.92 -17.34 4.49 0.84 0.24 4.14 0.42 1.19 1.03 Blepharis capensis $∇$ Kirkwood CD 5 1.00 -8.91 1.85 0.18 0.74 1.35 0.02 1.01 1.01 Blepharis capensis $∇$ Kirkwood CD.H 5 0.99 -11.57 1.34 0.24 0.67 1.49 0.03 1.02 1.02 Blepharis capensis $∇$ Kirkwood CA.H 5 1.00 -11.36 0.78 0.18 0.75 1.34 0.02 1.01 1.01 Boscia oleoides Kirkwood Hgt 14 0.41 -15.22 3.34 0.69 0.32 3.16 0.40 1.22 1.00 Boscia oleoides Kirkwood CD 14 0.76 -14.16 3.13 0.44 0.48 2.08 0.17 1.09 1.01 Boscia oleoides Kirkwood CD.H 14 0.79 -21.08 2.16 0.41 0.51 1.97 0.14 1.07 1.00 Boscia oleoides Kirkwood CA.H 14 0.81 -18.89 1.33 0.39 0.52 1.91 0.13 1.07 1.01 Brachylaena ilicifolia Kirkwood CD.H 13 0.95 -22.09 4.48 0.30 0.61 1.63 0.07 1.04 1.01 Brachylaena ilicifolia Kirkwood CD.H 13 0.96 -17.13 1.79 0.28 0.63 1.58 0.06 1.04 1.01 Brachylaena ilicifolia Kirkwood CD.H 13 0.94 -15.25 1.10 0.33 0.58 1.72 0.09 1.05 1.02 Capparis sepiaria Kirkwood CD. Hgt 11 0.52 -10.61 2.53 0.82 0.25 4.04 0.55 1.27 1.01 Capparis sepiaria	Azima tetracantha	Kirkwood	CD.H	11	0.91	-16.71	1.82	0.45	0.47	2.12	0.17	1.08	1.02
Blepharis capensis $∇$ Kirkwood CD 5 1.00 -8.91 1.85 0.18 0.74 1.35 0.02 1.01 1.01 Blepharis capensis $∇$ Kirkwood CD.H 5 0.99 -11.57 1.34 0.24 0.67 1.49 0.03 1.02 1.02 Blepharis capensis $∇$ Kirkwood CA.H 5 1.00 -11.36 0.78 0.18 0.75 1.34 0.02 1.01 1.01 Boscia oleoides Kirkwood CB.H 14 0.41 -15.22 3.34 0.69 0.32 3.16 0.40 1.22 1.00 Boscia oleoides Kirkwood CD.H 14 0.76 -14.16 3.13 0.44 0.48 2.08 0.17 1.09 1.01 Boscia oleoides Kirkwood CD.H 14 0.79 -21.08 2.16 0.41 0.51 1.97 0.14 1.07 1.00 Boscia oleoides Kirkwood CA.H 14 0.81 -18.89 1.33 0.39 0.52 1.91 0.13 <th< td=""><td>Azima tetracantha</td><td>Kirkwood</td><td>CA.H</td><td>11</td><td>0.95</td><td>-15.63</td><td>1.15</td><td>0.36</td><td>0.55</td><td>1.81</td><td>0.10</td><td>1.05</td><td>1.02</td></th<>	Azima tetracantha	Kirkwood	CA.H	11	0.95	-15.63	1.15	0.36	0.55	1.81	0.10	1.05	1.02
Blepharis capensis $\ \ \ \ \ \ \ \ \ \ \ \ \ $	Blepharis capensis ∇	Kirkwood	Hgt	5	0.92	-17.34	4.49	0.84	0.24	4.14	0.42	1.19	1.03
