

JAARBOEK
VOOR
MUNT- EN
PENNINGKUNDE

97
2010

KONINKLIJK NEDERLANDS GENOOTSCHAP
VOOR MUNT- EN PENNINGKUNDE
AMSTERDAM

commissie van redactie

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ISSN 090-380X

uitgave

© 2010 Koninklijk Nederlands Genootschap voor Munt- en Penningkunde

De uitgifte van het Jaarboek voor Munt- en Penningkunde wordt financieel mede
mogelijk gemaakt door: A.H. Baldwin & Sons Ltd

Geldmuseum te Utrecht

Fritz Rudolf Künker GmbH

Munthandel Verschoor

druk

n.v. Peeters s.a., B-3020 Herent

dankwoord

De redactie is dank verschuldigd aan de externe referent Ralf Wiechmann
"Museum für Hamburgische Geschichte, Hamburg".

The Monetary Economy of
the Netherlands, c. 690 – c. 760
and the Trade with England:
A Study of the ‘Porcupine’ Sceattas
of Series E

Michael Metcalf
and
Wybrand Op den Velde

Volume II

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9. APPENDICES

9.1 Notes on collections, hoards, and productive sites

Notes on collectors and dealers

Abramson collection. About 40 of the porcupine, ‘stepped cross’, VERNVS, and *Æthilivæd* sceattas in this important collection are published in: Abramson, T. (2006). *Sceattas, an Illustrated Guide*. Mr. Abramson kindly supplied additional information about the numerous specimens acquired subsequently.

Beowulf collection. This collection was auctioned in May 2006 by the Classical Numismatic Group. The sceattas from this collection, including 17 porcupines, etc. are illustrated in Abramson, T. (ed). 2008. *Two decades of discovery. Studies in Early Medieval Coinage 1*, 125-153.

Carlyon-Britton collection. The important private collection of P.W.P. Carlyon-Britton was auctioned in November 1913 by Sotheby, London. The auction catalogue has splendid illustrations.

De Wit collection. The sceattas assembled by the Dutch collector G.W. de Wit including 66 porcupines, etc. (lots 85-139, 159-160, 277-284, 379-383) were acquired en bloc by the Fitzwilliam Museum Cambridge. They are splendidly illustrated in a special auction catalogue: F.R. Künker GmbH & Co. *The De Wit Collection of Medieval Coins. 1000 Years of European Coinage. Part IV: the Sceattas*. Osnabrück. 2008.

Finn. The English coin dealer P. Finn has offered a great number of sceattas, including 78 porcupines, etc., probably nearly all local English finds. The illustrations from his sale lists from 1993 to 2001 are reproduced in Abramson, T. (ed). 2008. *Two decades of discovery. Studies in Early Medieval Coinage 1*, 155-196.

Lockett collection. The important collection of R.C. Lockett was auctioned by Glendining on 6 June 1955. Photographs of the Lockett coins not illustrated in the auction sale catalogue were taken by the British Numismatic Society and sets of prints are kept in the British Museum, the Ashmolean Museum, and elsewhere.

Stephanik collection. The coins collected by the Frisian J.W. Stephanik have been auctioned by F. Muller & Cie in Amsterdam, December 1904. The catalogue lists 74 porcupine sceattas – all found in the province of Friesland – of which only four specimens are illustrated. This is very possibly (a part of) an unrecorded hoard found in Friesland. The Lutje-Saaksum and Kloster Barthe hoards (see below) have a comparable composition.

Van Rede collection. This collection was acquired by the Koninklijk Penningkabinet and is now included in the collection of the Geldmuseum Utrecht (Zemering 1990). The sceattas from this collection have the prefix RE-.

Notes on hoards

Aston Rowant (O) 1971. This hoard contained at least 380 sceattas. The total included 70 primary-phase porcupines,²⁴³ and 197 coins of Series D. It was found well to the north of the River Thames on the steep, wooded scarp of the Chiltern Hills, some 20 km east of the river crossings at Oxford and Abingdon. Its owner may have been journeying towards the Cotswolds, but that is of course conjectural. The story of the hoard's discovery is told romantically. Two detectorists were walking home at the end of the day, through Grove Wood, with a detector left accidentally switched on.²⁴⁴ Thus, they said, they found the hoard, on the site of an old-established badger-holt. Generations of badgers, while digging their tunnels, had scattered the hoard far and wide. The detectorists eventually excavated a hole two metres across, and almost as deep. In 1971, 175 coins were declared Treasure Trove, and were acquired by the British Museum. Twenty-five of these were porcupines. But the finders kept much of what they found. By 1975 it was believed that 324 coins in all had been recovered; 32 were auctioned in that year.²⁴⁵ In 1983, 5 coins from the hoard were offered for sale by Spinks.²⁴⁶ In 1985, a further 43 coins were auctioned.²⁴⁷ Sothebys sold a further 49 coins on 17 July 1986, of which 20 were illustrated. And at Glendinings 77 coins presumed to be from the hoard were auctioned in 1988.²⁴⁸ These 77, including 17 porcupines, were all photographed and weighed by D.M.M. prior to the sale. The parcels of 1985 and 1986 were not fully rescued for science, and so we have only verbal descriptions of the varieties of some specimens. All the coins appear, however, to have been of the primary phase. The porcupines are summarized in table 9.1.

Table 9.1. The composition of various parcels from the Aston Rowant hoard.

	1972	1975	1985	1986	1988	other	Total
'Plumed bird'	1	1		1	2		5
VICO	10	1	2	2	7		22
Variety G	7	3	2	2	5		19
Variety D	4		2	3	2		11
Copies	3		1	1	1	2	8
VERNVS	2	1				2	5
'Stepped cross'							0
Total	27	6	7	9	17	4	70

²⁴³ One porcupine sceat, Corpus 2689 (illustrated on p. 62), is included in the secondary phase sub-variety k. It was auctioned only in 1985, and the forensic trail is sketchy. It could be intrusive, but if correctly provenanced, would have to be an early imitation.

²⁴⁴ Kent (1972); Rigold & Metcalf (1984) p. 246.

²⁴⁵ Auction Glendining, 13 March 1975 lots 211-242, all illustrated.

²⁴⁶ Spinks Numismatic Circular, June 1983.

²⁴⁷ Auction Sotheby, 18 July 1985, only 13 illustrated.

²⁴⁸ Auction Glendining 17 February 1988.

Bais (Ille-et-Vilaine, France). 1904. A farmer found a pot with over 400 silver coins and some silver objects 40 km southeast of Rennes. A detailed description of most of these coins was published in 1907.²⁴⁹ This description was reprinted with a lengthy introduction by J. Lafaurie, with revised attributions and dating to *c.* 735/740.²⁵⁰ The hoard includes 18 sceattas of Series D and seven or possibly nine porcupine sceattas, together with three English sceattas of Series A and B (2) (Rigold A3,17a; BIC,6; cf. BIA,4). The specimens of Series D are conspicuously heavy, except for two coins.²⁵¹ The latter presumably post-date the weight-reduction. The porcupines are of primary varieties G2 and G3 (2), VICO var. 3, and imitations of G and VICO. Two further porcupines (Corpus 1106 and 2584, see p. 133), rediscovered many years later in the Durocher collection, are problematic because they are secondary-phase. There was said to be one further porcupine from the hoard, belonging to a M. Valloir, notary in Paris. Lafaurie's analysis of the dating of the hoard to *c.* 735/740 identifies various issues of the late seventh century, but also recognizes some groups of coins on squarish flans, which for that reason (alone) seem to be dateable to the 730s or even the 740s. In order to reconcile the conflicting aspects of the evidence, one would have to say either that inflows of primary phase porcupines had become 'fossilized' in the French currency, or that Bais is a 'double' hoard, including an older treasure from *c.* 700/710. The primary-phase porcupines would belong to that earlier part, while the Durocher coins, believed to have been purchased soon after the discovery of the hoard, will be from the 730s. Unfortunately the forensic trail is so defective that we shall never know for sure.

De Meern (U). 2004-2007. During construction work close to the remains of the old Roman *castellum* on the Old Rhine near De Meern, the site of a *vicus* adjacent to the *castellum* was found. Controlled archaeological exploration of the area yielded, in an old, silted-up tributary of the Old Rhine 123 sceattas, of which 119 were porcupines.²⁵² Eight of the 119 were primary-phase porcupines. The secondary-phase coins included examples of all the sub-varieties. A detailed publication is in preparation, and we are grateful to have been permitted to include the coins in our Corpus. The numbering of the De Meern sceattas cited in the Corpus is provisional.

Duffel? (Belgium, near Antwerp) ante 1949. In an Antwerp sale appeared a small cardboard box containing at least one hundred sceattas. On the box was written "found in Duffel", but further information is lacking.²⁵³ The history of these coins after 1949 is unknown. The Brussels coin dealer M. Franceschi offered in his 1966 list a parcel of 35 porcupine sceattas, acquired from a collector who was understood to have had it for a long time and to have hoped to make it the basis of some research. These 35 coins have been fully published, and several of those now in the Ashmolean Museum have been chemically analysed.²⁵⁴ It is possible, although purely speculative, that this so-called 'Franceschi parcel' is part of the Duffel hoard. That is not good news for the

²⁴⁹ Prou & Bougenot (1907).

²⁵⁰ Lafaurie (1981a); Lafaurie & Pilet-Lemière (2003).

²⁵¹ Op den Velde & Metcalf (2003) 391 sub-variety 2f, and 859, subvariety 3f.

²⁵² Graafstal & Pol (2004); a brief report. A detailed publication is in preparation, and we are grateful to have been permitted to include the coins in our Corpus.

²⁵³ Vanhoudt (1988).

²⁵⁴ Metcalf (1969).

monetary historian, because it opens the possibility that the 35 coins are a selection, according to criteria which we do not know.

Fingringhoe (Ess). Three sceattas were found in March 1998 stuck together and are certainly a mini-hoard.²⁵⁵ The finder, who had found another porcupines on the site previously (Corpus 0030), was exemplary in his reporting of them.



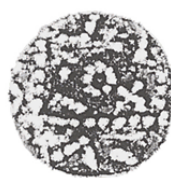
Corpus 0651



Corpus 2070



Corpus 2142



Föhr (Germany). 1976-1986. On the North Frisian island of Föhr, off the coast of Schleswig, a total of 87 sceattas and Merovingian coins were found at Goting-Kliff. The first, early finds were picked up by various persons on the beach, where they had fallen out of the cliffs, and they come mostly from an area of just 5 metres square. This was followed by controlled metal-detecting and sieving of the sand. Among the total of 87 there are 18 'hexagram' sceattas, one 'interlace', and 52 porcupines. One plumed bird porcupine is of the primary phase, and another six are secondary phase, leaving 46 tertiary-phase varieties B and E1, together with AF, plus a couple of B/E mules and an imitation, but not varieties E2 and F.²⁵⁶ The primary-phase plumed bird porcupine, and five sceattas of Series G and J, which one would be inclined to date to the beginning of the secondary phase, raise the question whether there were some stray losses as well as a hoard, or whether these English types were old coins that had 'silted up' in the currency of North Sea trade. Certainly, most of the coins are from a hoard. The hoard will presumably have been concealed before varieties E2 and F were struck. Of particular interest in this find is a coin naming Milo. Its attribution and date are uncertain (see p. 141). If it was struck after 750 it has important implications for the chronology of the tertiary phase. See the review by Metcalf.²⁵⁷

Franeker (Fr). 1868. During the levelling of a terp around 412 sceattas were found, of which at least 320 (and probably *c.* 360) are porcupines, almost all of the tertiary

²⁵⁵ Coin Register *BNJ* (1996).

²⁵⁶ Hatz (2001).

²⁵⁷ Metcalf (2003b) 420-421.

phase.²⁵⁸ The other main type in the hoard was the ‘hexagram’ type (36 specimens). The porcupines are of three main Varieties, B, E, and F, together with a smaller related group (AF) and a certain number of specimens which seem to be imitations or ‘mules’. Although Franeker-phase porcupines are uncommon as single finds, it seems that the whole or almost the whole range of known varieties is represented in the hoard, which will have been concealed when their issue was complete. The hoard is quite heavily die-linked, in particular Variety F. Most of these sceattas are part of the collections of the Fries Museum Leeuwarden and the Geldmuseum Utrecht. Nine specimens rediscovered in 2007 are in the possession of the Provinciaal Utrechts Genootschap (PUG) and kept in the Archeologisch Archief Utrecht.

Hallum (Fr). 1866. The hoard, found 15 km north of Leeuwarden and published promptly, was concealed in a pot.²⁵⁹ It consisted mainly of Wodan/monster sceattas, but also included 13 porcupines, ‘hexagram’ sceattas, and a variety of Merovingian deniers and English sceatta types.²⁶⁰ As long ago as 1960, Rigold suggested that Hallum was a year or two earlier than the group of hoards which he associated with ‘the final invasion of Carolingian money and men’.²⁶¹ He reached his view-point from a consideration of the English types represented – J, G, and QI, which are of early secondary date. They may, however, have left England at that time, but remained in the currency of the North Sea coastlands for a couple of decades. Generally speaking, the porcupines are a better guide to the *t.p.q.* of those hoards which they dominate. In Hallum, porcupines are by no means dominant, but should still be a better guide than the English coins. And if the scheme of classification is correct Hallum, lacking sub-varieties f-h, will probably be three or four years earlier than the other late-secondary Frisian hoards. The presence of all three Big Rivers sub-varieties b-d – and the absence of tertiary porcupines, although *an argumentum e silentio* – points to a date of concealment towards the end of the secondary phase, *c.* 725.

Kings Lynn (Nf) 1991. It was another secretive detectorist who, one day, walked into a leading London coin dealer’s and put 21 sceattas on the counter. Four were porcupines.²⁶² ‘I’ve come a long way to bring these here today’, he said, and vouchsafed no better information. A note was published in a magazine read by detectorists, in the hope of eliciting more information. A response was quickly forthcoming, from a man who claimed to have found the coins near Thetford. This response was fed into the grape-vine, and provoked the rejoinder from a third party, ‘Don’t believe a word of it, that man likes to see his name in lights. I know for a fact that he didn’t find them, because my mate sold them, and he did not buy them from *him* ...’. The upshot is that the coins are believed to have been found somewhere in the vicinity of Kings Lynn, on the edge of the Fens, in 1991. Of the 21 coins, one was much later than the rest and clearly intrusive. It was of Type R11 (*Tilbeorht*), which more or less guarantees an East Anglian provenance for the whole parcel (the very late varieties of Series R did not travel far). Twenty was a conventional number for a (late) grave-find, and for that

²⁵⁸ Dirks (1870); Op den Velde (2001).

²⁵⁹ De Haan (1866); Dirks (1870).

²⁶⁰ See the plate from De Haan’s description on p. 131.

²⁶¹ Rigold (1960-61).

²⁶² See Corpus 0264 and 0290 on p. 27, and 2239 on p. 129.

reason alone, the group has been referred to as the Kings Lynn grave-find. Whether it was that, or merely a normal hoard, there need be extremely little doubt that the 20 coins were associated. All except one had traces of the same soil adhering; the exception had been severely overcleaned, leaving it bright and almost polished. The integrity of the parcel is of particular interest, because while three of the porcupines are of primary date, the fourth is a secondary-phase coin (see p. 129). The other 15 sceattas were of Series D (3), A, B (3), C (4), an A/C imitation, F, BZ, and Z/66.

Kloster-Barthe (Germany) 1838. This large hoard from near Oldenburg in north-west Germany consisted of at least 880 sceattas, all porcupines, and is the *locus classicus* for the secondary phase.²⁶³ The majority of the hoard is kept in the Landesmuseum in Emden. However, shortly after its discovery, H. Grote gave away or exchanged several lots of sceattas from this hoard.²⁶⁴ The coins are generally very well preserved. There are a few primary-phase porcupines, but the majority are secondary-phase porcupines, of all sub-varieties. The quantities of the sub-varieties are a, 14; b, 108; c, 122; d, 90; e, 68; f, 59; g, 37; h, 141; i, 27; and k, 102. A detailed publication of this hoard is in preparation.

Lambeth (Sr) 1991. Four sceattas were found in the mud-flats of the south bank of the River Thames at Lambeth, a kilometre or so up-stream from *Lundenwic*. On the fore-shore, a patch about 2 metres by 1.3 metres, and about 20 metres from the low water line was cleaned of rubbish using a garden rake, and was then searched with a metal detector. This yielded a porcupine in close association with two oyster shells. Soon afterwards, a second porcupine was found, before the rising tide began to flood the hole. On the next weekend, all the mud was dug out of the patch and spread on a wooden board, which was then detected yielding two more porcupines, of which one was of the plumed bird variety. The first two finds were generously presented to the Ashmolean Museum by the finders, Mr and Mrs R.H. Lovett (see p. 129). The present whereabouts of the other two coins is not known. Because four out of four porcupines is an unlikely score in England, it is tempting to imagine that a vessel arriving from the Netherlands had anchored on the south bank, and that the skipper was buying goods over the side of the ship, when these four coins accidentally fell into the water and were lost. Two primary and two secondary porcupines, if that is the total of what was lost, suggests a date early in the secondary phase.

Lutje-Saaksum (Gr) 1917. This small hoard was found in the terp of that name, near Baflo. The larger part of it is kept in the Groninger Museum. It was published by P.V. Hill as two separate hoards,²⁶⁵ but D. Hill and J. Sharples showed that both parcels were from the same source.²⁶⁶ It was entirely composed of porcupine sceattas. There is one primary-phase Variety G, all other are secondary (sub-varieties c and d are plentiful, but b is scarce).

Nice-Cimiez (Alpes-Maritimes). This huge hoard, discovered in 1850, contained over 2,000 deniers, among which were 29 porcupines. The great bulk of the hoard, 1,914

²⁶³ Bärenfänger (1997 p. 19; 2004).

²⁶⁴ Berghaus (1958).

²⁶⁵ Hill (1955).

²⁶⁶ Hill & Sharples (1973-1974).

coins, was bought by a Swiss banker living in Paris, A. Morel-Fatio. Smaller parts came into the hands of the collectors Morin and of Carpentin. Fillon studied and described the coins in the possession of Morin.²⁶⁷ Morel-Fatio himself prepared a description of his collection, which was published by Chabouillet.²⁶⁸ Almost 500 coins, selected by Morel-Fatio, are now in the Bibliothèque nationale in Paris. Lafaurie has shown that the hoard can be dated to the 740s, by coins of the bishops of Paris included in it.²⁶⁹ There were 29 porcupine sceattas in this hoard, including eight primary-phase coins, and running up to the end of the secondary phase (b-d, 7; e-h, 5).²⁷⁰

Nohanent (Puy-de-Dôme, France) 1877. A hoard of at least 35 silver deniers was discovered in the outskirts of Clermond-Ferrand. Three letters dated 1877 by the collector-dealer Grange and 35 wax impressions allowed Lafaurie to recognize and study several of these coins.²⁷¹ Among them were four porcupine sceattas. Three in the Corpus are primary-phase coins of the VICO and G varieties (Corpus 0288, 0450, 0583). Lafaurie dates the hoard to *c.* 740.²⁷² See the critical commentary on the dating of the Bais hoard (p 287).

Remmerden (Gld) 1988. In a field at Remmerden (near Rhenen in the region of the big rivers) by metal detection some gold tremisses and sceattas were found.²⁷³ Further exploration of the site furnished 97 gold coins and 163 sceattas. It concerns most likely one deposit. The combination of Merovingian gold coins and sceattas is unusual and puzzling. Perhaps it was a combination of gold savings and silver currency for daily use. This find contains four porcupine sceattas and two of the VERNVS type (illustrated on fig. 6.3, p 127).

Rhens (Germany) *c.* 2005.²⁷⁴ Two die-duplicate porcupines assigned here to sub-variety d, found on the left bank of the Rhine 6 or 7 km above Koblenz (Corpus 1389-1390) are reportedly a grave-find, and have doubtless stayed together since they left the hands of the moneyer. They are undoubtedly imitative, as indicated by lateral reversal and distinctive sharp seriffing.



Corpus 1389



Corpus 1390



²⁶⁷ Fillon (1853).

²⁶⁸ Chabouillet (1890).

²⁶⁹ Lafaurie (1998); see also p. 137.

²⁷⁰ Le Gentilhomme (1938).

²⁷¹ Lafaurie (1969).

²⁷² Lafaurie & Pilet-Lemière (2003) entry 63.254.1.

²⁷³ Pol (1989) a brief report.

²⁷⁴ Kindly reported by Prof. J. Heinrichs.

Saint-Pierre-les-Étieux (Cher, France) 1882 (also indicated as *trouvaille de Creuset*). A pot containing over hundred silver pennies and one tremissis was found near the surface of a tumulus in the locality Le Creuset. An account of 61 coins that he had been able to examine was published by Buhot de Kersers (1884). Nearly thirty more are known from drawings made from tin-foil impressions, and few more were identified by Lafaurie.²⁷⁵ None of the Merovingian coins can be independently dated. There were eleven sceattas, among them two porcupines of Variety G. Lafaurie dates the hoard to 730/735.²⁷⁶ See the critical commentary on the Bais hoard (p. 287).

The Rodings (Ess) *c.* 1994. Found somewhere between Bishops Stortford and Chelmsford, where there is a group of villages with names ending in Roding – Leaden Roding, Margaret Roding, etc. The hoard, of between 20 and 25 sceattas, was found somewhere in the district by a detectorist who was at first disposed to be secretive about it. When he gave untruthful information to one of us, he was taken to task by Mr Joe Bispham, who spoke to him like a Dutch uncle²⁷⁷ (as the English idiom has it), and persuaded him to be more forthcoming. The hoard had been scattered, but three or four sceattas came up in each shovelful of earth. The finder had already sold half-a-dozen sceattas of Series B, and also a specimen of *BMC* Type 10 (TILV), a variety now known to be die-linked with D/2c. The 16 remaining coins, which it was possible to photograph, included four porcupines, together with three of D/2c, a D/8Z, three of Series B, of which two were BII, three of Series C, of which two were C2, an R1-2, and an Aldfrith imitation.²⁷⁸ The date is clearly very late in the English primary phase. The porcupines are of VICO varieties 2 and 3, and G, varieties 1 and 3.

