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A Report on the plant remains from a 15th century pit in the Cox Street site, Coventry.

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The site was in the centre of Coventry and consisted of a small, deep trench due against the old town wall. At the time that the site was visited there was a good section in the side of the trench. A pit showed up clearly in this section because its fill was much darker than the surrounding layers. The pit was at the base of the section and was close to the foundations of the wall. On examination of the fill it was clear that plant remains eg. twigs and wood / had been preserved by waterlogging. A bulk sample (F57) was taken from the pit by cutting back the section. A subsample was then taken so that the deposit could be examined for pollen. The bulk sample was washed and sieved / a 300 A mesh/ this process was repeated until all the organic material was separated and only clean sand remained. The flotant was paraffined to separate the insect remains. Float and residue from this process were stored in alcohol and were then sorted for plant and insect remains under a low power binocular microscope. The sample was very rich in remains. All identifications were made using modern reference material. The plants represented by the seeds found in sample F57 are listed below according to habitat preference.

Sample F57 has a possible late fifteenth century date. It precedes the construction of the town wall, which formed part of the Medieval defences of Coventry. The pit cut through several rubole layers and these showed signs of being associated with habitation because of the presence of quantities of pot, tile, bone and leather. The excavator recorded finds of leather, pot and shell within the pit. Whilst washing down the bulk sample it was noticed that it had a 'matted' feel and appearance which was possibly because of layers of sample to the respected vegetation.

The plants represented by the macroscopic remains in the sample

oblem is one of sorting out whether vegetation has been brought to ne site from surrounding land or whether it has grown locally. The pargest group of species was of those associated with cultivated and waste land, amongst which there were obvious cornfield weeds eg. the corn cockle, corn marigold and cornflower. Cereal grains weren't detected in the deposit although the caryopses do not survive well under such conditions / they become 'papery' and fragile when waterlogged It is interesting to note that the pollen record shows much cereal pollen, in fact over 50% of the total pollen sum. The cereals and grasses make up $\frac{3}{4}$ of the total pollen. The pollen record shows the presence of Compositae, Chenopodiaceae and Cruciferae, certain species of which are also evident in the macroscopic remains and which are The pollen of the common weeds of arable land / Plantago lanceolata, which is an important indicator species is present in low frequencies. The seeds of plants from wet habitats are dominated by the abundance of sedges although the absence of aquatic pollen types poses a problem. Meadowland and heathland plants are represented in the macroscopic remains, The presence of heathland species is interesting and suggests that vegetation was being brought into the town from surrounding land suggests that vegetation together with species which inhabit waysides and hedgerows. Within the of cultivated and waste land plants category/I have listed the species of Brassica and these are

commonly recorded as 'escapes from cultivation' and are put amongst the 'weedy' flora.

Polunin (1969) states that Brassica napus is grown for its taproot for food or fodder and that Brassica nigra is grown for its seed which is used to make the condiment, mustard, or for its oil which can be used in soap making. Dennell (1970) records

At the Cox Street site there is no definite evidence to confirm the use of discusses them with respect to their deliberate cultivation. Trees cultivated Brassica species.

also represented in the pollen record and there is no way of

isternining whether this indicates local growth of the species.

From the macroscopic and microscopic remains it would seem that the cereals, grasses and associated weeds dominated the flora.

any pits which are found to contain organic remains are grouped nder the general heading of 'cess pits' because they have preserved he remains of food plants eg. blackberry and raspberry seeds, apple pips etc. which had probably been deposited in human excrement. The sample F57 was outstanding for not having this floral element. As the indications to suggest the depositing of sewage are no / it could be that the pit was used as a dump for domestic refuse, in particular the floor sweepings from a house. According to documentary evidence it was common to use straw and rushes as a form of carpeting to cover bare stone floors. There were, advantages in that these carpets were disposable and could be regularly cleaned out and new vegetation put down. (Mabey 1977, pp 140-143) This would explain the 'matted' nature of the deposit which could have resulted from the compaction of the stalks of the cereals, grasses and sedges. Cereal and grass pollen could have been transported on the bracts of the flower heads of the plants. (Robinson and Hubbard, 1977). The weeds from the fields where the crops were grown could have been gathered in by accident and possibly strewn on the floors too. Mabey (I977) quotes from 'The Herball or Generall Historie of Plantes ' written by John Gerard in I633, to illustrate how other plants were used for carpeting, in particular the sweet smelling species such as Meadowsweet:

'The leaves and floures farre excell all other strowing herbes, for to decke up houses, to straw in chambers, halls and banqueting houses in the sommer time; for the smell thereof makes the heart merridelighteth the senses.'

There are some finds from the sample F57 which require further explanation. The five Cannabis sativa seeds are an interesting iscovery. There are records of Cannabiaceae seeds and pollen having preserved in retting pits and this suggests that the plant and also for hempen cloth.

a find of hempen rope from the Roman well at Bar Hill but that this could have been an import and it seems uncertain the date of introduction of the plant and its subsequent that the hemp was being grown for commercial purposes. The auseful herb, Polunin (1969) states that it is sometimes used as pot herb and to flavour beverages. Clapham, Tutin and Warburg (1962) record it as a 'garden escape' often found growing near to houses. This find would seem to support the idea of the pit being/associated with habitation.

