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Successional changes in soil nitrogen availability, non-symbiotic nitrogen fixation and carbon/nitrogen ratios in southern Chilean forest ecosystems

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In the column head of Table 1, the unit for N_a should be mg/kg and not kg/ha.

Table 1 Structural characteristics and soil variables of lowland successional stands in Chiloé Island. *BA* Basal area of living trees, *CWD* coarse woody debris, N_a soil content of available N, $N_{min,field}$ rates of net N mineralization, *ARA* potential acetylene reduction activity, %*W* soil moisture content

Successional group	Main type of disturbance	Minimum stand age	BA (m ² /ha) ^a	CWD (ton/ha) ^a	N_a (mg/kg) ^b	N_{min} (kg/ha/year) ^c	ARA (nmol C ₂ H ₄ /g DW/day) ^d	N_{fix} (kg N /ha/year) ^b	Soil C/N	%W ^c
Early (ES-1)	Fire-logging	2±0	1.9	62	82.9	31.4	0.68	0.22	27.0	78.0
Early (ES-2)	Fire-logging	11±2	3.9	42	58.6	22.0	2.65	0.11	32.6	74.1
Mid (MS-1)	Fire-logging	34±6	16.6	9	76.7	15.4	32.98	0.64	30.3	81.7
Mid (MS-2)	Fire-logging	51±58	46.0	34	57.6	62.0	0.56	0.61	21.7	69.6
Mid (MS-3)	Fire-logging	62±44	49.7	36	57.7	38.0	1.28	1.66	28.2	72.4
Late (LS-1)	Selective logging only	133±46	65.5	47	86.6	52.4	0.87	1.41	21.8	76.9
Late (LS-2)	Selective logging only	134±78	85.7	65	67.7	33.2	1.3	0.23	28.3	74.7

^aBA (from Aravena et al. 2002) and biomass of CWD (from Carmona et al. 2002) for each stand

^bFor the first 10 cm of soil

^cFor 0–30 cm soil depth

^dEstimated for surface (0–10 cm) sieved mineral soil

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