

3 **Table S3** Soil chemical and physical parameters (mean ± SE) at three successional stages of a
4 tropical dry forest at Mata Seca State Park, northern Minas Gerais, Brazil (*n*=12 plots).

Soil parameter	Early	Intermediate	Old-growth	ANOVA	
	<i>n</i> =4	<i>n</i> =4	<i>n</i> =4	<i>F</i>	<i>P</i>
pH em H ₂ O	6.67 ± 0.03 ^a	5.42 ± 0.19 ^b	7.1 ± 0.18 ^a	34.01	***
P - Mehlich (mg·kg ⁻¹)	2.36 ± 0.38	1.55 ± 0.23	12.82 ± 5.71	3.62	ns
P rem (mg·L ⁻¹)	30.29 ± 0.84 ^a	25.4 ± 0.72 ^b	30.08 ± 1.52 ^b	6.52	**
K ⁺ (mg·kg ⁻¹)	147.74 ± 31.66 ^b	58.35 ± 4.55 ^b	303.78 ± 63.57 ^a	9.14	**
Ca ⁺⁺ (cmol _c ·dm ⁻³)	7.68 ± 3.14 ^b	2.78 ± 1.14 ^c	11.03 ± 4.50 ^a	51.05	***
Mg ⁺⁺ (cmol _c ·dm ⁻³)	2.18 ± 0.19 ^a	1.25 ± 0.12 ^b	2.77 ± 0.17 ^a	22.16	**
Al (cmol _c ·dm ⁻³)	0 ^b	0.4 ± 0.12 ^a	0 ^b	10.43	**
H + Al (cmol _c ·dm ⁻³)	0.89 ± 0.02 ^b	1.74 ± 0.17 ^a	0.79 ± 0.05 ^b	25.2	***
Sum of bases (cmol _c ·dm ⁻³)	10.25 ± 0.65 ^b	4.18 ± 0.57 ^c	14.58 ± 0.79 ^a	59.57	***
t - cation exchange (cmol _c ·dm ⁻³)	10.25 ± 0.65 ^b	4.58 ± 0.47 ^c	14.58 ± 0.79 ^a	59.3	***
m - aluminum saturation (%)	0 ^b	9.96 ± 3.20 ^a	0 ^b	9.7	**
T (cmol _c ·dm ⁻³)	11.14 ± 0.65 ^b	5.92 ± 0.44 ^c	15.36 ± 0.75 ^a	56.84	***
V - base saturation (%)	91.84 ± 0.55 ^a	69.4 ± 4.14 ^b	94.76 ± 0.54 ^a	32.52	***
Organic matter (dag·kg ⁻¹)	4.198 ± 0.27 ^b	3.76 ± 0.21 ^b	4.99 ± 0.26 ^a	6.49	**
Coarse sand (dag·kg ⁻¹)	11.23 ± 0.59	15.82 ± 0.69	14.2 ± 0.75	1.93	ns
Fine sand (dag·kg ⁻¹)	35.77 ± 3.72	28.52 ± 2.32	31.13 ± 1.91	1.76	ns
Silt (dag·kg ⁻¹)	35.33 ± 2.67 ^a	25.33 ± 1.33 ^b	34.68 ± 1.98 ^a	7.37	**
Clay (dag·kg ⁻¹)	17.67 ± 1.75 ^b	30.33 ± 2.50 ^a	20 ± 2.30 ^b	9.32	**

5 Data from Nunes et al. (2014). * *P* < 0.05, ** *P* < 0.01, *** *P* < 0.001, ns = no significant. Different
6 letters in the same row indicate significant differences in a post-hoc Tukey test.