The 'clean' nature of the pit at Coventry is highlighted when comparison is made with the contents of obvious cesspits, latrines and drains. At the Woolster Street site in Plymouth there were many remains of food plants found in the sewer deposits (Dennell 1970). Fruit stones and pips of fig, plum, greengage, cherry, blackberry, raspberry and grape were discovered together with nut shell fragments of walnut, almond and hazelnut. Most of the fuits could have passed through the human gut and the indigestible pips etc. would have been deposited in the excrement. The nut shells would probably have been thrown away with other 'household rubbish. A cesspit of late thirteenth - early fourteenth century date was excavated in Goss Street, Chester. A sample from the bottom of the pit was examined for plant remains (Wilson 1972/73). The sample consisted mainly of fruitstones with a small amount of adherent material. A large majority of the stones were from sloes and bullaces (Prunus spp.). Other seeds from edible plants were noted to be fragmentary and the author states that this would be in accordance with the idea of grinding food prior to eating or even chewing during eating. This evidence is used to suggest that the remains of the food plants had passed through the human gut. A fifteenth century barrel latrine was excavated in Worcester and the deposits within contained the remains of twenty kinds of

dible plants (Greig in press). In pollen preparations of samples from the barrel there were intestinal parasité ova and this showed that some of the deposit must represent human faecal material.

The contents of the Coventry pit were completely different from those described above. There is no positive evidence to prove that it was a was cesspit but/probably a hollow where floor sweepings and other household rubbish were thrown.

N.B. This study will not be complete without examination of the insect remains from F57. Preliminary identifications have been made (with help from P.J. Osborne) but more work is needed.

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seed list from sample F57

	•	<u>cultivated</u>	3	woato	amound
checies	OI	cultivated	anu	wasic	ground
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Species of carrivation and				
Agrostemma githago L.	Corn cockle	I9		
Anthemis cotula L.	Stinking mayweed	-4		
	Common orache	8		
Brassica cf. napus	Rape (etc.)	II	Escare 5:	
Brassica cf. nigra	Black mustard	20	,	
Brassica sp.		I3	11	,
Cannabis sativa L.	Hemp	5	A possible	
Centaurea cyanus L.	Cornflower	7		
Chenopodium album L.	Fat hen	9		
Chenopodium cf.	Fig-leaved goosefoo	t. 8		
ficifolium Sm	•			
Chrysanthemum segetum L.	Corn marigold	26		
Petroselinum	Parsley	15		
<u>crispum</u> (Mill.)Nym	•			
Polygonum aviculare agg.	Knotgrass	7.		
Ranunculus sardous Crantz	Hairy buttercup	I		
Silene cf. vulgaris	Bladder campion	I		
(Moench)Garcke	%* -			
Sonchus asper (L.)Hill	Prickly sow-thistle	2		
Urtica dioica L.	Stinging nettle	2		
Viola cf. tricolor	Wild pansy	I		
Species of pasture and mea	adow land	٠		
Chaerophyllum aureum L.		I		
Daucus carota L.	Wild carrot	2		
Hypochoeris radicata L.	Cat's ear	2		•
Leontodon taraxacoides	Hairy hawkbit	I		
(Vill.)Mérat		-		
,	Self heal	3		
Ranunculus cf. acris/	Buttercup	13		
bulbosus/repens		-5		•
		,		
Species of hedgebanks and				
	Nipplewort	I	•	
firs echioides L.	Bristly ox-tongue	I		
sp.	Dock	7		

1:4-a	<u>pecies</u>
e:	disti

cr. disticha	Brown sedge	24
r cf. divisa	Divided sedge	20
x cf. elata	Tufted sedge	I 5
cf. flava group	Yellow sedges	II
ex cf. nigra	Common sedge	3
ex cf. rostrata	Bottle sedge	2
sacus cf. fullonum ssp?	Teasel	I
ocharis cf.	Spike rush	IO
uniglumis/palustris		

pecies of heathland

Potentilla erecta	Common	tormentil	33
(L.)Räusch.			
Stellaria graminea L.	Lesser	stitchwort	2

Pollen percentages from F57 (expressed as %'s of total pollen)

Tree pollen			Non_tree_pollen	
Alnus Betula Corylus Quercus	Alder Birch Hazel Oak	2% I% . 4% I%	Cerealia Cereals 54% Chenopodiaceae 3% Compositae: Centaurea cyanus Cornflower 1%	6
(Fraxinus Salix Sambucus nigra	Ash Willow Elder	< 1% < 1% <1%)	Centaurea nigra Knapweed I% Liguliflorae I% Tubuliflorae 2% Cruciferae I% Gramin eae Grasses 27% Plantago Plantain I% lanceolata	,
			(Artemisia cf. Borago cf. Borago EricalesBorage Heather1%Polygonum aviculareKnotgrass1%Ranunculaceae Rumex Umbelliferae< 1%	

(= liss than)