

**Bridge Street, Ipswich (IAS 6202) Wood.  
Pete Murphy 18/10/83**

Large quantities of wood and timber were recovered during excavation, both in situ as components of revetments and other structures, and also as isolated pieces from dismantled or collapsed revetments. Sections were cut from the principle pieces of wood and these were retained for examination.

The wood was initially sorted into oak and non-oak, and oak wood suitable for dendrochronology was separated. Of the remaining material only wood from well-defined structures has been identified. This is listed in Table 3.

The structures will be discussed in turn, before considering some aspects of the overall significance of the wood from the site.

The structures.

(1) Mid-Late Saxon structures (404, 386, 448, 405/439).

Characteristics of the wood from these structures are summarised in Table 1. The most obvious feature is the absence of large timber and the extensive use of untrimmed stakes, posts and horizontals. In order of abundance this untrimmed wood comprises hazel, oak, holly, ash, birch, alder, sloe (?) and elm. Centrally split posts of hazel and sloe (?) were also used. The only squared pieces are of oak (0386 0420) and birch (0404 0434)\*, and these are not cut from large timber.

(2) Late Saxon structures (258/275, 384, 500, 553, 557, 602, 603, 604, 605).

Compared to the Mid-Late Saxon revetments, the Late Saxon structures show a markedly increased use of squared beams, planks and posts, mainly of oak and ash. (Table 2). Some of these are cut from more substantial stems, up to about 30cm in diameter. Untrimmed wood cut from stems less than 10cm in diameter continued to form a substantial component of the revetments and this consists, in order of abundance, of hazel, ash, oak, hawthorn-group, alder, birch, holly, willow and sloe(?).

254 11th/early 12th century revetment.

This revetment consisted of mainly large thick vertically-set planks. The three samples examined were of oak, made of radial sections from

Footnote. \*Omitted from Table. Size not determinable.  
Also 0404 0433: sample mislaid.

Table 1: Wood identified from Mid-Late Saxon structures.

Fragmentary samples whose dimensions could not be determined are omitted. Sizes refer to the original stem from which the wood recovered on site had been cut. Taxa are listed in order of abundance.

|                               | Round (or part-trimmed) stakes,<br>posts, horizontals etc. |        | Squared & split beams, posts etc. |        |
|-------------------------------|--|--------|-----------------------------------|--------|
|                               | > 10cm.  | <10cm. | 10cm.                             | <10cm. |
| <u>Corylus</u> sp. (hazel)    | 1  | 10     |                                   | 1      |
| <u>Quercus</u> sp. (oak)      | 4  | 6      | 1                                 |        |
| <u>Ilex</u> sp. (holly)       |  | 5      |                                   |        |
| <u>Fraxinus</u> sp. (ash)     | 1  | 3      | -                                 |        |
| <u>Betula</u> sp. (birch)     |  | 3      |                                   |        |
| <u>Alnus</u> sp. (alder)      |  | 1      |                                   |        |
| <u>Prunus</u> sp. (sloe etc.) | -  | 1      | 1                                 |        |
| <u>Ulmus</u> sp. (elm)        | -  | 1      | -                                 |        |
| Other diffuse porous          |  | 2      |                                   |        |

Table 2: wood identified from Late Saxon structures.

This table includes a total of 107 samples (some were deleted since they were very fragmentary or consisted only of bark). Sizes refer to the diameter of the original stem from which the wood recovered on site had been cut. Taxa are listed in order of abundance.

|                        |                  | Round (or part-trimmed) stakes<br>posts, horizontals etc. |       | Squared beams, planks, stakes etc. |       |
|------------------------|------------------|---|-------|------------------------------------|-------|
|                        |                  | '10cm   | <10cm | 10cm                               | <10cm |
| <u>Quercus</u> sp      | (oak)            | 2   | 11    | 12                                 | 3     |
| <u>Fraxinus</u> sp     | (ash)            | 2   | 12    | 3                                  |       |
| <u>Corylus</u> sp      | (hazel)          | -   | 13    | 1                                  | 1     |
| <u>Alnus</u> sp        | (alder)          | -   | 5     | -                                  | 2     |
| <u>Crataegus-group</u> | (hawthorn group) | -   | 7     |                                    |       |
| <u>Betula</u> sp       | (birch)          | 1   | 4     |                                    |       |
| <u>Ilex</u> sp         | (holly)          | -   | 4     | -                                  |       |
| <u>Salix</u> sp        | (willow/sallow)  | 1   | 2     |                                    |       |
| <u>Prunus</u> sp       | (sloe etc)       | 1   | 1     |                                    |       |
| <u>Populus</u> sp      | (poplar)         |   |       | 1                                  |       |
| Indet. diffuse porous  |                  | 1   | 16    |                                    | 1     |

large timber (256, 268, 269). In addition several vertical and slanting posts were sampled. 348 was a segment of oak; 343 a trimmed post of oak and 346 an untrimmed post of birch (Betula sp.).

0566 ?12th century waterfront structure.

This partly collapsed structure was entirely constructed of oak (Quercus sp.). Most of the wood consists of squared oak beams and possible posts cut from large wood, but there are also a few untrimmed posts which were found vertically in situ (0569, 0570).

204 12th/13th century waterfront structure.

204 comprised a horizontal beam of oak (Quercus sp.) (labelled 204), centrally split from a timber of about 18cm. diameter, associated with three untrimmed ash (Fraxinus sp.) stakes, about 6cm. in diameter, (206, 207, 209) and a further split beam of oak (208) from a timber of about 15cm. diameter.

499 12th/13th century waterfront structure.

The timbers sampled from this structure comprised an untrimmed oak (Quercus sp.) post, about 21cm. in diameter, (341): an untrimmed post of ash (Fraxinus sp.), 9.5cm. in diameter (342); and two roughly-squared posts of oak, 201 and 340. 201 was crudely trimmed to a point.

175 Collapsed 13th century quay.

This structure consisted mainly of slanting remnants of planks. Samples of nos. 178-189, 193, 194, 196, 229-239 and 242-245 were taken. These are all of oak (Quercus sp.) and had all been sawn or split radially from large timbers. They vary in size from about 4.5 x 1cm. to 21 x 3cm. A few show a wedge-shaped cross-section but the majority have been trimmed to a more rectangular shape. These planks had been pegged to a horizontal pole (197), and plank 179 includes a 2cm. diameter peg-hole. 197 was of alder (Alnus sp.). It had been split centrally from a stem of about 10cm. diameter and very roughly trimmed to an approximately rectangular cross-section.\*

498 14th/15th century waterfront structure.

The wood from this structure was rather poorly preserved with signs of rotting, cracking and deformation. The majority of the samples are of oak (Quercus sp.), from horizontal beams and vertical posts, either untrimmed, halved or quartered. Even allowing for deformation, these do not seem to be carefully worked. In addition there is a horizontal untrimmed beam possibly of the Crataegus-group, 134; a vertical post of holly (Ilex sp.), 215; and a horizontal plank of pine (Pinus sp.), 142. This is the only conifer wood identified from a structure at the site and has been made from a tangential section of the trunk.

\* Planks 0236 and 0237 had masses of fibrous material adhering to their surfaces. This has the appearance of caulking and could perhaps indicate re-use of boat strakes in the waterfront.

170 14th/15th century timber revetment for wall 169.

The samples are from a horizontal beam, squared from a small timber of alder (*Alnus* sp.), about 23cm. in diameter (223); and four thick radially-split or sawn oak planks (218 - 221) .\*

373/379 16th/17th century well.

This well was constructed with conspicuously large timbers. The horizontal planks lining the shaft were of willow (*Salix* sp.) (468, 471, 472, 474, 476, 483, 485). These are up to 28 x 5cm. in cross-sectional dimensions, and have been plain-sawn. The pieces of well-collar (463, 465, 470) are also of willow. Small squared upright posts of oak (480, 484) were also present, together with large untrimmed stakes of ash (*Fraxinus* sp.) and the *Crataegus*-group (377, 378).

### Discussion.

Fig. 1 and 2 summarise: the overall composition of the wood samples from Bridge Street. This diagram illustrates one marked difference between wood from pre- and post-11th century structures: in the earlier period a relatively wide range of woods was used, whereas subsequently oak was by far the most important wood employed. This is largely a consequence of a change in the type of wood in use: the earlier structures included a high proportion of untrimmed poles and stakes under about 10cm. in diameter and probably produced by coppicing, but in the later medieval period plank-built revetments with squared posts and braces often cut from larger timber predominated.

It is worth considering whether the Mid-Late and Late Saxon wood can give any indication of local woodland structure and composition. It is certainly possible to distinguish a minimum range of trees which were allowed to develop stems greater than 10cm. in diameter. Amongst this larger wood oak predominates (18 samples) with ash in second place (6) . There are also a few large stems of Hazel (2) , birch (1), poplar (1) and *Prunus* sp. (2). From this it appears that the main standard trees were oak and ash, though a few trees of other species also grew to some size, a pattern which conforms with the later medieval emphasis on oak and ash for timber production known from documentary sources

Footnote. \*219 is also of oak, but the sample is not from a plank, as described in the list supplied).

(Rackham 1980, 145). All other wood from these pre-11th century phases consists of straight lengths of young growth, which could hardly have been produced in quantity other than by coppicing, pollarding or from suckers. Detailed ageing by ring-counting has not been attempted, although the poles and stakes of ash (a ring-porous wood whose age is quickly determinable) from Late Saxon structures are for the most part between 5 and 7cm. in diameter and show about 10-18 years growth. There are also, however, some very young ash stems about 4 years old and some extremely slow-grown wood.