Stephanik (Friesland). See above, p. 285

Woodham Walter (Ess). 1994. The hoard was found on the southern outskirts of Maldon (Ess). It was acquired by the British Museum, and the sceattas are included in Dr. A. Gannon's forthcoming *Sylloge* volume.²⁷⁹ The hoard, of 108 sceattas, included many different English types, and also eleven primary-phase porcupines (but none of Series D), and 21 porcupines of the secondary phase. As such it is important for the relative chronology of the Dutch and English issues. The secondary porcupines are of the sub-varieties c and d (11, none of b), and of e, g, and h (3), plus seven of sub-variety k.

Notes on productive sites

Big Rivers area. There are more and more archaeological indications that the area of the rivers Rhine, Waal, and Maas in the Netherlands was densely inhabited in the early

²⁷⁵ Lafaurie (1969).

²⁷⁶ Lafaurie & Pilet-Lemière (2003).

²⁷⁷ The *Oxford English Dictionary* offers the definition: 'To give advice in a kindly, heavy manner'.

²⁷⁸ Metcalf (2006) p. 155.

²⁷⁹ We are grateful to Dr A. Gannon and G. Williams to have been supplied with photographs and weights, and to be permitted to include them in the Corpus.

medieval period. Sceatta finds are known from Alphen, Beuningen, Beusichem, Bunnik, Buren, Cothen, Deest, De Meern, Dodewaard, Elst, Empe, Escharen, 't Goy, Halder, Heerwaarden, Heeswijk, Herveld, Hoek van Holland, Houten, Kamerik, Kerk-Avezaath, Lienden, Linne, Lijnden, Maastricht, Merm, Naarden, Nederwetten, Nijmegen, Nijnsel, Ommeren, Ooyerhoek, Posterholt, Randwijk, Remmerden, Rossum, Rotterdam, Teeffelen, Utrecht, Valburg, Vechten, Vleuten, Wageningen, Werkhoven, Winssen, IJzendoorn, Zoelen, and Zutphen. The separately listed productive sites Wijk-bij-Duurstede, Maurik, and Rijswijk are located in the centre of the Big Rivers region. Altogether 101 single finds of porcupines from the area of the big rivers are registered. One plumed bird, six Variety G, one VERNVS, two 'stepped cross' sceattas, sub-variety b-d 26, sub-varieties e-g six, sub-variety k 19, and of the tertiary phase Variety E 16, Variety B four, Variety F 19.

De Panne (Belgium). During excavations at and near the site of the 'Roman Camp' in the dunes of De Panne a Merovingian denier (De Belfort 1867), six sceattas of Series D (three *BMC* Type 2c, three *BMC* Type 8), two sceattas of *BMC* Type 3a, and four porcupines were found.²⁸⁰

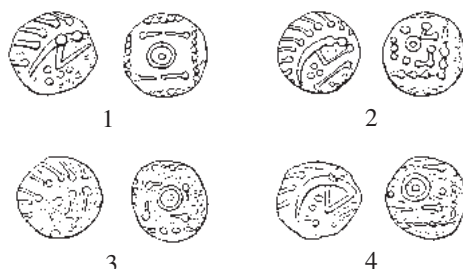


Figure 9.1. Porcupines from the excavations near De Panne. The drawings are made from photographs kindly loaned by the Royal Museums of Art and History, Brussels.

By mistake these four sceattas were not included in the Corpus.

Primary phase varieties

1. Variety G3. 1.24 g.
2. an imitative G/VICO mule. 1.10 g.

Secondary phase variety

3. sub-variety k, the central spine seems to be absent. 1.02 g.

Tertiary phase variety

4. Variety E1. 0.66 g.

Domburg (Z). The sceattas from Domburg, of which a major catalogue has been published, provide a very large sample of porcupines, which can safely be treated as a random sample.²⁸¹ For arguments concerning the residual localization of porcupine varieties within the Netherlands, the Domburg finds offer a firm anchor point.

²⁸⁰ Cumont 1907a; Loffens 1960; Vanhoudt (1988) pp. 52-54.

²⁸¹ Op den Velde & Klaassen (2004).

		Coins	% of those in Corpus
Primary	plumed bird (incl. 4 imitations)	9	5
	VICO (incl. 1 imitation)	16	10
	Variety G (incl. 9 imitations)	27	9
	Variety D	6	8
Secondary	Sub-variety a	4	11
	Sub-variety b	12	5
	Sub-variety c	48	14
	Sub-variety d	37	12
	Sub-variety e	12	7
	Sub-variety f	7	8
	Sub-variety g	1	1
	Sub-variety h	9	3
	Sub-variety i	3	5
	Sub-variety k	82	15
			No. in Franeker hoard
Tertiary	Variety E	34	115 = 1 : 3.4
	Variety AF	3	10 = 1 : 3.3
	Variety B	7	47 = 1 : 6.7
	Variety F	20	152 = 1 : 7.6

The predominance of sub-varieties b-d over e-h (and a) is strongly marked. Note the relative under-representation of sub-variety b, compared with c and d.

Flixborough (L). Excavations at a site in Lindsey not far south of the Humber estuary have yielded 27 sceattas including two of Series D and 13 porcupines (fig. 9.2 on p. 296), now fully published and discussed.²⁸² This monograph reached us only after the Corpus was finalized. The proportion of secondary-phase porcupines from this site is high, and sub-varieties b-d are lacking.

Friesland. Many single detector finds in this northern province of the Netherlands have been reported since the 1980s. The coastal areas of this region – often indicated as the “Frisian *terpen* area” were densely inhabited in the early middle ages, and are

²⁸² Evans & Loveluck (2009).

consequently a productive site for coin hunters. The hoards of Hallum and Franeker are found within this region. From a total of 201 provenanced single finds of Merovingian denarii and sceattas 46 were porcupines. A further 32 porcupine sceatta finds from this province, without an exact record of the find-place, are included in the Corpus. Compare the proportions, from the tabulation below, with those at Domburg (p. 294).

	provenanced single finds	other single finds
primary-phase	3	4
secondary phase sub-var. b-d	14	10
sub-var. e-g	10	10
sub-var. i-k	10	3
tertiary phase	9	4

Hamwic. See below, under Southampton.

Katwijk a/d Rijn (ZH). This old fishing village is located on the coast of Zuidholland, where the Old Rhine discharged into the North Sea. It is located on the ancient route of the Rhineland by way of Dorestad to the North Sea. This area was already densely inhabited during the Roman occupation of the Low Countries. From 1992 onwards, *Zanderij*, an area of 50 hectares, on the south bank of the Old Rhine, was systematically searched by metal detectorists. An archaeological examination of this site was conducted in 1996/1997, which showed that the oldest settlements here dated from c. 450. Five Merovingian denarii and 42 sceattas were found in this field. Eight porcupines included one primary Variety G, two of sub-varieties b-c, three of sub-variety k, and two of tertiary-phase Variety F.²⁸³ In the primary phase Katwijk seems to show the southern limit of the Friesland monetary zone (21 specimens of Series D Type 2c, against one primary porcupine). A few English primary sceattas could have arrived via Domburg, but given the absence of primary porcupines, they may indicate a direct trading link across the North Sea. From the secondary phase there are five porcupines, of mixed origins, and again a few English sceattas and a couple of Wodan/monsters. There are three tertiary-phase porcupines, of Varieties E and F (2).

From Katwijk/Valkenburg, also on the south bank of the Old Rhine, there are three further sceattas of Series D and one more Wodan/monster.

London. Controlled excavations from 1985 onwards at various sites lying behind the Strand, and as far north as the Royal Opera House, have revealed eighth-century occupation, and have yielded some 23 sceattas, including however only one porcupine.²⁸⁴ That is an unexpectedly low proportion. There are five porcupines among earlier casual finds. See also Lambeth hoard (p. 290).

²⁸³ Pol & Van der Veen (2008).

²⁸⁴ Malcolm & Bowser (2003).

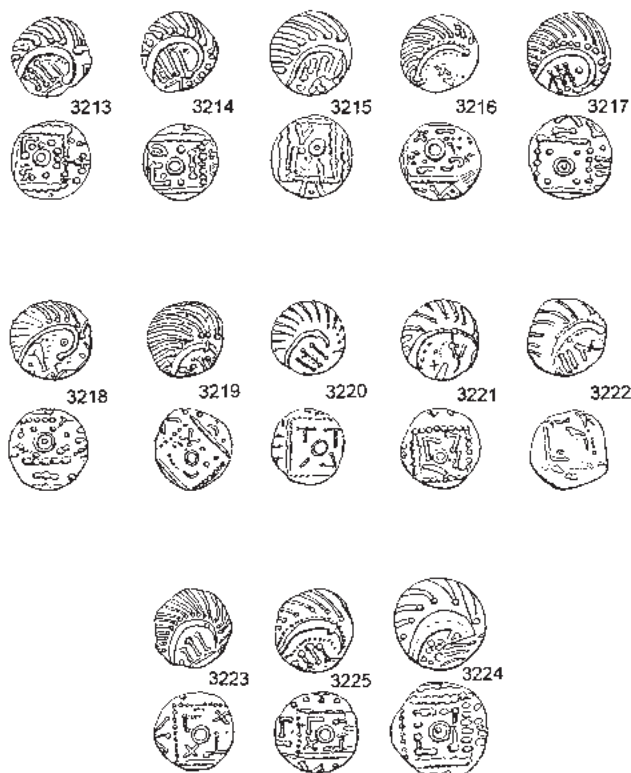


Figure 9.2. Porcupines from Flixborough.

Mainz (Germany). Mainz was already a major commercial centre in the early eighth century. At a construction site in the Löhrrstrasse over one thousand Roman and early medieval coins were recovered. Among the 21 sceattas were 19 porcupines (primary-phase Variety G 3, sub-variety b-d 3, sub-variety k 4, tertiary variety E 2, indeterminate 7), the Frisian secondary-phase sub-varieties e-g are absent.²⁸⁵

Maurik (Gld). Finds recovered near the probable site of a Roman *castellum*, a short distance upstream from Dorestad.²⁸⁶ The coins were actually found in deposited sand, dredged out of the shore of the Rhine, during construction of a recreation harbour. They include 13 porcupines (cat. nos. 2-14), of which one is of primary date, 11 are secondary, and one is tertiary, plus one 'stepped cross' type. Of the secondary-phase porcupines, one is of sub-variety a, and six are of b-d.

²⁸⁵ Stoess (1994).

²⁸⁶ Op den Velde (1982).

← **Figure 9.2.** Porcupines from the Flixborough (L) excavations (Evans & Loveluck 2009; cataloguing by M.M. Archibald). These coins are not included in the Corpus.

Primary phase varieties

- 3213 1.27 g. VICO imitative. 91% 'silver'. Found with 3216.
3214 1.27 g. VICO. 95% 'silver'.
3215 1.33 g. VICO imitative. 96% 'silver'.

Secondary phase varieties

- 3216 1.25 g. 71% 'silver'. Found with 3213.
3217 1.30 g. Cf Corpus 0727-0733.
3218 1.21 g. corroded. 85% 'silver'.
3219 1.24 g. corroded. 84% 'silver', 1% tin.
3220 0.93 g. 69% 'silver', 1% tin.
3221 1.16 g. 85% 'silver'.
3222 1.24 g. heavily corroded. 60% 'silver'.
3223 1.02 g. 52% 'silver', 3% tin.
3225 1.22 g. 81% 'silver'.

Tertiary phase

- 3224 1.08 g. Detectorist find. (Detectorists were authorized to search the site shortly after the completion of the excavation).

3213 and 3216 are stated in the excavation report to have been found together. As 3216 is clearly derivative from the sub-varieties e-g, that is to say, from Friesland, the association strengthens the evidence of the Kings Lynn, Fingringhoe and Lambeth finds. Note also that 3220 is debased.

Ribe (Denmark). Excavations at Ribe, on the west coast of south Jutland, have produced numerous sceattas, mostly of the Wodan/monster type (Series X), but including also several secondary-phase porcupines. The Post Office site offers important stratification, with dendrochronological dating.²⁸⁷ See pp. 250-257 for more detail.

Royston (Hrt) (near). A productive site in southern Cambridgeshire, lying apparently just to the west of the frontier of the East Anglian kingdom, has yielded 70 sceattas, one coin of Beonna, and two Merovingian deniers, up until 1985. These have all been fully published.²⁸⁸ The site near Royston has continued to yield a rich harvest, and the sceattas are in the Fitzwilliam Museum. There are 8 primary but only 5 secondary porcupines among the 70 – perhaps because the site was plentifully supplied with English secondary-phase issues.

²⁸⁷ Feveile (2006).

²⁸⁸ Blackburn & Bonser (1986).

Rijswijk (Gld). Finds recovered near the probable site of a Roman *castellum*, a short distance upstream from Dorestad.²⁸⁶ They include six secondary sceattas (cat. nos. 21-6), of which four are of sub-varieties b-d. The coins were found in deposited sand, dredged out of the shore of the Rhine, during widening of the waterway.

Sledmere (ERY). The whereabouts of a productive site in the north of England was for years kept secret by the detectorists who exploited it since 1991. The quite numerous Corpus entries with this designation were once thought to be from Flixborough (L)²⁸⁹, but the site is now securely known to be in the Yorkshire Wolds, on the Sledmere side of Garton-on-the-Wolds (from where there is also a grave-find of 8 sceattas), within sight of a family monument. Single finds originally reported as coming from Garton-on-the-Wolds, Sledmere, Wetwang, or “Monument field” are probably all from this same productive site. The assembled finds, published by Bonser, now include 15 porcupines, of which at least 10 are primary-phase, plus three ‘stepped cross’ and three *Æthiliræd* porcupines.²⁹⁰

Southampton (Ha). A monograph published in 1988 catalogues 127 sceattas and 2 Merovingian deniers from controlled excavations of the *wic* of Hamwic, from 1946 to 1987.²⁹¹ They include 16 porcupines (5 primary and 11 secondary) plus one *Æthiliræd* coin. There are also records of a good number of 19th century finds, including at least one porcupine. Subsequent excavations has yielded a ‘stepped cross’ coin from the Six Dials site (Corpus 3512) and finds from more recent sites are still to be studied.²⁹²

Spalding (L). A rich and well-reported productive site in south Lincolnshire was searched from c. 1990 by two detectorists, who kept its location a closely-guarded secret. Up until 1997, they recorded 58 single finds, which were summarily published by M.J. Bonser.²⁹³ These included 23 porcupines, the details of which are unfortunately lost. From then on, one of the finders faithfully permitted DMM to photograph all the finds as they came to light, including *inter alia* a further 24 porcupines, up to 2002. A full publication of the site-finds is in preparation. The farmer then gave permission to another detectorist, who from 2003 has reported at least 10 more porcupines. The total of tremisses and sceattas from the site now exceeds 170. The coins came out of the ground looking like little round cinders, and needed skilled cleaning.

Westenschouwen (Z). Near this coastal village, 18 km north-east of Domburg, a total of 91 sceattas and Merovingian denarii was found, including 47 mainly very poorly preserved porcupines. A rough impression of the varieties represented would be: secondary-phase sub-varieties b-d, a dozen, sub-varieties e-k, about twenty; tertiary phase Variety F, 4, and AF, one.

²⁸⁹ See above, p. 294.

²⁹⁰ Bonser (2010).

²⁹¹ Metcalf (1988b).

²⁹² Birbeck e.a. (2005).

²⁹³ Bonser (1997).



Westenschouwen Nos 948 and 949

The three specimens 948-950, resembling primary Variety G, are presumably of the tertiary-phase Variety E.

There are two over-all differences between the sceattas found at Domburg and Westenschouwen. First, those from Westenschouwen are generally very badly preserved, and over 10% are indeterminable. Second, coins belonging to the primary phase are hardly present in the Westenschouwen finds. It is conceivable that, during the growth of international trade at Domburg, a secondary trading place originated and rapidly extended *c.* 725 on the nearby island of Schouwen.²⁹⁴

Wijk-bij-Duurstede (U). The important early medieval river port and trading centre of Dorestad was located here. Already during extensive excavations in 1842-1846 40 sceattas and 2 Merovingian denarii were unearthed.²⁹⁵ Excavations conducted between 1967-1980 and detector finds brings the total to 99 specimens.²⁹⁶ The chronological pattern of varieties is markedly different from that of for example Domburg. Until now no primary-phase porcupines have been recorded from this findspot. Sub-varieties b-d four, e-h one, but 23 tertiary-phase sceattas (E 14, B 4, F 5). Cf. the finds from Maurik and Rijswijk, not far away.

Wijnaldum (Fr). The foot-plate of a seventh century gold cloisonné brooch, one of the finest pieces of early medieval craftsmanship, was found there in the 1950s. In the period 1992-1994 excavations were carried out in a complex of four terps, by the Biologisch Archeologisch Instituut, Groningen.²⁹⁷ During these systematic excavations some fragments of the missing part of the famous brooch were found. The many finds showed that Wijnaldum was not an ordinary medieval settlement. It was even suggested, although unproven, that this had been the residence of the Frisian kings. At Wijnaldum-Tjitsma, 20 coins from the period 675-750 were found by the archaeologists. In addition, two Frankish denarii and 17 sceattas were found by detectorists in and around Wijnaldum. Some of these finds were sold by the dealer Margreet Holleman, and are illustrated in her sale lists from 1995-1997. The illustrated porcupines of both samples are included in the Corpus.

²⁹⁴ Op den Velde & Klaasen (2004) p. 81.

²⁹⁵ Op den Velde, De Boone & Pol (1984).

²⁹⁶ NUMIS data-base.

²⁹⁷ Besteman et al. (1999); Pol (1999); NUMIS data-base, Geldmuseum Utrecht.

D	BMC Type 8	2
	Continental runic type	16
	BMC Type 10	1
E	Plumed bird porcupines	2
	Other porcupines	13
X	Wodan/monster Type	8
Y	Eadberht	1
-	Hexagram Type	1
-	Merovingian denarii	7
-	blank flan	1
-	unidentified	1

In the primary phase the currency was heavily loaded towards Series D. But the secondary-phase porcupines included in the Corpus are of sub-varieties b-d (6), f (1), and k (2). That is sharply in contrast with proportions of single finds from the rest of Friesland (b-d, 19 = 40%, e-h, 19 = 40%, i-k 10 = 21%). If this small sample is a fair reflection of the currency of the place, it perhaps suggests that merchants from the Big Rivers region resorted to Wijnaldum (specifically) in order to buy, using their local issues of porcupines, sub-varieties b-d (and possibly also i-k). It appears that the tertiary phase is unrepresented, which again may be thought surprising.

9.2 The die-corpus

The provenance of numerous specimens is listed as ‘England?’. Many of these are from fixed-price lists from *c.* 1990 onwards – the age of the metal detectorist – and were sold by Patrick, Finn, A.G. & S. Gillis or by Mike R. Vosper and others. It is highly probable that these specimens were found in England, even if there is no formal guarantee that that was so. The same is true of coins in the Abramson collection, without formal provenance. With coins marked ‘England?’ from before *c.* 1990, however, their country of origin is less certain, and should not be relied upon in historical argument.

Illustrations

Photographs have been published of several hundred porcupines, in the *Sylloge of Coins of the British Isles* (SCBI), in the Coin Register of the *British Numismatic Journal* (CR), and in various hoard reports. More than 120 specimens illustrated in the text, above, are marked in the catalogue, with a page reference. All die-identical and die-linked specimens are illustrated by line-drawings, in our plates.

Productive sites

A substantial proportion of the English single finds are from ‘productive sites’, i.e. recognized meeting-places for trade. This is perhaps especially true in the primary phase, and it has a bearing on our general ideas about the monetary history of the porcupines. Where the topographical context of the finds is securely known, they are listed with the

abbreviation ‘p.s.’ A good many more, of which the exact findspot is not on record, may also be from known productive sites, or from smaller sites of the same trading character. In some cases, coins were said by the finders to be from a near-by village, in order to keep the location of the site secret from other detectorists.

Abbreviations

AuB	Anton Ulrich Museum, Braunschweig
B&B	Blackburn & Bonser (several publications)
BM	British Museum, London
BMC	‘British Museum Catalogue’ Keary, C.F. (1887) <i>A Catalogue of English Coins in the British Museum, London</i>
BNF	Bibliothèque nationale de France, Paris
Dép.	Département
EDXRF	Energy dispersive X-ray fluorescence spectrometry
ELM	Emden Landes Museum, Emden
EMC	Database of English finds: www.early-medieval.co.uk
EPMA	Electron probe micro-analysis
GM	Geldmuseum Utrecht (formerly Royal Coin Cabinet)
MEC	Grierson, P. & Blackburn, M. (1986). <i>Medieval European Coinage</i>
NUMIS	Database of Dutch coin finds: www.geldmuseum.nl
p.s.	‘productive site’
SCBI	Sylloge of Coins of the British Isles (Oxford University Press)*
SEC	‘ <i>Sceattas in England and on the Continent</i> ’. Proceedings of the Seventh Oxford Symposium on Coinage and Monetary History. BAR British Series 128 (1984)
SiEMC	<i>Studies in Early Medieval Coinage</i>
T&S	Metcalf (1993) <i>Thrymsas and Sceattas in the Ashmolean Museum Oxford</i> . Volume 2.
WLM	Westfälisches Landesmuseum Münster
XRF	X-ray fluorescence spectrometry

- * SCBI 1 Fitzwilliam Museum Cambridge
 SCBI 2 Hunterian Museum Glasgow
 SCBI 4 Copenhagen Museum
 SCBI 11 Reading University
 SCBI 16 Collection Mrs E. May Norweb
 SCBI 17 Midlands and Gloucester Museums
 SCBI 20 Collection R.P. Mack
 SCBI 21 Yorkshire Collections
 SCBI 24 West Country Museums
 SCBI 26 Museums in East Anglia
 SCBI 27 Lincolnshire Museums
 SCBI 29 Merseyside County Museums
 SCBI 30 American Collections
 SCBI 36 State Museum Berlin

- SCBI 37 Polish Museums
- SCBI 42 South-Eastern Museums
- SCBI 48 Northern Museums
- SCBI 50 Hermitage Museum St. Petersburg

Die-identity is indicated by a square bracket, thus: $\left[\begin{array}{l} \text{obverse die-link} \\ \text{reverse die-link} \end{array} \right.$

Where three or more coins are bracketed, they are all from the same die.

