

**Years in which Broadbalk soil properties were measured, 1966-2012, and chemical properties which were analysed.**

Year	Depth	%N	%SOC	Olsen P	pH	Exchangeable cations \$	CaCO <sub>3</sub>	No. plots
1966	Topsoil	✓	✓	✓ *	✓	✓ <sup>a</sup>	✓ *	129
1987-88	Topsoil	✓ *	✓ *	✓ *	✓ *	✓ *		151
1992-96	Topsoil	✓	✓	✓	✓	✓	✓	188
1997	Topsoil	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	150
2000 <sup>1</sup>	Topsoil	✓	✓	✓	✓	✓	✓	188
	Subsoil	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	97
2005-6	Topsoil	✓	✓	✓	✓	✓	✓	188
	Subsoil	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *	87
2008-12	Topsoil	✓	✓	✓	✓	(✓)	✓	188

**All plots and sections, except where shown as \*.** No data from Rotational sections (2-5 and 7) in 1997. This table lists the major soil samplings; other samples will have been taken from selected plots and sections in other years, to investigate specific questions.

\$Exchangeable cations – Ca, K, Mg and Na. <sup>a</sup>Exchangeable K only in 1996. No exchangeable Na in 1997. 2012 exchangeable cation data measured but not yet collated. Subsoil Na was measured in 2000 but has not been collated. The values are low and the blanks are high, often more than 30% of the total value.

<sup>1</sup> Many other soil chemical properties were measured in soil sampled in 2000: total elements by Aqua Regia digests, including total P, total K, total S, total Zn (all Sections); a range of exchangeable cations, in addition to Ca, K, Mg and Na, by Ammonium Acetate leachates (Sections 0 and 1 only).