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A REPORT ON THE PLANT REMAINS FROM RIGGS HALL, SHREWSBURY

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A Report on the plant remains from Rigg's Hall, Shrewsbury.

S. Colledge

RIGG'S HALL, SHREWSBURY.

A Report on the botanical remains from the site.

botanical

material from

The/work concentrated on/the early features which were cut into the natural sands and clays of the site and were sealed by the 'bank' material. The two pits, F7I and F124, which were cut by the wattle-lined gully, proved to have secause of the vistale charcoal flecks and secause. The dating of these pit which had the line of stakeholes around one inside edge. The dating of these pits relied on the pottery within the fills. Stafford-type were was found in the group of features which were out into the natural sands and clays, which implies a 10th to 11th century date for the pits.

Samples were collected by the excavator as the pits were dug. The different layers within F7I were sampled and one bulk sample was taken from the fill of F124. Most of the samples consisted of a light, sandy soil, (with some clay lumps) and in all the samples there were charcoal flecks throughout the soil matrix. To separate any charred remains it was necessary to soak the sample in warm water, with gentle agitation and then to pour off the flotant through a 300 micron sieve. The disaggregation of the samples caused no problems and it was sufficient to repeat the washing down process three times. The flotant was dried slowly in an oven and then sprted under a binocular microscope. The residue which was washed through a 500 micron /was checked carefully for small bones and pottery.

All identifications of seeds were made using reference material. The lists of plant species represented by the remains in the pitfills are given in the the table. The numbers of seeds are given for each layer which was sampled. In nit P/I the layers are: 172, 253, 259, 295 and the bulk sample from pit P1/4 is from layer 2)6. In all the samples there was a predominance Avena sativa , the cultivated oat, was identified by the flower bases which were also preserved and which are quite distinct from the bases of Avena fatua the wild oat. The parley was hulled and the grains were recorded according to whether they were 'straight' or 'twisted'. If the samples contained 6-row barley it would be expected that approximately two thiris of the grains would be assymmetrical(twisted) and that the remainder would be symmetrical. (straight) All the grains in 2-row barley are symmetrical. to be able to determine whether the barley was of the 2-row or 6-row variety. Most of the wheat was club wheat, Triticum aestivum L. aestivo-compactum Schiem., this is and a distict species, but represents a continuous interpreeding group. (Schiemann 1944) citioum spelta, spelt wheat was present in smaller quantities than the club wheat. Lie als found in three of the layers of pit F/I. For many of the wild plants, which the charred with the cereals, it was impossible to identify them to species level, the was because of the poor preservation which often obscured the characteristics of ្ត ១០០៤៨ .

Lists of the plant species represented by the potanical remains found in pit F71 and pit F124.

:			Numbers of seeds present						
ï	CHARRED SEEDS				t F7I			Pit FI24	
	Cultivated plants	•	172	<u>253</u>	252	295		<u>296</u>	
	Avena sativa L.	Oats	100	227	7	34		2	
	-flower bases		X	ж.	*	X			
	Hordoum vulgare L. emend, Lam.	Hulled barley straight twisted	2	ı	3	5 6			
	cf. Secale cereale L.	нув	I	5		7			
	Triticum aestivum L.	? Club wheat		5	2	II			
V	Transtivo- compactum Schiem.								
	Tritioum of spelta L.	Spelt wheat	•	Ì	I				
	Wild plants								
,	cf. Bromus sp.	Brome	•	5 -	7-		,		
	Carex sp.	Sedge	3	2		,			
	Galium sp.	Bedstraw	· ·	3	1				
	Gramineae sp.	Grass	4	3	5 -	II			
	cf.Caleopsis sp.	Hemp nettle		1		I			
	of. Oenanthe sp.	Dropwort	16	17		2 I			
	Prunus spinosa L. Vicia sp.	Sloe Vetch		2	I				
	Corylus avellana L.	Hazel nut shell fragments	x			x			
	Unidentified species		I	I		I			
	UNCHARRED SEEDS								
٠.	Rubus fruticosus agg.	Bramble	m	m	m	m		m	
	Sambucus nigra L.	Elder	m	m	m	m			

(x-indicates the presence of, m-indicates many)

(Approximate volumes of samples which were washed down:-

Pit F7I layer 172 3 litres

" 253 5 litres

" 259 8 litres

" 295 20 litres

Pit F124 " 296 5 litres

The assemblages from the pits represent it crops which were being cultivated at the time, together with some of the weeds of the cornfield. The grasses, arome and vetch would have been common weeds. Godwin (1975) states that glub wheat did not become an important 'bread plant' in England until historio times, at Rigg's Hall it is more abundant than the spelt wheat, which was the dominant crop in Roman times. on Iron Age, Roman, Anglo Saxon, Viking and Medieval Godwin records 🧬 oats 🗀 sites. Rye became established in the Roman period and thereafter became a common crop. Similar assemblages of cultivated plants have been recorded from Medieval (IOth -I4th century) Flaxengate in Lincoln and Late Saxon Marefair in Northampton 1979 At Flaxengate, from a number of different contexts, there was also a predominance of oats, with glub wheat next in abundance, some spelt wheat, barley and rye. The Late Saxon context at Marefair had higher values for olub wheat but there were large numbers of gats. At both sites the presence of the horsebean, Vicia faba , was recorded and at Plaxengate a probable cherry stone was found. At Rigg's Hall in layer 295 of pit F7I there was a charred sloe, Prunus spinosa, showing that the fruit pulp as well as the stone had been burnt. The presence of food plants other than cereals in the pitfills emphasizes the 'domestic' nature of the deposits. . There is little to distinguish between the plant assemblages in the different layers of pit F7L. As with nearly all charred remains in pits it is impossible to be certain of the cause of burning which led to the preservation of the seeds. There could overheating whilst stored crops were being dried and the debris then swept into a convenient pit. For the two pits at Rigg's Hall there were no indications that the burning was of a deliberate, 'industrial' nature.

It is interesting to note at Flaxengate there were also uncharred seeds preserved with the charred cereals and that these were mainly Sambucus nigra, the elder. At Rigg's Hall in pit F7I there were high proportions of uncharred Sambucus nigra and Rubus fruticosus, the bramble/ If these seeds were contemporary with the charred remains it would not have been possible for them to have become preserved by waterlogging, the pits were damp but did not hold much water. It is more probable that the seeds became mineralised, involving the replacement of the organic structure of the seeds by calcium phosphate or calcium carbonate. (Green 1979) A replica of each seed is produced and is resistant to decay. The process of replacement is dependant on the the mineral content in the surrounding soil matrix. Conditions are favorable in hard water areas and if lime is added to the deposits, But at Rigg's Hall there is the possibility that the clder, and bramble seeds were contaminant they could have filtered down through old root holes or in pit F71 they could have passed down the stakeholes and this could have taken place at any time after the pits: were disused. At Quilter's Vault, Southampton (Green 1978) there was /large numbers of elder and bramble seeds in the deposits, it was stated that these were mineralised but also that they could have entered the feature via root holes or natural disturbance subsequent to its filling.

The purpose of the two pits poses another problem. In the discussion of the

Saxo-Norman levels at Waltham Abbey, Essex (Huggins 1973) a series of pits were mentioned. Two of these pits had stakeholes in them and one was very similar to pit F7I at Rigg's Hall, with a line of holes around one inside edge. Because of the possibility of structures such as screens or 'horizontal latrine bars' it was suggested that the pits could have been latrines, with such limited evidence the suggestion was obviously tentative. The same must apply to F7I and F124 where the nature of the preservation of organic remains only allows them to be grouped under the large heading of 'rubbish pits'.

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