PRIMARY VARIETIES

Plumed bird Varieties (*BMC* Type 6)

Reverse Variety J

0001	0.95 g	]	England? T&S 192 'silver' (EPMA) 96%
0002	0.91 g		DE MEERN (U) hoard 5
0003	1.29 g	[	ASTON ROWANT (O) hoard British Museum 303
0004	1.25 g		England? SCBI 2-36 (Hunterian Museum) = Ruding (1840) pl II-18
0005	1.1 g		BOLSWARD (Fr) Van der Chijs (1866) IV-22
0006	1.14 g		Unknown Auction Sotheby (1913) Carlyon Britton collection 160, ex Lockett collection
0007	0.98 g		ASTON ROWANT (O) hoard Auction Glendining (Feb. 1988) 287
0008	1.22 g	]	England? P. Finn list 17-59a
0009	1.33 g		England? T&S193 = Ex Lockett collection 'silver' (EPMA) 96% p 17
0010	1.20 g		HALLUM (Fr) hoard De Haan (1866) 10 p 131
0011	1.28 g		SOUTHAMPTON (Ha) Metcalf (1988a) 4 = EMC 1988.9004 'silver' (EPMA) 89% p 19
0012	1.24 g		SOUTHAMPTON (Ha) Metcalf (1988a) 5 = EMC 1988.9005 p 19
0013	1.22 g	ST. NEOTS (Hu) MEC 655 = Rigold & Metcalf (1977) pl I-12 = EMC 1986.8655	
0014	1.07 g	[	England? P. Finn list 14-58
0015	1.21 g		WOODHAM WALTER (Ess) hoard British Museum 304
0016	1.25 g	]	England? P. Finn list 6-36 = list 11-23 = list 18-38
0017	1.23 g		SLEDMERE (ERY) p.s. Bonser 1286
0018	1.27 g		KLOSTER BARTHE (Germany) hoard 1 ELM 737
0019	1.32 g		KLOSTER BARTHE (Germany) hoard 2 ELM 738
0020	1.30 g		France? BNF 0013
0021	1.12 g		QUIDENHAM (Nf) CR (2007) 98 = EMC 2006.0309
0022	1.17 g		England? Vecchi (June 1998) Subjack collection 109
0023	1.2 g		England? Vosper (Feb 2006)
0024	1.25 g	NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 60 = BNF MF0057	
0025	1.14 g	]	THOMPSON (Nf) EMC 1999.0111
0026	n.r.		Netherlands? Auction De Geus 12 (Oct. 2001) 183
0027	1.09 g		BLEDLOW (Bk) DMM VII
0028	0.58 g		Unknown Cabinet des médailles Brussels. Hill (c. 1974) BBR 14
0029	1.07 g		England? De Wit collection 278 = Spink (1992)
0030	1.15 g		FINGRINGHOE (Ess) (not from the hoard) communicated by G. Williams
0031	n.r.		England? SCBI 42-475 (South-Eastern Museums)
0032	n.r.	]	ASTON ROWANT (O) hoard Auction Glendining (1975) 237
0033	1.27 g		ASTON ROWANT (O) hoard Auction Glendining (Feb. 1988) 288
0034	1.16 g	]	BARHAM (Sf) p.s. British Museum 305
0035	1.24 g		England? De Wit collection 277 = Spink (1995) 5502
0036	0.94 g	EWELME (O) DMM	
0037	1.20 g	]	WINCHESTER (Ha) SCBI 21-941 (Yorkshire collections)
0038	1.16 g		England? SCBI 1-247 (Fitzwilliam Museum) = MEC 654
0039	1.11 g		Netherlands? Geldmuseum BM-17268
0040	1.05 g		WICKHAMBREUX (K) CR (1992) 220 = EMC 1992.0220
0041	1.25 g		England? Trenery (Dec 1994), Beowulf collection 32
0042	n.r.	England EMC 2001.0670	
0043	0.97 g	England? T&S 190 = EMC 1993.9190 'silver' (EPMA) 93% p 19	

0044	1.26 g	]	FÖHR (Germany) hoard 35 'silver' (EDXRF) 93%
0045	1.22 g		Unknown SCBI 36-26 (Berlin Museum)
0046	0.80 g		England? De Wit collection 279, Spink (1983) 3869 = SCBI 20 336 (Mack collection)
0047	1.15 g	[	STRADSETT (Nf) EMC 2007.0150
0048	1.19 g		England? Keary (1887) 72 = Metcalf (1966) 23 = British Museum 306
0049	n.r.		ASCHAFFENBURG (Germany) electrotype in British Museum ²⁹⁸
0050	1.06 g		Netherlands? De Wit collection 281 = Auction Coin Investment 50 (1995) 3080 p 162
0051	n.r.		WENIGUMSTADT (Germany) Stauch (2004) ²⁹⁸
0052	n.r.	WINCHESTER (Ha) (near) (1998) DMM	
0053	1.15 g	[	BAWSEY (Nf) p.s. T&S 191 = EMC 1993.9191
0054	1.1 g		Norfolk EMC 1999.0016
0055	1.1 g	[	HOATH (K) CR (1996) 92 = EMC 1996.0092
0056	1.19 g		MAURIK (U) Op den Velde (1982) 14 = NUMIS 1019369
0057	1.32 g	[	England? De Wit collection 280 = Spink (1995) 6159
0058	1.17 g		RECVLVER (K) SCBI 1-246 = MEC 653 = Battely (1745) pl VI = EMC 1986.8653
0059	1.09 g	[	SOUTHAMPTON (Ha) Metcalf (1988a) 6 = EMC 1988.9006
0060	1.24 g		ROYSTON (Hrt) p.s. EMC 1986.0012 p 19
0061	1.11 g		QUIDENHAM (Nf) CR (1996) 93 = EMC 1996.0093
0062	1.11 g		SCUNTHORPE (L) EMC 1991.5017

Plumed bird reverse Variety K

0063	0.70 g	[	DOMBURG (Z) 297
0064	1.08 g		NORTH FERRIBY (ERY) SEC p 208 = SCBI 48-151 (Northern Mus.) = EMC 1997.8151
0065	1.18 g	[	SPALDING (L) p.s. DMM CXXIV p 17
0066	1.14 g		England? P. Finn list 13-44 = memorial list 27
0067	1.30 g		KLOSTER BARTHE (Germany) hoard 3 SCBI 48-152 (Northern Museums)
0068	1.10 g		England? Abramson collection E300
0069	1.21 g	[	BRADENHAM (Nf) CR (1995) 86 = EMC 1995.0086
0070	1.09 g		SLEAFORD (L) (area) DMM
0071	1.06 g	[	PIDDLETRENTSHIDE (Do) EMC 2001.0013 = EMC 2004.0094 plated copper
0072	1.05 g		WOODHAM WALTER (Ess) hoard British Museum 307
0073	0.56 g		DOMBURG (Z) 296
0074	n.r.		England? List Gillis (Oct. 2006)
0073	0.82 g		WIJNALDUM (Fr) NUMIS 1034011
0076	1.11 g	[	SHALFLEET (Wt) p.s. CR (2007) 99 = EMC 2006.0206
0077	1.15 g		EASTRY (K) EMC 1995.0087 = EMC 1997.0065 = CR (1995) 87 = CR (1997) 65
0078	n.r.	[	Kent www.findsdatabase.org.uk (677)
0079	1.15 g		CROSBY (L) SCBI 48-152a (Northern Museums) = EMC 1997.81521 'silver'(XRF) 97%
0080	1.18 g	[	WOODHAM WALTER (Ess) hoard British Museum 308
0081	1.09 g		SIX HILLS (Lei) Blackburn & Bonser (1985) pl 3-61 = EMC 1985.0061 p 18
0082	1.23 g		England? British Museum 309 = Keary (1887) 73 = Metcalf (1966) 16
0083	1.07 g		LITTLE GLEMHAM (Sf) CR (1995) 88 = EMC 1995.0199

²⁹⁸ The reports from the finds near Aschaffenburg and Wenigumstadt possibly indicate the same find.

0084	1.14 g	[]	LONDON British Museum 310 = Hill (1953) p 97
0085	1.15 g		WHARRAM PERCY (ERY) DMM p 18
0086	1.1 g		THORNBURY (Gl) CR (2006) 83 = EMC 2005.0199

Plumed bird Variety J or K not checked for die-identity

0087	1.16 g	BARHAM (Sf) EMC 1984.1016
0088	0.54 g	DOMBURG (Z) 298
0089	0.79 g	DOMBURG (Z) 303
0090	1.08 g	EASTRY (K) EMC 2001.1055
0091	n.r.	ISLE OF THANET (K) White (1756) No 18; Metcalf (1988b)
0092	1.12 g	LONDON Roach Smith finds T&S p 208 ¹⁶ = EMC 1991.0205
0093	n.r.	NOHANENT hoard (France) Lafaurie (1969) 23
0094	n.r.	PAULERSPURY (Nf) CR (2007) 97 = EMC 2006.0144
0095	n.r.	TARRANT HINTON (Do) EMC 1988.0113
0096	n.r.	WYE (K) EMC 2001.1118

Plumed bird reverse Variety K, obverse variety L

0097	0.94 g	ROUEN (Seine-Maritime, France) Lafaurie & Pilet-Lemière (2003) 76.540.12 p 243
0098	1.21 g	RECVLVER (K) BM 311 = Keary (1887) 74 = Metcalf (1966) 17 = EMC 1988.6016 p 19

Plumed bird reverse Variety L

0099	1.14 g	Lincolnshire? Abramson collection E315
0100	n.r.	England? Ex Lockett collection = Metcalf (1966) 21
0101	1.10 g	[] Essex (north-west) p.s.(? near AUDLEY END) Bonser & Carter (2008) = EMC 2001.0712
0102	1.23 g	MÜNZACH-LIESTAL (Switzerland) Tauber (1998) 'silver' (??) 90-95%
0103	0.94 g	[] SLEDMERE (ERY) p.s. Bonser 1330
0104	n.r.	[] England? P. Finn list 4-20
0105	1.09 g	[] Unknown Auction Classical Numismatic Group (March 1997) 2875
0106	n.r.	BEDFORD (Bd) p.s. EMC 1990.5024
0107	1.24 g	NICE-CIMIEZ (France) hoard BNF MF0065
0108	1.09 g	SLEDMERE (ERY) p.s. Bonser 1261
0109	1.12 g	HALLUM (Fr) hoard De Haan (1866) 11 p 131
0110	1.14 g	[] England? Ex Lockett collection = Metcalf (1966) 20 = SCBI 16-55 (Norweb collection)
0111	0.97 g	[] England? De Wit collection 283 = Spink (1992) 7412
0112	0.84 g	WIJNALDUM (Fr) NUMIS 1034012
0113	0.97 g	CONGHAM (Nf) EMC 1995.0095
0114	0.90 g	England? British Museum 312 = Hill (1953) p 97
0115	0.9 g	[] SPALDING (L) CR (2006) 82 = EMC 2005.0172
0116	0.61 g	[] Unknown Auction J. Elsen 84 (2005) 746
0117	0.99 g	[] ROYSTON (Hrt) p.s. Blackburn & Bonser (1986) 14 = EMC 1986.0014
0118	0.82 g	[] Unknown Auction J. Elsen 97 (Sep. 2008) 590
0119	1.11 g	[] DORCHESTER (Do) Abramson collection E320 = CR (2005) 81 = EMC 2004.0095
0120	n.r.	[] WETHERBY (WRY) CR (2005) 80 = EMC 2004.0006
0121	0.99 g	[] Netherlands? Geldmuseum BM-17265
0122	1.00 g	[] Essex (north-west) p.s.(? near AUDLEY END) Bonser & Carter (2008) fig 13

0123	1.14 g	NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 62 = BNF MF0051 p 22
0124	1.15 g	England? British Museum 313 = Keary (1887) 75 = Metcalf (1966) 22
0125	0.99 g	England? British Museum 314 = Keary (1887) 76 = Metcalf (1966) 18
0126	n.r.	France? De Belfort (1892-95) 5854 =? Ex Lockett = Metcalf (1966) 19
0127	1.17 g	TELSCOMBE (Sx) CR (2007) 101 = EMC 2007.0102
0128	1.05 g	DOMBURG (Z) 299 = Van der Chijs (1866) IV-23 = De Belfort (1892-95) 5844
0129	0.74 g	MARSTON (O) SEC p 194 = EMC 1984.0101 p 20
0130	1.25 g	NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 61 = BNF MF0059
0131	1.15 g	Unknown J. Elsen list 236 (2006) 369
0132	0.80 g	England? Abramson collection E310
0133	1.08 g	WOODHAM WALTER (Ess) hoard British Museum 315
0134	1.15 g	WOODHAM WALTER (Ess) hoard British Museum 316
0135	1.16 g	WOODHAM WALTER (Ess) hoard British Museum 317
0136	1.02 g	England? P. Finn list 10-25 = list 18-37 p 20

Plumed bird reverse variety L not checked for die-identity

0137	n.r.	ANCASTER (L) EMC 2001.0993
0138	n.r.	France? Lelewel (1835) pl III-22
0139	n.r.	HYTHE (K) EMC 2001.1113
0140	n.r.	SHALFLEET (Wt) p.s. DMM a
0141	n.r.	SHALFLEET (Wt) p.s. DMM b
0142	n.r.	SHALFLEET (Wt) p.s. DMM c
0143	0.50 g	MELTON MOWBRAY (Lei) T&S p 210 = EMC 1984.0020
0144	0.93 g	WEST HYTHE (K) EMC 1999.0040

Plumed bird variety imitations

Variety M (E-G 'mules')

0145	n.r.	England? Ex Lockett collection
0146	1.05 g	England? P. Finn list 15-45 p 161
0147	1.04 g	NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 59 = BNF MF0041 p 21
0148	1.26 g	NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 58 = BNF MF0053 p 21

Imitations with reverse variety J/K

0149	1.01 g	SOUTHAMPTON (Ha) EMC 2008.0176
0150	0.83 g	England? De Wit collection 282 = sold by Spink (1997)

Imitations with reverse variety L

0151	1.0 g	LONGBRIDGE DEVERILL (W) CR (2002) 85 = EMC 2001.0047
0152	1.17 g	OUTWELL (Nf) CR (2007) 100 = EMC 2006.0383
0153	1.11 g	BARHAM (K) Abramson collection E330 = CR (2006) 81 = EMC 2005.0001 p 20
0154	0.90 g	DOMBURG (Z) 300 = Dirks (1870) F-21 = Metcalf (1966) 24 p 20
0155	0.99 g	ROYSTON (Hrt) p.s. Blackburn & Bonser (1986) 15 = EMC 1986.0015 p 21
0156	n.r.	France? De Belfort (1892-95) 5857 = ex Lockett collection
0157	n.r.	Dépt. Gard (France) www.numismaticom2.forumactif.net/demandes-d-id

Die-corpus

- 0158 0.87 g England? Auction Vecchi (June 1999) = SiEMC 1 p 134 = Beowulf collection 33
 0159 0.53 g DOMBURG (Z) 301
 0160 0.57 g DOMBURG (Z) 302
 0161 0.81 g] Netherlands? De Wit collection 284 = sold by Holleman (2001)

Imitations, various reverses

- 0162 n.r. BURGH LE MARSH (L) SEC p 197 = EMC 1984.0107
 0163 1.05 g [NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 57 = BNF MF0047 **p 21**
 0164 n.r. [WINCHESTER (Ha) DMM IV **p 21**
 0165 1.01 g [SOUTHAMPTON (Ha) Metcalf (1988a) 7 = EMC 1988.9007 'silver' (EPMA) 88%
 0166 1.13 g England? List Gillis (May 1999) = SiEMC 1 p 134 = Beowulf collection 35
 0167 1.12 g England? List Spink (1994) = SiEMC 1 p 134 = Beowulf collection 34

Doubtful plumed bird imitations

- 0168 1.15 g FINCHAM (Nf) CR (2007) 113 = EMC 2006.0192 **p 22**
 0169 n.r. Loir-et-Cher (France) www.icare.forumactif.net/41-loir-et-cher.f172/sceatta.a.loiseau

Plumed bird imitations not checked for die-identity

- 0170 0.84 g DOMBURG (Z) 304

VICO varieties

Variety 1

- 0171 1.25 g [England? British Museum 318 = Keary (1887) 63 =? Hawkins (1887) 42 = Metcalf (1966) 1
 0172 n.r. [EAST TILBURY (Ess) p.s. DMM
 0173 1.12 g] England? SCBI 1-242 (Fitzwilliam Museum) = MEC 651
 0174 1.04 g [SLEDMERE (ERY) p.s. Abramson collection E818 = EMC 2008.0052 = CR (2008) 118
 0175 n.r. BRIGG (L) Blackburn & Bonser (1985) 15 = EMC 1985.0015
 0176 1.24 g [England? T&S 198 'silver' (EPMA) 94%
 0177 1.10 g] BLEWBURY (Brk) DMM
 0178 1.31 g [ASTON ROWANT (O) hoard Auction Glendining (Feb. 1988) 284a
 0179 1.31 g [ASTON ROWANT (O) hoard British Museum 319
 0180 0.67 g [DOMBURG (Z) 404
 0181 1.25 g [Unknown De Wit collection 104 = Auktion Basel (1996) 2686
 0182 n.r. HUIISH (W) DMM
 0183 1.21 g EGMOND BINNEN (NH) NUMIS 1010690
 0184 1.20 g De MEERN (U) hoard 12
 0185 1.13 g KEELBY (L) CR (2007) 95 = EMC 2006-0142 **p 24**
 0186 1.23 g [England? List Vosper (July 2007) SS-TKDQ
 0187 1.13 g [England? De Wit collection 105 = P. Finn list 6-33 **p 57**
 0188 1.1 g [YORK (Fishergate), Portable Antiquities Scheme, A/Y 7/1 4376
 0189 1.29 g [England? British Museum 320 = Keary (1887) 62 = Metcalf (1966) 2
 0190 1.2 g [England? List Vosper (Aug. 2005) **p 24**
 0191 0.90 g [DOMBURG (Z) 401
 0192 n.r. SLEDMERE (ERY) p.s. Bonser 1477
 0193 n.r. EASTON (Ha) DMM

Die-corpus

0194	1.18 g	]	England? SCBI 2-22 (Hunterian Museum) = Ruding (1840) pl I-6
0195	1.29 g		England? P. Finn list 14-57 p 23	
0196	1.30 g	[	KLOSTER BARTHE hoard 7 ELM 44
0197	1.23 g		ASTON ROWANT (O) hoard British Museum 321	
0198	1.09 g		BIELBY (ERY) CR (1998) 66 = EMC 1998.2066	
0199	1.23 g		Kent EMC 2006.0046	
0200	n.r.		WESTLEY (Sf) CR (2005) 78 = EMC 2004.0168	
0201	0.91 g	[	DOMBURG (Z) 403 V d Chijs (1866) III-17 = De Belfort (1892-95) 5816 = 5820 = Metcalf (1966) 5
0202	0.74 g		DOMBURG (Z) 402	
0203	1.22 g	[	KILHAM (ERY) CR (1997) 62 = EMC 1977.0062
0204	1.10 g		DOWSBY (L) CR (2002) 87 = EMC 2001.004	
0205	1.25 g		England? Keary (1887) 64 = Metcalf (1966) 6. No longer present in the BM collection	
0206	1.1 g	[	England? List Vosper (July 2007) SS-TJPQ
0207	1.10 g		BAWSEY (Nf) p.s. T&S 197 = EMC 1993.9197 p 23	
0208	0.78 g	[	DOMBURG (Z) 399
0209	1.00 g		KLOSTER BARTHE hoard 6 ELM 572	
0210	1.36 g		KLOSTER BARTHE hoard 4 ELM 641	
0211	1.14 g		COMPTON (Brk) DMM	
0212	0.88 g		ASTON ROWANT (O) hoard British Museum 322	
0213	1.13 g		SPALDING (L) p.s. EMC 2001.0901	
0214	n.r.		YAPHAM (ERY) EMC 2008.0225	
0215	1.30 g		KLOSTER BARTHE hoard 5 ELM 612	
0216	n.r.		ASTON ROWANT (O) hoard Auction Glendining (Feb. 1988) 285a = T&S p 213	
0217	1.24 g		ROYSTON (Hrt) p.s. Blackburn & Bonser (1986) 9 = EMC 1986.0009	
0218	0.98 g		CHELMONDISTON (Sf) EMC 2005.0154	
0219	n.r.	[	ASTON ROWANT (O) hoard Auction Sotheby (1985) Ex 503
0220	1.22 g		ASTON ROWANT (O) hoard British Museum 323	
0221	1.33 g		ASTON ROWANT (O) hoard British Museum 324	
0222	1.22 g	[	England? P. Finn list 17-58
0223	1.12 g		REMMERDEN (Gld) hoard V076 p 127	
0224	1.22 g		BURNHAM MARKET (Nf) CR (1993) 160 = EMC 1993.0160	
0225	1.24 g		ASTON ROWANT (O) hoard British Museum 325	
0226	1.25 g		ASTON ROWANT (O) hoard British Museum 326	
0227	1.35 g		CANTERBURY (K) DMM	
0228	1.19 g		RECVLVER (K) SCBI 1-238 (Fitzwilliam Museum) = MEC 650 =? Battely (1745) pl VI	
0229	1.21 g		CAISTOR ST. EDMUND (Nf) EMC 2008.0197	
0230	1.33 g		[Unknown Metcalf (1969) Franceschi parcel 13 = Auction J. Elsen 83 (2005) 1039
0231	n.r.			SPALDING (L) p.s. DMM CXXXI
0232	0.91 g	[	Unknown SCBI 50-3 (Hermitage Museum)
0233	n.r.		HALSTEAD (Ess) CR (1996) 85 = EMC 1996.0085	
0234	1.35 g	[	ASTON ROWANT (O) hoard Auction Glendining (Feb. 1988) 286a
0235	1.29 g		LAMBETH (Sr) hoard DMM	
0236	0.92 g	[	DOMBURG (Z) 405
0237	1.39 g		BLEDLOW (Bk) DMM	
0238	n.r.	[	ASTON ROWANT (O) hoard Auction Glendining (March 1975) 241
0239	n.r.		England? P. Finn list 5-21	
0240	1.25 g	[	GREAT BIRCHAM (Nf) Blackburn & Bonser (1986) 94

