

Supplemental information

Table S1. Parameters obtained from the forest inventory of 40 plots in eucalypt stand.

Plot	Basal area	Height average	Diameter at breast height average	Total biomass
	m ² ha ⁻¹	m	cm	Mg ha ⁻¹
1	32.15	24.26	17.54	214.81
2	29.45	24.23	16.11	194.75
3	30.48	21.66	16.61	199.00
4	39.67	23.54	16.87	258.61
5	34.42	23.15	18.58	230.43
6	26.82	22.03	15.67	174.77
7	23.37	20.25	14.69	136.96
8	29.02	20.96	15.64	186.98
9	30.88	25.57	18.73	218.37
10	30.17	20.17	13.48	187.38
11	30.85	21.98	15.45	206.15
12	29.90	23.10	15.09	192.82
13	33.42	21.85	14.99	210.11
14	22.42	18.98	13.70	143.74
15	25.43	23.98	17.69	171.27
16	33.33	23.62	17.26	219.03
17	21.45	21.10	15.42	131.88
18	29.06	23.91	16.50	196.54
19	25.23	24.39	16.20	166.55
20	26.36	21.69	16.30	171.08
21	26.68	25.45	16.69	182.88
22	28.29	24.72	16.51	188.29

23	27.85	23.02	16.32	177.99
24	25.17	23.36	16.16	161.77
25	29.32	22.97	15.67	182.84
26	24.33	20.78	14.99	146.96
27	23.66	21.85	14.25	147.64
28	31.32	21.97	16.03	204.75
29	22.79	22.18	16.55	145.30
30	32.49	22.76	16.35	211.73
31	20.00	20.14	14.35	117.72
32	27.93	20.90	15.14	174.86
33	35.77	21.38	14.34	220.20
34	26.23	21.19	15.13	155.51
35	25.60	19.89	14.76	154.35
36	32.76	23.69	17.01	213.99
37	27.00	20.75	15.33	157.60
38	31.15	21.76	15.46	189.37
39	31.75	21.64	16.38	205.10
40	18.70	17.64	12.63	106.14
Mean	28,32	22,21	15,81	181,41
Std	4,44	1,74	1,28	32,58

Table S2. Compartment's weight of the felled trees in eucalypt stand.

Tree	Height (m)	Diameter at breast height	Leaves	Branches	Bark	Crown wood	Stem wood	Total
	m	cm	-----Kg-----					
1	27.30	20.10	11.33	14.40	23.13	4.58	198.96	252.41
2	27.80	20.10	9.25	10.71	19.94	5.77	180.77	226.45
3	26.68	19.50	8.84	9.90	15.55	6.07	138.88	179.23
4	26.10	17.20	6.57	6.73	14.84	4.42	117.01	149.57
5	26.30	17.00	5.84	6.02	14.46	6.13	116.55	149.01
6	26.98	18.30	7.73	13.10	18.57	5.56	163.42	208.38
7	26.80	18.80	8.42	6.95	18.57	5.32	156.90	196.17
8	26.32	17.80	7.48	10.52	30.42	4.84	131.65	184.92
9	21.72	18.90	9.71	10.62	19.21	3.70	116.48	159.71
10	22.71	16.80	8.11	7.97	14.09	6.02	100.58	136.77
11	23.81	16.40	6.51	7.53	14.95	4.47	102.63	136.09
12	24.50	15.90	6.48	5.90	13.39	7.21	87.83	120.80
13	24.24	15.80	5.94	5.75	13.23	6.63	94.46	126.00
14	24.65	17.00	10.30	7.99	15.81	5.62	113.34	153.06
15	25.56	16.30	5.18	10.88	14.12	6.27	104.75	141.19
16	23.92	14.70	4.73	5.41	13.94	6.67	79.96	110.71
17	23.30	14.20	3.95	4.19	6.62	8.22	60.37	83.34
18	22.41	14.60	4.04	6.04	10.08	6.97	33.07	60.21
19	22.71	14.40	3.87	4.14	10.41	6.66	64.06	89.15
20	21.89	13.40	3.90	3.71	9.35	8.50	54.33	79.79
21	23.12	13.20	4.18	4.26	10.24	8.68	62.48	89.84
22	22.23	12.30	2.81	4.39	7.91	9.67	43.29	68.08
23	23.64	12.50	2.23	3.43	7.89	10.02	48.81	72.39
24	22.20	12.50	2.76	2.17	7.64	9.92	45.58	68.08