The Mid-Late and Late Saxon poles and stakes cut from stems less than 10cm. in diameter consist of hazel 21 , oak 16, ash 15 , hawthorn-group (i.e. hawthorn/rowan/whitebeam/pear/apple) (7), birch (7), holly 6 alder 3 , willow 2 , Prunus sp. 2 , willow/poplar 1 and elm 1. These identifications give some crude impression of the species composition of the underwood, although it seems very likely that wood from more than one type of woodland is present, perhaps including fen alder-woods with some sallows or willows and woodland on dry sandy acid soils with birch and holly.

The increased use of oak timber in the form of squared posts, beams and planks in the later structures has already been noted, and indeed the 13th century collapsed revetment 0175 consisted almost entirely of oak planks, in all cases radially cut or split. Some woods other than oak continued in use, however: 254 included an untrimmed 10cm. diameter post of birch and untrimmed ash stakes and posts were used in 204 and 499. The planks in 175 were pegged to a horizontal beam of alder. Samples from the 14th/15th century structures were also mainly of oak.

The only coniferous softwood from a structural context at the site is a deal plank (Pinus sp.) from a 14th/15th century revetment (0498 0142), although a second plank of pine came from layer 127. Both samples have dentate ray tracheids and large single window-like crossfield pits in the ray parenchyma. They are thus of the red deal type, which includes P. sylvestris (Scots Pine) as well as Austrian and Corsican pines (Jane 1956, 305). (142 shows a relatively sharp transition from early to late wood, giving a superficial resemblance to larch). Scots pine is, of course, by far the most likely species to be represented here.

It seems quite probable that these pine samples represent imported timber. Rackham (1980, 151) considers that coniferous softwoods did not grow in

England during the earlier middle ages, and notes the 13th century trade in softwood boards from the Baltic, known as Estrychbord and bord de Rygold, and from Hamburg and Norway. Examples from a 13th century door at Lakenheath, Suffolk are 3/4 inch (about 2cm.) thick, as is the plank 0142 from Bridge Street. These softwood samples raise the whole question of imported timber, for oak boards were also imported from the Baltic in the Middle Ages. There is no way of determining how much, if any, of the oak from Bridge Street is of foreign origin, but the possibility obviously has some bearing on dendrochronology at the site.

The latest structure sampled at the site was a 16th/17th century well. This was constructed mainly of Salix sp. (willow) and is the only example of the use of willow as timber at the site. Oak is a relatively minor component of this well comprising only two small squared upright posts.

**NB Archive note: Yellow highlighting indicates figures inserted from earlier draft, R244. May need checking with tables. AA 17/09/09**

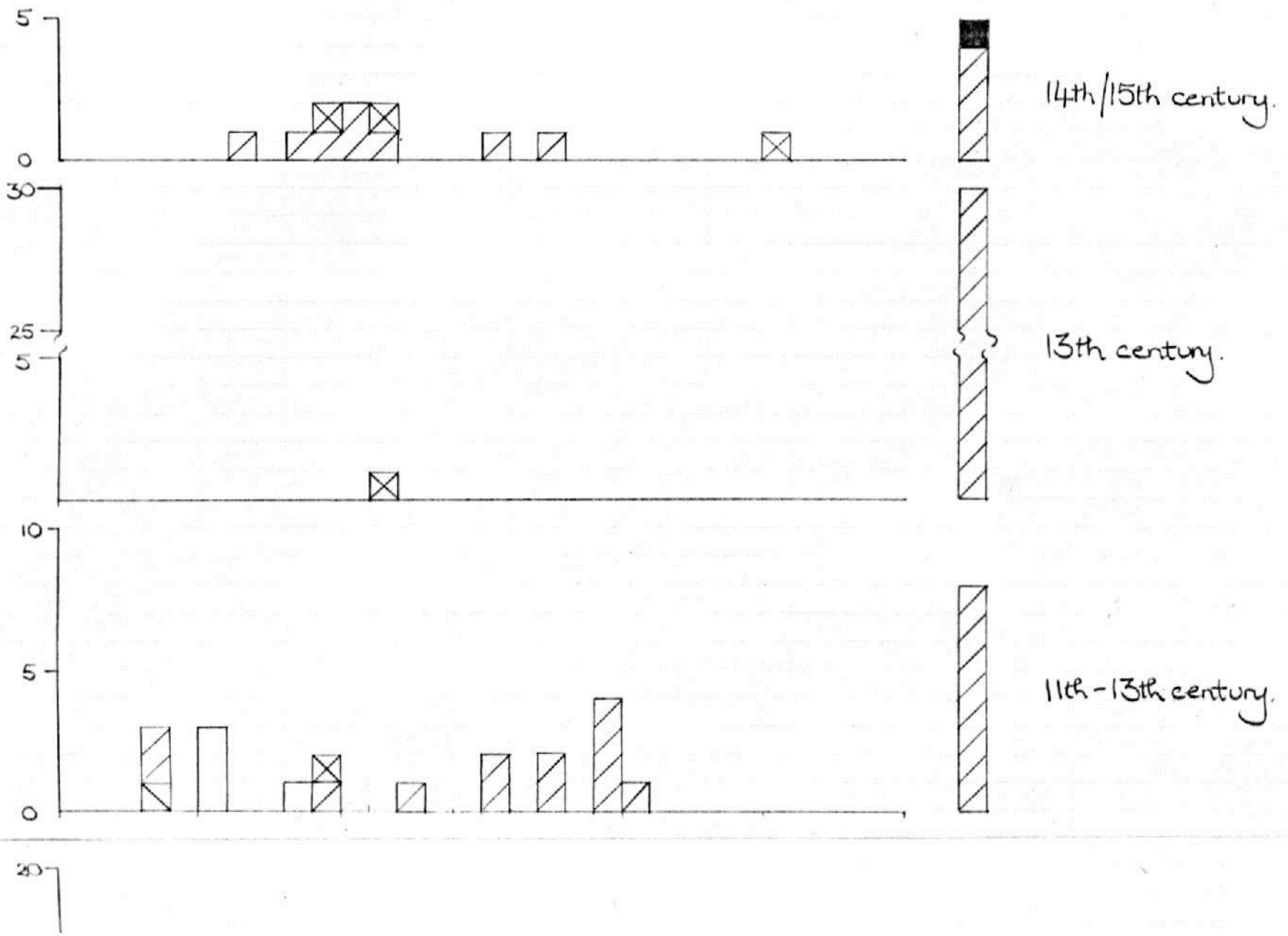
### References

- Jane, F.W. (1956)      The Structure of Wood. London.  
Rackham, O. (1980)    Ancient woodland: Its history, vegetation and uses in England. London.



□ Corylus    ▤ Quercus    □ Fraxinus    ⊠ Alnus, Crataegus-group, Betula, Ilex, Salix, Prunus, Populus, indeterminate.    ■ Pinus.

Numbers of identifications.