Blepharis capensis $∇$ Kirkwood CA.H 5 1.00 -11.36 0.78 0.18 0.75 1.34 0.02 1.01 1.01 Boscia oleoides Kirkwood Hgt 14 0.41 -15.22 3.34 0.69 0.32 3.16 0.40 1.22 1.00 Boscia oleoides Kirkwood CD 14 0.76 -14.16 3.13 0.44 0.48 2.08 0.17 1.09 1.01 Boscia oleoides Kirkwood CD.H 14 0.79 -21.08 2.16 0.41 0.51 1.97 0.14 1.07 1.00 Boscia oleoides Kirkwood CA.H 14 0.81 -18.89 1.33 0.39 0.52 1.91 0.13 1.07 1.01 Brachylaena ilicifolia Kirkwood Hgt 13 0.95 -22.09 4.48 0.30 0.61 1.63 0.07 1.04 1.01 Brachylaena ilicifolia Kirkwood CD.H 13 0.90 -12.71 2.80 0.43 0.49 2.05 0.16 1.09 1.02 Brachylaena ilicifolia Kirkwood CD.H 13 0.96 -17.13 1.79 0.28 0.63 1.58 0.06 1.04 1.01 Brachylaena ilicifolia Kirkwood CA.H 13 0.94 -15.25 1.10 0.33 0.58 1.72 0.09 1.05 1.02 Capparis sepiaria Kirkwood CD 11 0.89 -10.48 2.40 0.40 0.52 1.94 0.13 1.07 1.02	Blepharis capensis ∇	Kirkwood	CD	5	1.00	-8.91	1.85	0.18	0.74	1.35	0.02	1.01	1.01
Boscia oleoides Kirkwood Hgt 14 0.41 -15.22 3.34 0.69 0.32 3.16 0.40 1.22 1.00 Boscia oleoides Kirkwood CD 14 0.76 -14.16 3.13 0.44 0.48 2.08 0.17 1.09 1.01 Boscia oleoides Kirkwood CD.H 14 0.79 -21.08 2.16 0.41 0.51 1.97 0.14 1.07 1.00 Boscia oleoides Kirkwood CA.H 14 0.81 -18.89 1.33 0.39 0.52 1.91 0.13 1.07 1.01 Brachylaena ilicifolia Kirkwood CD 13 0.95 -22.09 4.48 0.30 0.61 1.63 0.07 1.04 1.01 Brachylaena ilicifolia Kirkwood CD 13 0.90 -12.71 2.80 0.43 0.49 2.05 0.16 1.09 1.02 Brachylaena ilicifolia Kirkwood CD.H 13	Blepharis capensis ∇	Kirkwood	$\mathrm{CD.H}$	5	0.99	-11.57	1.34	0.24	0.67	1.49	0.03	1.02	1.02
Boscia oleoides Kirkwood CD 14 0.76 -14.16 3.13 0.44 0.48 2.08 0.17 1.09 1.01 Boscia oleoides Kirkwood CD.H 14 0.79 -21.08 2.16 0.41 0.51 1.97 0.14 1.07 1.00 Boscia oleoides Kirkwood CA.H 14 0.81 -18.89 1.33 0.39 0.52 1.91 0.13 1.07 1.01 Brachylaena ilicifolia Kirkwood CD 13 0.95 -22.09 4.48 0.30 0.61 1.63 0.07 1.04 1.01 Brachylaena ilicifolia Kirkwood CD 13 0.90 -12.71 2.80 0.43 0.49 2.05 0.16 1.09 1.02 Brachylaena ilicifolia Kirkwood CD.H 13 0.96 -17.13 1.79 0.28 0.63 1.58 0.06 1.04 1.01 Brachylaena ilicifolia Kirkwood CA.H	Blepharis capensis ∇	Kirkwood	CA.H	5	1.00	-11.36	0.78	0.18	0.75	1.34	0.02	1.01	1.01
