

EVALUATION TRIAL OF LOTUS

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The trials are set up in deep and heavy textured soil, with 5,8 of pH and 3,5% of organic matter. Most of the information have been obtained with a cutting system simulating a rotational grazing with defoliations, each time the herbage reach 14-20 cm height and leaving a stubble of 3-5 cm. The varieties are sown pure after a good preparation of the seedbed and with a basic phosphate fertilization of 80 units of P_2O_5 .

The tables contains a summary of performance of Lotus varieties recorded at La Estanzuela during the last years, and more detailed information of the recommended varieties (consistently better).

At present, we are evaluating a range of 42 entries, including varieties and ecotypes of Lotus corniculatus, L.pedunculatus and L.tenuis.

YIELD OF LOTUS TRIALS AT LA ESTANZUELA

	Origin	>C: <C(1)	Relative yield(2)
LE Ganador	Uruguay	4:1	129
Oregon Narrow Leaf	USA	3:1	119
Cascade	USA	15:5	98
Granger	USA	3:1	101
San Gabriel	Uruguay		100
El Boyero	Argentina	8:4	100
Rodeo	Canada	1:0	113
Lot	Polonia	1:0	110
Mugello	Italy	2:1	104
Stirpe 9	Italy	1:2	98
Tana	USA	2:3	98
Franco	Italy	0:1	97
West Niever	Canada	1:1	95
Brandon 79	Canada	0:1	61
Gree	Canada	0:1	78
Leo	Canada	0:1	54
Viking	USA	1:3	84
Maitland	Canada	0:5	83
San Gabriel	Brazil	0:2	71
Early Otofte II	Denmark	0:3	66
Kimey	Chile	0:6	65
Wallace 23	Canada	0:2	63
Late Roskilde II	Denmark	0:3	48
Carroll	USA	0:4	55
Empire	USA	1:5	35

YIELD AND PERSISTENCY OF RECOMMENDED VARIETIES

	<u>Relative Yield</u>				Relative persistency(3)
	Annual	Spring	Summer	Autumn	
LE Ganador	129	108	210	152	161
Oregon Narrow Leaf	119	103	203	119	146
Cascade	98	106	191	128	80
Granger	101	90	140	121	102
San Gabriel	100	100	100	100	100

- (1) $>C:<C$, a ratio showing the number of environments (years x experiments) where a variety gave a greater ($>$) or less ($<$) result than San Gabriel (Uruguay).
- (2) Dry matter Relative Yields, referred to San Gabriel (Uruguay)
- (3) Dry matter Relative Yields of last Spring-Summer year, referred to San Gabriel (Uruguay).