## Excavations at Breedon-on-the-Hill, Leicestershire, 1966

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Sixteen samples were submitted for examination. The samples were treated in a similar way to those from the 1957 excavation (Biek, 1964) and results and specific descriptions are given in Table 1.

## H = high; M = medium; L = low

Sample series 1 were taken through the crest of the rampart. The colours indicate low levels of organic matter at the top and quite high iron contents. No sample contained many roots. The texture was constant throughout the series, but stoniness varied. Organic matter content appeared to increase from I to IV. The high organic content of the lower sample indicates a turf stack or line, over which has been placed material from the adjacent area, low in organic matter.

sample series 2 were taken through the rear of the rampart. Sample V showed evidence of a higher organic matter content than the other samples, with a good crumb structure. Calcium carbonate contents decreased from V to X but the texture of the matrix remained constant. Iron content was fairly constant in samples VI to X. The distribution of organic matter and iron with depth indicates a typical soil profile, but the acidsoluble material follows no obvious pattern.

Sample series 3 were taken through layers behind the rampart. Sample XI is not typical of a soil layer being artificial in part. Colour was constant below this (reddish), indicating high iron content. Texture was constant and calcoreov's content showed part obvious pattern. Organic matter content decreased from XII to XIV, as would be expected in a soil profile, but increased again in XV and XVI, possibly indicating the presence of turves.

AM No	Texture (matrix)	Colour (Wet)	Stoniness	Miscellaneous	Iron Content	Acid Soluble material % (matrix stones removed first)	Loss on ignition of acid insoluble material (ie organic matter content)	Site Ref No
	Loam	5YR 4/3 (reddish brown)	Common ( <del>1</del> cm to 4 cms) angular	Matrix stones crumb aggregate; roots present but rare, slightly calcareous.	Н	L (4.2)	L	E I 20 Sample 1
	Loam	5YR 4/4 (reddish brown)	Very common, ie forming most of the sample (12 cm to 4 cms) angular.	Structureless; calcareous	H	H (22.8)	L	E I 24 Sample II
SERIES	Loamy Sand	5YR 3/4 (Dark reddish brown)	Rare (‡ cm to 3 cm)	Structureless; calcareous; roots present but rare.	М	M (8.3)	M	E I 31 Sample III
	Sandy Loam	5YR 3/4 (dark reddish brown)	Present ( III: I and II); (up to 6 cms)	Crumb structure ( I); non- calcareous; roots absent.	L	L (2.1)	H	E I 26 Sample IV
	Loam	7.5YR 3/2 (dark brown)	Common (up to 2 cms)	Well-developed crumb structure; slightly calcareous Roots Common.	L	M (9.5)	H	EI 1 Sample V
Silver and				STATISTICS STATISTICS		Territoria (California de La California		

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meor	(dark reddish	(1 cm to 5 cm)	crumb structure calcareous; roots present but rare.	Н	H (16.6)	M	EIS Sample VI
Sandy Loam	2.5YR 3/4 (dark reddish brown)	Very common (up to 5 cms)	Structureless; calcareous; roots very rare.	H	H (20.4)	L	E I 24 Sample VII
Sandy , Loam	5YR 3/2 (dark reddish brown)	Common (up to 4 cms)	Structureless; non-calcareous roots small and very rare.	H	L (2.2)	М	E I 31 Sample VIII
Sandy Loam	5YR 3/3 (dark reddish brown)	Extremely abundant (up to 6 cms)	Structureless; calcareous; roots absent.	H	H (23.1)	M	• E I 30 Sample IX
Loam '	5YR 3/2 (dark reddish brown)	Present (up to 4 cms)	Weak crumb structure; non-calcareous; roots present but rare.	Н	L (5.1)	M	E I 26 Sample X
Sand	5YR 3/2 (dark reddish brown)	Bulk of sample made up of reddish stained angular pebbles and a black "cindery" material.	Structureless; calcareous; roots absent.	* H	H (22.1)	L	E I 2 Sample XI
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the second s	and the second se	and the second se	the second se				The state of the second s
Sandy Loam	5YR 3/3 (dark reddish brown)	Common (up to 2 cms)	Well Developed crumb structure; slightly	L	L (2.1)	H	E I 4 Sample XII
 Sandy Loam	5YR 3/3 (dark reddish brown)	Common (up to 2 cms)	Well Developed crumb structure; slightly calcareous; ' roots absent occasional small fragments of "cindery" material.	L	L (2.1)	H	E I 4 Sample XII
Sandy Loam Sandy Loam	5YR 3/3 (dark reddish brown) 5YR 3/3 (dark reddish brown)	Common (up to 2 cms) Abundant (up to 4 cms)	Well Developed crumb structure; slightly calcareous; ' roots absent occasional small fragments of "cindery" material. Weak crumb structure; non-calcareous; roots absent.	L	L (2.1) L (2.1)	H	E I 4 Sample XII E I 15 Sample XIII
Sandy Loam Sandy Loam Sandy Loam	5YR 3/3 (dark reddish brown) 5YR 3/3 (dark reddish brown) 5YR 3/4 (dark reddish brown)	Common (up to 2 cms) Abundant (up to 4 cms) Common (up to 4 cms)	Well Developed crumb structure; slightly calcareous; ' roots absent occasional small fragments of "cindery" material. Weak crumb structure; non-calcareous; roots absent. Crumb structure slightly calcareous; roots absent; contained small bone.	L	L (2.1) L (2.1) L (4.4)	H	E I 4 Sample XII E I 15 Sample XIII E I 16 Sample XIV
Sandy Loam Sandy Loam Sandy Loam Sandy Loam	5YR 3/3 (dark reddish brown) 5YR 3/3 (dark reddish brown) 5YR 3/4 (dark reddish brown) 5YR 3/3 (dark reddish brown)	Common (up to 2 cms) Abundant (up to 4 cms) Common (up to 4 cms) Common (up to 2 cms)	Well Developed crumb structure; slightly calcareous; ' roots absent occasional small fragments of "cindery" material. Weak crumb structure; non-calcareous; roots absent. Crumb structure slightly calcareous; roots absent; contained small bone. Weak crumb structure; non-calcareous roots absent; contained small bone.	L	L (2.1) $L (2.1)$ $L (4.4)$ $L (1.1)$	H	E I 4 Sample XII E I 15 Sample XIII E I 16 Sample XIV E I 17 Sample XV
Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam	5YR 3/3 (dark reddish brown) 5YR 3/3 (dark reddish brown) 5YR 3/4 (dark reddish brown) 5YR 3/3 (dark reddish brown) 5YR 3/3 (dark reddish brown)	Common (up to 2 cms) Abundant (up to 4 cms) Common (up to 4 cms) Common (up to 4 cms) Common (up to 2 cms) Abundant (up to 2.5 cm)	<pre>Well Developed crumb structure; slightly calcareous; ' roots absent occasional small fragments of "cindery" material. Weak crumb structure; non-calcareous; roots absent. Crumb structure slightly calcareous; roots absent; contained small bone. Weak crumb structure; non-calcareous roots absent; contained small bone. Weak crumb structure; non-calcareous roots absent; contained snail shell Very weak crumb structure; slightly calcareous; roots absent</pre>	L M L M	L (2.1) L (2.1) L (4.4) L (1.1) M (11.9)	H M L M	E I 4 Sample XII E I 15 Sample XIII E I 16 Sample XIV E I 17 Sample XV E I 17 Sample XV

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- SERIES 2

V A

SERIES 3

TABLE 1