

Table S1. Soil characteristic of the sites sampled. Basic physicochemical data, year of LP implementation and location of the sites are shown.

Site and management	Year when the LP was established	Cumulative P fertilization (kg/ha P ₂ O ₅)	pH	EC ¹ dS/m	P Bray 1 mg/kg	EA ² cmol _c /kg	Coordinates
SUL2 - NG	-	-	5.1	0.103	1.7	0.20	33°52'23"S; 55°35'21"W
SUL2 - NGLP	1994	695	5.1	0.123	4.6	0.15	33°52'23"S; 55°35'21"W
SUL4 - NG	-	-	5.1	0.108	1.1	0.22	33°52'4"S; 55°35'8"W
SUL4 -NGLP	1994	695	5.2	0.143	3.7	0.15	33°52'4"S; 55°35'8"W
SUL5 - NG	-	-	5.1	0.056	1.0	0.18	33°51'41"S; 55°34'51"W
SUL5 - NGLP	2005	463	5.2	0.134	0.9	0.24	33°51'41"S; 55°34'51"W
SCFR - NG	-	-	5.3	0.133	1.1	0.08	33°51'23"S; 55°21'4"W
SCFR - NGLP	2010	139	5.2	0.118	10.3	0.09	33°51'23"S; 55°21'4"W
SCFO - NG	-	-	5.2	0.152	2.8	0.11	33°51'29"S; 55°20'25"W
SCFO - NGLP	2003	212	5.0	0.144	2.0	0.13	33°51'29"S; 55°20'25"W

¹EC= electrical conductivity

²EA= Exchangeable acidity