ANK Report 2654

ELPHAN PALACE : Report on the Plant Remains

by M.A.Monk.

The samples. Eight samples of fhoated and sorted carbonised grains and seeds were submitted to the author for identification and analysis. The results of these identifications are listed in Table 1.

The Plant demains. The remains were recovered from seven different contexts, ranging in type from ground surfaces associated with buildings to beam slots, postholes and midden deposits. Three contexts were of late 12thC date (three surfaces associated with a building), one was of llthC date (a possible beam slot), and two were of 13thC date (aburnt area and a midden deposit). There were, in addition, two post holes of indeterminate date. All the deposits produced material, though the beam slot and the two post holes produced the least material.

Most of the remains recovered were of carbonised cercal grain fragments. Very little can be said of this material with regard either to context type or date, although it is likely that most of it had accumulated as a result of casual loss and carbonisation of grain intended for domestic use (milling etc.) after storage. This would particularly be the case for the material from the floor layers/ ground suffaces in association with buildings.

The majority of the grains from all three phases taken together would appear to be some form of wheat - <u>Triticum</u> sp. (precise identification was prevented by the deformed state of the grain and general lack of diagnostic features, a common problem where only grain is present). However, in the case of D 191 127 in the fill of the late 12thC building, several wheat grains appeared to bear some similarity to the species <u>Triticum aestivum</u>. The second most significant cereal grain in the samples was Rye (<u>Secale cereale</u>) which appeared both in the late 12thC sample from the building fill mentioned above and in the 15thC sample from the midden layer, D226 135. These grains were characteristic lly either elongated and bullet shaped lith a twist at the embryo and a blunt apex, or rather stubby with a high backed dorsal aspect but again blunted at the apex and clightly twisted at the embryo end. ELTHAM:

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In addition to these two cereals there were a few grains of <u>Hordeum</u> <u>sativum</u> (the Barleys) and <u>Avena</u> sp. (Oats) which could not be identified to species, in the case of parley because of the absence of rachis and in the case of oats because of the lack of lemma bases. These cereals were found in both the 12 and 15thC samples and in the case of Oats also from the llthJ beam slot, D258. Apart from the cereals the only other cultivar present in the samples was the Field Pea, <u>Pisum sativum</u>, two examples of which were recovered from the 13thC midden deposit.

All the samples contained one or more seeds of weeds of cultivation, but principally <u>Rumex</u> sp. (the Docks) and <u>Vicia</u> sp. (one of the small vetches). From context D202, the layer within a late 12thC building, came one carbonised fargment of a hazel nut, which probably derived from domestic waste like the rest of this collection.

Interpretation. Little can be said of this group of carbonised material with regard to temporal changes as the quantity of items and the number of samples was so small. However, it will be noted that those contexts which contained the largest quantity of material were either floor layers in buildings or midden deposits. This may indicate casual loss and accidental carbonisation during domestic processing into flour subsequent to bulk-storage. The presence of weed seeds in these deposits may again be accidental of may serve to indicate that medieval crop cleaning was not particularly efficient.

The cultivars tresent in this collection of samples, Bread wheat, Barley, Rye and Feas were, according to both the documentary record and palaeoethnobotonical evidence, common medieval crops (Green pers, com. and forthcoming N.Phil thesis). However, the presence of Rye in these samples is quite significant since as yet there have been few remains of this species found from early medieval contexts, although Rye is often mentioned in the documents, particularly the agricultural returns of the large estates such as the 15th/14th century inventories of the Sishopric of Sinchester recently studied by Titow (1972). Rye first came to North West Surope either as a crop in its own right or as a weed of wheat(Hillman 1978). By the Late Soman and Sarly Dark age

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period it was almost certainly being grown as a crop in its own right(van Zeist 1970). In traditional farming communities today, Rye as a contaminant of wheat is often tolerated in the final, storage product and the flour from the wheat/rye mixture is often thought to produce superior bread (Hillman 1978 and pers. com.).

This collection of carbonised material from Eltham provides useful evidence for the presence of the major crops, but because of its small quantity it is of limited value in assessing the relative importance of each crop present or in giving reliable evidence of crop processing.

References:

Hillman, G. (1978) On the origins of domestic Rye

Anatolian Studies 28 (in preparation).

Titow, J.Z. (1969). <u>Winchester Yields</u>. <u>A study in Medieval Agricultural</u> <u>Activity</u>. Cambridge University Press. Cambridge. ven Zeist. W. (1968) Prehistoric and Early Historic Food Plants in the Netherlands. <u>Palaeohistoria</u> 14, 152-173

(particularly p 160-161).

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	н. Н		
E P 77. D 191 127 Fill of	building. Late 12thC	. Nos.	
Triticum sp. (cf. aestivum)	(Wheat)	12	Grains very
Triticum sp.	(")	17+9f	battered and
Triticum sp. (deformed)	(11 ¥	3	deformed.
cf. Avena sp.	(Oats)	1	
cf. Secale cereake	(Rye)	4	
Legume		1.	
Rumex sp.	(Docks)	1	
Compositae cf. centaurea sp.	(cyanus)	l	
新安):朱安谷安长大安,大部分等。	*************************************	****	
E P 78. D 258 154 Beam slot?	of late llthC buildi	ng, later r	ecut as a ditch.
Avena sp.	(Oats)	1	
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E P 77. D 202 128 Layer within	n a b uil ding - occup	ation Late	l2thC.
cf. Triticum sp.(deformed)	(Uheat)	3+lf	
Hordeum sp.	(Barley)	1	
Avena sp.	(Oats)	1.	
Vicia sp. (small)	(Vetch)	lf	
Rumex sp.	(Docks)	1	
Corylus avellana	(Hazel)	lf	
Bromus sp.	(Brome)	1	
*******	******	*****	
E P 78. D 183 155 Ground sur	face by building,Lat	e 12thC.	
cf. Triticum sp.	(Wheat)	2 f	
cf. Vicia sp.	(Vetch)	1	
Carex sp.	(Sedge)	1	

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E P 78. D 183 157	Burnt area early 1	.3thC.
cf. Triticum sp.	(inheat)	lf
Avena sp.	(Oats)	1
Vicia cf. sativa	(Common Vetch)	2
Vicia sp. medium-sma	ll (Vetch)	6 f
Atriplex sp. Modern		1.
Polygonum sp.		1
cf. Polygonum sp.		2 f
Plant capsule - inde	t.	
*****	*********	* 《* * * * * * * * * * * * * *
E P 77. D 224 134	Remains of a Post i	from a Post Sole?
cf. Jecale cereale	(Rye)	1
Vicia sp.	(Vetch)	1
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E P 77. D 159 107	Post Hole Fill.	
cf. Triticum sp.	(Wheat)	1
Cereal grain indet.		1
****	n 略示学者:"兴兴行,"、"来来来"的第三章	* * * * * : * : * : * : * * *
E P 77. D 228 155	Midden Layer. Earl;	y ljthC.
Triticum sp.	(Wheat)	2
Hordeum sp.	(Barley)	l _t
Avena sp.	(Oats)	2
cf. Avena sp.	(11)	l
Secale corcale	(Rye)	13
Cereal grain frags.		7+2f
Vicia sp. medium	(Vetch)	5+3f
cf. Vicia sp.	(")	1
Pisum sativum	(Pea)	2
Fumaria sp.	(Fumitory)	1
	a for a sure set	

f = fragment