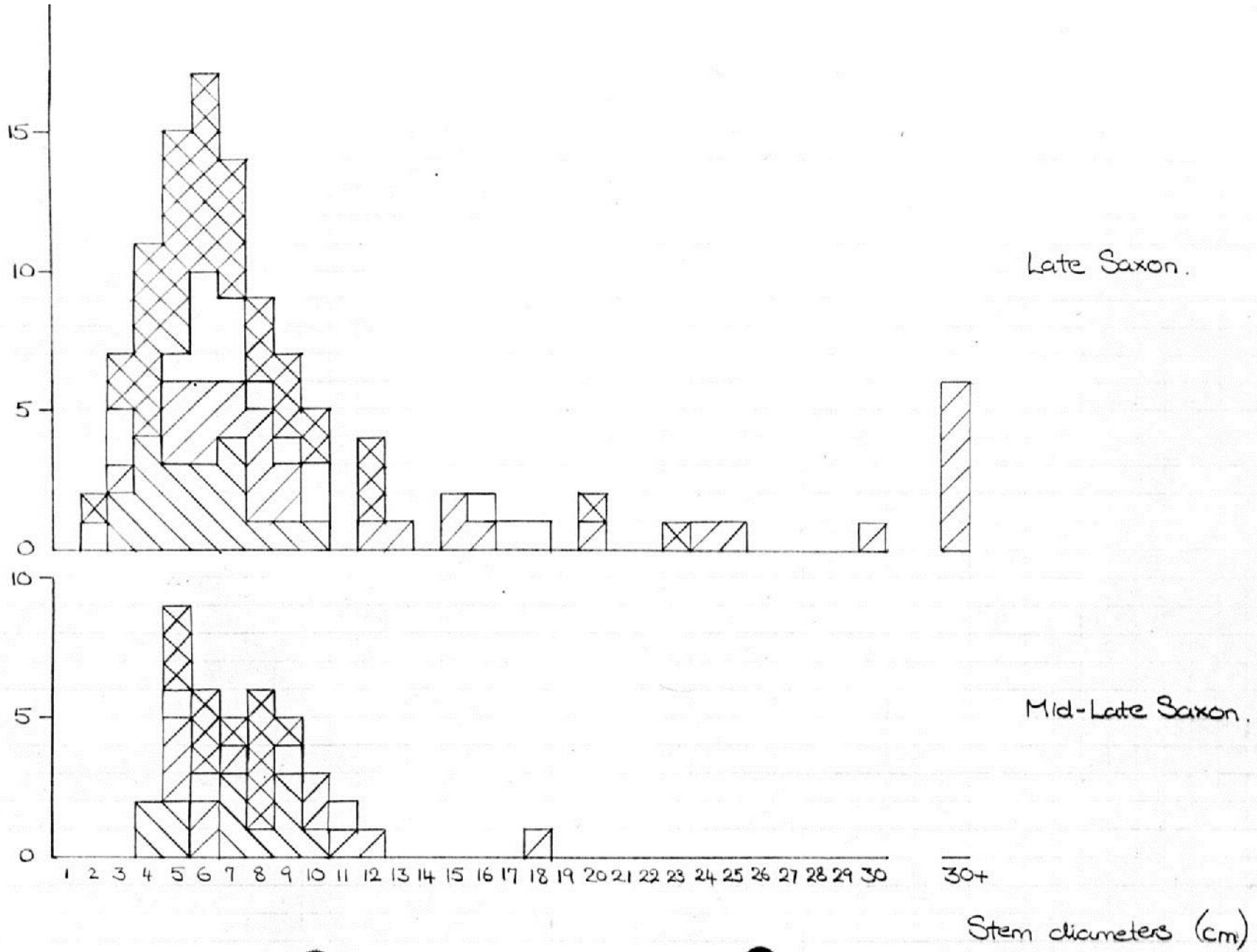


Fig: Identifications and stem diameters of wood from structures at IAS 6202.

Table 3: List of identified wood from structures.

For each sample a brief description and cross-sectional diameter are given. The diameters of samples which do not show a complete section across the stem have been estimated where possible. These figures are given in brackets. Measurements are accurate only to the nearest 0.5cm. Frequently the sections are not even approximately circular, but more oval, and here a rough mean figure between the longer and shorter diameters is given.

Mid-Late Saxon

| Structure No. | Sample No. | Description                |                         | Taxon               |                    |
|---------------|------------|----------------------------|-------------------------|---------------------|--------------------|
| 0386          | 0391       | Round post                 | 6cm.                    | <u>Quercus</u> sp.  |                    |
|               | 0392       | Round post                 | 6cm.                    | <u>Quercus</u> sp.  |                    |
|               | 0393       | Round post                 | 5cm.                    | <u>Ilex</u> sp.     |                    |
|               | 0394       | Round post                 | 6.5cm.                  | <u>Betula</u> sp.   |                    |
|               | 0395       | Round post                 | 5.5cm.                  | <u>Quercus</u> sp.  |                    |
|               | 0396       | Round post                 | 6cm.                    | <u>Fraxinus</u> sp. |                    |
|               | 0408       | Round post                 | 7cm.                    | <u>Corylus</u> sp.  |                    |
|               | 0410       | Round post                 | 5cm.                    | <u>Fraxinus</u> sp. |                    |
|               | 0411       | Split post                 | -                       | <u>Prunus</u> sp.   |                    |
|               | 0413       | Round post                 | 5.5cm.                  | <u>Corylus</u> sp.  |                    |
|               | 0420       | Roughly-trimmed horizontal | (10cm.)                 | <u>Quercus</u> sp.  |                    |
|               | 0421       | Round post                 | 10cm.                   | <u>Quercus</u> sp.  |                    |
|               | 0422       | Round post                 | 12cm.                   | <u>Quercus</u> sp.  |                    |
|               | 0423       | Round upright              | 5cm.                    | <u>Corylus</u> sp.  |                    |
|               | 0424       | Round post                 | 8cm.                    | <u>Betula</u> sp.   |                    |
|               | 0425       | Round post                 | 11cm.                   | <u>Fraxinus</u> sp. |                    |
|               | 0426       | Round upright              | 5.5cm.                  | <u>Ilex</u> sp.     |                    |
|               | 0438       | Round post                 | 8cm.                    | <u>Ulmus</u> sp.    |                    |
|               | 0404       | 0428                       | Round post frag (split) | (9cm.)              | <u>Corylus</u> sp. |
|               |            | 0429                       | Round post              | 18cm.               | <u>Quercus</u> sp. |
| 0432          |            | Round post                 | 4.5cm.                  | <u>Corylus</u> sp.  |                    |
| 0434          |            | Thick plank/beam           |                         | <u>Betula</u> sp.   |                    |
| 0437          |            | Round post                 | 9cm.                    | <u>Corylus</u> sp.  |                    |
| 0495          |            | Round post                 | 10.5cm.                 | <u>Corylus</u> sp.  |                    |
| 0496          |            | Round post                 | 5.5cm.                  | <u>Quercus</u> sp.  |                    |
| 0405/439      | 0440       | Round post                 | 9.5cm.                  | <u>Fraxinus</u> sp. |                    |
|               | 0441       | Round post                 | 11cm.                   | <u>Quercus</u> sp.  |                    |

\*0433 lost.

Mid-Late Saxon (continued)

| Structure No. | Sample No. | Description               |        | Taxon                  |
|---------------|------------|---------------------------|--------|------------------------|
| 0405/439      | 0442       | Round post                | 8.5cm. | <u>Corylus</u> sp.     |
|               | 0443       | Round post                | 8cm.   | <u>Ilex</u> sp.        |
|               | 0444       | Round post                | 5.5cm. | <u>Quercus</u> sp.     |
|               | 0449       | Round post (part-trimmed) | 7cm.   | <u>Corylus</u> sp.     |
| 0405/0439     | 0450       | Round post                | 9cm.   | <u>Corylus</u> sp.     |
|               | 0451       | Round post (part-trimmed) | 7cm.   | <u>Ilex</u> sp.        |
|               | 0452       | Round post                | 6.5cm. | Indet. diffuse porous. |
|               | 0453       | Round post                | 8.5cm. | <u>Prunus</u> sp.      |
|               | 0454       | Round post                | 8cm.   | <u>Ilex</u> sp.        |
| 0448          | 0455       | Round post                | 7.5cm. | <u>Quercus</u> sp.     |
|               | 0456       | Round post                | 9cm.   | <u>Alnus</u> sp.       |
|               | 0457       | Round post (trimmed)      | 6.5cm. | <u>Betula</u> sp.      |
|               | 0458       | Round post                | 4.5cm. | <u>Corylus</u> sp.     |
|               | 0461       | Round horizontal          | 7cm.   | <u>Corylus</u> sp.     |
|               | 0462       | Round post                | 5cm.   | ? <u>Prunus</u> sp.    |

Late Saxon

| Structure No. | Sample No. | Description     |            | Taxon                    |
|---------------|------------|-----------------|------------|--------------------------|
| 0384          | 0387       | Round stake     | 4.5cm.     | <u>Alnus</u> sp.         |
|               | 0388       | Round stake     | 4cm.       | <u>Alnus</u> sp.         |
|               | 0389       | Round stake     | 3cm.       | <u>Betula</u> sp.        |
|               | 0390       | Round stake     | 5cm.       | <u>Quercus</u> sp.       |
|               | 0500       | 0397            | Round post | 4cm.                     |
| 0415          |            | Round post      | 5.5cm.     | <u>Fraxinus</u> sp.      |
| 0416          |            | Round post      | 6cm.       | <u>Fraxinus</u> sp.      |
| 0417          |            | Round post      | 5cm.       | <u>Betula</u> sp.        |
| 0418          |            | Square-cut post | (16cm.)    | <u>Quercus</u> sp.       |
| 0419          |            | Round post      | 7cm.       | <u>Salix/Populus</u> sp. |
| 0258/0275     |            | 0270            | Round post | 5cm.                     |
|               | 0271       | Square-cut post | (30cm.)    | <u>Quercus</u> sp.       |
|               | 0272       | Round post      | 4.5cm.     | <u>Corylus</u> sp.       |
|               | 0273       | Round post      | 4cm.       | <u>Crataegus</u> group   |
|               | 0274       | Square-cut post | (16cm.)    | <u>Fraxinus</u> sp.      |
|               | 0276       | Round stake     | 4cm.       | <u>Corylus</u> sp.       |