0241	1.46 g	]	FÖHR (Germany) hoard 76 'silver' (EDXRF) 63%
0242	0.75 g		DOMBURG (Z) 406
0243	1.23 g	]	FRANEKER (F) hoard Fries Museum Leeuwarden 369
0244	1.21 g		SCULTHORPE (Nf) CR (1996) 89 = EMC 1996.0089
0245	1.21 g	]	WROOT (L) EMC 1987.0064
0246	1.25 g		BARHAM (Sf) p.s. British Museum 327
0247	1.21 g		BRADENHAM (Nf) EMC 2003.0084
0248	1.19 g		England? Spink NC (Apr. 1992) 1759
0249	1.13 g		CAISTOR ST. EDMUND (Nf) EMC 1999.0105
0250	1.20 g		England Abramson collection E815
0251	1.15 g	]	BRADENHAM (Nf) CR (1995) 82 = EMC 1995.0082
0252	n.r.		Friesland Communicated by K. Faber
0253	1.25 g	]	SPALDING (L) p.s. DMM CX = EMC 2000.0526
0254	1.24 g		LASHLEY WOOD (Ess) CR (2006) 79 = EMC 2005.0097

VICO Variety 2

0255	1.19 g	]	ASTON ROWANT (O) hoard British Museum 328
0256	1.23 g		Oxfordshire EMC 2006.0049
0257	1.24 g	]	GRIMSTON (Nf) Abramson collection E817 = CR (2007) 96 = EMC 2007.0011
0258	1.20 g		England? British Museum 329 = Hill (1953) p 96
0259	1.19 g		England? British Museum 330 = Keary (1887) 66 = Metcalf (1966) 3
0260	1.16 g	]	Unknown De Wit collection 106 = Auction Basel (1993) 762
0261	n.r.		DE HOUW (Gr) Archive Groninger Museum
0262	0.94 g	]	DOMBURG (Z) 408
0263	1.09 g		DOMBURG (Z) 409
0264	1.38 g	]	KINGS LYNN (Nf) hoard T&S p 216 p 27
0265	n.r.		COLDRED (K) DMM
0266	n.r.	]	GODSTONE (Sr) EMC 2001.0872
0267	1.33 g		ASTON ROWANT (O) hoard T&S p 213 = Vecchi (June 1998) Subjack collection 113 p 25
0268	n.r.	]	RIBY (L) DMM p 25
0269	1.28 g		England? British Museum 331 = Keary (1887) 61 = Metcalf (1966) 4
0270	1.24 g	]	England? T&S 195 = EMC 1993.9195 'silver' (EPMA) 95% p 24
0271	1.26 g		ASTON ROWANT (O) hoard British Museum 322
0272	1.28 g		Unknown De Wit collection 107 = Auction Basel (1990) 588
0273	1.23 g	]	England? British Museum 333 = Keary (1887) 65 = Metcalf (1966) 8
0274	1.09 g		ROYSTON (Hrt) p.s.10 T&S p 214 = EMC 1986.0010 p 27
0275	1.26 g	]	England? British Museum 334
0276	1.3 g		ROYSTON (Hrt) EMC 1989.5172
0277	n.r.	]	TUDDENHAM ST. MARY (Sf) CR (1997) 70 = EMC 1996.0005
0278	n.r.		THE RODINGS (Ess) hoard DMM
0279	1.11 g	]	LITTLEBOURNE (K) CR (2006) 80 = EMC 2006.0033
0280	1.27 g		ASTON ROWANT (O) hoard Auction Glendining (Feb. 1988) 286b = T&S p 213
0281	0.71 g		GRIMSBY (L) CR (1997) 69 = EMC 1997.0069
0282	1.15 g	]	BARHAM (K) Metcalf (1966) 7 = T&S 194 = EMC 1993.9194 'silver' (EPMA) 95% p 25
0283	1.23 g		HITCHIN (Hrt) CR (1993) 156 = EMC 1993.0156
0284	1.12 g		England? SCBI 2-23 (Hunterian Museum) = Ruding (1840) pl I-5
0285	0.62 g		DOMBURG (Z) 410
0286	n.r.		SPALDING (L) p.s. DMM LXXXVI p 24

0287	1.24 g	[]	England? British Museum 335 = Hill (1953) 96
0288	n.r.		NOHANENT (France) hoard Lafaurie (1969) 22
0289	1.15 g		ASTON ROWANT (O) hoard British Museum 336

VICO Variety 3 (obverse with nose)

0290	1.20 g	[]	KINGS LYNN (Nf) hoard T&S p 216 'silver' (EPMA) 95% p 27
0291	1.29 g		ASTON ROWANT (O) hoard British Museum 337
0292	1.10 g	[]	UPPER POPPLETON (NRY) Abramson collection E820
0293	1.21 g		REMMERDEN (Gld) hoard V146 p 127
0294	1.28 g	[]	ASTON ROWANT (O) hoard T&S p 214
0295	1.33 g		England? T&S 196 'silver' (EPMA) 96% p 25
0296	n.r.	[]	THE RODINGS (Ess) hoard DMM
0297	0.45 g		DOMBURG (Z) 412
0298	0.85 g	[]	DOMBURG (Z) 411
0299	1.10 g		MEOLS (Ch) SCBI 29-30 (Merseyside County Museums)
0300	1.14 g	[]	GOOD EASTER (Ess) CR (2002) 88 = EMC 2002.0234
0301	1.28 g		B AIS (France) hoard Lafaurie (1981a) 309c = BNF 309c p 25
0302	1.27 g		WOODHAM WALTER (Ess) hoard British Museum 338

VICO Varieties not checked for die-identity

0303	n.r.		ANCASTER (L) EMC 2001.0993
0304	n.r.		DEBENHAM (Sf) EMC 2003.0016
0305	0.85 g		DOMBURG (Z) 398
0306	0.78 g		DOMBURG (Z) 400
0307	0.72 g		DOMBURG (Z) 407
0308	n.r.		EAST TILBURY (Ess) p.s. DMM
0309	n.r.		England? Lindsay (c. 1861) pl 2-1
0310	n.r.		England? Lindsay (c. 1861) pl 2-2
0311	n.r.		Friesland Communicated by K. Faber
0312	n.r.		FURFOOZ (Belgium) Vanhoudt (1988)
0313	n.r.		ISLE OF THANET (K) White (1756) No 12; Metcalf (1988b)
0314	1.25 g		LANCING (Sx) Rigold & Metcalf (1984) = EMC 1977.0041
0315	n.r.		SAINT-PIERRE-LES-ÉTIEUX (France) hoard De Belfort (1892-95) 5836 = Lafaurie (1969) 98 p 28
0316	1.14 g		TRIMLEY ST. MARTIN (Sf) EMC 20101.1212

VICO variety imitations

0317	1.19 g		DOMBURG (Z) 397
0318	1.22 g		ASTON ROWANT (O) hoard British Museum 339
0319	1.11 g		CARISBROOKE (Wt) p.s. DMM XXXIII
0320	0.91 g		ALDEBY (Nf) EMC 2007.0060 = EMC 2007.0076
0321	n.r.	[]	SPALDING (L) p.s. DMM CLIII
0322	1.28 g		KLOSTER BARTHE (Germany) hoard 9 ELM 203
0323	1.18 g		FÖHR (Germany) hoard 77 'silver' (EDXRF) 63%
0324	1.33 g		KLOSTER BARTHE (Germany) hoard 8 ELM 367
0325	1.02 g		SUTTON COURTENAY (O) CR (1991) 103 = EMC 1991.0103
0326	1.07 g		LINTON (C) EMC 2008.0238
0327	1.05 g		LINTON (C) EMC 2007.0183 p 26
0328	n.r.		STOWE (Nth) EMC 2007.0296
0329	1.26 g		ASTON ROWANT (O) hoard British Museum 340
0330	1.19 g		LONDON British Museum 341 = Hill (1953) 96

0331	1.30 g	England? British Museum 342 = Keary (1887) 60
0332	1.3 g	England? List Vosper (Feb. 2006) p 26
0333	1.31 g	ASTON ROWANT (O) hoard T&S 199 = EMC 1993.9119 'silver' (EPMA) 72% p 62
0334	1.37 g	KLOSTER BARTHE (Germany) hoard 10 ELM 643
0335	1.19 g	KLOSTER BARTHE (Germany) hoard 11 ELM 518

Variety G

Variety G1

0336	n.r.	[]	YAPHAM (ERY) EMC 2008.0224
0337	n.r.		MAIDSTONE (K) EMC 2008.0230 p 29
0338	n.r.	[]	BEDFORD (Bd) p.s. EMC 1990.5019
0339	1.2 g		England? List Gillis (July 2007) WS 5083
0340	1.24 g	[]	SCOTTERTHORPE (L) CR (2002) 90 = EMC 2001.0041
0341	n.r.		England? Seaby CMB (1982) pl 155 E 753
0342	1.17 g	[]	WIGHILL (NRY) CR (1996) 83 = EMC 1996.0083
0343	1.20 g		PARHAM (Sf) CR (2005) 83 = EMC 2004.0126
0344	1.22 g	[]	England? Auction Vecchi (June 1998) Subjack collection 111
0345	1.02 g		SANDY (Bd) SEC p 232 = Blackburn & Bonser (1987) p 100
0346	1.26 g	[]	De MEERN (U) hoard 9
0347	n.r.		KLOSTER BARTHE (Germany) hoard 13 Anton Ulrich Museum Braunschweig
0348	n.r.		THE RODINGS (Ess) hoard DMM
0349	n.r.		Netherlands? Auction Coin Investment 51 286
0350	1.16 g	[]	EFFINGHAM (Sr) CR (2007) 103 = EMC 2006-0134
0351	1.23 g		DOMBURG (Z) 523
0352	1.26 g	[]	ASTON ROWANT (O) hoard British Museum 343
0353	1.14 g		ROYSTON (Hrt) p.s. EMC 1997.0004 p 29
0354	1.30 g	[]	ASTON ROWANT (O) hoard British Museum 344 = Blackburn & Bonser (1987) 2
0355	n.r.		CARISBROOKE (Wt) p.s. DMM XIX
0356	1.20 g	[]	KELLING (Nf) CR (1997) 56 = EMC 1997.0056
0357	1.25 g		NICE-CIMIEZ (France) hoard Blackburn & Bonser (1987) p 99 = BNF MF0055
0358	1.23 g	[]	KLOSTER BARTHE (Germany) hoard 12 ELM 625
0359	1.18 g		Netherlands? De Wit collection 130 = sold by Holleman (1991)
0360	1.0 g	[]	England? List Vosper (Aug. 2005)
0361	1.26 g		England? P. Finn list 12-26
0362	1.18 g	[]	England? De Wit collection 131 = Blackburn & Bonser (1987) p 217 = P. Finn list 10-26 p 53
0363	n.r.		COLDRED (K) EMC 2001.0906
0364	1.16 g	[]	LONDON (South Bank) CR (1994) 144 = EMC 1994.0144
0365	1.02 g		DOMBURG (Z) 525
0366	1.23 g	[]	England? List Davissons (Feb. 1996) = Beowulf collection 36
0367	1.19 g		SLEDMERE (ERY) p.s. Abramson collection E230 = CR (2007) 104 = EMC 2006.0259
0368	n.r.		France? www.ventesuroffres.free.fr (2007)
0369	1.27 g	[]	RECVLVER (K) MEC 646 = Blackburn & Bonser (1987) 5 = EMC 1986.8646
0370	1.20 g		England? Abramson collection E215
0371	n.r.	[]	England? Spink NC (1970) 11174 Elmore Jones collection

Die-corpus

0372	0.98 g	[	KLOSTER BARTHE (Germany) hoard 14 SCBI 4-34 (Copenhagen Museum)
0373	1.27 g		Unknown SCBI 50-9 (Hermitage Mueum)
0374	1.20 g		England? Abramson collection E217
0375	1.01 g	[	England? Auction Sotheby (1913) Carlyon Britton collection 159b
0376	1.25 g	]	England? SCBI 16-51 (Norweb collection) = Blackburn & Bonser (1987) 4
0377	1.22 g	[	BARHAM (Sf) p.s. British Museum 345 = Blackburn & Bonser (1987) 7
0378	1.08 g		DOMBURG (Z) 524
0379	n.r.	[	England? In private collection. Blackburn & Bonser (1987) 3
0380	1.11 g	]	WOODHAM WALTER (Ess) hoard British Museum 346
0381	0.68 g		BARRINGTON (C) Metcalf (1966) 39 = MEC 648 = Blackburn & Bonser (1987) 9 = EMC 1986.8646
0382	1.13 g		England? SCBI 20-333 (collection Mack) = ex Hill
0383	1.22 g		SPALDING (L) p.s. DMM C
0384	0.96 g		SUDBOURNE (Sf) CR (2006) 85 = EMC 2005.0234

Variety G1 not checked for die-identity

0385	1.27 g		ADBOLTON (Nt) EMC 1996.5001
0386	0.60 g		DOMBURG (Z) 526
0387	n.r.		RECVLVER (K) Battely (1745) pl VI
0388	n.r.		England? Spink NC (1970) 11175 Elmore Jones collection
0389	n.r.		YORK (Fishergate) Portable Antiquities Scheme A/Y 7/1 7165
0390	n.r.		MAINZ (Germany) Stoess (1994) 22
0391	0.97 g		MASCHEN (Germany) Hatz (1958-1960)
0392	1.13 g		WOODNESBOROUGH (K) CR (1998) 69 = EMC 1998.2069
0393	0.73 g		WORLESTON (Ch) CR (2005) 84 = EMC 2004.0034

Variety G2

0394	n.r	[	ELSTED (Sx) CR (1998) 71 = EMC 1998.01310
0395	0.75 g	]	Netherlands? Geldmuseum BM-17068
0396	0.75 g	[	DOMBURG (Z) 531
0397	1.11 g	]	BARHAM (Sf) British Museum 347 = Blackburn & Bonser (1987) 7 = EMC 1987.0301
0398	n.r.	[	Netherlands? Holleman, advertisement in De Beeldenaar (July/Aug 1992)
0399	1.20 g	]	BIDFORD-ON-AVON (Wa) p.s. DMM XII
0400	1.20 g	[	BLEDLOW (Bk) SEC p 202 = Blackburn & Bonser (1987) p 100 = EMC 1984.0114
0401	1.06 g	]	COBHAM (K) CR (1987) 58 = EMC 1987.0058
0402	1.08 g	[	DOMBURG (Z) 528
0403	1.22 g		SPALDING (L) p.s. EMC 2000.0513 p 29
0404	n.r.		NARFORD (Nf) CR (1997) 59 = EMC 1997.0059
0405	1.21 g	]	SAINT-PIERRE-LES-ÉTIEUX (France) hoard Lafaurie (1969) 95
0406	1.28 g	[	BAIS (France) hoard? Lafaurie (1981a) 309a = Blackburn & Bonser (1987) 10 = BNF 0309a
0407	1.03 g	]	EFFINGHAM (Sr) CR (2007) 102 = EMC 2006.0096
0408	1.23 g	[	ASTON ROWANT (O) hoard Auction Glendining (Feb. 1988) 282a
0409	1.10 g	]	England? P. Finn memorial list 28
0410	1.14 g	[	WICKEN (C) CR (2002) 91 = EMC 2001.0001
0411	1.21 g	]	AKENHAM (Sf) CR (2000) 48 = CR (2002) 92 = EMC 2001.0007
0412	n.r.		England? List Gillis (2004) WS 878

Die-corpus

0413	0.66 g	[	MAINZ (Germany) Stoess (1994) 8
0414	1.22 g		England? British Museum 348 = Keary (1887) 54 = Metcalf (1966) 14 = Blackburn & Bonser (1987) 6
0415	1.07 g	]	DOMBURG (Z) 529
0416	1.14 g		England? British Museum 349 = Keary (1887) 58 = Metcalf (1966) 15 = Blackburn & Bonser (1987) 11
0417	1.2 g	[	MONKTON (K) CR (1998) 71 = EMC 1998.0071
0418	1.08 g		BRADENHAM (Nf) CR (1995) 83 = EMC 1995.0083
0419	1.30 g	]	ASTON ROWANT (O) hoard Auction Glendining (Feb. 1988) 283a
0420	1.2 g		England? List Gillis (July 2007) WS 5082
0421	1.19 g		BEDFORD (Bd) p.s. Auction Classical Numismatic Group (March 1997) 2876 = EMC 1990.5021
0422	n.r.	[	HOUTEN (U) NUMIS 1015474
0423	0.37 g		DOMBURG (Z) 533
0424	n.r.	]	ASTON ROWANT (O) hoard Auction Sotheby (1985) Ex 504a = Blackburn & Bonser (1987) 14
0425	0.82 g		DOMBURG (Z) 530
0426	n.r.		SPALDING (L) p.s. The Searcher (March 2004) = DMM CLV
0427	1.15 g	[	FARNBOROUGH (K) Abramson collection E214 = EMC 2008.0050
0428	1.25 g		CAMBRIDGE (C) T&S 201 = Blackburn & Bonser (1987) 13 = EMC 1993.9201 'silver' (EPMA) 96%
0429	n.r.		ASTON ROWANT (O) hoard Auction Glendining (March 1975) 239
0430	1.12 g		England? SCBI 1-243 (Fitzwilliam Museum) = MEC 647
0431	n.r.		BEDFORD (Bd) p.s. EMC 1990.5020
0432	1.18 g		WENHASTON (Sf) EMC 1999.0195
0433	1.07 g		England? P. Finn list 12-45
0434	0.96 g		SUDBOURNE (Sf) CR (2006) 85 = EMC 2005.0234
0435	1.18 g	]	NORWICH (area) (Nf) T&S 202 = EMC 1993.9202 'silver' (EPMA) 95% p 29
0436	1.17 g		England? British Museum 350 = Hill (1953) p 95 = Blackburn & Bonser (1987) 12
0437	1.10 g	[	DOMBURG (Z) 527
0438	n.r.		England? Ex Lockett collection
0439	1.27 g	]	ASTON ROWANT (O) hoard British Museum 351 = Blackburn & Bonser (1987) 19
0440	n.r.		DOMBURG (Z) 522

Variety G2 not checked for die-identity

0441	0.72 g	BIDFORD-ON-AVON (Wa) p.s. DMM I = CR (1987) 62 = EMC 1987.0062
0442	n.r.	BRIDGNORTH (Sa) DMM
0443	1.2 g	CLIFFSEND (K) CR (1996) 91 = EMC 1996.0091
0444	n.r.	CODDENHAM (Sf) p.s. DMM 6
0445	0.43 g	DOMBURG (Z) 544
0446	0.97 g	England? Spink (Oct 2006)
0447	1.24 g	KATWIJK a/d RIJN (ZH) 52 NUMIS 1016275
0448	1.13 g	MAINZ (Germany) Stoess (1994) 7
0449	n.r.	Netherlands In private collection www.bonatiele.nl
0450	n.r.	NOHANENT (France) hoard Lafaurie (1969) 20
0451	1.02 g	SLAPPETERP (Fr) NUMIS 1027795