Boscia oleoides Kirkwood CD 14 0.76 -14.16 3.13 0.44 0.48 2.08 0.17 1.09 1.01 Boscia oleoides Kirkwood CD.H 14 0.79 -21.08 2.16 0.41 0.51 1.97 0.14 1.07 1.00 Boscia oleoides Kirkwood CA.H 14 0.81 -18.89 1.33 0.39 0.52 1.91 0.13 1.07 1.01 Brachylaena ilicifolia Kirkwood CD 13 0.95 -22.09 4.48 0.30 0.61 1.63 0.07 1.04 1.01 Brachylaena ilicifolia Kirkwood CD 13 0.90 -12.71 2.80 0.43 0.49 2.05 0.16 1.09 1.02 Brachylaena ilicifolia Kirkwood CD.H 13 0.96 -17.13 1.79 0.28 0.63 1.58 0.06 1.04 1.01 Brachylaena ilicifolia Kirkwood CA.H	Boscia oleoides	Kirkwood	$_{ m Hgt}$	14	0.41	-15.22	3.34	0.69	0.32	3.16	0.40	1.22	1.00
Boscia oleoides Kirkwood CA.H 14 0.81 -18.89 1.33 0.39 0.52 1.91 0.13 1.07 1.01 Brachylaena ilicifolia Kirkwood Hgt 13 0.95 -22.09 4.48 0.30 0.61 1.63 0.07 1.04 1.01 Brachylaena ilicifolia Kirkwood CD 13 0.90 -12.71 2.80 0.43 0.49 2.05 0.16 1.09 1.02 Brachylaena ilicifolia Kirkwood CD.H 13 0.96 -17.13 1.79 0.28 0.63 1.58 0.06 1.04 1.01 Brachylaena ilicifolia Kirkwood CA.H 13 0.94 -15.25 1.10 0.33 0.58 1.72 0.09 1.05 1.02 Capparis sepiaria Kirkwood CD 11 0.89 -10.48 2.40 0.40 0.52 1.94 0.13 1.07 1.02	Boscia oleoides	Kirkwood		14	0.76	-14.16	3.13	0.44	0.48	2.08	0.17	1.09	1.01
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Boscia oleoides	Kirkwood	CD.H	14	0.79	-21.08	2.16	0.41	0.51	1.97	0.14	1.07	1.00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Boscia oleoides	Kirkwood	CA.H	14	0.81	-18.89	1.33	0.39	0.52	1.91	0.13	1.07	1.01
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Brachylaena ilicifolia	Kirkwood	$_{ m Hgt}$	13	0.95	-22.09	4.48	0.30	0.61	1.63	0.07	1.04	1.01
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Brachylaena ilicifolia Brachylaena ilicifolia	Kirkwood		13	0.90	-12.71	2.80	0.43	0.49	2.05	0.16	1.09	1.02
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Brachylaena ilicifolia	Kirkwood	CD.H	13	0.96	-17.13	1.79	0.28	0.63	1.58	0.06	1.04	1.01
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Brachylaena ilicifolia	Kirkwood	CA.H	13	0.94	-15.25	1.10	0.33	0.58	1.72	0.09	1.05	1.02
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Capparis sepiaria		$_{ m Hgt}$	11	0.52	-10.61		0.82	0.25	4.04	0.55	1.27	
	Capparis sepiaria			11	0.89	-10.48	2.40	0.40	0.52	1.94	0.13	1.07	1.02
			CD.H	11		-12.73		0.49	0.44	2.28	0.20	1.10	