Late Saxon (continued)

| Structure No. | Sample No. | Description                | Taxon                           |
|---------------|------------|----------------------------|---------------------------------|
| 0258/0275     | 0277       | Round stake                | 3.5cm. <u>Fraxinus</u> sp.      |
|               | 0278       | Round stake                | 4.5cm. Indet. diffuse porous.   |
|               | 0279       | Round stake                | 5cm. <u>Corylus</u> sp.         |
|               | 0280       | Square stake               | 3cm. <u>Corylus</u> sp.         |
|               | 0285       | Round post (part-squared)  | (13cm.) <u>Quercus</u> sp.      |
|               | 0286       | Square-cut post            | 7cm. <u>Quercus</u> sp.         |
|               | 0287       | Round stake (part-squared) | 6cm. <u>Fraxinus</u> sp.        |
|               | 0288       | Square-cut post            | <u>Quercus</u> sp.              |
|               | 0289       | Square-cut post (frags)    | <u>Quercus</u> sp.              |
|               | 0290       | Squared plank (?)          | - <u>Quercus</u> sp.            |
|               | 0292       | Branch fragment            | 6.5cm. ? <u>Betula</u> sp.      |
|               | 0294       | Round post                 | 10cm. <u>Fraxinus</u> sp.       |
|               | 0295       | Square-cut post            | (25cm.) <u>Quercus</u> sp.      |
|               | 0296       | Round post                 | 8.5cm. <u>Prunus</u> sp.        |
|               | 0297       | Round post                 | 10.5cm. <u>Fraxinus</u> sp.     |
|               | 0298       | Squared post               | <u>Quercus</u> sp.              |
|               | 0299       | Round post (frag)          | - <u>Quercus</u> sp.            |
|               | 0300       | Squared post               | (18cm.) <u>Fraxinus</u> sp.     |
|               | 0301       | Round post                 | 10cm. <u>Prunus</u> sp.         |
|               | 0302       | Roughly-squared post       | 5.5cm. <u>Quercus</u> sp.       |
|               | 0303       | Round post                 | (22cm.) <u>Betula</u> sp.       |
|               | 0304       | Round post                 | 7cm. <u>Fraxinus</u> sp.        |
|               | 0306       | Roughly-squared post       | 9.5cm. <u>Crataegus-group</u>   |
|               | 0307       | Round post                 | 9cm. <u>Betula</u> sp.          |
|               | 0308       | Round post (part-squared)  | 6.5cm. ? <u>Crataegus-group</u> |
|               | 0309       | Round post (part-squared)  | 6cm. <u>Corylus</u> sp.         |
|               | 0310       | Squared 'plank'            | (8cm.) <u>Quercus</u> sp.       |
|               | 0311       | Round post                 | 9cm. <u>Fraxinus</u> sp.        |
| (0312)        |            | Bark frags only            |                                 |
|               | 0313       | Round post                 | 7cm. <u>Crataegus-group</u>     |
|               | 0315       | Round post                 | 8.5cm. ? <u>Ilex</u> sp.        |
|               | 0316       | Round horizontal           | 6.5cm. <u>Crataegus-group</u>   |
|               | 0317       | Round horizontal           | 6.5cm. <u>Quercus</u> sp.       |
|               | 0318       | Round post                 | 4cm. ? <u>Corylus</u> sp.       |

Late Saxon (continued)

| Structure No. | Sample No. | Description               | Taxon                           |
|---------------|------------|---------------------------|---------------------------------|
| 0258/0275     | 0319       | Squared post              | <u>Quercus</u> sp.              |
|               | 0320       | Round post                | 9cm. ? <u>Ilex</u> sp.          |
|               | 0321       | Round post (part-squared) | 7cm. <u>Fraxinus</u> sp.        |
|               | 0322       | Round post                | 2.5cm. <u>Fraxinus</u> sp.      |
|               | 0323       | Round post                | 3.5cm. <u>Corylus</u> sp.       |
|               | 0324       | Round post                | 12cm. <u>Quercus</u> sp.        |
|               | 0325       | Round post                | 3cm. ? <u>Crataegus</u> -group  |
|               | 0326       | Small branch              | 2.5cm. <u>Crataegus</u> -group  |
|               | 0327       | Round post                | 8cm. <u>Ilex</u> sp.            |
|               | 0328       | Horizontal timber (round) | 6cm. <u>Quercus</u> sp.         |
|               | 0329       | Round post                | 7cm. <u>Fraxinus</u> sp.        |
|               | 0330       | Horizontal timber (round) | 8.5cm. <u>Quercus</u> sp.       |
|               | 0331       | Round post                | 9cm. <u>Corylus</u> sp.         |
|               | 0332       | Horizontal timber (round) | 6cm. <u>Quercus</u> sp.         |
|               | 0333       | Slanting plank            | - <u>Alnus</u> sp.              |
|               | 0334       | Round post                | 7.5cm. <u>Quercus</u> sp.       |
|               | 0335       | Squared post              | - ? <u>Corylus</u> sp.          |
|               | 0336       | Round post                | 12cm. ? <u>Crataegus</u> -group |
|               | 0337       | Round post                | 3cm. <u>Quercus</u> sp.         |
|               | 0338       | Round post                | 9.5cm. <u>Quercus</u> sp.       |
|               | 0339       | Round post                | 9cm. <u>Quercus</u> sp.         |
|               | 0344       | Round post                | 5cm. <u>Corylus</u> sp.         |
|               | 0345       | Round post (frag)         | - <u>Quercus</u> sp.            |
|               | 0347       | Round post                | 7.5cm. <u>Corylus</u> sp.       |
|               | 0349       | Round post                | 5cm. <u>Salix</u> sp.           |
|               | 0350       | Round post                | 10cm. ? <u>Tilia</u> sp.        |
|               | 0351       | Squared post              | (17cm.) <u>Fraxinus</u> sp.     |
|               | 0352       | Squared post              | (24cm.) <u>Quercus</u> sp.      |
|               | 0353       | Round post                | 7.5cm. ? <u>Betula</u> sp.      |
|               | 0354       | Round post                | 5cm. <u>Quercus</u> sp.         |
|               | 0355       | Round post                | 8cm. <u>Fraxinus</u> sp.        |
|               | 0356       | Squared post              | (10cm.) <u>Corylus</u> sp.      |
|               | 0357       | Round post                | 6cm. <u>Corylus</u> sp.         |
|               | 0353       | Squared post              | <u>Populus</u> sp.              |
|               | 0359       | Round post                | 7cm. Indet. diffuse porous.     |

Late Saxon (continued)

| Structure No. | Sample No. | Description  |        | Taxon                  |
|---------------|------------|--------------|--------|------------------------|
| 0258/0275     | 0360       | Round post   | 6cm.   | <u>Crataegus-group</u> |
|               | 0361       | Round post   |        | Sample lost            |
|               | 0362       | Round post   | 5cm.   | <u>Crataegus-group</u> |
|               | 0363       | Squared post |        | <u>Quercus</u> sp.     |
|               | 0364       | Round post   | 7cm.   | ? <u>Corylus</u> sp.   |
|               | 0365       | Round post   | 3cm.   | <u>Fraxinus</u> sp.    |
|               | 0366       | Round post   | 4cm.   | ? <u>Ilex</u> sp.      |
|               | 0367       | Round post   | 5.5cm. | <u>Salix</u> sp.       |
|               | 0368       | Squared post | 5.5cm. | <u>Alnus</u> sp.       |
|               | 0369       | Squared post | -      | <u>Quercus</u> sp.     |
|               | 0370       | Round post   | 6cm.   | <u>Fraxinus</u> sp.    |
|               | 0371       | Round post   | 6.5cm. | <u>Corylus</u> sp.     |

11th/early 12th century

| Structure No. | Sample No. | Description       |         | Taxon              |
|---------------|------------|-------------------|---------|--------------------|
| 0254          | 0256       | Plank             | -       | <u>Quercus</u> sp. |
|               | 0268       | Plank             | -       | <u>Quercus</u> sp. |
|               | 0269       | Plank             | -       | <u>Quercus</u> sp. |
|               | 0343       | Squared post      | (18cm.) | <u>Quercus</u> sp. |
|               | 0346       | Round post        | 10cm.   | <u>Betula</u> sp.  |
|               | 0348       | Round post (frag) |         | <u>Quercus</u> sp. |

12th/13th century

| Structure No. | Sample No. | Description                  |         | Taxon               |
|---------------|------------|------------------------------|---------|---------------------|
| 0204          | 0204       | Horizontal split beam(18cm.) |         | <u>Quercus</u> sp.  |
|               | 0206       | Round post                   | 6cm.    | <u>Fraxinus</u> sp. |
|               | 0207       | Round post                   | 6cm.    | <u>Fraxinus</u> sp. |
|               | 0208       | split post                   | (16cm.) | <u>Quercus</u> sp.  |
|               | 0209       | Round post                   | 6cm.    | <u>Fraxinus</u> sp. |
| 0499          | 0201       | Squared post                 | -       | <u>Quercus</u> sp.  |
|               | 0340       | Squared post                 | -       | <u>Quercus</u> sp.  |
|               | 0341       | Round post                   | 21cm.   | <u>Quercus</u> sp.  |
|               | 0342       | Horizontal round             | 9.5cm.  | <u>Fraxinus</u> sp. |

13th century

| Structure No. | Sample No. | Description     | Taxon              |
|---------------|------------|-----------------|--------------------|
| 0175          | 0178       | Plank           | <u>Quercus</u> sp. |
|               | 0179       | Plank           | <u>Quercus</u> sp. |
|               | 0180       | Plank           | <u>Quercus</u> sp. |
|               | 0181       | Plank           | <u>Quercus</u> sp. |
|               | 0182       | Plank           | <u>Quercus</u> sp. |
|               | 0183       | Plank           | <u>Quercus</u> sp. |
|               | 0184       | Plank           | <u>Quercus</u> sp. |
|               | 0185       | Plank           | <u>Quercus</u> sp. |
|               | 0186       | Plank           | <u>Quercus</u> sp. |
|               | 0187       | Plank           | <u>Quercus</u> sp. |
|               | 0188       | Plank           | <u>Quercus</u> sp. |
|               | 0189       | Plank           | <u>Quercus</u> sp. |
|               | 0193       | Plank           | <u>Quercus</u> sp. |
|               | 0194       | Plank           | <u>Quercus</u> sp. |
|               | 0196       | Plank           | <u>Quercus</u> sp. |
|               | 0197       | Horizontal beam | <u>Alnus</u> sp.   |
|               | 0229       | Plank           | <u>Quercus</u> sp. |
|               | 0230       | Plank           | <u>Quercus</u> sp. |
|               | 0231       | Plank           | <u>Quercus</u> sp. |
|               | 0232       | Plank           | <u>Quercus</u> sp. |
|               | 0233       | Plank           | <u>Quercus</u> sp. |
|               | 0234       | Plank           | <u>Quercus</u> sp. |
|               | 0235       | Plank           | <u>Quercus</u> sp. |
|               | 0236       | Plank           | <u>Quercus</u> sp. |
|               | 0237       | Plank           | <u>Quercus</u> sp. |
|               | 0238       | Plank           | <u>Quercus</u> sp. |
|               | 0239       | Plank           | <u>Quercus</u> sp. |
|               | 0242       | Plank           | <u>Quercus</u> sp. |
|               | 0243       | Plank           | <u>Quercus</u> sp. |
|               | 0244       | Plank           | <u>Quercus</u> sp. |
|               | 0245       | Plank           | <u>Quercus</u> sp. |