Variety G3

0452	1.23 g	ASTON ROWANT (O) hoard Auction Glendining (Feb. 1988) 283c
0453	1.27 g	Friesland Geldmuseum RE-22471
0454	n.r.	] CODDENHAM (Sf) p.s. DMM 4
0455	n.r.	
0456	1.21 g	[REMMERDEN (Gld) hoard V062 p 127
0457	1.25 g	
0458	1.24 g	LUTJE SAAKSUM (Gr) hoard Hill (1955) 16
0459	n.r.	[FAKENHAM (Nf) CR (1996) 84 = EMC 1996.0084
0460	n.r.	
0461	n.r.	[CHÂTEAU-PORCIEN (Ardennes, France) Lafaurie & Pilet-Lemière (2003) 8-10-7-1
0462	1.14 g	
0463	1.13 g	ASTON ROWANT (O) hoard Auction Glendining (March 1975) 240
0464	1.23 g	England SCBI 16-52 (Norweb collection)
0465	1.20 g	[BESFORD (Wo) DMM
0466	0.9 g	
0467	1.27 g	BAIS (France) hoard Lafaurie (1969) 309 = Blackburn & Bonser (1987) 16 = BNF 0309x
0468	n.r.	England? MEC 649
0469	n.r.	CAISTOR ST. EDMUND (Nf) CR (1986) 360 = EMC 1986.5030
0470	1.14 g	[ASTON ROWANT (O) hoard British Museum 352 = Blackburn & Bonser (1987) 18
0471	n.r.	
0472	1.22 g	THE RODINGS (Ess) hoard DMM
0473	n.r.	ASTON ROWANT (O) hoard Auction Glendining (1975) 238
0474	1.16 g	GREAT MONGEHAM (K) CR (1993) 165 = EMC 1993.0165
0475	1.2 g	[CODDENHAM (Sf) p.s. DMM 8
0476	n.r.	
0477	1.13 g	England? P. Finn list 11-24
0478	1.27 g	SAINT-PIERRE-LES-ÉTIEUX (France) hoard Lafaurie (1969) 96
0479	1.04 g	[DOMBURG (Z) 534
0480	0.48 g	
0481	1.07 g	CODDENHAM (Sf) p.s. CR (1999) 61 = EMC 1999.0093
0482	0.86 g	England EMC 1990.5022
0483	1.24 g	GOOD EASTER (Ess) CR (2002) 93 = EMC 1999.0185
0484	n.r.	[ASTON ROWANT (O) hoard British Museum 353 = Blackburn & Bonser (1987) 20
0485	n.r.	
0486	1.19 g	DOMBURG (Z) 538 = Dirks (1870) E.r
0487	1.26 g	SOUTHAMPTON (Ha) Metcalf (1988a) 8 = EMC 1988.9008
0488	1.22 g	[DOMBURG (Z) 535
0489	1.17 g	
0490	1.26 g	DOMBURG (Z) 536 p 29
0491	1.13 g	England? T&S 204 = Blackburn & Bonser (1987) 22 = EMC 1993.9204 'silver' (EPMA) 95%
0492	n.r.	ASTON ROWANT (O) hoard Auction Glendining (1975) 239
0493	n.r.	CODDENHAM (Sf) p.s. DMM 5
0494	1.19 g	AKENHAM (Sf) CR (1996) 90 = EMC 1996.0090
0495	1.19 g	[ASTON ROWANT (O) hoard British Museum 354
0496	1.17 g	
0497	0.52 g	ASTON ROWANT (O) hoard British Museum 355
		PULBOROUGH (Sx) CR (1987) 63 = EMC 1987.0063
		Netherlands? Geldmuseum RE-22472
		BARHAM (Sf) p.s. British Museum 356
		CODDENHAM (Sf) p.s. DMM 3
		Unknown De Belfort (1892-95) 5804
		GREAT WILBRAHAM (C) CR (2002) 94 = EMC 2001.0055
		HYTHE (K) SCBI 17-64 (Midlands Museums) = EMC 1017.0064
		WHITBY (NRY) Rigold & Metcalf (1977) PI I-13 = EMC 1977.0093
		DOMBURG (Z) 539

Die-corpus

0498	0.99 g	FOULSHAM (Nf) CR (2007) 106 = EMC 2006.0389
0499	1.2 g	England? List Gillis (July 2007) WS 5080 p 31
0500	1.24 g	SAINT-PIERRE-LES-ÉTIEUX (France) hoard Lafaurie (1969) 97 = Blackburn & Bonser (1987) 17
0501	0.82 g	BAIS (France) hoard? Lafaurie (1981a) 309b = BNF 309b
0502	1.21 g	BARHAM (Sf) British Museum 357 = Blackburn & Bonser (1987) 21 = EMC 1987.0309
0503	n.r.	England? In private collection = Blackburn & Bonser (1987) 24
0504	n.r.	
0505	1.26 g	ASTON ROWANT (O) hoard Auction Glendining (Feb. 1988) 282c
0506	1.19 g	BAWSEY (Nf) p.s. CR (2007) 105 = EMC 2006.0297
0507	n.r.	England? In private collection = Blackburn & Bonser (1987) 23
0508	1.19 g	
0509	1.16 g	Essex (mid) CR (1993) 186 = EMC 1993.0186
0510	n.r.	COLCHESTER (Ess) (near) Blackburn & Bonser (1986) 87 = EMC 1986.0087
0511	1.07 g	TEEFELEN (NB) NUMIS 1028998
0512	0.9 g	England? List Gillis (Oct. 2006) = List (July 2007) WS 5086 p 29
0513	1.08 g	
0514	1.21 g	England? T&S 203 = EMC 1993.9203 'silver' XRF 94%
0515	1.10 g	KINWARTON (Wa) CR (1991) 102 = EMC 1991.0102
0516	1.14 g	Hampshire EMC 2006.0065
0517	1.17 g	RICCALL (NRY) EMC 1996.0099
0518	1.21 g	Unknown De Wit collection 128 = M&M Basel (1993)

Variety G3 not checked for die-identity

0519	1.27 g	ASTON ROWANT (O) hoard Auction Glendining (Feb. 1988) 282b
0520	n.r.	KINGS LYNN (Nf) hoard DMM
0521	n.r.	HOD HILL (Do) EMC 1984.0103
0522	0.69 g	NORTH FERRIBY (ERY) SCBI 48-153 (Northern Museums) = EMC 1997.8153
0523	1.01 g	KELLING (Nf) CR (1997) 57 = EMC 1997.0057
0524	1.06 g	RECVLVER (K) Rigold & Metcalf (1977) pl 1-14

Variety G4

0525	1.12 g	England? De Wit collection 134 = Spink (1988) 7061 = B & B (1987) 26
0526	n.r.	
0527	1.13 g	NORTHALLERTON (NRY) CR (2006) 86 = EMC 2005.0002
0528	1.13 g	GREAT CORNARD (Sf) EMC 2007.0303
0529	1.19 g	IPSWICH (Sf) CR (1998) 72 = EMC 1998.0015
0529	1.22 g	England? P. Finn list 10-27
0530	1.25 g	MINSTER-IN-THANET (K) CR (1994) 143 = EMC 1994.0143
0531	1.19 g	
0532	1.02 g	England? De Wit collection 127 = sold by Baldwin (1996)
0532	1.02 g	REMMERDEN (Gld) hoard V049 p 127
0533	n.r.	England EMC 2001.0677
0534	n.r.	England? C.J. Martin list (Dec 1983) H18 = Blackburn & Bonser (1987) 27
0535	0.97 g	HAMPTON IN ARDEN (Wa) CR (1987) 59 = EMC 1987.0059
0536	n.r.	CODDENHAM (Sf) p.s. DMM 9
0537	1.14 g	
0537	1.14 g	DOMBURG (Z) 537 = Dirks (1870) F 18 = Blackburn & Bonser (1987) 28 p 30
0538	1.14 g	LIMMEN (NH) NUMIS 1017461

0539	1.09 g	]	RECVLVER (K) SCBI 42-474 (South Eastern Museums) = EMC 1992.7474
0540	1.16 g		ST. ALBANS (Hrt) CR (2006) 87 = EMC 2006.0013
0541	1.15 g	]	BIDFORD-ON-AVON (Wa) p.s. DMM XXII p 30
0542	n.r.		HARTLIP (K) CR (1995) 84 = EMC 1995.0084
0543	1.0 g	[	DRY DODDINGTON (L) CR (2002) 95 = EMC 2002.0291
0544	1.22 g		WOODHAM WALTER (Ess) hoard British Museum 358
0545	n.r.	]	England? P. Finn list 3-14 p 202
0546	1.18 g		England? P. Finn memorial list 29
0547	1.16 g	]	BLYTHBURGH (Sf) CR (2002) 96 = EMC 2002.0261
0548	1.18 g		England? De Wit collection 132 = P. Finn list 19-29
0549	1.05 g	[	Cambridgeshire Blackburn & Bonser (1987) 25 = EMC 1986.0017
0550	1.10 g		GREAT DUNMOW (Ess) Abramson collection E220
0551	1.10 g	]	England? List Vosper (2004)
0552	1.05 g		OXBOROUGH (Nf) T&S 205 = CR (1987) 60 = EMC 1993.9205 'silver' (EPMA) 94%

Variety G5

0553	1.15 g	]	VECHTEN (U) NUMIS 1032061 = De Wit collection 133 = List Henzen (1994)
0554	1.12 g		England T&S 208
0555	1.10 g	]	LITTLESTOKE (O) Abramson coll. E655 = CR (2006) 95 = EMC 2005.0270 p 30
0556	1.10 g		AYLESBURY (Bk) Abramson coll. E650 = CR (2006) 94 = EMC 2005.0253
0557	n.r.	]	COLCHESTER (Ess) SiEMC 1 p 35

Variety G4/5 not checked for die-identity

0558	1.15 g	BENTLEY (Sf) CR (1990) 174 = EMC 1990.0174
0559	1.21 g	DONCASTER (WRY) EMC 2001.1273
0560	1.21 g	DRAYTON (Brk, now O) DMM

Variety G imitations

0561	1.23 g	England? T&S 200 = B & B (1987) 8 = EMC 1993.9200 'silver' (EPMA) Blackburn & Bonser 93% p 31	
0562	1.07 g	De MEERN (U) hoard 11	
0563	1.2 g	Humberside (north) (ERY) CR (1995) 89 = EMC 1995.0089	
0564	1.04 g	[]	DOMBURG (Z) 498 p 32
0565	0.55 g		DOMBURG (Z) 499
0566	1.10 g	De MEERN (U) hoard 10	
0567	1.03 g	FÖHR (Germany) hoard 55 'silver' (EDXRF) 54%	
0568	0.80 g	France? BNF D5078	
0569	1.13 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17072
0570	1.4 g		ELTVILLE (Germany) Werner (1961); Blaich (2006)
0571	0.31 g]	DOMBURG (Z) 501
0572	1.15 g	FÖHR (Germany) hoard 54 'silver' (EDXRF) 70%	
0573	0.97 g	FÖHR (Germany) hoard 56 'silver' (EDXRF) 53%	
0574	0.33 g	DOMBURG (Z) 500	
0575	1.00 g	Netherlands De Wit collection 117 = sold by Holleman (1999)	
0576	1.05 g	Netherlands Geldmuseum BM-17258	
0577	0.86 g	England? Auction Sotheby (1913) Carlyon Britton collection 157a	

0578	1.18 g	SLEDMERE (ERY) p.s. Abramson coll. E213 = CR (2007) 127 = EMC 2007-0010
0579	1.15 g	England? Auction Sotheby (1913) Carlyon Britton collection 157b
0580	0.93 g	Unknown Auction J. Elsen 97 (Sep. 2008) 589
0581	1. g	MELTON ROSS (L) EMC 2001.0880
0582	0.87 g	SPALDING (L) p.s. DMM CXXXII
0583	n.r.	NOHANENT (France) hoard Lafaurie (1969) 21
0584	1.26 g	BARHAM (Sf) p.s. British Museum 359 = Rigold & Metcalf (1984) p 246
0585	0.29 g	DOMBURG (Z) 486
0586	n.r.	ASTON ROWANT (O) hoard Auction Sotheby (1985) Ex 504a
0587	n.r.	SPALDING (L) p.s. DMM CXVII
0588	1.18 g	England T&S 206 'silver' (EPMA) 94% p 33
0589	0.90 g	BURNHAM MARKET (Nf) Abramson collection E600
0590	1.33 g	ASTON ROWANT (O) hoard Auction Glend (Feb 1988) lot 283b = Blackburn & Bonser (1987) 15
0591	1.33 g	Netherlands? De Wit collection 119 = sold by Holleman (1988) p 31
0592	1.15 g	SOUTH WESTON (O) EMC 1992.0221
0593	0.87 g	LONDON (south bank) CR (1994) 147 = EMC 1994.0147 silver plated
0594	0.90 g	CAISTOR ST. EDMUND (Nf) T&S 207 = EMC 1993.9207 'silver' (EPMA) 94% p 33
0595	0.82 g	DOMBURG (Z) 532 p 31
0596	1.31 g	BAIS (France) hoard Lafaurie (1981a) 309d = BNF 0309d p 33
0597	0.97 g	ASTON ROWANT (O) British Museum 360 silver plated forgery
0598	0.80 g	WORCESTER (Wo) SCBI 17-65 (Midlands Museums) = EMC 1017.0065
0599	1.28 g	KLOSTER BARTHE (Germany) hoard 18 ELM 288
0600	1.21 g	KLOSTER BARTHE (Germany) hoard 17 ELM 289
0601	1.28 g	WOODHAM WALTER (Ess) hoard British Museum 361
0602	1.1 g	England? List Gillis (July 2007) WS 2146
0603	1.29 g	WOODHAM WALTER (Ess) hoard British Museum 362
0604	1.09 g	EAST TILBURY (Ess) p.s. DMM
0605	1.14 g	Netherlands? De Wit collection 129 = sold by Holleman (1991) p 32
0606	1.14 g	EAST TILBURY (Ess) p.s. DMM
0607	n.r.	Netherlands? List Holleman 107 (1996) 424 p 163
0608	n.r.	STREATLEY (Brk) DMM
0609	n.r.	England? EMC 2001.0783
0610	0.87 g	England? British Museum 363 = Hill (1953) 96
0611	1.09 g	England? List Vosper (May 1994) = Beowulf collection 42
0612	n.r.	YORK Communicated by G. Hovinga
0613	n.r.	England? P. Finn list 4-22
0614	n.r.	England? P. Finn list 4-21
0615	1.0 g	England? List Vosper (2004)
0616	0.99 g	KINGSTON DEVERILL (W) DMM
0617	1.12 g	England? SCBI 2-38 (Hunterian Museum) = Ruding (1840) pl I-10
0618	1.33 g	KLOSTER BARTHE (Germany) hoard 16 ELM 626
0619	1.16 g	KLOSTER BARTHE (Germany) hoard 15 ELM 129
0620	1.41 g	NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 31 = BNF MF0001
0621	n.r.	HEMSBY (Nf) DMM
0622	1.07 g	VECHTEN (U) NUMIS 1032060
0623	n.r.	England? Metcalf (1966) 12 = ex Carlyon Britton collection
0624	1.02 g	BEACHAMWELL (Nf) EMC 2007.0217
0625	0.60 g	England? Abramson collection E200

- 0626 n.r. Friesland Communicated by K. Faber
 0627 1.2 g WOODNESBOROUGH (K) CR (2000) 49 = EMC 2003.0103

Variety G imitations not checked for die-identity

- 0628 0.55 g BAWSEY (Nf) p.s. CR (2007) 120 = EMC 2006.0296
 0629 0.61 g DOMBURG (Z) 540
 0630 0.77 g DOMBURG (Z) 541
 0631 0.31 g DOMBURG (Z) 546
 0632 n.r. England? Ex Lockett collection
 0633 n.r. SAINT-PIERRE-LES-ÉTIEUX (France) hoard Lafaurie (1969) 99
 0634 n.r. UTRECHT (U) (near) NUMIS 1029611
 0635 0.37 g Unknown Cabinet des médailles Brussels. Hill (c. 1974) BBR 16
 0636 0.76 g VROUWENPOLDER (Z) Op den Velde & Klaassen (2004) 1024

Variety D

- 0637 1.15 g ISLE OF THANET (K) British Museum 364 = Keary (1887) 57 = Metcalf (1966) 28 **p 34**
- 0638 n.r. [] ACHÈRES (Yvelines, France) Lafaurie & Pilet-Lemière (2003) 78.5.1 = BNF 1988.0205
- 0639 1.23 g [] England? British Museum 365 = Keary (1887) 55 = Metcalf (1966) 26
- 0640 0.80 g [] SLEDMERE (ERY) p.s. = Abramson collection E180
- 0641 1.00 g [] GRIMSBY (L) (near) Blackburn & Bonser (1984) pl I-9 = EMC 1984.0009
- 0642 1.15 g [] CLAXBY-BY-ALFORD (L) (near) Blackburn & Bonser (1984) pl I-4 = EMC 1984.0004
- 0643 1.12 g KLOSTER BARTHE (Germany) hoard 22 ELM 368
- 0644 1.20 g ASTON ROWANT (O) hoard British Museum 366
- 0645 1.00 g DE MEERN (U) hoard 7
- 0646 1.15 g [] England? P. Finn list 13-46
- 0647 1.1 g [] England? List Vosper (2004)
- 0648 1.27 g [] ASTON ROWANT (O) hoard T&S p 210 = Auction Glendining (Feb. 1988) 281a **p 34**
- 0649 1.29 g [] ASTON ROWANT (O) hoard T&S 211 = Auct. Sotheby (1986) lot 196 'silver' (EPMA) 96%
- 0650 1.20 g [] WEST RUDHAM (Nf) CR (1993) 162 = EMC 1993.0162
- 0651 1.18 g [] FINGRINGHOE (Ess) hoard Communicated by G. Williams **p 288**
- 0652 1.20 g [] LITTLE MONGEHAM (K) CR (1992) 223 = EMC 1992.0223
- 0653 1.24 g [] ASTON ROWANT (O) hoard T&S p 219 = Auction Glendining (Feb. 1988) 281b
- 0654 0.76 g DOMBURG (Z) 455
- 0655 0.99 g England? SCBI 2-39 (Hunterian Museum) = Ruding (1840) pl I-14
- 0656 1.08 g [] LITTLE THURLOW (Sf) CR (1999) 63 = EMC 1999.0172
- 0657 1.28 g [] KLOSTER BARTHE (Germany) hoard 21 ELM 430
- 0658 1.08 g [] ROUEN (Seine-Maritime, France) Lafaurie & Pilet-Lemière (2003) 76.540.9.3 **p 36**
- 0659 1.11 g [] WHITBY (NRY) British Museum 367 = Metcalf (1966) 30 = EMC 1977.0091
- 0660 n.r. [] England? P. Finn 7-30
- 0661 1.21 g [] ASTON ROWANT (O) hoard British Museum 368
- 0662 1.26 g KLOSTER BARTHE (Germany) hoard 23 ELM 481
- 0663 1.11 g Oxfordshire EMC 2006.0047

0664	0.87 g	[]	DOMBURG (Z) 456
0665	n.r.	[]	KLOSTER BARTHE (Germany) hoard 20 Anton Ulrich Museum Braunschweig
0666	1.00 g	[]	Netherlands? De Wit collection 122 = sold by Henzen (1993)
0667	n.r.	[]	CHICHESTER (Sx) CR (2005) 86 = EMC 2004.0069 p 34
0668	1.01 g		Netherlands? De Wit collection 123 = sold by Henzen (1997)
0669	1.15 g		OGBOURNE ST. ANDREW (W) T&S p 220 = EMC 1993.9220 p 34
0670	1.21 g	[]	ARDRES (Pas-de Calais, France) Lafaurie & Pilet-Lemière (2003) 62.38.1
0671	1.41 g	[]	England? SCBI 2-37 (Hunterian Museum) = Ruding (1840) pl I-3
0672	1.25 g	[]	ASTON ROWANT (O) hoard British Museum 369
0673	n.r.	[]	ASTON ROWANT (O) hoard Auction Sotheby (1985) Ex 502 p 35
0674	1.15 g		England? P. Finn 13-47
0675	n.r.	[]	CODDENHAM (Sf) p.s. DMM 2
0676	1.20 g	[]	ASTON ROWANT (O) hoard T&S 210 = EMC 1993.9210 'silver' (EPMA) 88% p 35
0677	0.69 g		DOMBURG (Z) 451
0678	0.99 g		Norwich area Communicated by G. Hovinga
0679	0.93 g		DOMBURG (Z) 453
0680	1.08 g		DE MEERN (U) hoard 6
0681	1.16 g		ASTON ROWANT (O) hoard T&S 209 = EMC 1993.9209 'silver' (EPMA) 94%
0682	0.96 g		ROYSTON (Hrt) p.s. Blackburn & Bonser (1986) 11 = EMC 1986.0011
0683	0.69 g		DORCHESTER (Do) Metcalf (1966) 29
0684	1.20 g	[]	Netherlands? Geldmuseum RE-22468
0685	n.r.	[]	Netherlands? List Holleman 136-139
0686	1.20 g		ASTON ROWANT (O) hoard British Museum 370
0687	1.11 g		CAISTOR ST. EDMUND (Nf) Auction Christies (Nov. 1986) lot 359 = EMC 1985.5029
0688	1.11 g	[]	Netherlands? Geldmuseum RE-22469
0689	1.18 g	[]	DOMBURG (Z) 452 = Metcalf (1966) 27
0690	n.r.	[]	Netherlands? Photoarchive Geldmuseum 9538-23/30
0691	1.05 g		MILTON (O) CR (1992) 222 = EMC 1992.0222
0692	1.04 g		HEYDOUR (L) EMC CR (2002) 97 = EMC 2001.0025
0693	1.10 g	[]	WEST FIRLE (Sx) CR (2005) 82 = EMC 2005.0012
0694	1.25 g	[]	Unknown Metcalf (1969) Franceschi parcel 32 = Auction J. Elsen 83 (2005) 1040 p 36
0695	1.14 g	[]	ISLE OF THANET (K)? British Museum 371 = Hill (1949/51) pl II-30 =? White (1756) No 14
0696	1.02 g	[]	France? De Belfort (1892-95) 5855 collection de P. d'Amécourt
0697	1.02 g	[]	FRANEKER (Fr) single find NUMIS 1012004
0698	1.16 g	[]	England? Abramson collection E210 p 36
0699	1.23 g	[]	KLOSTER BARTHE (Germany) hoard 19 EML 481
0700	n.r.	[]	OSBALDWICK (NRY) (near) EMC 2001.0810
0701	n.r.		Netherlands In private collection www.bonatiele.nl
0702	n.r.		Germany? www.reppa.de (July 2007)
0703	1.2 g		SHIPTON ON CHERWELL/THRUPP (O) CR (2006) 84 = EMC 2006.0011
0704	0.94 g		England? Abramson collection E211
0705	0.82 g		DOMBURG (Z) 454
0706	n.r.	[]	SLEDMERE (ERY) p.s. Bonser 1478
0707	n.r.	[]	England? Ex Lockett collection

