

Broadbalk earthworm data. Measured Sept 1979

Effects of long-term organic and inorganic fertilizer treatments on earthworm populations in plots of Broadbalk.
Continuous cereals since 1843.

Species	Plot 2.1 FYM +N2	Plot 2.2 FYM	Plot 9 N4 PKMg	Plot 8 N3 PKMg	Plot 7 N2 PKMg	Plot 6 N1 PKMg	Plot 5 PKMg	Plot 3 Nil	Standard error of mean	Degrees of freedom error mean square	F	F-test
<i>L. terrestris</i>												
No. m ⁻²	36.4	23.1	10.7	7.1	3.3	2.7	4	2.7	1.113	88	34.224	sig <0.01
Wt g m ⁻²	51.4	27.3	17.9	8.3	2	2.5	7.1	2.2	2.042	88	18.945	sig <0.01
<i>A. longa</i>												
No. m ⁻²	11.8	6.9	4.2	2.4	1.6	1.6	1.3	0.9	0.501	88	14.909	sig <0.01
Wt g m ⁻²	8.6	5	2.9	2.5	1.4	1.3	1.6	0.3	0.545	88	6.635	sig <0.01
<i>A. caliginosa</i>												
No. m ⁻²	13.6	19.6	5.3	5.8	4.7	1.3	0.4	0.4	0.885	88	24.006	sig <0.01
Wt g m ⁻²	3.1	3.7	1	0.8	0.8	0.2	0	0	0.274			
<i>A. chlorotica</i>												
No. m ⁻²	32.4	39.8	22.7	15.3	11.3	4.4	1.8	1.6	1.761	88	18.772	sig <0.01
Wt g m ⁻²	7.5	7.6	4.1	2.1	2	0.7	0.2	0.2	0.599			

N = 48 kg N ha⁻¹

Edwards, C. A. and Lofty, J. R. (1982) "Nitrogenous fertilizers and earthworm populations in agricultural soils",
Soil Biology and Biochemistry, 14, 515-521 [DOI: 10.1016/0038-0717\(82\)90112-2](https://doi.org/10.1016/0038-0717(82)90112-2)