### 14th/15th century

| Structure No. | Sample No. | Description                   | Taxon                    |
|---------------|------------|-------------------------------|--------------------------|
| 0170          | 0218       | Horizontal plank              | <u>Quercus</u> sp.       |
|               | 0219       | Horizontal plank              | <u>Quercus</u> sp.       |
|               | 0220       | Horizontal plank              | <u>Quercus</u> sp.       |
|               | 0221       | Horizontal plank              | <u>Quercus</u> sp.       |
|               | 0223       | Horizontal squared beam       | <u>Alnus</u> sp.         |
| 0498          | 0133       | Horizontal round (12cm.)      | <u>Quercus</u> sp.       |
|               | 0134       | Horizontal round 12.5cm.      | ? <u>Crataegus-group</u> |
|               | 0135       | Horizontal round (9cm.)       | <u>Quercus</u> sp.       |
|               | 0136       | Horizontal squared            | <u>Quercus</u> sp.       |
|               | 0137       | Split post 7cm.               | <u>Quercus</u> sp.       |
|               | 0139       | Squared post                  | <u>Quercus</u> sp.       |
|               | 0142       | Horizontal plank (plain-sawn) | <u>Pinus</u> sp.         |
|               | 0143       | Slanting round 11cm.          | <u>Quercus</u> sp.       |
|               | 0144       | Vertical (squared)            | <u>Quercus</u> sp.       |
|               | 0190       | Split post (11cm.)            | <u>Quercus</u> sp.       |
|               | 0191       | Split post (10cm.)            | <u>Quercus</u> sp.       |
|               | 0215       | Round post 9cm.               | <u>Ilex</u> sp.          |

### 16th/17th century

| Structure No. | Sample No. | Description  | Taxon                    |
|---------------|------------|--------------|--------------------------|
| 0373/0379     | 0377       | Round stake  | <u>Fraxinus</u> sp.      |
|               | 0378       | Round stake  | ? <u>Crataegus-group</u> |
|               | 0463       | well collar  | ? <u>Salix</u> sp.       |
|               | 0465       | well collar  | <u>Salix</u> sp.         |
|               | 0468       | Plank        | <u>Salix</u> sp.         |
|               | 0470       | well collar  | <u>Salix</u> sp.         |
|               | 0471       | Plank        | <u>Salix</u> sp.         |
|               | 0472       | Plank (frag) | <u>Salix</u> sp.         |
|               | 0474       | Plank        | <u>Salix</u> sp.         |
|               | 0476       | Plank        | <u>Salix</u> sp.         |
|               | 0480       | Squared post | <u>Quercus</u> sp.       |
|               | 0483       | Plank        | ? <u>Salix</u> sp.       |
|               | 0484       | Squared post | <u>Quercus</u> sp.       |
|               | 0485       | Plank        | <u>Salix</u> sp.         |

Additional wood samples from Trench 0550.

Late Saxon (cont.).

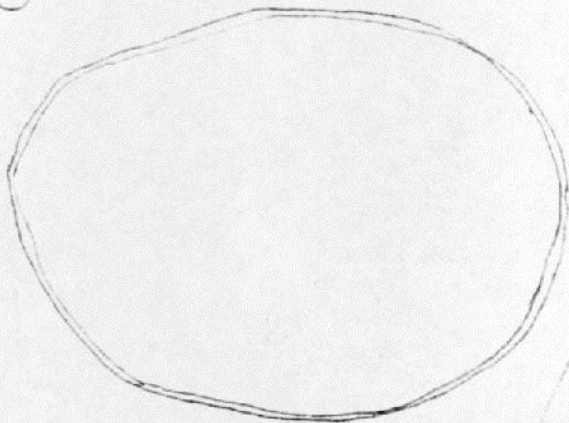
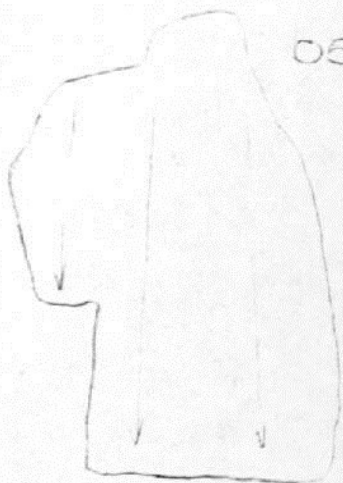
| Structure No. | Sample No. | Description       | Taxon                        |
|---------------|------------|-------------------|------------------------------|
| 0553          | 0553       | Squared ?post     | - <u>Quercus</u> sp          |
| 0557          | 0557       | Round horizontal  | 6cm <u>Alnus</u> sp          |
| 0602          | 0591       | Round horizontal  | 7cm <u>Corylus</u> sp        |
| 0602          | 0592       | Round horizontal  | 6cm <u>Ilex</u> sp           |
| 0602          | 0593       | Round horizontal  | 7cm <u>Corylus</u> sp        |
| 0602          | 0594       | Round ?horizontal | 7cm <u>Ilex</u> sp           |
| 0602          | 0595       | Round horizontal  | 5cm <u>Ilex</u> sp           |
| 0603          | 0585       | Round post        | 5cm <u>Corylus/Alnus</u> sp  |
| 0603          | 0586       | Round post        | 5cm <u>Alnus</u> sp          |
| 0603          | 0587       | Round post        | 6cm <u>Alnus</u> sp          |
| 0603          | 0588       | Round post        | 4cm ? <u>Corylus</u> sp      |
| 0603          | 0596       | Round post        | 4cm ? <u>Crataegus</u> group |
| 0604          | 0598       | Round ?post       | 12cm <u>Salix</u> sp         |
| 0605          | 0575       | Round post        | 8cm <u>Quercus</u> sp        |

?12th century.

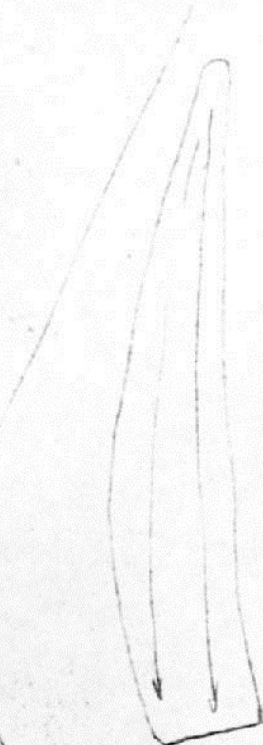
|      |      |                    |                         |
|------|------|--------------------|-------------------------|
| 0566 | 0567 | Round post         | 4cm <u>Corylus</u> sp   |
| 0566 | 0568 | Squared ?post      | - <u>Quercus</u> sp     |
| 0566 | 0569 | Round post         | 13cm <u>Quercus</u> sp  |
| 0566 | 0570 | Round post         | 4cm <u>Quercus</u> sp   |
| 0566 | 0579 | Squared horizontal | - <u>Quercus</u> sp     |
| 0566 | 0580 | Squared horizontal | - <u>Quercus</u> sp     |
| 0566 | 0581 | Squared horizontal | - <u>Quercus</u> sp     |
| 0566 | 0584 | Squared horizontal | - <u>Quercus</u> sp     |
| 0566 | 0590 | Squared horizontal | - <u>Quercus</u> sp     |
| 0566 | 0571 | 'Plank'            | - <u>Quercus</u> sp     |
| 0566 | 0572 | Squared horizontal | 16cm <u>Quercus</u> sp  |
| 0566 | 0573 | Squared horizontal | ?20cm <u>Quercus</u> sp |
| 0566 | 0574 | Round horizontal   | 4cm <u>Quercus</u> sp   |