Table 2: Parameters of all allometric models developed for common species within spekboom thicket and adjacent vegetation.

Species	Location	x.var§	n	r^2	$log(a)^{\dagger}$	b [†]	σ^{\dagger}	LC^{\dagger}	UC^{\dagger}	MSE	Duan [‡]	MB*
Capparis sepiaria	Kirkwood	CA.H	11	0.87	-12.00	0.92	0.43	0.49	2.04	0.15	1.07	1.02
$Carissa\ haematocarpa$	Kirkwood	Hgt	8	0.93	-15.86	3.75	0.33	0.58	1.72	0.08	1.04	1.01
$Carissa\ haematocarpa$	Kirkwood	CD	8	0.86	-8.98	2.26	0.46	0.47	2.13	0.16	1.08	1.01
$Carissa\ haematocarpa$	Kirkwood	CD.H	8	0.91	-11.98	1.45	0.37	0.54	1.84	0.10	1.06	1.01
$Carissa\ haematocarpa$	Kirkwood	CA.H	8	0.89	-10.65	0.89	0.40	0.52	1.93	0.12	1.06	1.01
Cotyledon velutina	Kirkwood	Hgt	8	0.01	-0.28	0.32	0.88	0.22	4.50	0.58	1.30	1.01
Cotyledon velutina	Kirkwood	CD	8	0.83	-7.88	2.17	0.37	0.54	1.84	0.10	1.05	1.01
Cotyledon velutina	Kirkwood	CD.H	8	0.45	-8.76	1.09	0.66	0.33	3.01	0.32	1.17	1.01
Cotyledon velutina	Kirkwood	CA.H	8	0.63	-9.19	0.79	0.54	0.41	2.45	0.22	1.11	1.01
Crassula mesembryanthemoides	Darlington	Hgt	14	0.43	-6.49	1.29	0.64	0.34	2.91	0.35	1.19	1.07
Crassula mesembryanthemoides	Darlington	CD	14	0.75	-7.62	1.62	0.42	0.49	2.02	0.15	1.08	1.05
Crassula mesembryanthemoides	Darlington	CD.H	14	0.68	-7.79	0.85	0.48	0.45	2.23	0.20	1.11	1.05
Crassula mesembryanthemoides	Darlington	CA.H	14	0.72	-7.76	0.57	0.45	0.48	2.09	0.17	1.09	1.05
Crassula muscosa	Darlington	Hgt	17	0.85	-11.84	3.03	0.54	0.41	2.45	0.26	1.13	1.06
Crassula muscosa	Darlington	CD	17	0.96	-8.94	1.96	0.26	0.65	1.53	0.06	1.03	1.03
Crassula muscosa	Darlington	CD.H	17	0.96	-10.42	1.24	0.29	0.62	1.60	0.07	1.03	1.03
Crassula muscosa	Darlington	CA.H	17	0.97	-9.71	0.77	0.26	0.66	1.53	0.06	1.03	1.03
Crassula ovata ∇	Cambria	Hgt	21	0.84	-13.32	2.84	1.00	0.18	5.54	0.90	1.49	1.19
Crassula ovata $^{\nabla}$	Cambria	CD	21	0.65	-12.45	2.71	1.49	0.07	14.59	2.00	1.52	1.23
Crassula ovata $^{\nabla}$	Cambria	CD.H	21	0.87	-14.92	1.62	0.90	0.21	4.65	0.74	1.30	1.16
Crassula ovata $^{\nabla}$	Cambria	CA.H	21	0.82	-14.30	1.06	1.06	0.16	6.24	1.02	1.34	1.18
Crassula perforata	Darlington	Hgt	14	0.89	-11.78	2.83	0.58	0.38	2.62	0.28	1.16	1.07
Crassula perforata	Darlington	CD	14	0.94	-8.87	2.05	0.41	0.51	1.96	0.14	1.07	1.06
Crassula perforata	Darlington	CD.H	14	0.98	-10.65	1.27	0.25	0.67	1.50	0.05	1.03	1.03
Crassula perforata	Darlington	CA.H	14	0.98	-9.86	0.79	0.27	0.64	1.56	0.06	1.03	1.03
Drosanthemum lique	Calitzdorp	Hgt	5	0.00	-2.05	-0.06	1.95	0.02	41.15	2.27	2.97	1.02
Drosanthemum lique	Calitzdorp	$^{\mathrm{CD}}$	5	0.93	-13.59	3.05	0.52	0.42	2.38	0.16	1.09	1.02
Drosanthemum lique	Calitzdorp	CD.H	5	0.53	-14.55	1.75	1.34	0.09	10.75	1.07	1.49	1.01
Drosanthemum lique	Calitzdorp	CA.H	5	0.75	-15.29	1.24	0.97	0.19	5.26	0.56	1.26	1.01
Ehretia rigida	Kirkwood	Hgt	8	0.91	-13.24	2.95	0.38	0.53	1.88	0.11	1.05	1.01
Ehretia rigida	Kirkwood	CD	8	0.96	-11.47	2.51	0.27	0.64	1.56	0.06	1.03	1.01
Ehretia rigida	Kirkwood	CD.H	8	0.99	-13.18	1.43	0.13	0.81	1.24	0.01	1.01	1.01
Ehretia rigida	Kirkwood	CA.H	8	0.99	-12.50	0.92	0.14	0.79	1.26	0.02	1.01	1.01
Euclea undulata	Kirkwood	Hgt	22	0.67	-17.17	3.65	1.14	0.14	7.23	1.18	1.58	1.06
Euclea undulata	Kirkwood	CD	22	0.95	-11.28	2.60	0.42	0.50	2.01	0.16	1.10	1.06