Variety D not checked for die-identity

0708	n.r.	ASTON ROWANT (O) hoard Auction Sotheby (1985) Ex 502 bis
0709	n.r.	HOD HILL (Do) Rigold & Metcalf (1984) p 252
0710	n.r.	NEWPORT (Wt) Rigold & Metcalf (1984) p 256 = EMC 1977.0051
0711	0.75 g	Unknown Cabinet des médailles Brussels. Hill (c. 1974) BBR 22

Variety D imitations

0712	0.72 g	BAWSEY (Nf) p.s. T&S 212 = EMC 1993.9212
0713	n.r.	HOLLINGBOURNE (K) near, p.s. EMC 2001.0578 p 36
0714	1.19 g	France? BNF 2000.0296
0715	1.13 g	ALCESTER (Wa) DMM p 36
0716	0.86 g	De MEERN (U) hoard 14

SECONDARY PORCUPINE VARIETIES**Sub-variety a**

0717	1.33 g	] KLOSTER BARTHE (Germany) hoard 25 ELM 378
0718	1.05 g	
0719	n.r.	Netherlands? Auction Coin Investment 25 (1986) 652 p 40
0720	1.41 g	] KLOSTER BARTHE (Germany) hoard 27 ELM 488
0721	n.r.	
0722	1.28 g	KLOSTER BARTHE (Germany) hoard 28 Hill (1977) "Hanover Hoard" England? T&S 220 = Metcalf (1966) 41 = EMC 1993.9220 'silver' (XRF) 83% p 40
0723	0.96 g	] MAURIK (Gld) Op den Velde (1982) 9 = NUMIS 1019374
0724	1.28 g	
0725	1.21 g	] KLOSTER BARTHE (Germany) hoard 29 ELM 441
0726	n.r.	
0727	1.07 g	] SLEAFORD (L) DMM p 41
0728	1.24 g	
0729	1.25 g	] KLOSTER BARTHE (Germany) hoard 32 ELM 38
0730	1.32 g	
0731	n.r.	Friesland Geldmuseum RE-22473
0732	n.r.	Unknown De Belfort (1892-95) 5858
0733	1.12 g	Unknown Metcalf (1966) 36 cast from the Grantley collection ²⁹⁹
0734	1.23 g	WORMEGAY (Nf) CR (2000) 50 = EMC 2000.0019
0735	1.27 g	] KLOSTER BARTHE (Germany) hoard 33 ELM 408
0736	1.23 g	
0737	1.2 g	KLOSTER BARTHE (Germany) hoard 34 ELM 206
0738	1.02 g	Unknown SCBI 50-25 (Hermitage Museum)
0739	1.26 g	SPALDING (L) p.s. CR (2003/4) 80 = EMC 2003.0177
		De MEERN (U) hoard 13
		Unknown T&S 219 Ex Lockett collection = EMC 1993.9219 'silver' (EPMA) 92% p 108
0740	1.27 g	KLOSTER BARTHE (Germany) hoard 35 ELM 77
0741	1.02 g	KLOSTER BARTHE (Germany) hoard 36 ELM 478
0742	1.11 g	] KLOSTER BARTHE (Germany) hoard 37 ELM 613
0743	1.22 g	
0744	0.88 g	Unknown Auction Classical Numismatic Group ((March 1997) 2877 p 42
0745	1.19 g	] KLOSTER BARTHE (Germany) hoard 38 WLM Berghaus (1980) 16 Bedford p.s.? T&S 235 = Metcalf (1966) 32 = EMC 1993.9235 'silver' (XRF) c. 83%

²⁹⁹ Very likely the accidental combination of an unrelated obverse and reverse cast.

0746	0.83 g	DOMBURG (Z) 457
0747	0.40 g	DOMBURG (Z) 459
0748	0.81 g	England? P. Finn list 14-53
0749	0.70 g	STRADSETT (Nf) CR (2007) 115 = EMC 2006.0245
0750	n.r.	EAST TILBURY (Ess) p.s. DMM p 42
0751	1.01 g	WOODHAM WALTER (Ess) hoard British Museum 372

Sub-variety a not checked for die-identity

0752	0.78 g	DOMBURG (Z) 460
0753	0.61 g	DOMBURG (Z) 667

Sub-variety b

0754	1.05 g	England? De Wit collection 87 = P. Finn list 15-46 p 43
0755	1.25 g	
0756	1.13 g	KLOSTER BARTHE (Germany) hoard 58 ELM 103
0757	1.37 g	
0758	1.11 g	KLOSTER BARTHE (Germany) hoard 59 ELM 144
0759	0.92 g	
0760	0.89 g	KLOSTER BARTHE (Germany) hoard 60 ELM 512
0761	1.30 g	
0762	1.34 g	KLOSTER BARTHE (Germany) hoard 61 ELM 069
0763	1.30 g	
0764	n.r.	LUTJE SAAKSUM (Gr) hoard Hill (1955) 24
0765	0.76 g	De MEERN (U) hoard 19
		Unknown De Wit collection 85 (bought from Franceschi 1967)
		KLOSTER BARTHE (Germany) hoard 62 ELM 366
		KLOSTER BARTHE (Germany) hoard 63 Richardson (1984) pl 12-3 = SCBI 48-154
		EAST TILBURY (Ess) p.s. DMM
		VROUWENPOLDER (Z) De Wit collection 86 = List Holleman (1993) 404 = Op den Velde & Klaassen (2004) 1025
0766	1.22 g	WIJK-BIJ-DUURSTED (U) NUMIS 1033456 = Geldmuseum BM-17273
0767	1.24 g	
0768	0.92 g	HALLUM (Fr) hoard De Haan (1866) 16 = Dirks (1870) C-8 p 131
0769	0.81 g	
0770	1.24 g	WEST WALTON (Nf) EMC 1991.5007 p 43
0771	1.25 g	De MEERN (U) hoard 20
		KLOSTER BARTHE (Germany) hoard 64 ELM 590
		KLOSTER BARTHE (Germany) hoard 65 SCBI 36-12 (Berlin Museum)
0772	1.25 g	KLOSTER BARTHE (Germany) hoard 66 ELM 346
0773	1.17 g	De MEERN (U) hoard 21
0774	1.15 g	De MEERN (U) hoard 22
0775	1.21 g	De MEERN (U) hoard 23
0776	n.r.	Netherlands? Auction Coin Investment 47/48 (1997) 196
0777	1.17 g	KLOSTER BARTHE (Germany) hoard 67 ELM 94
0778	1.09 g	
0779	0.91 g	KLOSTER BARTHE (Germany) hoard 68 ELM 493
0780	0.82 g	
0781	1.23 g	KLOSTER BARTHE (Germany) hoard 69 ELM 516
0782	n.r.	KLOSTER BARTHE (Germany) hoard 70 ELM 586
0783	0.82 g	KLOSTER BARTHE (Germany) hoard 71 ELM 610
0784	1.02 g	Friesland List Holleman 107 (2006) 423
0785	1.27 g	England? Abramson collection E110
0786	1.04 g	KLOSTER BARTHE (Germany) hoard 72 ELM 273
0787	0.81 g	KLOSTER BARTHE (Germany) hoard 73 ELM 281 p 163
0788	1.21 g	VECHTEN (U) NUMIS 1030048
0789	1.19 g	DOMBURG (Z) 317
0790	1.17 g	KLOSTER BARTHE (Germany) hoard 74 ELM 384
		KLOSTER BARTHE (Germany) hoard 75 ELM 152
		KLOSTER BARTHE (Germany) hoard 76 ELM 343

0791	0.77 g	ABINGDON (Brk)? T&S 228 = Metcalf (1966) 42 = EMC 1993.9228
0792	1.29 g	KLOSTER BARTHE (Germany) hoard 77 ELM 601
0793	1.18 g	Unknown Metcalf (1969) Franceschi parcel 4 'silver' (XRF) c. 84%
0794	1.24 g	KLOSTER BARTHE (Germany) hoard 78 ELM 252
0795	1.26 g	KLOSTER BARTHE (Germany) hoard 79 ELM 160
0796	1.07 g	KLOSTER BARTHE (Germany) hoard 80 ELM 240
0797	1.08 g	De MEERN (U) hoard 24
0798	1.42 g	] KLOSTER BARTHE (Germany) hoard 81 ELM 259
0799	1.24 g	
0800	1.31 g	[] KLOSTER BARTHE (Germany) hoard 83 ELM 332
0801	1.07 g	
0802	1.33 g	] KLOSTER BARTHE (Germany) hoard 84 ELM 548
0803	0.96 g	
0804	1.25 g	] KLOSTER BARTHE (Germany) hoard 85 ELM 298
0805	1.06 g	
0806	1.12 g	] KLOSTER BARTHE (Germany) hoard 86 ELM 133
0807	1.33 g	
0808	1.08 g	] KLOSTER BARTHE (Germany) hoard 87 ELM 492
0809	1.05 g	
0810	1.27 g	[] KLOSTER BARTHE (Germany) hoard 88 ELM 231
0811	1.32 g	
0812	1.35 g	] KLOSTER BARTHE (Germany) hoard 89 ELM 373
0813	n.r.	
0814	n.r.	] KLOSTER BARTHE (Germany) hoard 90 ELM 459
0815	1.15 g	
0816	1.23 g	[] EASTON (Ha) DMM p 43
0817	1.41 g	
0818	1.26 g	] De MEERN (U) hoard 25
0819	1.12 g	
0820	1.21 g	] KLOSTER BARTHE (Germany) hoard 96 ELM 325
0821	0.78 g	
0822	0.87 g	] KLOSTER BARTHE (Germany) hoard 97 ELM 326
0823	1.14 g	
0824	1.15 g	] KLOSTER BARTHE (Germany) hoard 98 ELM 295
0825	1.09 g	
0826	n.r.	[] KLOSTER BARTHE (Germany) hoard 99 ELM 297
0827	1.33 g	
0828	1.22 g	] KLOSTER BARTHE (Germany) hoard 100 ELM 296
0829	1.16 g	
0830	1.13 g	] DOMBURG (Z) 349
0831	1.10 g	
0832	1.25 g	] De MEERN (U) hoard 26
0833	n.r.	
0834	0.89 g	[] CAISTOR ST. EDMUND (Nf) EMC 1986.5027 = Spink NC (April 1992) 1760
0835	1.03 g	
0836	1.12 g	] KLOSTER BARTHE (Germany) hoard 101 ELM 229
0837	1.24 g	
0838	0.93 g	[] MAURIK (Gld) Op den Velde (1982) 4 = NUMIS 1019378 = Auct. Coin Invest. 21 (1984) 351
0839	1.05 g	
		[] EAST TILBURY (Ess) p.s. DMM
		] KLOSTER BARTHE (Germany) hoard 102 ELM 244
		] KLOSTER BARTHE (Germany) hoard 103 ELM 377
		] KLOSTER BARTHE (Germany) hoard 104 ELM 238
		] KLOSTER BARTHE (Germany) hoard 105 ELM 536
		] KLOSTER BARTHE (Germany) hoard 106 ELM 634
		] KLOSTER BARTHE (Germany) hoard 107 ELM 253
		] SPALDING (L) p.s. DMM
		[] SOUTHAMPTON (Ha) Metcalf (1988a) 12 = EMC 1998.9012 'silver' (EPMA) 86% p 45
		] CAISTOR ST. EDMUND (Nf) EMC 1986.5028
		] KLOSTER BARTHE (Germany) hoard 108 ELM 267
		] KLOSTER BARTHE (Germany) hoard 109 ELM 407
		[] De MEERN (U) hoard 27
		] OWSLEBURY (Ha) CR (2007) 110 = EMC 2006.0131

Die-corpus

0840	1.35 g	Unknown SCBI 50-5 (Hermitage Museum)
0841	n.r.	TZUMMARUM (Fr) NUMIS 1059599
0842	1.14 g	RIJSWIJK (Gld) Op den Velde (1982) 22 = NUMIS 1024755
0843	n.r.	England? List Gillis (2004) WS 5088
0844	n.r.	Netherlands? List R. Schulman 291 (Sep. 1990) 168
0845	n.r.	FINCHAM (Nf) EMC 1999.0106
0846	1.01 g	De MEERN (U) hoard 28
0847	0.91 g	KATWIJK a/d RIJN (ZH) 47 NUMIS 1016273
0848	1.15 g	CAISTOR ST EDMUND (Nf) DMM
0849	1.0 g	England? Cgi.ibay.co.uk (July 2007)
0850	n.r.	CARISBROOKE (Wt) p.s. DMM XVII
0851	1.35 g	KLOSTER BARTHE (Germany) hoard 110 ELM 355
0852	1.10 g	KLOSTER BARTHE (Germany) hoard 111 ELM 582
0853	0.92 g	Friesland? Geldmuseum RE-24905
0854	n.r.	EWELME (O) DMM IV
0855	1.06 g	SPALDING (L) p.s. P. Finn list 18-43 = DMM LXV = EMC 1999.0201
0856	n.r.	EAST TILBURY (Ess) p.s. DMM
0857	1.35 g	KLOSTER BARTHE (Germany) hoard 112 ELM 242
0858	1.24 g	KLOSTER BARTHE (Germany) hoard 113 ELM 431
0859	1.03 g	HOLME NEXT THE SEA (Nf) EMC 1999.0182
0860	1.16 g	KLOSTER BARTHE (Germany) hoard 114 ELM 083
0861	1.06 g	KLOSTER BARTHE (Germany) hoard 115 ELM 468
0862	1.17 g	KLOSTER BARTHE (Germany) hoard 116 ELM 581
0863	1.13 g	KLOSTER BARTHE (Germany) hoard 117 ELM 337
0864	1.21 g	Friesland Geldmuseum RE-22463
0865	1.1 g	England? List Gillis (July 2007) WS 5087
0866	n.r.	CARISBROOKE (Wt) p.s. DMM XXXII
0867	1.15 g	KLOSTER BARTHE (Germany) hoard 118 ELM 338
0868	1.10 g	TORKSEY (L) Abramson collection E115 = CR (2006) 90 = EMC 2005.0281
0869	1.07 g	KLOSTER BARTHE (Germany) hoard 120 ELM 30
0870	n.r.	England? SCBI 42-472 (South-Eastern Museums)
0871	1.15 g	KLOSTER BARTHE (Germany) hoard 121 ELM 564
0872	1.17 g	KLOSTER BARTHE (Germany) hoard 122 ELM 237
0873	1.08 g	KLOSTER BARTHE (Germany) hoard 123 ELM 31
0874	0.95 g	KLOSTER BARTHE (Germany) hoard 124 ELM 454
0875	1.26 g	KLOSTER BARTHE (Germany) hoard 125 ELM 429
0876	1.27 g	KLOSTER BARTHE (Germany) hoard 126 ELM 256
0877	1.18 g	KLOSTER BARTHE (Germany) hoard 127 ELM 631
0878	0.98 g	KLOSTER BARTHE (Germany) hoard 128 ELM 172
0879	1.30 g	KLOSTER BARTHE (Germany) hoard 129 ELM 476
0880	1.20 g	KLOSTER BARTHE (Germany) hoard 130 ELM 370
0881	1.18 g	KLOSTER BARTHE (Germany) hoard 131 ELM 630
0882	1.16 g	Netherlands? Geldmuseum BM-17223
0883	1.07 g	England? Spink (Oct. 2006)
0884	1.28 g	KLOSTER BARTHE (Germany) hoard 134 ELM 576
0885	n.r.	England? List Gillis (2004) = List Gillis (Oct. 2006)
0886	1.32 g	KLOSTER BARTHE (Germany) hoard 135 ELM 52
0887	1.21 g	KLOSTER BARTHE (Germany) hoard 136 ELM 747
0888	1.13 g	De MEERN (U) hoard 29
0889	1.10 g	De MEERN (U) hoard 30
0890	1.24 g	KLOSTER BARTHE (Germany) hoard 137 ELM 521

0891	1.07 g	[]	WEST ASHTON (W) CR (2007) 129 = EMC 2007.0104
0892	n.r.	[	England? Ex Lockett collection
0893	1.01 g	[	SUTTON COURTENAY (O) DMM I = EMC 1990.0178
0894	n.r.		MALTON (NRY) p.s. EMC 1986.5008
0895	1.07 g		KLOSTER BARTHE (Germany) hoard 138 ELM 436
0896	1.00 g	[]	England? Ex collection J.D.A. Thompson, Metcalf (1969) 4A
0897	1.17 g	[]	KLOSTER BARTHE (Germany) hoard 139 ELM 440
0898	1.06 g		England? De Wit collection 91 = P. Finn list 10-30
0899	0.76 g		DOMBURG (Z) 360
0900	1.10 g		BRAILES (Wa) CR (2007) 128 = EMC 2007.0099
0901	0.84 g	[	SLAPPETERP (Fr) NUMIS 1027793
0902	0.90 g	[	BERLIKUM (Fr) NUMIS 1004608
0903	1.19 g	[]	KLOSTER BARTHE (Germany) hoard 144 ELM 335
0904	1.26 g	[]	KLOSTER BARTHE (Germany) hoard 145 ELM 336
0905	1.23 g		KLOSTER BARTHE (Germany) hoard 146 ELM 362
0906	1.19 g		KLOSTER BARTHE (Germany) hoard 147 ELM 530
0907	1.07 g		KLOSTER BARTHE (Germany) hoard 148 ELM 89
0908	n.r.		England? Seaby CMB (1980) pl 58 E 220
0909	1.0 g	[]	STILLINGTON (NRY) List Vosper (Feb 2006) = CR (2007) 122 = EMC 2006.0368
0910	n.r.		BURNHAM MARKET (Nf) CR (2007) 122 = EMC 1999.0017
0911	0.80 g		De MEERN (U) hoard 32
0912	1.12 g		De MEERN (U) hoard 33
0913	1.04 g		De MEERN (U) hoard 34
0914	1.09 g		KLOSTER BARTHE (Germany) hoard 149 ELM 611
0915	1.26 g	[]	KLOSTER BARTHE (Germany) hoard 150 ELM 234
0916	1.22 g	[]	Friesland Geldmuseum RE-22458
0917	1.22 g	[]	KLOSTER BARTHE (Germany) hoard 151 ELM 56
0918	1.11 g	[]	KLOSTER BARTHE (Germany) hoard 152 ELM 331
0919	1.16 g	[]	KLOSTER BARTHE (Germany) hoard 153 ELM 306
0920	0.31 g		RIBE (Denmark) Feveile (2006a) p 307 p 254-16
0921	0.58 g		DOMBURG (Z) 343
0922	0.81 g		KEELBY (L) T&S 229 = EMC 1991.5009 = EMC 1993.9229
0923	0.90 g		DOMBURG (Z) 334
0924	1.19 g		KLOSTER BARTHE (Germany) hoard 154 ELM 404
0925	1.19 g		KLOSTER BARTHE (Germany) hoard 155 ELM 605
0926	1.22 g		KLOSTER BARTHE (Germany) hoard 156 ELM 78
0927	1.22 g	[]	KLOSTER BARTHE (Germany) hoard 157 ELM 85
0928	1.13 g	[]	TRIER (Germany) Gilles (1981)
0929	0.99 g	[]	De MEERN (U) hoard 35
0930	1.06 g	[]	De MEERN (U) hoard 36
0931	n.r.	[]	KLOSTER BARTHE (Germany) hoard 158 Anton Ulrich Museum Braunschweig
0932	1.17 g	[]	England? P. Finn list 7-28
0933	1.08 g	[]	De MEERN (U) hoard 37
0934	1.03 g	[]	Essex (north-west) p.s. Bonser & Carter (2008) fig 17
0935	1.17 g		SPALDING (L) p.s. DMM CXXXVI
0936	1.00 g		France? BNF D5077
0937	1.27 g	[]	KLOSTER BARTHE (Germany) hoard 159 ELM 178
0938	1.19 g	[]	KLOSTER BARTHE (Germany) hoard 160 ELM 411
0939	1.28 g	[]	KLOSTER BARTHE (Germany) hoard 161 ELM 27
0940	1.03 g	[]	KLOSTER BARTHE (Germany) hoard 162 ELM 28