25	21.62	12.30	3.32	2.39	6.27	9.55	41.51	63.03
26	18.75	9.90	1.12	2.10	7.00	11.03	19.17	40.42
27	20.45	11.10	2.60	2.92	6.64	0.00	16.88	29.04
28	18.13	9.90	0.87	0.90	1.92	9.15	10.47	23.30
29	18.53	9.50	0.83	0.99	5.06	11.92	17.28	36.09
30	15.74	7.40	0.62	0.67	2.48	0.00	16.77	20.55
31	14.45	8.70	0.69	0.98	2.80	0.00	16.06	20.52
32	11.65	7.30	0.62	0.70	1.39	0.00	9.23	11.94
33	12.25	5.60	0.29	0.47	2.43	0.00	7.49	10.69
34	12.60	6.40	0.24	0.60	1.69	0.00	8.33	10.86
35	26.56	21.10	9.56	16.01	25.25	5.17	195.35	251.33
36	26.74	21.80	12.45	19.68	26.35	4.19	205.37	268.04
37	26.87	21.00	12.48	16.32	26.82	4.06	196.15	255.83
38	8.40	4.50	1.06	20.30	2.30	0.00	2.24	25.90
39	7.80	4.30	1.18	0.28	2.36	0.00	2.07	5.89
40	23.80	11.80	2.63	0.86	7.07	9.43	36.43	56.42
Mean	21.78	14.01	5.02	6.47	11.81	5.56	80.42	109.28
Std	5.34	4.82	3.64	5.44	7.78	3.45	63.15	78.49

Table S3. Nutrient estimating from trees components and according 40 plots in eucalypt stand.

Plot	N	P	K	Ca	Mg	Total Nutrients
	-----Mg ha ⁻¹ -----					
1	2.74	0.16	0.74	2.54	0.78	6.97
2	2.85	0.17	0.76	2.64	0.80	7.22
3	3.40	0.15	0.70	2.36	0.72	7.33
4	3.45	0.21	0.96	3.34	1.00	8.96
5	2.66	0.16	0.75	2.55	0.76	6.88
6	3.01	0.15	0.68	2.36	0.71	6.91
7	2.57	0.15	0.63	2.25	0.68	6.27
8	3.15	0.16	0.71	2.45	0.76	7.24
9	2.14	0.15	0.71	2.43	0.72	6.15
10	4.91	0.20	0.84	2.90	0.90	9.75
11	3.71	0.17	0.78	2.66	0.81	8.14
12	4.16	0.18	0.78	2.65	0.81	8.58
13	3.81	0.21	0.90	3.16	0.95	9.04
14	3.79	0.12	0.54	1.79	0.57	6.81
15	2.23	0.13	0.60	2.05	0.60	5.61
16	2.59	0.18	0.82	2.87	0.85	7.30
17	2.58	0.12	0.53	1.82	0.57	5.62
18	2.70	0.16	0.71	2.46	0.76	6.79
19	2.15	0.15	0.66	2.30	0.70	5.95
20	2.85	0.14	0.64	2.21	0.66	6.51
21	2.19	0.15	0.68	2.38	0.72	6.12
22	2.37	0.17	0.74	2.62	0.77	6.66
23	2.66	0.16	0.70	2.42	0.73	6.67
24	2.49	0.15	0.64	2.24	0.67	6.19
25	2.61	0.18	0.77	2.73	0.84	7.13
26	2.92	0.15	0.63	2.18	0.67	6.54
27	3.06	0.15	0.65	2.28	0.71	6.86
28	3.68	0.17	0.76	2.58	0.81	8.00
29	1.82	0.13	0.57	2.01	0.59	5.11
30	3.58	0.17	0.76	2.58	0.78	7.86
31	3.06	0.13	0.54	1.88	0.57	6.18
32	3.48	0.16	0.69	2.37	0.73	7.43
33	4.45	0.22	0.96	3.34	1.03	10.00
34	3.56	0.16	0.68	2.36	0.75	7.50
35	3.78	0.15	0.66	2.24	0.68	7.51
36	2.91	0.18	0.80	2.77	0.82	7.47
37	2.41	0.17	0.71	2.53	0.76	6.58
38	3.47	0.18	0.80	2.79	0.85	8.09
39	3.57	0.17	0.75	2.56	0.77	7.82
40	3.84	0.13	0.52	1.77	0.56	6.82
Total	123.35	6.44	28.47	98.40	29.91	286.58

Mean	3.08	0.16	0.71	2.46	0.75	1.43
Std	0,69	0,02	0,10	0,37	0,11	1,07

Table S4. Mean of roots data and nutrients according 9 diameter categories in eucalypt stand.

Tree class	Biomass average for each class Kg tree ⁻¹	Nutrients average for each class				
		N	P	K	Ca	Mg
Suppressed (5.0 to 11.0 cm DBH*)	2.20	0.25	0.03	0.09	0.24	0.09
Median (11.1 to 17.0 cm DBH*)	4.92	0.30	0.02	0.08	0.30	0.08
Dominant (17.1 to 23 cm DBH*)	5.08	0.32	0.02	0.10	0.37	0.08

* Diameter at breast height