Table 2: Parameters of all allometric models developed for common species within spekboom thicket and adjacent vegetation.

Species	Location	x.var§	n	r^2	$log(a)^{\dagger}$	b [†]	σ^{\dagger}	LC^{\dagger}	UC [†]	MSE	Duan [‡]	MB*
Euclea undulata	Kirkwood	CD.H	22	0.93	-15.58	1.69	0.52	0.42	2.39	0.25	1.13	1.06
Euclea undulata	Kirkwood	CA.H	22	0.95	-13.87	1.04	0.43	0.49	2.04	0.17	1.09	1.05
Euphorbia coerulescens	Jansenville	Hgt	15	0.82	-7.24	2.18	1.05	0.16	6.18	0.96	1.83	1.24
Euphorbia coerulescens	Jansenville	CD	15	0.95	-9.02	2.62	0.57	0.39	2.58	0.28	1.13	1.11
Euphorbia coerulescens	Jansenville	CD.H	15	0.96	-8.90	1.30	0.51	0.43	2.35	0.23	1.13	1.10
Euphorbia coerulescens	Jansenville	CA.H	15	0.97	-8.95	0.88	0.40	0.52	1.93	0.14	1.07	1.06
Euphorbia mauritanica	Calitzdorp	Hgt	10	0.32	-9.57	2.17	0.84	0.24	4.14	0.56	1.26	1.01
Euphorbia mauritanica	Calitzdorp	CD	10	0.55	-5.86	1.52	0.68	0.32	3.13	0.37	1.25	1.03
Euphorbia mauritanica	Calitzdorp	CD.H	10	0.60	-10.06	1.17	0.64	0.34	2.95	0.33	1.19	1.01
Euphorbia mauritanica	Calitzdorp	CA.H	10	0.60	-8.36	0.68	0.65	0.34	2.95	0.33	1.20	1.02
Euphorbia triangularis	Kirkwood	Hgt	22	0.98	-15.19	3.18	0.35	0.56	1.79	0.11	1.05	1.04
Euphorbia triangularis	Kirkwood	CD	22	0.87	-11.65	3.00	0.81	0.25	3.95	0.60	1.29	1.12
Euphorbia triangularis	Kirkwood	CD.H	22	0.97	-14.18	1.62	0.42	0.50	2.00	0.16	1.08	1.06
Euphorbia triangularis	Kirkwood	CA.H	22	0.94	-13.22	1.06	0.54	0.41	2.46	0.27	1.13	1.08
Galenia filiformis	Calitzdorp	Hgt	6	0.20	-9.93	2.10	1.01	0.18	5.67	0.68	1.46	1.01
Galenia filiformis	Calitzdorp	CD	6	0.74	-12.27	2.52	0.58	0.38	2.63	0.22	1.11	1.01
Galenia filiformis	Calitzdorp	CD.H	6	0.61	-13.98	1.56	0.71	0.30	3.29	0.33	1.18	1.01
Galenia filiformis	Calitzdorp	CA.H	6	0.68	-13.43	0.99	0.64	0.34	2.93	0.27	1.14	1.01
Grewia robusta	Kirkwood	Hgt	16	0.65	-17.81	3.93	0.68	0.32	3.13	0.40	1.18	1.01
Grewia robusta	Kirkwood	CD	16	0.91	-11.87	2.66	0.35	0.56	1.78	0.11	1.06	1.02
Grewia robusta	Kirkwood	CD.H	16	0.89	-16.00	1.75	0.39	0.52	1.91	0.13	1.07	1.02
Grewia robusta	Kirkwood	CA.H	16	0.90	-14.31	1.07	0.36	0.56	1.80	0.11	1.06	1.02
Gymnosporia polyacantha	Kirkwood	Hgt	15	0.87	-18.09	3.88	0.96	0.19	5.17	0.80	1.50	1.08
Gymnosporia polyacantha	Kirkwood	CD	15	0.98	-13.82	3.05	0.38	0.53	1.89	0.13	1.06	1.05
Gymnosporia polyacantha	Kirkwood	CD.H	15	0.98	-16.55	1.79	0.39	0.53	1.90	0.13	1.06	1.05
Gymnosporia polyacantha	Kirkwood	CA.H	15	0.99	-15.41	1.14	0.30	0.61	1.64	0.08	1.04	1.03
Jathropa capensis	Kirkwood	Hgt	4	0.27	-13.31	2.82	0.78	0.27	3.72	0.30	1.16	1.00
Jathropa capensis	Kirkwood	CD	4	0.72	-9.82	2.22	0.48	0.45	2.22	0.12	1.05	1.00
Jathropa capensis	Kirkwood	CD.H	4	0.69	-15.54	1.65	0.51	0.43	2.32	0.13	1.07	1.00
Jathropa capensis	Kirkwood	CA.H	4	0.72	-13.23	0.97	0.48	0.45	2.22	0.12	1.06	1.00
Lycium cinereum	Calitzdorp	Hgt	8	0.90	-7.10	1.73	0.42	0.50	2.00	0.13	1.07	1.03
Lycium cinereum	Calitzdorp	CD	8	0.90	-10.61	2.28	0.42	0.50	2.00	0.13	1.06	1.02
Lycium cinereum	Calitzdorp	CD.H	8	0.95	-9.18	1.04	0.30	0.61	1.65	0.07	1.03	1.02
Lycium cinereum	Calitzdorp	CA.H	8	0.95	-9.63	0.72	0.31	0.60	1.66	0.07	1.03	1.02
Lycium ferocissimum [▽]	Cambria	Hgt	24	0.64	-9.67	2.11	0.80	0.26	3.89	0.59	1.30	1.07

Table 2: Parameters of all allometric models developed for common species within spekboom thicket and adjacent vegetation.