0557

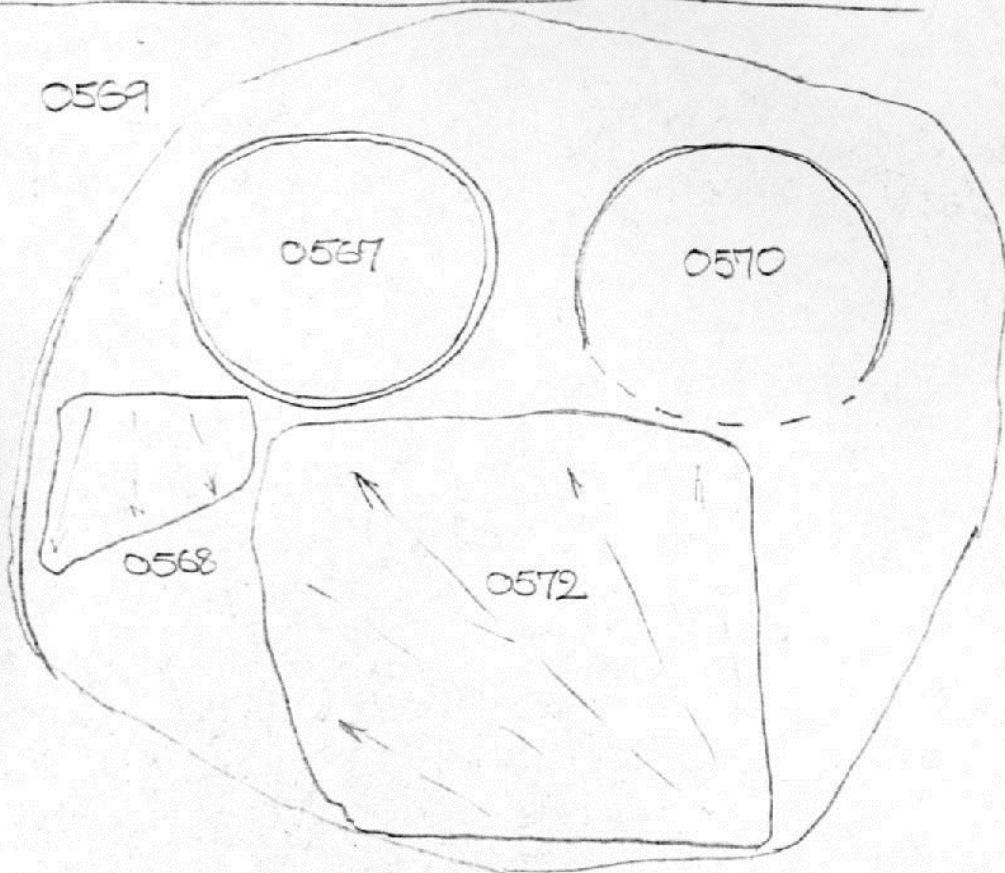
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0571



0569



0567

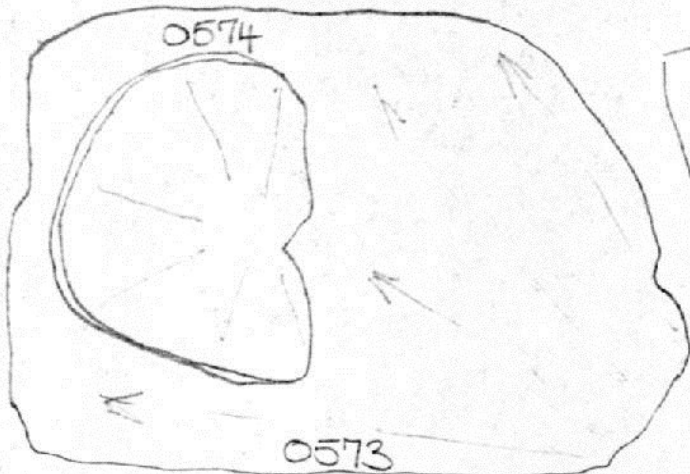
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0568

0572

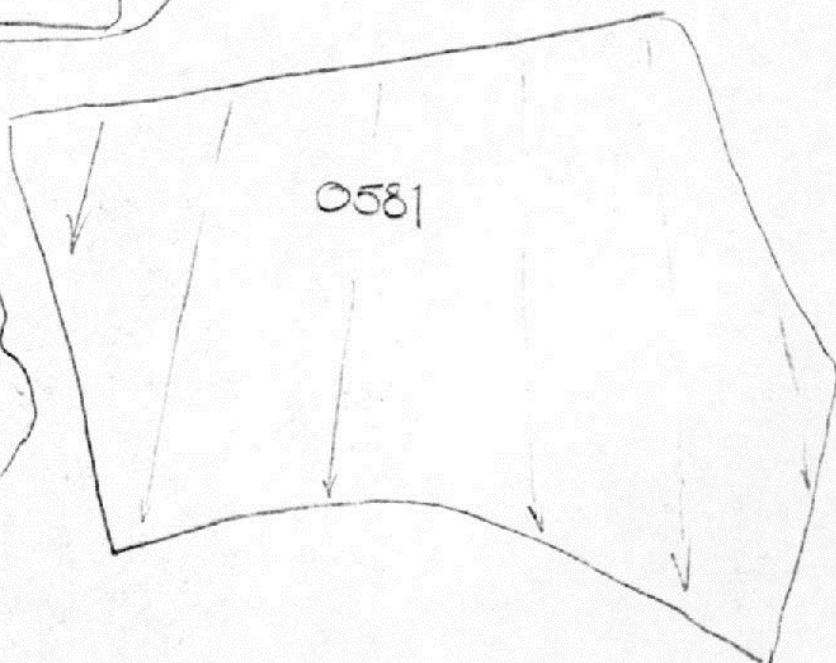
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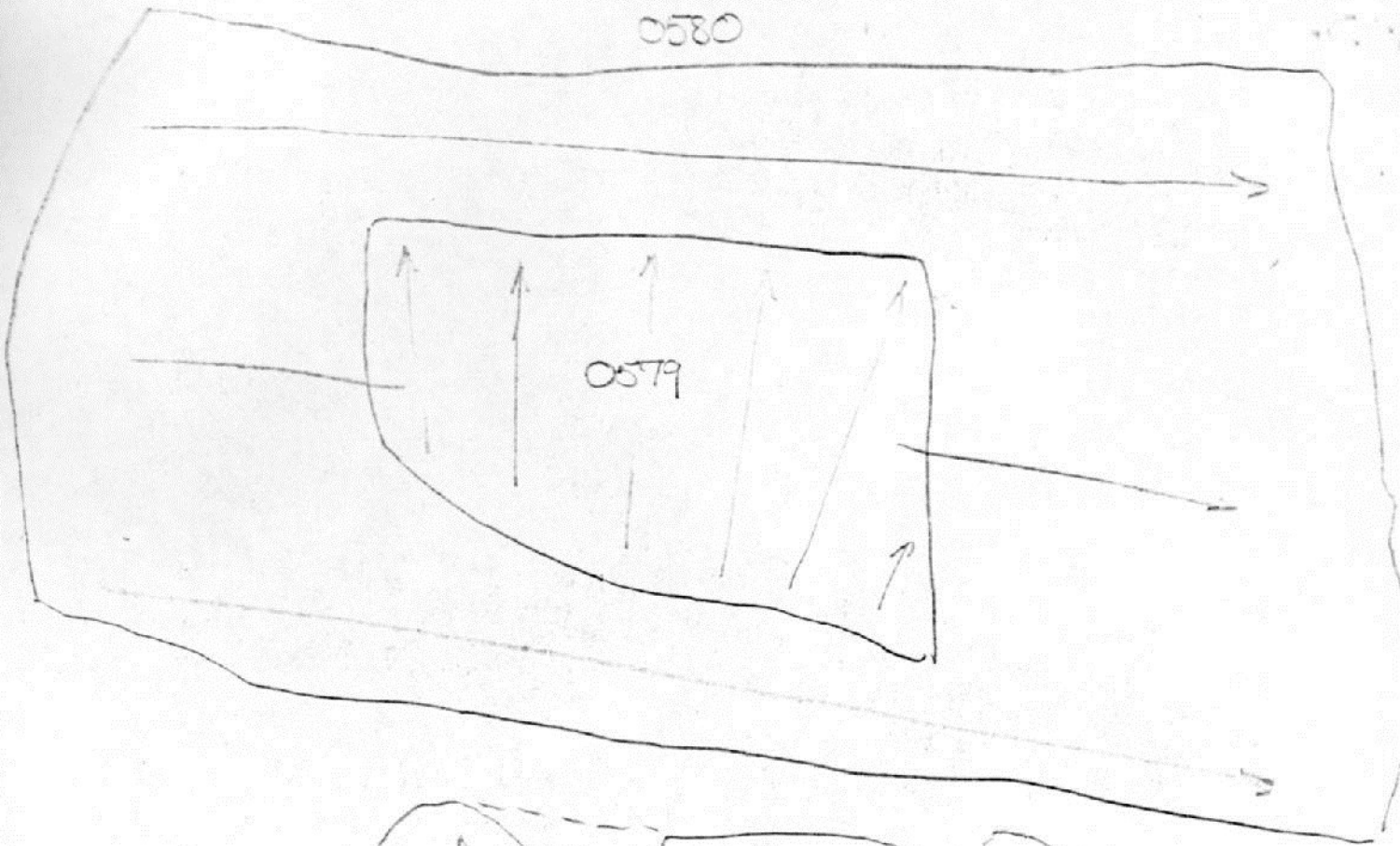


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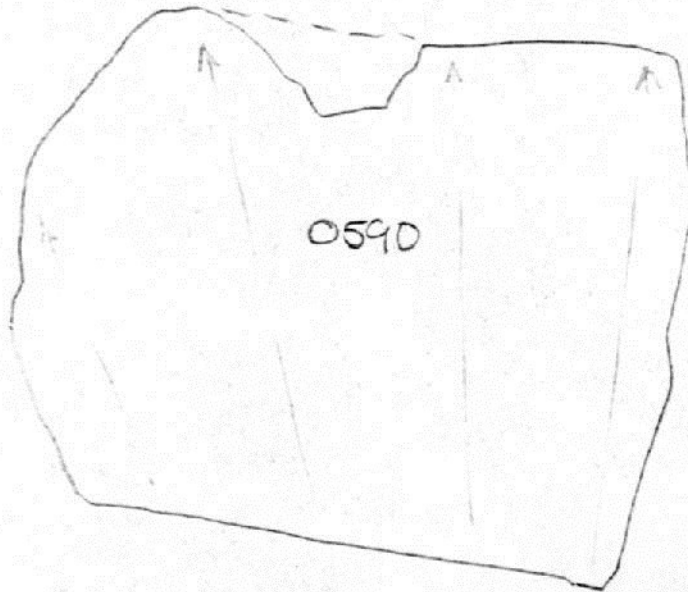


