

seed production similar to EG were identified, RI outperformed others in persistence and few materials combine both parameters (e.g., RL 200).

Conclusions

The principal component analysis reflected the relationship of the LR with the main factors of production. Breeding orientation determined an increase in the persistence and possible reduction in seed production potential. The differences witnessed among check cultivars in seed and forage production indicated that breeding has been focused on increasing persistence and maintaining desirable characteristics such as seed production. Natural selection (on-farm selection) has generated few landraces (LR 200) that combine good persistence and high seed production potential, which could be of interest to the breeding program.

References

- Altier N, Elhke NJ, Rebuffo M (2000). Divergent selection for resistance to *Fusarium* root rot in birdsfoot trefoil. *Crop Science* **40**, 670-675.
- Castro M (2008). *Lotus corniculatus*: cultivares evaluados en Uruguay durante 2007. En: Uruguay. INASE; INIA. Resultados experimentales de la evaluación nacional de cultivares de especies forrajeras anuales, bianuales y perennes. Período 2007. INIA La Estanzuela, Colonia, Uruguay. 71–74.
- Castro M (2009). *Lotus corniculatus*: cultivares evaluados en Uruguay durante 2008. En: Uruguay. INASE; INIA. Resultados experimentales de la evaluación nacional de cultivares de especies forrajeras anuales, bianuales y perennes. Período 2008. INIA La Estanzuela, Colonia, Uruguay. 67–70.
- Cuitiño MJ (2012). Relación entre producción de semilla y componentes de rendimiento en variedades criollas de *Lotus corniculatus* L. en Uruguay. Tesis de Maestría, Montevideo, Uruguay. Facultad de Agronomía. 145p.
- García J, Rebuffo M, Formoso F, Astor D (1991) Producción de semilla de forrajeras. Serie Técnica N° 2, INIA, Colonia, Uruguay.
- Pearson K (1901). On Lines and Planes of Closest Fit to Systems of Points in Space. *Philosophical Magazine* **2**(6), 559–572.
- Rebuffo M, Condon F, Cuitiño MJ (2005). Participatory collection of forage species in Uruguay. In 'XX International Grassland Congress: Offered Papers'. (Ed. FP O'Mara) pp.61. (Wageningen Academic Publishers).