

Supplementary material

**Temporal and spatial variation in the soil seed bank of
Nassella trichotoma (serrated tussock) in its native range**

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Estimation of sampling effort

Montane Site

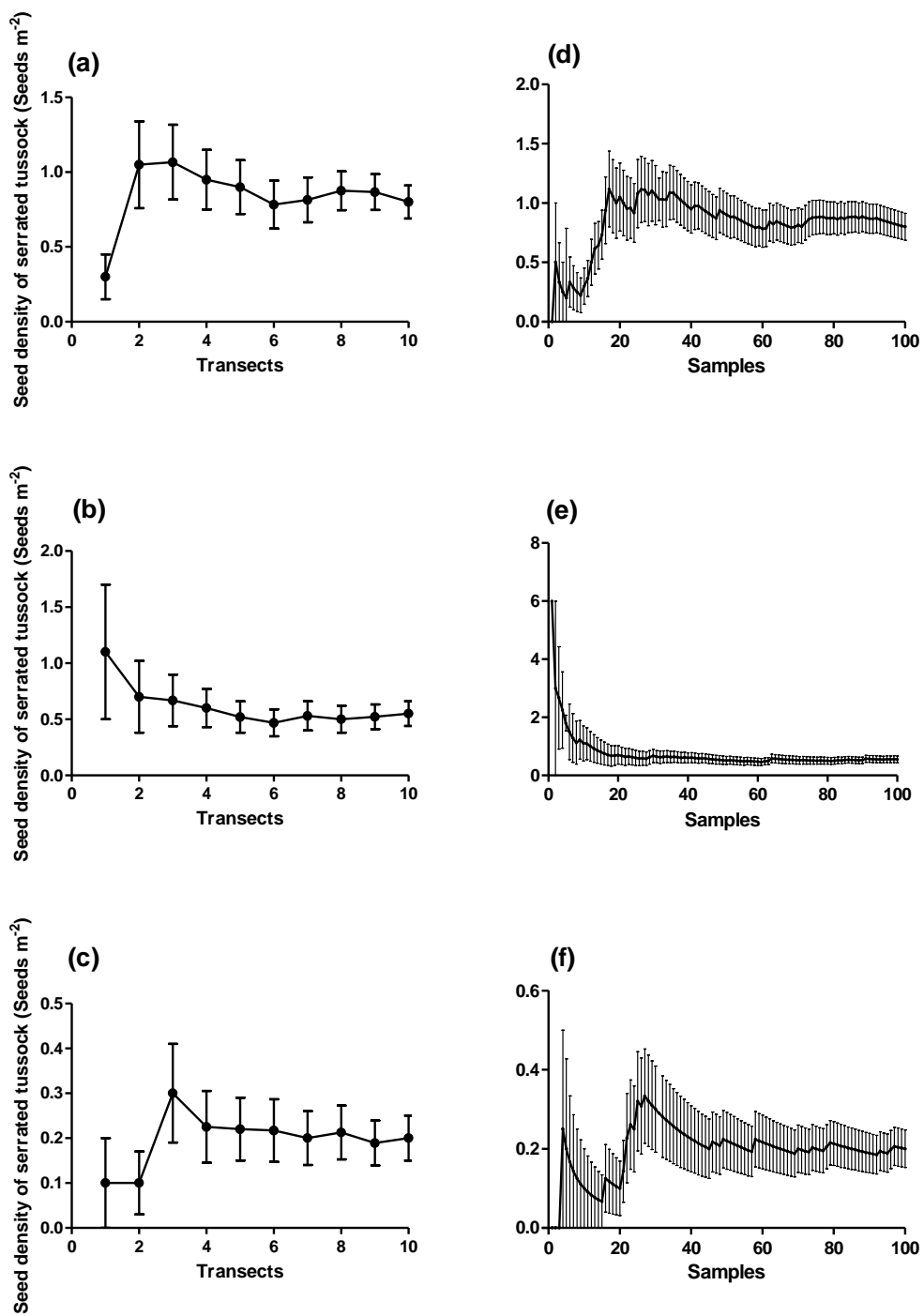


Fig. S1. Fluctuation of the mean (\pm s.e.) seed density of serrated tussock (seed m⁻²) at an increasing number of transects (a,b,c) and soil samples (d,e,f) in the montane site. The estimation was carried out following Matteucci and Colma (1982).

