

Table 3. Minesoil microbial biomass carbon and nitrogen, potentially mineralizable nitrogen, and microbial respiration

Soil ID	Microbial Biomass Carbon mg/kg	Microbial Respiration ug-CO ₂ -C/kg/hr	Microbial Biomass Nitrogen mg/kg	Potentially Mineralizable Nitrogen mg/kg
Dal-Tex				
Gently Sloping				
23 yrs old				
1976-01	1080	1452	55	83
1976-03	659	780	76	79
1976-05	1111	1163	100	119
mean	950	1132	77	94
11 yrs old				
1988-01	989	2025	84	156
1988-03	786	1791	27	180
1988-05	1061	1098	102	95
mean	945	1638	71	144
7 yrs old				
1992-01	907	2288	62	172
1992-03	1506	2055	148	180
1992-05	1014	3971	78	248
mean	1142	2772	96	200
2 yrs old				
1997-01	219	104	13	27
1997-03	362	260	17	42
1997-05	216	133	20	34
mean	266	166	17	68
Strongly Sloping				
23 yrs old				
1976-02	618	1347	19	94
1976-04	387	261	22	55
1976-06	567	784	36	55
mean	524	798	26	68

Table 3. Continued

Soil ID	Microbial Biomass	Microbial Respiration	Microbial Biomass	Potentially Mineralizable
	Carbon mg/kg	ug-CO ₂ -C/kg/hr	Nitrogen mg/kg	Nitrogen mg/kg
11 yrs old				
1988-02	698	1632	50	103
1988-04	481	728	27	75
1988-06	669	1237	48	94
mean	616	1199	42	90
7 yrs old				
1992-02	789	1986	65	135
1992-04	573	592	62	30
1992-06	106	255	15	13
mean	489	944	47	59
2 yrs old				
1997-02	1236	2792	93	238
1997-04	799	467	49	156
1997-06	1031	676	68	115
mean	1022	1312	70	170
Natives				
Native-01	1171	988	90.0	70.8
Native-02	1885	1839	138.0	43.3
mean	1528	1414	114	68
Cannelton				
Gently Sloping				
30 yrs old				
1970-01	4893	6119	505	400
1970-02	2261	2810	203	269
1970-03	2898	3481	278	256
mean	3351	4137	329	308

Table 3. Continued

	Microbial Biomass	Microbial Respiration	Microbial Biomass	Potentially Mineralizable
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	Carbon		Nitrogen	Nitrogen
		ug-CO₂-C/kg/hr	mg/kg	mg/kg
16 yrs old				
1984-01	307	193	35	26
1984-02	220	271	12	39
1984-03	314	277	31	45
mean	280	247	26	37
Strongly Sloping				
Natives				
Native-01	883	526	91	57
Native-02	1120	1008	145	77
Native-03	1085	853	123	70
mean	1029	796	119	68
Holbet 21				
17 yrs old				
Gently Sloping				
1983-01	1822	1477	170	134
1983-02	1078	1050	98	102
1983-03	2885	2931	302	221
	1928	1819	190	152
8 yrs old				
1992-01	1455	1014	154	119
1992-02	675	798	58	103
1992-03	1264	686	112	111
	1166	833	108	111
Strongly Sloping				
Natives				
Native-01	1011	639	65	48
Native-02	834	658	73	60
Native-03	804	479	69	51
	883	592	69	53