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0579

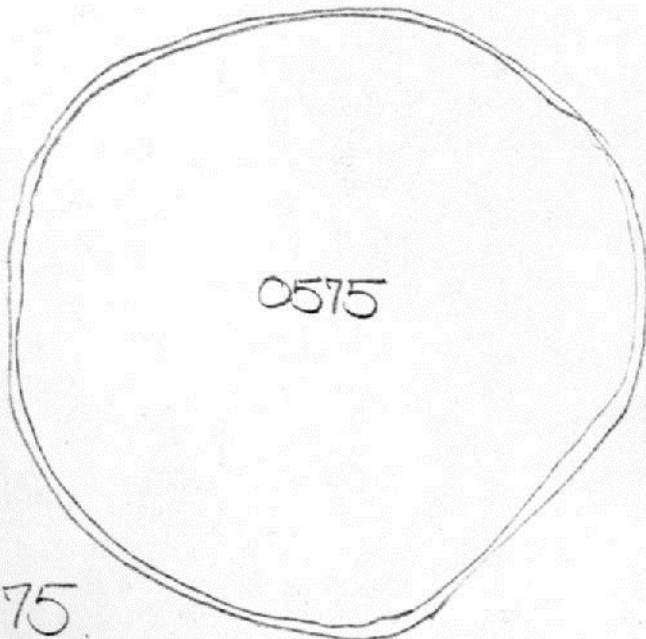
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0590



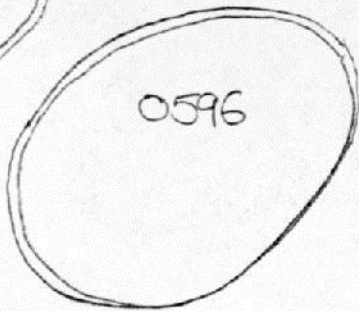
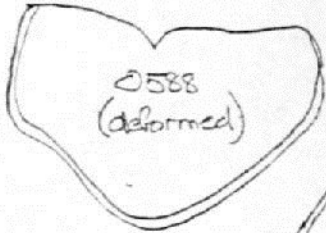
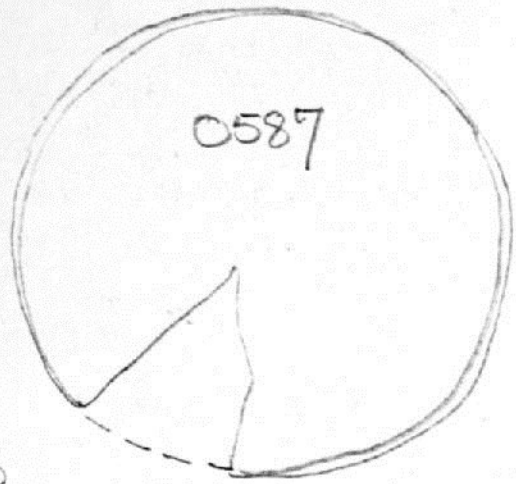
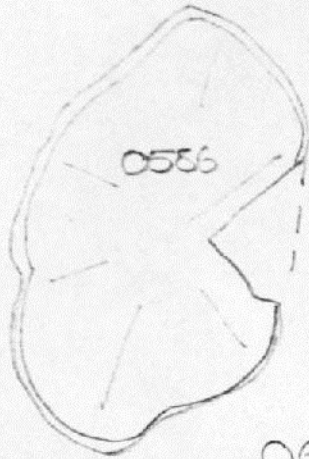
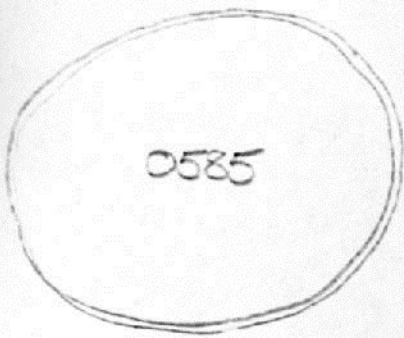
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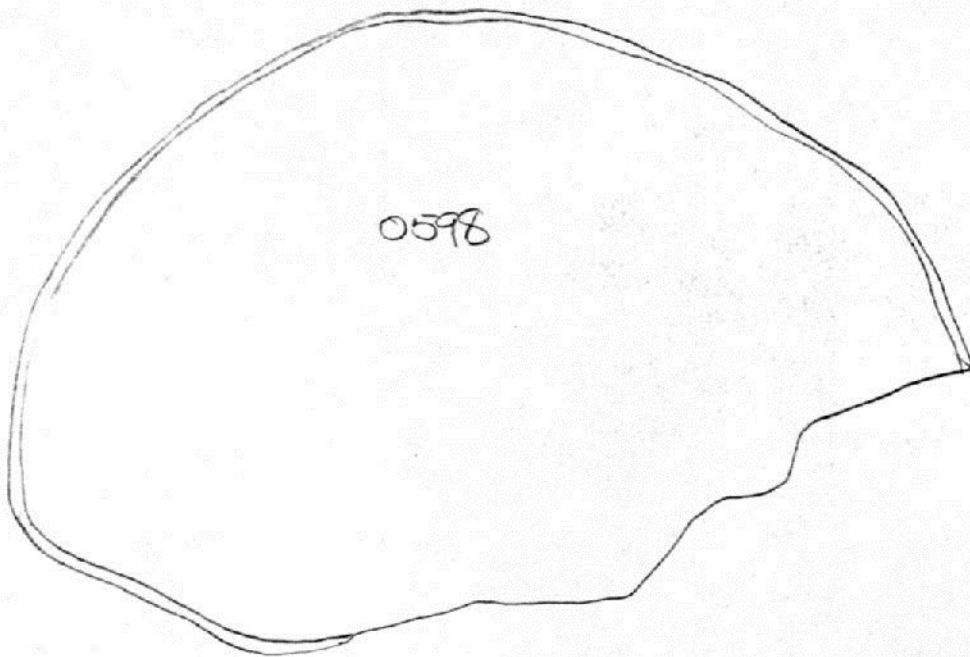
0575

0575

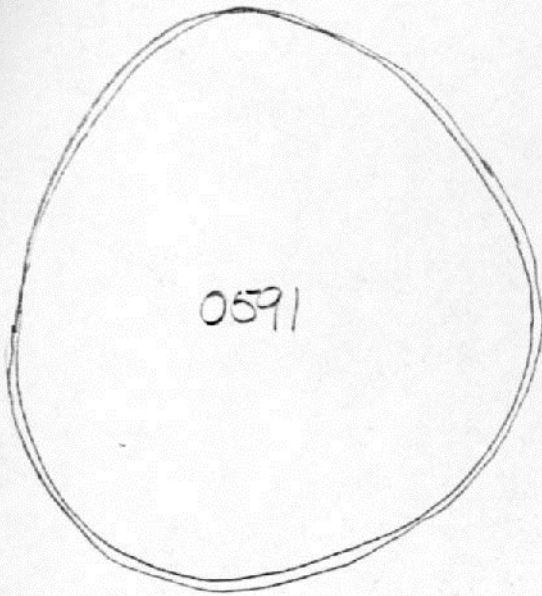




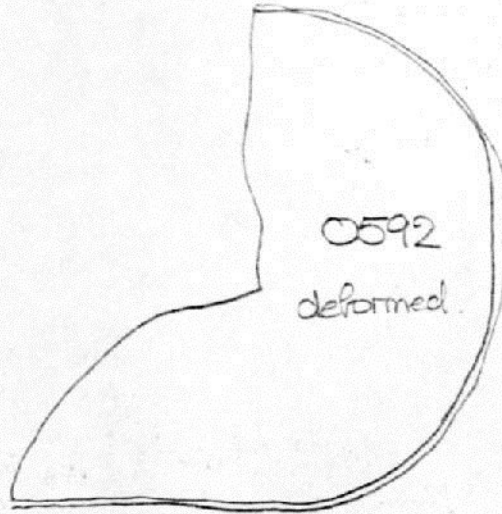
0603



0604

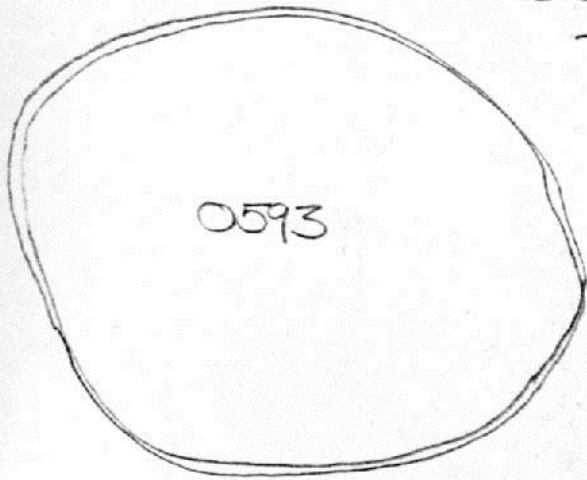


0591

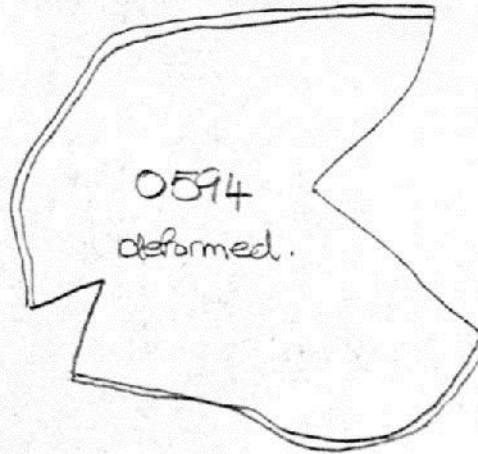


0592  
deformed.