Species	Location	x.var§	n	r^2	$log(a)^{\dagger}$	b [†]	σ^{\dagger}	LC^{\dagger}	UC [†]	MSE	Duan [‡]	$\overline{\mathrm{MB}^{\star}}$
Lycium ferocissimum [▽]	Cambria	CD	24	0.62	-5.28	1.29	0.82	0.25	4.05	0.62	1.30	1.15
Lycium ferocissimum [▽]	Cambria	CD.H	24	0.66	-7.48	0.85	0.77	0.27	3.68	0.54	1.26	1.10
Lycium ferocissimum [▽]	Cambria	CA.H	24	0.65	-6.56	0.52	0.79	0.26	3.78	0.57	1.27	1.12
Malephora lutea	Calitzdorp	Hgt	9	0.39	-5.77	2.06	0.94	0.20	4.98	0.69	1.25	1.06
Malephora lutea	Calitzdorp	$\overline{\mathrm{CD}}$	9	0.93	-6.88	1.54	0.31	0.60	1.67	0.08	1.04	1.03
Malephora lutea	Calitzdorp	CD.H	9	0.90	-7.93	1.14	0.38	0.53	1.87	0.11	1.06	1.04
Malephora lutea	Calitzdorp	CA.H	9	0.93	-7.47	0.67	0.31	0.60	1.66	0.07	1.04	1.03
Mesembryanthemum guerichianum	Pearston	Hgt	3	0.98	-7.46	1.73	0.08	0.87	1.15	0.00	1.00	1.00
Mesembryanthemum guerichianum	Pearston	CD	3	0.30	-8.48	1.87	0.53	0.41	2.42	0.09	1.05	1.00
Mesembryanthemum guerichianum	Pearston	$\mathrm{CD.H}$	3	0.84	-9.52	1.15	0.26	0.66	1.52	0.02	1.01	1.00
Mesembryanthemum guerichianum	Pearston	CA.H	3	0.71	-9.77	0.80	0.34	0.57	1.76	0.04	1.02	1.00
Panicum maximum [▽]	Kirkwood	Hgt	8	0.63	-14.26	2.60	0.86	0.23	4.34	0.56	1.31	1.02
Panicum maximum [▽]	Kirkwood	CD	8	0.85	-12.34	2.42	0.55	0.40	2.49	0.22	1.11	1.03
Panicum maximum [▽]	Kirkwood	CD.H	8	0.82	-14.37	1.38	0.60	0.37	2.71	0.27	1.14	1.02
Panicum maximum [▽]	Kirkwood	CA.H	8	0.85	-14.85	0.90	0.55	0.40	2.52	0.23	1.12	1.02
Pappea capensis	Kirkwood	Hgt	20	0.93	-19.01	4.07	0.53	0.41	2.43	0.26	1.13	1.04
Pappea capensis	Kirkwood	CD	20	0.98	-12.07	2.79	0.27	0.64	1.56	0.07	1.03	1.03
Pappea capensis	Kirkwood	CD.H	20	0.98	-15.21	1.68	0.31	0.60	1.66	0.08	1.04	1.03
Pappea capensis	Kirkwood	CA.H	20	0.98	-13.82	1.05	0.27	0.64	1.57	0.07	1.03	1.03
Plumbago auriculata [▽]	Cambria	Hgt	21	0.66	-11.49	2.59	0.84	0.24	4.13	0.63	1.40	1.06
Plumbago auriculata [▽]	Cambria	CD	21	0.58	-9.69	2.00	0.92	0.21	4.79	0.76	1.79	1.07
Plumbago auriculata	Cambria	CD.H	21	0.80	-14.03	1.47	0.64	0.34	2.91	0.37	1.26	1.05
Plumbago auriculata	Cambria	CA.H	21	0.75	-12.73	0.89	0.72	0.30	3.33	0.46	1.41	1.05
Portulacaria afra	Kirkwood	Hgt	42	0.85	-12.05	3.01	0.93	0.20	4.94	0.83	1.40	1.22
Portulacaria afra	Kirkwood	CD	42	0.94	-10.40	2.62	0.60	0.37	2.72	0.34	1.15	1.14
Portulacaria afra	Kirkwood	CD.H	42	0.93	-11.75	1.46	0.63	0.35	2.85	0.37	1.17	1.14
Portulacaria afra	Kirkwood	CA.H	42	0.94	-11.15	0.94	0.58	0.38	2.65	0.33	1.15	1.13
Psilocaulon junceum	Calitzdorp	Hgt	8	0.84	-16.04	4.54	0.71	0.30	3.28	0.37	1.16	1.02
Psilocaulon junceum	Calitzdorp	CD	8	0.96	-10.21	2.28	0.36	0.55	1.82	0.10	1.05	1.04
Psilocaulon junceum	Calitzdorp	CD.H	8	0.94	-12.50	1.57	0.41	0.51	1.97	0.13	1.06	1.03
Psilocaulon junceum	Calitzdorp	CA.H	8	0.95	-11.38	0.93	0.38	0.53	1.87	0.11	1.05	1.03
Ptaeroxylon obliquum	Kirkwood	Hgt	20	0.90	-23.93	4.61	0.96	0.19	5.14	0.82	1.39	1.09
Ptaeroxylon obliquum	Kirkwood	CD	20	0.94	-12.71	2.87	0.78	0.27	3.71	0.54	1.29	1.17
Ptaeroxylon obliquum	Kirkwood	$\mathrm{CD.H}$	20	0.98	-18.06	1.87	0.48	0.45	2.23	0.21	1.12	1.07
Ptaeroxylon obliquum	Kirkwood	CA.H	20	0.97	-15.82	1.14	0.55	0.40	2.52	0.28	1.15	1.10

