

Table 10. The mean and standard deviations of total basic and acidic cations, total N, P, C and C:N ratios for the foliage of the Driekop grassland and the lower (Lc) and upper (Uc) canopies of the 2, 13 and 30 year old *P. patula* plantations, during winter and summer.

		Units	Driekop Grassland				2 year old <i>P. patula</i> plantation				13 year old <i>P. patula</i> plantation				30 year old <i>P. patula</i> plantation			
			Winter		Summer		Winter		Summer		Winter		Summer		Winter		Summer	
			Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
BASIC CATIONS																		
Na ⁺	Lc total	mg kg ⁻¹	170	31	135	140	149	39	102	41	221	77	88	4	182	40	207	74
Na ⁺	Uc total	mg kg ⁻¹					162	11	93	14	178	20	126	36	189	31	295	153
Mg ²⁺	Lc total	mg kg ⁻¹	493	686	2724	1682	3109	409	1415	127	6400	3211	2587	506	5507	1759	1479	122
Mg ²⁺	Uc total	mg kg ⁻¹					1735	1780	1701	204	6240	1521	1870	628	4265	1102	1414	676
K ⁺	Lc total	mg kg ⁻¹	2458	1452	10917	12738	3688	1907	3148	1607	5124	706	3015	631	6851	1658	4718	3288
K ⁺	Uc total	mg kg ⁻¹					4333	561	4794	1465	6150	1136	2845	1022	5919	1707	2647	1097
Ca ²⁺	Lc total	mg kg ⁻¹	4961	1294	4846	2174	5075	1860	3684	973	7617	907	5217	2665	9423	2105	3540	996
Ca ²⁺	Uc total	mg kg ⁻¹					2754	702	2573	234	6337	2194	3556	1669	6887	1780	6887	1925
ACIDIC CATIONS																		
Mn ²⁺	Lc total	mg kg ⁻¹	1187	90	656	268	3986	1570	1760	794	8486	3151	3605	1690	5234	2875	1953	1660
Mn ²⁺	Uc total	mg kg ⁻¹					1599	352	1201	271	6575	2595	2928	1557	4306	2891	1303	883
Fe ³⁺	Lc total	mg kg ⁻¹	1218	58	561	255	271	48	152	21	200	49	179	130	191	40	106	28
Fe ³⁺	Uc total	mg kg ⁻¹					332	10	93	8	194	46	113	15	208	58	101	53
Al ³⁺	Lc total	mg kg ⁻¹	374	283	110	76	869	61	700	41	904	306	433	248	951	389	248	154
Al ³⁺	Uc total	mg kg ⁻¹					591	356	577	90	948	217	437	361	1034	491	528	47
TOTAL N, P, C																		
N	Lc total	%	0.49	0.15	0.53	0.13	2.06	0.01	0.86	0.07	1.72	0.16	0.79	0.13	1.95	0.16	0.98	0.07
N	Uc total	%					1.85	0.13	1.52	0.02	2.15	0.12	0.87	0.07	2.46	0.11	0.98	0.13
P	Lc total	%	0.05	0.01	0.10	0.03	0.15	0.03	0.14	0.04	0.12	0.05	0.12	0.05	0.16	0.03	0.12	0.05
P	Uc total	%					0.20	0.03	0.22	0.06	0.17	0.02	0.13	0.02	0.18	0.03	0.14	0.00
C	Lc total	%	54	4	38	4	52	3	41	1	53	4	39	1	50	1	37	3
C	Uc total	%					50	1	38	1	52	3	40	1	51	4	39	1
RATIOS																		
C:N	Lc total		115	29	73	13	25	1	48	4	31	1	51	7	26	2	38	5
C:N	Uc total						27	2	25	0	24	2	46	3	21	2	40	6
P:N	Lc total	%	10	2	20	6	7	2	17	3	7	3	15	5	8	2	13	6
P:N	Uc total	%					11	1	14	4	8	1	15	1	7	1	15	2
K:N	Lc total	%	49	19	179	198	18	9	36	17	30	4	38	4	35	10	48	31
K:N	Uc total	%					23	2	32	10	29	4	33	13	24	8	27	8