Die-corpus

0941	1.33 g	[]	KLOSTER BARTHE (Germany) hoard 163 ELM 198
0942	0.77 g		DOMBURG (Z) 320
0943	0.91 g		England? T&S 227
0944	n.r.	[]	AMIENS (Somme, France)? Rigollot (1832) = Lelewel (1835) pl III-21
0945	1.25 g		Unknown SCBI 50-6 (Hermitage Museum)
0946	1.11 g		KLOSTER BARTHE (Germany) hoard 164 ELM 412
0947	1.11 g		KLOSTER BARTHE (Germany) hoard 165 ELM 401
0948	1.19 g		KLOSTER BARTHE (Germany) hoard 166 ELM 560
0949	n.r.		England? Ex Lockett collection
0950	0.97 g	[]	DOMBURG (Z) 352 p 43
0951	n.r.		STOKE CHARITY (Ha) EMC 2007.0275
0952	0.86 g		DOMBURG (Z) 322
0953	1.18 g		Unknown Metcalf (1969) Franceschi parcel 3
0954	1.34 g	[]	KLOSTER BARTHE (Germany) hoard 167 ELM 246
0955	1.16 g		BASSINGBOURN (C) EMC 1993.0159
0956	1.16 g		KLOSTER BARTHE (Germany) hoard 168 ELM 391
0957	n.r.		NEWBALD (ERY) p.s. (formerly 'SOUTH NEWBALD' or SANCTON) EMC 2001.0818
0958	n.r.		OOST SOUBURG (Z) NUMIS 1059586
0959	0.78 g		SPALDING (L) p.s. EMC 2000.0531
0960	n.r.		CARISBROOKE (Wt) p.s. DMM XXVI
0961	0.95 g		England? SCBI 16-53 (Norweb collection)
0962	n.r.		Netherlands? Auction L. Schulman (Apr. 1996) 501
0963	0.99 g		STANTON ST JOHN (O) CR (1992) 224 = EMC 1992.0224
0964	1.06 g		KINGSTON DEVERILL (W) DMM
0965	1.41 g		KLOSTER BARTHE (Germany) hoard 169 ELM 230
0966	1.12 g		KLOSTER BARTHE (Germany) hoard 170 ELM 182
0967	1.25 g		KLOSTER BARTHE (Germany) hoard 171 ELM 389
0968	n.r.		England? Spink NC (1970) 11179 Elmore Jones collection
0969	1.06 g		MAINZ (Germany) Stoess (1994) 10
0970	0.89 g	[]	XANTEN (Germany) 6 Zedelius (1980) p 139
0971	1.15 g		Unknown Metcalf (1969) Franceschi parcel 6 = Auction J. Elsen (2005) 1042
0972	1.13 g		KLOSTER BARTHE (Germany) hoard 190 ELM 573
0973	1.19 g		KLOSTER BARTHE (Germany) hoard 269 ELM 255

Sub-variety b not checked for die-identity

0974	n.r.	BOUROGNE (Territoire de Belfort) Lafaurie & Pilet-Lemière (2003) 90.17a
0975	1.06 g	DOMBURG (Z) 316
0976	0.73 g	DOMBURG (Z) 361
0977	0.58 g	DOMBURG (Z) 368
0978	0.69 g	DOMBURG (Z) 587
0979	0.95 g	England? British Museum 373 = Keary (1887) 59
0980	0.74 g	England? British Museum 374
0981	1.08 g	Essex (north-west) p.s. Bonser & Carter (2008) fig 15
0982	n.r.	LINNE (L) NUMIS 1017583

Sub-variety c

0983	1.18 g	KLOSTER BARTHE (Germany) hoard 132 ELM 258
0984	1.15 g	KLOSTER BARTHE (Germany) hoard 133 ELM 277
0985	0.90 g	DOMBURG (Z) 350

0986	1.23 g	KLOSTER BARTHE (Germany) hoard 172 ELM 193
0987	1.13 g	KLOSTER BARTHE (Germany) hoard 173 ELM 583
0988	n.r.	EAST TILBURY (Ess) p.s. DMM
0989	n.r.	Netherlands? Auction De Geus 16 (2003) 445
0990	1.11 g	KLOSTER BARTHE (Germany) hoard 174 ELM 98
0991	0.71 g	OOSTERBIERUM (Fr) NUMIS 1022073
0992	n.r.	MICHELMERSH (Ha) DMM
0993	1.0 g	England? List Gillis (July 2007) WS 5088
0994	1.03 g	AUDLEY END (Ess) EMC 2001.0713
0995	0.75 g	DOMBURG (Z) 369
0996	1.09 g	KLOSTER BARTHE (Germany) hoard 175 ELM 505
0997	0.55 g	DOMBURG (Z) 384
0978	1.14 g	France? BNF MF0125
0999	1.34 g	KLOSTER BARTHE (Germany) hoard 176 ELM 309
1000	1.15 g	KLOSTER BARTHE (Germany) hoard 177 ELM 303
1001	1.15 g	KLOSTER BARTHE (Germany) hoard 178 ELM 317
1002	1.17 g	KLOSTER BARTHE (Germany) hoard 179 ELM 318
1003	0.67 g	DOMBURG (Z) 357
1004	1.17 g	KLOSTER BARTHE (Germany) hoard 180 ELM 347
1005	1.38 g	KLOSTER BARTHE (Germany) hoard 181 ELM 542
1006	1.14 g	KLOSTER BARTHE (Germany) hoard 182 ELM 134
1007	1.24 g	KLOSTER BARTHE (Germany) hoard 183 ELM 632
1008	0.98 g	De MEERN (U) hoard 38
1009	1.07 g	KLOSTER BARTHE (Germany) hoard 184 ELM 619
1010	1.12 g	England? British Museum 375 = Keary (1887) 67 = Metcalf (1966) 11
1011	1.13 g	KLOSTER BARTHE (Germany) hoard 185 ELM 263
1012	0.90 g	England? List Martin (Feb. 1994) Beowulf collection 44
1013	0.88 g	De MEERN (U) hoard 39
1014	1.12 g	KLOSTER BARTHE (Germany) hoard 186 ELM 11
1015	1.09 g	KLOSTER BARTHE (Germany) hoard 187 ELM 12
1016	n.r.	Netherlands? List Holleman 189 (2001) 576 = list 190 (2001) 532
1017	0.62 g	DOMBURG (Z) 338
1018	1.17 g	KLOSTER BARTHE (Germany) hoard 188 ELM 392
1019	1.24 g	KLOSTER BARTHE (Germany) hoard 189 ELM 104
1020	1.18 g	KLOSTER BARTHE (Germany) hoard 191 ELM 322
1021	1.26 g	KLOSTER BARTHE (Germany) hoard 192 ELM 84
1022	0.78 g	DOMBURG (Z) 347
1023	1.34 g	England? British Museum 376 = Hill (1953) p 96
1024	1.2 g	WIJK-BIJ-DUURSTEDEN (U) NUMIS 1033442 = V d Chijs (1866) III-1 = Geldmuseum 17967
1025	1.37 g	KLOSTER BARTHE (Germany) hoard 193 ELM 216
1026	1.21 g	KLOSTER BARTHE (Germany) hoard 194 ELM 418
1027	1.26 g	LUTJE SAAKSUM (Gr) hoard Hill (1955) 5
1028	1.31 g	KLOSTER BARTHE (Germany) hoard 195 ELM 113
1029	1.09 g	KLOSTER BARTHE (Germany) hoard 196 ELM 453
1030	1.23 g	KLOSTER BARTHE (Germany) hoard 197 ELM 181
1031	0.94 g	DOMBURG (Z) 345
1032	1.14 g	DOMBURG (Z) 346
1033	1.03 g	HALLUM (Fr) hoard De Haan (1866) 17 = Dirks (1870) C-7 p 131
1034	1.1 g	England? List Gillis (July 2007) WS 2144
1035	1.11 g	DOMBURG (Z) 318 p 45
1036	1.17 g	WINCHESTER (Ha) EMC 1977.0104

1037	1.07	g	]	DONGJUM (Fr) NUMIS 1008820 =? Auction Coin Investment (Nov 1991) 362
1038	0.66	g		De MEERN (U) hoard 40
1039	n.r.		]	WIJNALDUM (Fr) Photoarchive Geldmuseum 9079-14/15
1040	n.r.			DRIFFIELD (ERY) CR (1998) 76 = EMC 1998.0134
1041	1.05	g		Unknown SCBI 50-7 (Hermitage Museum)
1042	1.08	g	[]	England? SCBI 1-244 (Fitzwilliam Museum) = MEC 656
1043	1.20	g		KLOSTER BARTHE (Germany) hoard 198 ELM 233
1044	0.60	g		MAURIK (Gld) Op den Velde (1982) 13 = NUMIS 1019382
1045	1.14	g		KLOSTER BARTHE (Germany) hoard 199 ELM 62
1046	1.17	g		KLOSTER BARTHE (Germany) hoard 200 ELM 46
1047	1.40	g		England? SCBI 2-27 (Hunterian Museum)
1048	1.1	g	[]	England? List Gillis (July 2007) WS 6157 p 45
1049	1.31	g		HALLUM (Fr) hoard De Haan (1866) 22 = Dirks (1870) C-3 p 131
1050	1.24	g	[]	KLOSTER BARTHE (Germany) hoard 201 ELM 5
1051	1.30	g		KLOSTER BARTHE (Germany) hoard 202 ELM 342
1052	1.22	g	[]	KLOSTER BARTHE (Germany) hoard 203 ELM 448
1053	0.61	g		DOMBURG (Z) 314
1054	0.75	g		DOMBURG (Z) 329
1055	1.47	g		KLOSTER BARTHE (Germany) hoard 204 ELM 228
1056	1.20	g	]	RIJSWIJK (Gld) Op den Velde (1982) 23 = NUMIS 1024750
1057	0.87	g		DOMBURG (Z) 354
1058	1.16	g		KLOSTER BARTHE (Germany) hoard 205 ELM 61
1059	0.95	g	[]	KLOSTER BARTHE (Germany) hoard 206 ELM 339
1060	1.05	g		KLOSTER BARTHE (Germany) hoard 207 ELM 315
1061	1.23	g	]	KLOSTER BARTHE (Germany) hoard 208 ELM 9
1062	1.40	g		KLOSTER BARTHE (Germany) hoard 209 ELM 21
1063	1.22	g		De MEERN (U) hoard 41
1064	0.44	g		MEOLS (Ch) EMC 1982.9019
1065	1.11	g		De MEERN (U) hoard 42
1066	1.15	g	[]	KLOSTER BARTHE (Germany) hoard 210 ELM 321
1067	1.07	g		De MEERN (U) hoard 43 p 163
1068	0.88	g	[]	DOMBURG (Z) 340
1069	1.26	g		KLOSTER BARTHE (Germany) hoard 211 ELM 403
1070	1.36	g	[]	KLOSTER BARTHE (Germany) hoard 212 ELM 99
1071	1.21	g		LUTJE SAAKSUM (Gr) hoard Hill (1955) 15
1072	1.20	g		KLOSTER BARTHE (Germany) hoard 213 ELM 39
1073	1.04	g		WIJNALDUM (Fr) NUMIS 1034045
1074	n.r.			VLEUTEN (U) NUMIS 1059601
1075	1.06	g		England? SCBI 2-32 (Hunterian Museum)
1076	0.93	g		MAINZ (Germany) Stoess (1994) 14
1077	1.20	g		KLOSTER BARTHE (Germany) hoard 214 ELM 187
1078	1.11	g		KLOSTER BARTHE (Germany) hoard 215 ELM 439
1079	n.r.			England? Seaby CMB (1973) pl 84 H 3964
1080	1.09	g		KLOSTER BARTHE (Germany) hoard 216 ELM 70
1081	1.14	g		KLOSTER BARTHE (Germany) hoard 217 ELM 264
1082	0.93	g	[]	Unknown Auction J. Elsen 97 (Sep. 2008) 588
1083	1.37	g		KLOSTER BARTHE (Germany) hoard 218 ELM 151
1084	1.12	g	[]	KLOSTER BARTHE (Germany) hoard 219 ELM 584
1085	1.22	g		KLOSTER BARTHE (Germany) hoard 220 ELM 139
1086	1.05	g		KLOSTER BARTHE (Germany) hoard 221 ELM 175
1087	1.32	g		KLOSTER BARTHE (Germany) hoard 222 ELM 615
1088	1.08	g	[]	KLOSTER BARTHE (Germany) hoard 223 ELM 171

1089	0.86 g	[]	De MEERN (U) hoard 44
1090	0.93 g	[]	De MEERN (U) hoard 31
1091	1.26 g	[]	KLOSTER BARTHE (Germany) hoard 140 ELM 427
1092	1.28 g	[]	KLOSTER BARTHE (Germany) hoard 141 ELM 310
1093	1.31 g	[]	KLOSTER BARTHE (Germany) hoard 142 ELM 311
1094	1.17 g	[]	KLOSTER BARTHE (Germany) hoard 143 ELM 320
1095	1.04 g	[]	KLOSTER BARTHE (Germany) hoard 224 ELM 498
1096	1.26 g	[]	KLOSTER BARTHE (Germany) hoard 225 ELM 58
1097	1.17 g	[]	KLOSTER BARTHE (Germany) hoard 226 ELM 261
1098	1.14 g	[]	KLOSTER BARTHE (Germany) hoard 227 ELM 383
1099	1.12 g	[]	WOODHAM WALTER (Ess) hoard British Museum 377
1100	1.03 g	[]	KLOSTER BARTHE (Germany) hoard 228 ELM 539
1101	1.25 g	[]	KLOSTER BARTHE (Germany) hoard 229 ELM 522
1102	1.25 g	[]	KLOSTER BARTHE (Germany) hoard 230 ELM 644
1103	1.33 g	[]	KLOSTER BARTHE (Germany) hoard 231 ELM 457
1104	1.13 g	[]	KLOSTER BARTHE (Germany) hoard 232 ELM 623
1105	n.r.	[]	England? Seaby CMB (1974) pl 46-H4391
1106	n.r.	[]	BAIS (Ile-et-Vilaine, France) hoard Ex Durocher collection. Lafaurie (1981a) 309B p 133
1107	1.18 g	[]	England? De Wit collection 90 = P. Finn list 12-46
1108	0.95 g	[]	DOMBURG (Z) 312 = De Belfort (1892-95) 5832
1109	n.r.	[]	YORK (Fishergate) A/Y 7/1 7826
1110	0.61 g	[]	DOMBURG (Z) 315
1111	0.75 g	[]	DOMBURG (Z) 330
1112	0.78 g	[]	DOMBURG (Z) 324
1113	n.r.	[]	Friesland. List Holleman 142 (2004) 567 = List J. Schulman 290 (1992)
1114	0.75 g	[]	DOMBURG (Z) 328
1115	0.61 g	[]	WIJNALDUM (Fr) NUMIS 1034046
1116	0.74 g	[]	SCHWABSBURG (Rheinland-Pfalz, Germany) Werner (1935) no. 166
1117	1.07 g	[]	possibly KLOSTER BARTHE SCBI 4-26 (Copenhagen Museum)
1118	n.r.	[]	ZWAAGWESTEINDE (Fr) www.detrijstijnen.nl/bodemvondsten (July 2007)
1119	0.92 g	[]	DOMBURG (Z) 327
1120	1.18 g	[]	Unknown Metcalf (1969) Franceschi parcel 1
1121	1.01 g	[]	NICE-CIMIEZ (Alpes-Maritimes, France) hoard Le Gentilhomme (1938) 41 = BNF MF0025
1122	0.82 g	[]	SLEAFORD (L) CR (2002) 103 = EMC 2004.0239
1123	1.19 g	[]	BRAILES (Wa) CR (2000) 51 = EMC 2000.0024
1124	1.10 g	[]	KATWIJK a/d RIJN (ZH) 48 NUMIS 1016274
1125	1.16 g	[]	Netherlands? De Wit collection 88 = Auction Coin Investment 51 (1996) 287
1126	0.88 g	[]	RIJSWIJK (Gld) Op den Velde (1982) 27 = NUMIS 1024747
1127	1.19 g	[]	England? SCBI 2-21 (Hunterian Museum) = Ruding (1840) pl I-8
1128	1.07 g	[]	WOODHAM WALTER (Ess) hoard British Museum 378
1129	1.14 g	[]	WEST FIRLE (Sx) CR (2007) 109 = EMC 2007.0097
1130	1.21 g	[]	KLOSTER BARTHE (Germany) hoard 233 ELM 227
1131	1.14 g	[]	KLOSTER BARTHE (Germany) hoard 234 ELM 260
1132	1.32 g	[]	KLOSTER BARTHE (Germany) hoard 235 ELM 375
1133	1.01 g	[]	KLOSTER BARTHE (Germany) hoard 236 ELM 415
1134	1.20 g	[]	KLOSTER BARTHE hoard 237 Manchester City Art Gallery Richardson (1984) pl 12-3 = SCBI 48-155
1135	1.06 g	[]	KLOSTER BARTHE (Germany) hoard 238 ELM 301

1136	1.20 g	[]	KLOSTER BARTHE (Germany) hoard 239 ELM 302
1137	1.03 g		De MEERN (U) hoard 45
1138	1.09 g		DOMBURG (Z) 547
1139	n.r.		Netherlands? In private collection www.bonatiele.nl
1140	1.15 g		BALDOCK (Hrt) EMC 1985.0004
1141	0.38 g		DOMBURG (Z) 331
1142	1.12 g		KLOSTER BARTHE (Germany) hoard 240 ELM 570
1143	0.70 g	[]	DOMBURG (Z) 389
1144	0.71 g		SLAPPETERP (Fr) NUMIS 1027789
1145	1.11 g		REMEMHAM (Brk) T&S 252 = EMC 1993.9252 'silver' (EPMA) 30% p 102
1146	0.88 g		KLOSTER BARTHE (Germany) hoard 241 ELM 352
1147	1.19 g	[]	KLOSTER BARTHE (Germany) hoard 242 ELM 329
1148	1.16 g		KLOSTER BARTHE (Germany) hoard 243 ELM 330
1149	1.25 g		Unknown Metcalf (1969) Franceschi parcel 5
1150	n.r.		Netherlands? Auction L. Schulman (Nov. 1999) 723
1151	1.04 g		England? SCBI 2-33 (Hunterian Museum)
1152	0.91 g		England? British Museum 379 = Keary (1887) 69
1153	1.07 g		De MEERN (U) hoard 46
1154	0.77 g	[]	GREAT FRANSHAM (Nf) CR (1997) 55 = EMC 1997.0055
1155	1.08 g		De MEERN (U) hoard 47
1156	1.17 g	[]	De MEERN (U) hoard 48
1157	n.r.		ROYSTON (Hrt) p.s. EMC 1990.0322
1158	1.29 g		KLOSTER BARTHE (Germany) hoard 244 ELM 251
1159	1.27 g		KLOSTER BARTHE (Germany) hoard 245 ELM 97
1160	1.13 g		KLOSTER BARTHE (Germany) hoard 246 ELM 282
1161	1.25 g	[]	KLOSTER BARTHE (Germany) hoard 247 ELM 241
1162	0.91 g		KLOSTER BARTHE (Germany) hoard 248 ELM 243
1163	0.96 g		De MEERN (U) hoard 49
1164	0.97 g		Friesland Geldmuseum RE-22464
1165	1.01 g		SPALDING (L) p.s. CR (2006) 91 EMC -
1166	1.12 g	[]	KLOSTER BARTHE (Germany) hoard 249 ELM 135
1167	1.04 g		KLOSTER BARTHE (Germany) hoard 250 ELM 616
1168	1.06 g		Unknown Auction J. Elsen 65 (2001) 339
1169	0.50 g		DOMBURG (Z) 333
1170	1.08 g		KLOSTER BARTHE (Germany) hoard 251 ELM 272
1171	0.59 g		DOMBURG (Z) 321
1172	0.60 g		WOODHAM WALTER (Ess) hoard British Museum 380
1173	0.60 g		DOMBURG (Z) 337
1174	0.87 g		DOMBURG (Z) 344
1175	0.60 g		DOMBURG (Z) 335
1176	n.r.		Wiltshire (north) CR (1998) 78 = EMC 1998.0133
1177	0.63 g		DOMBURG (Z) 359
1178	1.09 g		GRIMSBY (L) (near) EMC 1986.0103
1179	1.19 g	[]	KLOSTER BARTHE (Germany) hoard 252 ELM 76
1180	n.r.		Netherlands? List Holleman 82-346
1181	0.81 g		SLEAFORD (L) CR (2002) 104 = EMC 2004.0240
1182	1.29 g	[]	KLOSTER BARTHE (Germany) hoard 253 ELM 275
1183	1.13 g		England? MEC 657 = Carlyon Britton collection 156
1184	0.75 g		DOMBURG (Z) 326
1185	1.07 g		SPALDING (L) p.s. EMC 1999.0207 = DMM LXXI
1186	1.22 g		SPALDING (L) p.s. DMM LXXXI