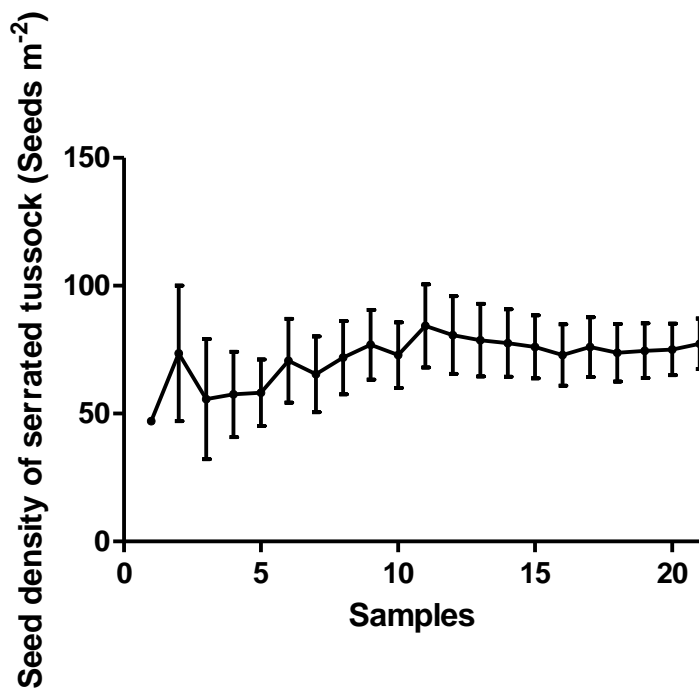


Fig. S2. Fluctuation of the mean (\pm s.e.) seed density of serrated tussock (seed m^{-2}) at an increasing number of soil samples at the pampas site. The estimation was carried out following Matteucci and Colma (1982).

Spatial relationship trend among transects at the Montane Site

Table S1. Coefficients of determinations obtained by regression analysis of the spatial relationship between the seed density of serrated tussock per transect and the cover of standing individuals of the same species in the montane site at each sampling date

The entire set of linear regressions showed no significant relationship ($P > 0.05$)

Sampling date	Coefficient of Determination (R^2)	P -value
March	0.045	0.5560
August	0.036	0.5952
December	0.178	0.2239

Spatial relationship trend among samples at the Montane and Pampas site

Table S2. Coefficients of determinations obtained by regression analysis of the spatial relationship between the seed density of serrated tussock per sample and the cover and density of established individuals of the same species in the montane site at each sampling date and pampas site on March

Coefficient of determination and *P*-values in bold indicate statistical significance ($P < 0.05$)

Variable	Month	Coefficient of Determination (R^2)	<i>P</i> -value
Montane Site			
Seed density sample ⁻¹ v. cover of established serrated tussock (%)	March	0.0486	0.0274
	August	0.0191	0.1708
	December	0.0389	0.0493
Seed density sample ⁻¹ v. density of serrated tussock (established individual sample ⁻¹)	March	0.0467	0.0174
	August	0.0039	0.5352
	December	0.0483	0.0280
Pampas Site			
Seed density sample ⁻¹ v. cover of established serrated tussock (%)	March	0.0085	0.6908
Seed density sample ⁻¹ v. density of serrated tussock (established individual sample ⁻¹)	March	0.0186	0.5550

Reference

Mateucci S, Colma A (1982) 'Metodología para el estudio de la vegetación.' (Secretaría General de la Organización de los Estados Americanos: Buenos Aires, Argentina)