

Table A1. Statistical Post Hoc Tukey p values for the measured soil parameters. The p values represent the results of comparisons made between the Driekop grassland and adjacent *P. patula* plantations and within the different age-classes of *P. patula* plantations. The p values shown were for comparisons made within seasons. Yellow highlighting indicates significance at the five percent level and red highlighting indicates significance at the one percent level.

		Driekop vs 2 yr old <i>P. patula</i>		Driekop vs 13 yr old <i>P. patula</i>		Driekop vs 30 yr old <i>P. patula</i>		2 yr old <i>P. patula</i> vs 13 yr old <i>P. patula</i>		2 yr old <i>P. patula</i> vs 30 yr old <i>P. patula</i>		13 yr old <i>P. patula</i> vs 30 yr old <i>P. patula</i>	
		Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer
Clay	soil	0.997	na	0.004	na	0.935	na	0.006	na	0.981	na	0.009	na
Silt (2-20µm)	soil	0.045	na	0.015	na	0.956	na	0.851	na	0.091	na	0.029	na
Silt (20-50µm)	soil	0.963	na	0.117	na	0.787	na	0.060	na	0.529	na	0.399	na
Sand	soil	0.028	na	0.381	na	0.670	na	0.003	na	0.138	na	0.081	na
Water content	soil	0.146	0.602	0.009	0.964	0.018	0.601	0.419	0.980	0.707	1.000	0.998	0.980
pH	soil	0.898	0.008	0.038	0.001	0.010	0.003	0.183	0.355	0.043	0.939	0.927	0.882
BASIC CATIONS													
Na ⁺	soil total	1.000	0.951	0.648	1.000	0.969	1.000	0.722	0.992	0.987	0.870	0.986	0.998
Na ⁺	soil exch	0.999	0.999	1.000	1.000	1.000	1.000	0.993	1.000	0.964	1.000	1.000	1.000
Mg ²⁺	soil total	0.029	0.620	0.013	0.309	0.014	0.416	0.996	0.996	0.997	1.000	1.000	1.000
Mg ²⁺	soil exch	0.001	0.054	0.001	0.032	0.000	0.020	0.944	1.000	0.817	0.987	1.000	1.000
K ⁺	soil total	0.299	0.324	0.285	0.311	0.440	0.358	1.000	1.000	1.000	1.000	1.000	1.000
K ⁺	soil exch	0.001	0.013	0.001	0.014	0.001	0.019	1.000	1.000	1.000	1.000	1.000	1.000
Ca ²⁺	soil total	0.139	0.997	0.468	0.954	0.070	0.743	0.956	1.000	0.999	0.970	0.757	0.999
Ca ²⁺	soil exch	0.122	0.907	0.036	0.360	0.015	0.191	0.967	0.923	0.704	0.695	0.994	0.999
Sum of exch Ca ²⁺ , Mg ²⁺ , K ⁺	soil exch	0.000	0.016	0.000	0.004	0.000	0.002	0.746	0.880	0.380	0.599	0.993	0.998
ACIDIC CATIONS													
Mn ²⁺	soil total	1.000	0.952	1.000	1.000	0.998	1.000	1.000	0.994	0.985	0.949	0.999	1.000
Mn ²⁺	soil exch	1.000	1.000	0.953	0.974	0.631	1.000	0.946	0.997	0.616	1.000	0.991	0.998
Fe ³⁺	soil total	0.919	0.451	0.876	0.788	0.995	0.847	1.000	0.996	0.999	0.989	0.997	1.000
Fe ³⁺	soil exch	1.000	0.987	1.000	0.998	0.176	1.000	1.000	1.000	0.171	0.929	0.110	0.972
Al ³⁺	soil total	1.000	0.937	1.000	0.994	0.999	0.995	1.000	1.000	1.000	1.000	1.000	1.000
Al ³⁺	soil exch	0.612	0.669	0.999	1.000	0.723	1.000	0.876	0.698	1.000	0.687	0.942	1.000
Exchangeable acidity	soil exch	0.266	0.833	0.975	1.000	0.358	0.999	0.680	0.657	1.000	0.589	0.809	1.000
Aluminium saturation	soil exch	0.226	0.229	0.435	0.640	0.126	0.436	0.998	0.968	1.000	0.999	0.955	1.000
Ca:Al	soil exch	0.164	0.996	0.225	1.000	0.134	0.998	1.000	1.000	1.000	1.000	1.000	1.000
TOTAL N, P, C													
N	soil total	1.000	1.000	0.863	0.992	1.000	1.000	0.798	0.999	1.000	1.000	0.832	0.994
P	soil total	0.356	0.940	0.806	0.999	0.435	0.999	0.975	0.999	1.000	0.999	0.993	1.000
C	soil total	0.219	0.108	0.108	0.922	0.941	1.000	0.999	0.440	0.054	0.096	0.027	0.892
C:N	soil total	1.000	1.000	0.891	0.984	1.000	1.000	0.986	0.887	1.000	0.998	0.927	0.994
Anaerobic N min index	soil	1.000	0.487	0.987	0.362	1.000	0.673	0.998	1.000	0.999	1.000	0.913	0.999