Table 2: Parameters of all allometric models developed for common species within spekboom thicket and adjacent vegetation.

Species	Location	x.var§	n	r^2	$log(a)^{\dagger}$	b [†]	σ^{\dagger}	LC^{\dagger}	UC^{\dagger}	MSE	Duan [‡]	MB*
Pteronia incana	Calitzdorp	Hgt	6	0.75	-15.48	3.97	0.94	0.20	5.02	0.59	1.32	1.02
Pteronia incana	Calitzdorp	CD	6	0.95	-10.21	2.31	0.44	0.48	2.08	0.13	1.06	1.03
Pteronia incana	Calitzdorp	$\mathrm{CD.H}$	6	0.93	-12.91	1.56	0.49	0.44	2.25	0.16	1.09	1.02
Pteronia incana	Calitzdorp	CA.H	6	0.95	-11.68	0.94	0.44	0.48	2.08	0.13	1.07	1.03
Putterlickia pyracantha	Kirkwood	Hgt	15	0.68	-10.06	2.35	0.96	0.19	5.20	0.80	1.42	1.07
Putterlickia pyracantha	Kirkwood	CD	15	0.76	-6.59	1.69	0.83	0.25	4.07	0.59	1.45	1.12
Putterlickia pyracantha	Kirkwood	$\mathrm{CD.H}$	15	0.78	-8.79	1.06	0.79	0.26	3.82	0.54	1.37	1.09
Putterlickia pyracantha	Kirkwood	CA.H	15	0.78	-7.90	0.66	0.79	0.26	3.80	0.54	1.40	1.10
Rhigozum obovatum	Oudtshoorn	Hgt	8	0.80	-11.82	2.73	0.76	0.28	3.61	0.43	1.24	1.03
Rhigozum obovatum	Oudtshoorn	CD	8	0.88	-11.96	2.65	0.58	0.38	2.63	0.25	1.16	1.03
Rhigozum obovatum	Oudtshoorn	$\mathrm{CD.H}$	8	0.89	-12.70	1.43	0.55	0.40	2.52	0.23	1.15	1.02
Rhigozum obovatum	Oudtshoorn	CA.H	8	0.90	-12.39	0.94	0.53	0.41	2.43	0.21	1.14	1.03
Ruschia multiflora	Calitzdorp	Hgt	6	0.67	-6.12	1.49	0.53	0.41	2.43	0.19	1.10	1.02
Ruschia multiflora	Calitzdorp	CD	6	0.87	-7.13	1.58	0.34	0.57	1.74	0.08	1.04	1.02
Ruschia multiflora	Calitzdorp	$\mathrm{CD.H}$	6	0.87	-7.51	0.88	0.33	0.58	1.72	0.07	1.04	1.01
Ruschia multiflora	Calitzdorp	CA.H	6	0.90	-7.43	0.58	0.30	0.61	1.63	0.06	1.03	1.01
Schotia afra	Kirkwood	Hgt	19	0.63	-15.61	3.38	1.44	0.08	13.16	1.84	1.87	1.07
Schotia afra	Kirkwood	CD	19	0.89	-11.06	2.62	0.79	0.26	3.79	0.56	1.26	1.12
Schotia afra	Kirkwood	$\mathrm{CD.H}$	19	0.92	-16.23	1.76	0.65	0.34	2.98	0.38	1.18	1.07
Schotia afra	Kirkwood	CA.H	19	0.93	-14.34	1.08	0.61	0.36	2.78	0.34	1.14	1.08
Vachellia karoo ∇	Cambria	Hgt	15	0.91	-19.14	3.65	0.57	0.39	2.58	0.28	1.15	1.04
Vachellia karoo ∇	Cambria	$\stackrel{\circ}{\mathrm{CD}}$	15	0.95	-21.26	4.07	0.42	0.50	2.02	0.16	1.09	1.03
Vachellia karoo ∇	Cambria	$\mathrm{CD.H}$	15	0.97	-20.94	2.00	0.35	0.56	1.78	0.11	1.05	1.03
Vachellia karoo⊽	Cambria	СА.Н	15	0.97	-20.91	1.35	0.33	0.58	1.72	0.09	1.05	1.02