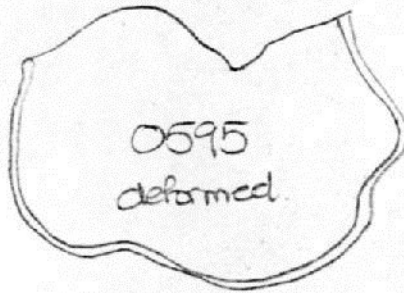
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0593



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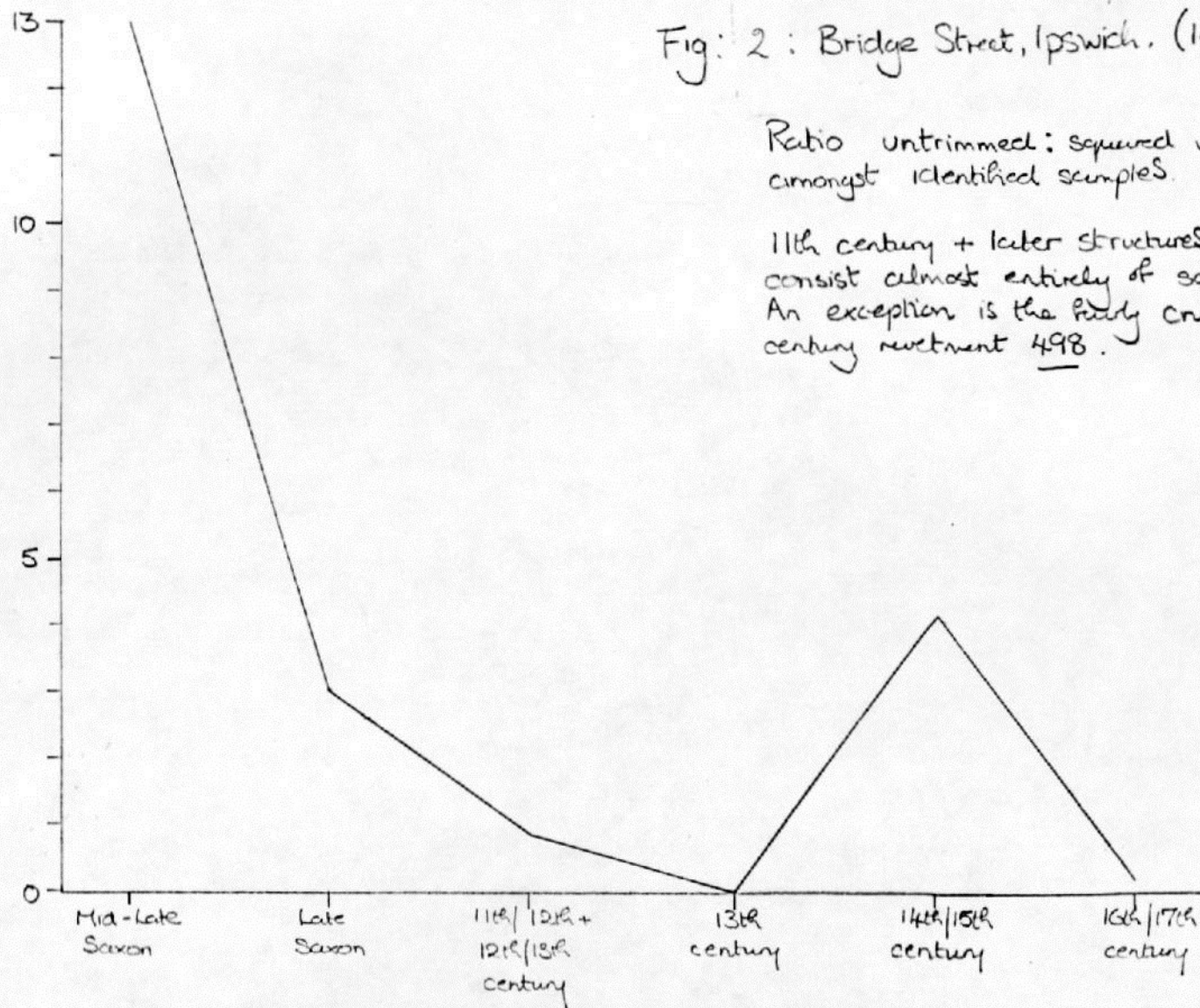
0595  
deformed.

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Fig: 2 : Bridge Street, Ipswich. (IAS 6202).

Ratio untrimmed : squared wood  
amongst identified samples.

11th century + later structures generally  
consist almost entirely of squared posts, planks etc.  
An exception is the fairly crudely-built 14th/15th  
century revestment 498.





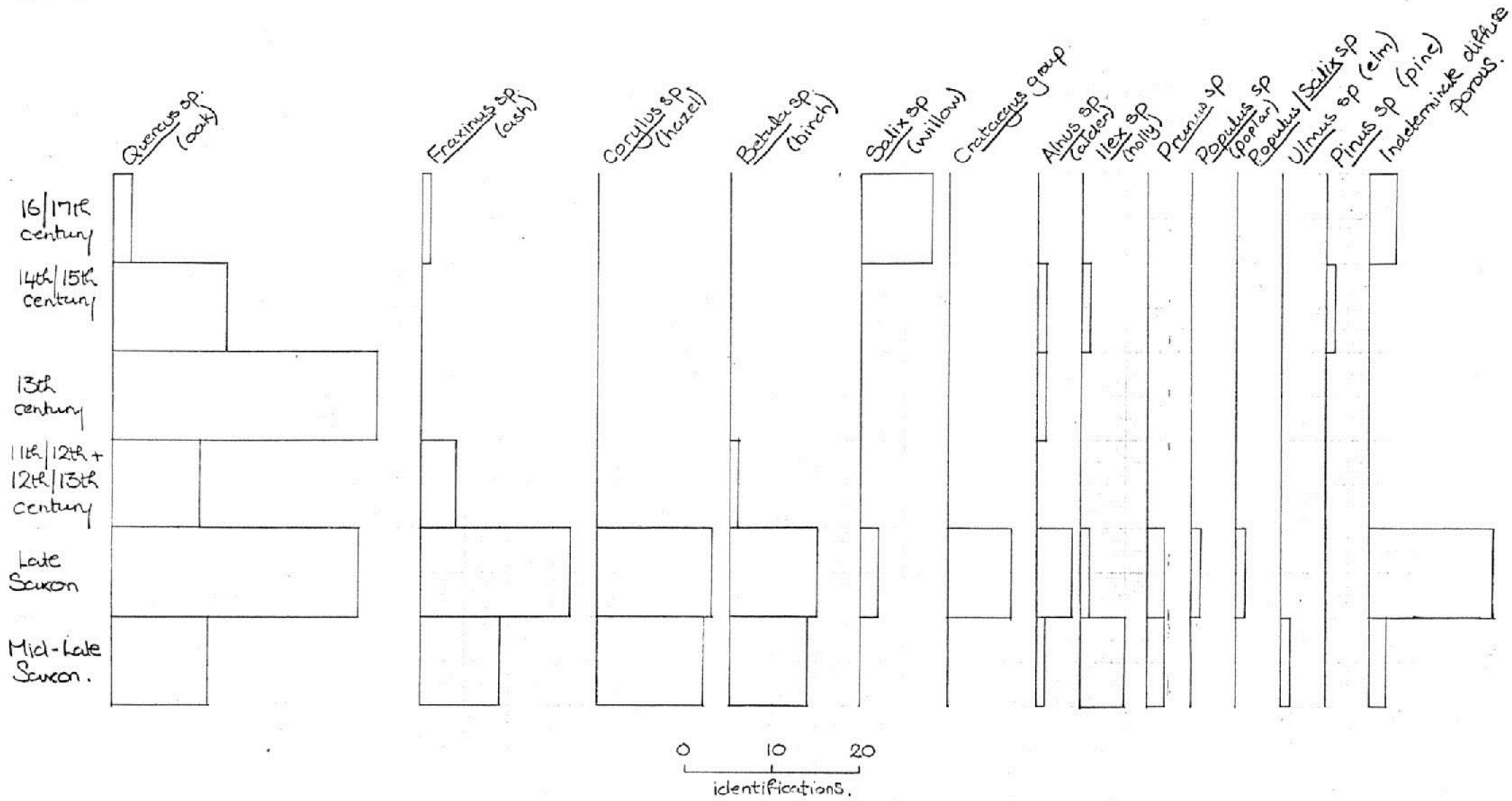


Fig 1 : Bridge Street, Ipswich. Wood identifications