

The proportion of different worker age classes (light : medium : dark) was 0.35 : 0.46 : 0.19 for workers sampled from within the nest of an intact colony, but 0.09 : 0.34 : 0.57 for ants coming to a bait near an entrance of the same colony (in each case n = 100). Light workers were virtually absent within the foraging area away from baits. These data and the ethogram in *table I* indicate a pattern of age polyethism typical of ants (WILSON, 1971),

Table I. — Behavioral repertoire of *Proatta butteli* workers. The relative frequency of performance of each behavior is given for each caste.

Tabelle I. — Verhaltensrepertoire von *Proatta butteli* - Arbeiterinnen. Tabelle gibt die relative Häufigkeit der jeweiligen Verhaltensakte an.

	Light worker	Medium worker	Dark worker	All workers
Self groom	0.3380	0.2383	0.2134	0.2805
Allogroom :				
light worker	0.0298	0.0352	0.0061	0.0242
medium worker	0.0070	0.0195	0.0031	0.0087
dark worker	0.0053	0.0078	0.0031	0.0052
queen	0.0035	0.0039	0	0.0026
Lick eggs	0.0385	0.0078	0.0031	0.0217
Lick small larva	0.0193	0.0078	0.0092	0.0139
Lick large larva	0.1296	0.1133	0.0823	0.1126
Lick pupa	0.0333	0.0352	0.0152	0.0286
Carry worker	0.0053	0.0352	0.0061	0.0121
Carry eggs	0.0385	0.0391	0.0244	0.0346
Carry small larva	0.0158	0.0156	0.0457	0.0242
Carry large larva	0.0280	0.1055	0.2439	0.1065
Carry pupa	0.0210	0.0586	0.0884	0.0485
Assist in :				
larval ecdysis	0.0455	0.0430	0.0061	0.0338
pupal ecdysis	0.0455	0.0508	0.0061	0.0355
adult eclosion	0.0298	0.0234	0	0.0199
Carry meconium	0.0105	0.0156	0.0152	0.0130
Carry dead worker	0.0018	0	0.0061	0.0026
Eat dead worker	0.0053	0.0039	0.0031	0.0043
Bite at brood	0.0736	0.0859	0.0945	0.0823
Eat damaged brood	0.0088	0	0.0092	0.0069
Eat solid food	0.0035	0.0078	0.0031	0.0043
Regurgitate to :				
larva	0.0053	0.0078	0.0061	0.0061
light worker	0.0193	0.0078	0.0396	0.0225
medium worker	0.0035	0.0117	0.0152	0.0087
dark worker	0.0053	0.0078	0.0366	0.0147
queen	0	0	0.0031	0.0009
Handle trash	0.0298	0.0117	0.0122	0.0208
No. acts observed	571	256	328	1155
No. behaviors observed	28	26	27	29