[§] Predictor variable where Hgt/H = plant height (cm), CD = mean crown diameter, CD.H = CD.Hgt, CA.H = π . $(\frac{CD}{2})^2$.H, SL = stem length up to base of rosette for Aloe speciosa, BSD = basal stem diameter, BSA = basal stem area.

[†] To get an individual estimate use the power function $y_n = ax^b$ and substitute a = exp(log(a)) and b. This estimate, naive y (y_n) , can be corrected following Nickless et al. (2011) and Zou et al. (2009) to derive corrected y_c with $y_c = exp(ln(y_n) + \frac{\sigma^2}{2})$. The Lower (LC) and Upper confidence limits (UC) can be obtained by multiplying Y_c with the tabled LC and UC values.

[‡] Duan (1983)'s Smearing Estimate correction factor to arrive at $y_c = y_n.cf_{duan}$.

^{*} Shen et al. (2008)'s Minimum Bias (MB) correction factor to arrive at $y_c = y_n.cf_{MB}$.

[∇] Models are based on dry weight instead of freshly felled weight (no need for applying a dry:wet ratio).

Table 3: Dry-wet ratios for selected species found within Spekboom thicket and adjacent vegetation.

Species	location	n	DWratio	SE
Aloe striata	Darlington dam	6	0.20	0.07
Asparagus capensis	Darlington dam	7	0.52	0.05
Azima tetracantha	Kirkwood	6	0.51	0.04
Boscia oleoides	Darlington dam	7	0.57	0.01
Carissa haematocarpa	Kirkwood	7	0.63	0.02
Crassula mesembryanthoides	Darlington dam	7	0.25	0.05
Crassula muscosa	Darlington dam	10	0.39	0.02
Crassula ovata	Cambria	21	0.11	0.00
Crassula perforata	Darlington dam	6	0.25	0.02
Drosanthemum lique	Calitzdorp	5	0.71	0.07
Ehretia rigida	Cambria	26	0.60	0.01
Euclea undulata	Kirkwood	13	0.63	0.01
Euphorbia coerulescens	Jansenville	10	0.13	0.01
Galenia filiformis	Calitzdorp	5	0.87	0.06
Grewia robusta	Kirkwood	7	0.69	0.02
Gymnosporia capitata	Kirkwood	6	0.56	0.01
Gymnosporia polyacantha	Darlington dam	7	0.64	0.01
Jathropa capensis	Cambria	32	0.22	0.01
Lycium ferocissimum	Cambria	33	0.58	0.01
Malephora lutea	Calitzdorp	6	0.18	0.02
Mesembryanthemum guerichianum	Willowmore	6	0.26	0.05
Mesembryanthemum splendens	Calitzdorp	8	0.36	0.03
Pappea capensis	Cambria	13	0.66	0.01
Plumbago auriculata	Cambria	21	0.52	0.01
Portulacaria afra	Cambria	164	0.27	0.01
Pteronia incana	Calitzdorp	4	0.84	0.07
Ruschia multiflora	Calitzdorp	4	0.54	0.08
Schotia afra	Kirkwood	12	0.62	0.01
Searsia longispina	Cambria	7	0.66	0.01
Vachellia karroo	Cambria	15	0.83	0.01

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