1187	0.79 g	[	BLEDLOW (Bk) DMM IX
1188	1.02 g		DOMBURG (Z) 313
1189	0.75 g	]	DOMBURG (Z) 323
1190	0.99 g		Unknown SCBI 36-21 (Berlin Museum)
1191	0.99 g	[	DOMBURG (Z) 319
1192	1.24 g		KLOSTER BARTHE (Germany) hoard 254 ELM 72
1193	1.0 g	]	England? List Vosper (Aug. 2005)
1194	n.r.		SCUNTHORPE (L) Portable Antiquities Scheme SWYOR-9A 8378
1195	n.r.	[	England? EMC 2001.0541
1196	1.04 g		De MEERN (U) hoard 50
1197	1.18 g	[	KLOSTER BARTHE (Germany) hoard 255 ELM 106
1198	n.r.		England? Seaby CMB (1974) pl 66 H4528
1199	1.08 g	]	KLOSTER BARTHE (Germany) hoard 256 ELM 393
1200	1.13 g		KLOSTER BARTHE (Germany) hoard 257 ELM 269
1201	1.06 g	[	KLOSTER BARTHE (Germany) hoard 258 ELM 578
1202	0.53 g		DOMBURG (Z) 342 p 43
1203	1.02 g	]	England? SCBI 2-24 (Hunterian Museum) = Ruding (1840) pl I-7
1204	1.18 g		De MEERN (U) hoard 51
1205	0.82 g	[	De MEERN (U) hoard 52
1206	0.58 g		De MEERN (U) hoard 53
1207	0.81 g	]	De MEERN (U) hoard 54
1208	1.12 g		KLOSTER BARTHE (Germany) hoard 259 ELM 638
1209	1.33 g	[	KLOSTER BARTHE (Germany) hoard 260 ELM 195
1210	1.11 g		DENNINGTON (Sf) CR (1995) 85 = EMC 1995.0085
1211	n.r.	]	England? Seaby CMB (1980) pl 123 E504
1212	0.44 g		DOMBURG (Z) 365
1213	0.48 g	[	DOMBURG (Z) 366
1214	0.41 g		DOMBURG (Z) 367
1215	0.90 g	]	Unknown SCBI 30-79 (American collections)
1216	1.02 g		FOREST HILL (O) DMM
1217	1.29 g	[	KLOSTER BARTHE (Germany) hoard 261 ELM 533
1218	1.15 g		HALLUM (Fr) hoard De Haan (1866) 14 = Dirks (1870) C-9 p 131
1219	1.17 g	]	England? Auction Glendining (Nov. 1975) 338
1220	n.r.		Netherlands Auction Coin Investment (Nov. 1984) 349
1221	1.08 g	[	England? De Wit collection 101 = P. Finn list 15-47 ex Malcolm Shields
1222	n.r.		Netherlands? Auction De Geus 17 (2004) 381
1223	1.07 g	]	KLOSTER BARTHE (Germany) hoard 262 ELM 465
1224	0.90 g		KLOSTER BARTHE (Germany) hoard 263 ELM 268
1224	0.61 g	[	DOMBURG (Z) 353
1226	1.20 g		KLOSTER BARTHE (Germany) hoard 265 ELM 185
1227	1.20 g	]	KLOSTER BARTHE (Germany) hoard 266 ELM 545
1228	1.28 g		England? T&S 225 = EMC 1993.9225 'silver' (EPMA) 93% p 107
1229	1.27 g	[	Friesland Geldmuseum RE-22471
1230	n.r.		England? Seaby CMB (1979) p 136 E510
1231	1.11 g	]	DOMBURG (Z) 358
1232	1.17 g		ONGAR (Ess) EMC 2007.0325
1233	1.07 g	[	De MEERN (U) hoard 55
1234	1.10 g		WIJK-BIJ-DUURSTED (U) NUMIS 1060094
1235	0.97 g	]	De MEERN (U) hoard 56
1236	1.40 g		KLOSTER BARTHE (Germany) hoard 267 ELM 266
1237	1.08 g	[	DUNNINGTON (NRY) EMC 1998.0115
1238	1.07 g		SUDBOURNE (Sf) EMC 2008.0115

Die-corpus

1239	1.03 g	Netherlands De Wit collection 93 = sold by Holleman (1990)
1240	0.55 g	DOMBURG (Z) 388
1241	0.98 g	DOMBURG (Z) 355
1242	1.39 g	KLOSTER BARTHE (Germany) hoard 268 ELM 462
1243	0.98 g	
1244	1.11 g	LINTON (C) EMC 2007.0185
1245	1.1 g	LUTJE SAAKSUM (Gr) hoard Hill (1955) 18
1246	0.97 g	England? List Gillis (July 2007) WS 5093
1247	0.86 g	De MEERN (U) hoard 57
1248	0.85 g	DOMBURG (Z) 348
1249	1.24 g	LOUTH (L) (near) EMC 1985.0036 = Blackburn & Bonser 1985 pl 2-36 Unknown Metcalf (1969) Franceschi parcel 9 = T&S 238 'silver' (XRF) 76%
1250	1.40 g	Unknown Metcalf (1969) Franceschi parcel 2
1251	1. g	ROYSTON (Hrt) p.s. EMC 1989.5174
1252	1.31 g	KLOSTER BARTHE (Germany) hoard 270 ELM 400
1253	1.09 g	
1254	1.27 g	LUTJE SAAKSUM (Gr) hoard Hill (1955) 22
1255	0.91 g	SPALDING (L) p.s. EMC 1999.0211 = DMM LXXX
1256	1.14 g	England? British Museum 381 = Hill (1953) p 97
1257	1.14 g	WOODHAM WALTER (Ess) hoard British Museum 382
1258	1.13 g	KLOSTER BARTHE (Germany) hoard 271 ELM 319
1259	1.24 g	KLOSTER BARTHE (Germany) hoard 272 ELM 316
1260	1.24 g	KLOSTER BARTHE (Germany) hoard 273 ELM 180
1261	1.71 g	England? P. Finn list 4-23
1262	1.09 g	Netherlands? Geldmuseum RE-22454 (a lead cast)
1263	1.18 g	LUTJE SAAKSUM (Gr) hoard Hill (1955) 6
1264	1.10 g	KLOSTER BARTHE (Germany) hoard 274 ELM 235
1265	0.80 g	KLOSTER BARTHE (Germany) hoard 275 ELM 372
1266	1.01 g	England? Abramson collection E100
1267	0.61 g	England? British Museum 383 = Keary (1887) 68 = Metcalf (1966) 10
1268	1.04 g	Essex (north-west) p.s. Bonser & Carter (2008) fig 16
1269	1.10 g	KLOSTER BARTHE (Germany) hoard 276 ELM 186
1270	1.17 g	KLOSTER BARTHE (Germany) hoard 277 ELM 4
1271	1.15 g	KLOSTER BARTHE (Germany) hoard 278 ELM 3
1272	1.15 g	KLOSTER BARTHE (Germany) hoard 279 ELM 469
1273	0.98 g	KLOSTER BARTHE (Germany) hoard 280 ELM 197
1274	1.28 g	WOODHAM WALTER (Ess) hoard British Museum 384
1275	1.20 g	WOODHAM WALTER (Ess) hoard British Museum 385
1276	1.18 g	France? BNF K537
1277	1.27 g	KLOSTER BARTHE (Germany) hoard 119 ELM 29
1278	1.27 g	KLOSTER BARTHE (Germany) hoard 281 ELM 479
1279	1.23 g	KLOSTER BARTHE (Germany) hoard 282 ELM 48
1280	1.26 g	Unknown SCBI 30-88 (American coll.)
1281	1.18 g	Unknown SCBI 50-10 (Hermitage Museum)
1282	1.28 g	KLOSTER BARTHE (Germany) hoard 283 ELM 553
1283	1.34 g	KLOSTER BARTHE (Germany) hoard 284 ELM 477
1284	1.24 g	KLOSTER BARTHE (Germany) hoard 285 ELM 557
1285	n.r.	KLOSTER BARTHE (Germany) hoard 286 ELM 451
1286	n.r.	Netherlands? Auction Coin Investment 52 (1996) 653
1287	1.0 g	Friesland Ex collection Stephanik
1288	0.90 g	England? List Gillis (July 2007) WS 6155
1289	1.2 g	Unknown Auction J. Elsen 98 (Dec. 2008) 670
		ROSSUM (Gld) NUMIS 1024829

1290	1.46 g	KLOSTER BARTHE (Germany) hoard 287 ELM 514
1291	n.r.	KLOSTER BARTHE (Germany) hoard 288 Hill (1977) "Hanover hoard"
1292	1.32 g	England? SCBI 2-29 (Hunterian Museum)
1293	n.r.	EAST TILBURY (Ess) p.s. DMM
1294	1.11 g	De MEERN (U) hoard 58
1295	0.93 g	De MEERN (U) hoard 59
1296	0.89 g	De MEERN (U) hoard 60
1297	0.88 g	De MEERN (U) hoard 61
1298	0.87 g	De MEERN (U) hoard 62
1299	1.00 g	De MEERN (U) hoard 63
1300	1.24 g	SPALDING (L) p.s. DMM CXXII
1301	0.55 g	TARBAT (Scotland) EMC 1999.0147
1302	n.r.	Netherlands? Auction Coin Investment 37 (1991) 441

Sub-variety c not checked for die-identity

1303	0.63 g	BUREN (Gld) NUMIS 1006301
1304	0.49 g	DOMBURG (Z) 363
1305	0.43 g	DOMBURG (Z) 380
1306	0.25 g	DOMBURG (Z) 382
1307	0.72 g	DOMBURG (Z) 386
1308	0.88 g	DOMBURG (Z) 555
1309	0.58 g	DOMBURG (Z) 562
1310	0.77 g	DOMBURG (Z) 583
1311	0.66 g	EDWARDSTONE (Sf) CR (1987) 53 = EMC 197.0053
1312	0.91 g	England? SCBI 21-935 (Yorkshire collections)
1313	0.39 g	England? Metcalf (1993) 254
1314	0.68 g	FINCHAM (Nf) CR (2000) 55 = EMC 2000.0073
1315	1.02 g	FINCHAM (Nf) CR (2005) 85 = EMC 2004.0023
1316	0.91 g	JORWERD (Fr) NUMIS 1015375
1317	1.10 g	KILHAM (ERY) CR (1997) 64 = EMC 1997.0064
1318	0.43 g	MAASTRICHT (L) NUMIS 1017783
1319	1.07 g	RAUNDS (Np) CR (2006) 92
1320	0.43 g	SOUTHAMPTON (Ha) Metcalf (1988a) 14

Sub-variety d

1321	0.89 g	KLOSTER BARTHE (Germany) hoard 289 ELM 443
1322	1.04 g	KLOSTER BARTHE (Germany) hoard 290 ELM 192
1323	1.16 g	KLOSTER BARTHE (Germany) hoard 291 ELM 614
1324	1.16 g	England? T&S 221
1325	n.r.	EAST TILBURY (Ess) p.s. DMM
1326	0.93 g	DOMBURG (Z) 351
1327	n.r.	Marne (dépt.) (France) Lafaurie & Pilet-Lemière (2003) 51.000.2
1328	1.26 g	LUTJE SAAKSUM (Gr) hoard Hill (1955) 20
1329	1.25 g	LUTJE SAAKSUM (Gr) hoard Hill (1955) 9
1330	1.03 g	KLOSTER BARTHE (Germany) hoard 292 ELM 239
1331	0.86 g	LUTJE SAAKSUM (Gr) hoard Hill (1955) 3
1332	1.10 g	KLOSTER BARTHE (Germany) hoard 293 ELM 416
1333	0.85 g	De MEERN (U) hoard 64
1334	0.95 g	England? SCBI 2-45 (Hunterian Museum)
1335	0.80 g	De MEERN (U) hoard 65

1336	0.65 g	┌	De MEERN (U) hoard 66
1337	1.09 g	┌	WOODHAM WALTER (Ess) hoard British Museum 386
1338	1.39 g	┌	KLOSTER BARTHE (Germany) hoard 298 ELM 597
1339	1.20 g	┌	KLOSTER BARTHE (Germany) hoard 294 ELM 156
1340	0.73 g		DOMBURG (Z) 372
1341	1.31 g	┌	KLOSTER BARTHE (Germany) hoard 301 ELM 26
1342	1.43 g	┌	KLOSTER BARTHE (Germany) hoard 302 ELM 25
1343	1.17 g	┌	KLOSTER BARTHE (Germany) hoard 303 ELM 33
1344	1.21 g	┌	KLOSTER BARTHE (Germany) hoard 304 ELM 32
1345	1.29 g	┌	KLOSTER BARTHE (Germany) hoard 305 ELM 323
1346	0.64 g		DOMBURG (Z) 378
1347	0.35 g		DOMBURG (Z) 379
1348	1.22 g	┌	KLOSTER BARTHE (Germany) hoard 306 ELM 334
1349	1.12 g	┌	KLOSTER BARTHE (Germany) hoard 307 ELM 333
1350	0.79 g	┌	RIJSWIJK (Gld) Op den Velde (1982) 24 = NUMIS 1024751
1351	n.r.		DRIFFIELD (ERY) CR (1998) 75 = EMC 1998.0135
1352	1.02 g		THELNETHAM (Sf) CR (1998) 80 = EMC 1998.0012
1353	n.r.		CARISBROOKE (Wt) p.s. DMM XXII
1354	0.80 g	┌	ROYSTON (Hrt) p.s. Blackburn & Bonser (1986) 16
1355	1.0 g	┌	England? List Gillis (July 2007) WS 2142
1356	1.2 g	┌	WINCHESTER (Ha) CR (1992) 227 = EMC 1992.0227
1357	1.02 g	┌	LUTJE SAAKSUM (Gr) hoard Hill (1955) 11
1358	0.85 g	┌	BIDFORD-ON-AVON (Wa) p.s. DMM XXVI
1359	1.04 g	┌	BEUNINGEN (Gld) NUMIS 1044638
1360	0.82 g	┌	GRIMSTON (Nf) Abramson collection E175 = CR (2007) 126 = EMC 2007.0009
1361	1.07 g	┌	KLOSTER BARTHE (Germany) hoard 295 ELM 130
1362	n.r.		Unknown SCBI 37-3066 (Polish Museums)
1363	0.37 g		DOMBURG (Z) 376
1364	n.r.	┌	Friesland Auction F. Muller (1904) collection Stephanik 65
1365	1.15 g	┌	KLOSTER BARTHE (Germany) hoard 296 ELM 74
1366	1.30 g	┌	Unknown Metcalf (1969) Franceschi parcel 24
1367	n.r.		England? Ex Lockett collection
1368	1.09 g		KLOSTER BARTHE (Germany) hoard 297 ELM 57
1369	0.69 g		DOMBURG (Z) 373
1370	1.20 g		Unknown SCBI 36-17 (Berlin Museum)
1371	1.06 g		Unknown SCBI 50-11 (Hermitage Museum)
1372	1.21 g		LUTJE-SAAKSUM (Gr) hoard Hill (1955) 4
1373	0.54 g	┌	DOMBURG (Z) 377
1374	0.91 g	┌	KEMPSTON (Bd)? T&S 236 = EMC 1993.9236 'silver' (XRF) c. 95% p 163
1375	0.99 g		Unknown Metcalf (1969) Franceschi parcel 25
1376	1.08 g		MAINZ (Germany) Stoess (1994) 12
1377	0.9 g		England? List Gillis (July 2007) WS 5086
1378	0.80 g	┌	BIDFORD-ON-AVON (Wa) p.s. DMM XXIX
1379	0.87 g	┌	WOODHAM WALTER (Ess) hoard British Museum 387
1380	1.00 g		Friesland Geldmuseum RE-22478
1381	n.r.		England? P. Finn list 3-16
1382	1.09 g		SHALBOURNE (W) CR (1988) 116 = EMC 1988.0116
1383	0.83 g	┌	KLOSTER BARTHE (Germany) hoard 299 ELM 59
1384	0.95 g	┌	KLOSTER BARTHE (Germany) hoard 300 ELM 140
1385	1.22 g		England? T&S 223 'silver' (EPMA) 70%

1386	0.91 g	[	LUTJE SAAKSUM (Gr) hoard Hill (1955) 1
1387	1.10 g	[	LUTJE SAAKSUM (Gr) hoard Hill (1955) 13
1388	1.18 g		SPALDING (L) p.s. EMC 2005.0525
1389	n.r.	[]	RHENS (Germany) Communicated by J. Heinrichs p 291
1390	n.r.	[]	RHENS (Germany) Communicated by J. Heinrichs p 291
1391	1.38 g	[]	KLOSTER BARTHE (Germany) hoard 308 ELM 340
1392	1.27 g	[]	KLOSTER BARTHE (Germany) hoard 309 ELM 341
1393	1.11 g		KLOSTER BARTHE (Germany) hoard 310 ELM 364
1394	0.97 g	[]	England? P. Finn list 4-25 = 14-56
1395	1.20 g	[]	France? BNF D5076
1396	1.32 g		KLOSTER BARTHE (Germany) hoard 311 ELM 549
1397	1.09 g		KLOSTER BARTHE (Germany) hoard 312 ELM 376
1398	1.17 g		KLOSTER BARTHE (Germany) hoard 313 ELM 593
1399	1.17 g		BAKKUM (NH) NUMIS 1003794
1400	1.2 g	[]	England? Gillis (July 2007) WS 5092
1401	0.83 g	[]	DOMBURG (Z) 325
1402	1.10 g	[]	England? De Wit collection 108 = P. Finn list 16-49
1403	1.07 g	[]	Oxfordshire EMC 2006.0051
1404	1.21 g	[]	KLOSTER BARTHE (Germany) hoard 314 ELM 91
1405	1.14 g	[]	KLOSTER BARTHE (Germany) hoard 315 ELM 109
1406	1.23 g	[]	Unknown Metcalf (1969) Franceschi parcel 7
1407	0.99 g		WEST WALTON (Nf) CR (1998) 63 = EMC 1998.2063
1408	0.76 g		SOUTHAMTON (Ha) Metcalf (1988a) 13 = EMC 1998.9013 'silver' (EPMA) 46%
1409	1.00 g		FRANEKER hoard (Fr) LFM 365 = Dirks (1870) A-5
1410	1.07 g		HORNCastle (L) CR (2003/4) 79 = EMC 2000.0228
1411	0.59 g		DOMBURG (Z) 371
1412	1.47 g		Unknown SCBI 30-80 (American collections)
1413	0.56 g		DOMBURG (Z) 387
1414	0.43 g		DOMBURG (Z) 375
1415	n.r.		WIJNALDUM (Fr) NUMIS 1051738
1416	0.98 g		ROYSTON (Hrt) p.s. EMC 1986.0017
1417	1.32 g		England? British Museum 388 = Hill (1953) 96
1418	1.27 g	[]	KLOSTER BARTHE (Germany) hoard 316 ELM 499
1419	0.90 g	[]	DOMBURG (Z) 374
1420	0.94 g		GREAT MONGEHAM (K) CR (1993) 161 = EMC 1993.0161
1421	0.98 g	[]	SPALDING (L) p.s. EMC 1999.0208 = DMM LXXII
1422	n.r.	[]	YORK (Fishergate) A/Y 7/1 4292
1423	0.72 g		SPALDING (L) p.s. DMM LXXVIII = P. Finn list 18-42
1424	0.96 g		TIVETSHALL ST. MARY (Nf) CR (1997) 67 = EMC 1997.0067
1425	0.82 g		DOMBURG (Z) 418
1426	1.13 g		NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 30 = BNF MF0021
1427	1.08 g		MAINZ (Germany) Stoess (1994) 24
1428	1.05 g		HALLUM (Fr) hoard De Haan (1866) 13 = Dirks (1870) C-2 p 46
1429	0.92 g		Netherlands? Geldmuseum BM-17245
1430	1.26 g	[]	KLOSTER BARTHE (Germany) hoard 317 ELM 299
1431	1.22 g	[]	KLOSTER BARTHE (Germany) hoard 318 ELM 307
1432	1.28 g	[]	Unknown SCBI 30-81 (American collections)
1433	1.29 g	[]	KLOSTER BARTHE (Germany) hoard 319 ELM 387
1434	1.14 g	[]	De MEERN (U) hoard 67
1435	1.35 g	[]	KLOSTER BARTHE (Germany) hoard 320 ELM 402

1436	n.r.	]	PEINS (Fr) NUMIS 1051723
1437	1.12 g		KLOSTER BARTHE (Germany) hoard 321 ELM 489
1438	n.r.		ALFRISTON (Sx) CR (1998) 73 = EMC 1998.0130
1439	1.23 g		SPALDING (L) p.s. DMM CXXV
1440	0.67 g		DOMBURG (Z) 332
1441	1.03 g		MAURIK (Gld) Op den Velde (1982) 3 = NUMIS 1019377
1442	n.r.		SPALDING (L) DMM
1443	0.85 g		France? BNF 1988.0094
1444	1.27 g		KLOSTER BARTHE (Germany) hoard 322 ELM 555
1445	1.24 g		KLOSTER BARTHE (Germany) hoard 323 ELM 620
1446	1.40 g		KLOSTER BARTHE (Germany) hoard 324 ELM 547
1447	1.27 g		KLOSTER BARTHE (Germany) hoard 325 ELM 348
1448	1.00 g		England? Abramson collection E152
1449	n.r.		England? Seaby CMB (1978) p1 46-653
1450	1.10 g		LUTJE SAAKSUM (Gr) hoard Hill (1955) 2
1451	1.17 g		De MEERN (U) hoard 68
1452	n.r.		Netherlands? List Holleman list (1999) 500
1453	1.11 g		Unknown Metcalf (1969) Franceschi parcel 11 = Auction de Geus (Apr. 2004) 381
1454	1.11 g		GREAT GLEMHAM (Sf) CR (1998) 77 = EMC 1998.0123
1455	1.03 g		LUTJE SAAKSUM (Gr) hoard Hill (1955) 21
1456	1.25 g		KLOSTER BARTHE (Germany) hoard 326 ELM 409
1457	1.24 g		KLOSTER BARTHE (Germany) hoard 327 ELM 504
1458	1.19 g		KLOSTER BARTHE (Germany) hoard 328 ELM 214
1459	1.09 g		KLOSTER BARTHE (Germany) hoard 329 ELM 191
1460	1.33 g		KLOSTER BARTHE (Germany) hoard 330 ELM 482
1461	0.79 g		Unknown SCBI 36-24 (Berlin Museum)
1462	n.r.		Friesland Ex collection Stephanik
1463	n.r.		Netherlands? List Holleman 117 (1998) 475
1464	1.15 g		KLOSTER BARTHE (Germany) hoard 331 ELM 194
1465	1.27 g		KLOSTER BARTHE (Germany) hoard 332 ELM 527
1466	1.05 g		NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 42 = BNF MF0023
1467	0.6 g		SPALDING (L) p.s. EMC 2000.0522
1468	n.r.		YORK (Fishergate) Portable Antiquities Scheme A/Y 7/1 7477
1469	1.19 g		KLOSTER BARTHE (Germany) hoard 337 ELM 337
1470	1.10 g		KLOSTER BARTHE (Germany) hoard 338 ELM 249
1471	1.25 g		KLOSTER BARTHE (Germany) hoard 339 ELM 119
1472	1.34 g		KLOSTER BARTHE (Germany) hoard 340 ELM 223
1473	0.69 g		DOMBURG (Z) 556
1474	0.98 g		England? British Museum 389 = Hill (1953) 96
1475	1.37 g		KLOSTER BARTHE (Germany) hoard 341 ELM 591
1476	1.14 g		KLOSTER BARTHE (Germany) hoard 342 ELM 209
1477	1.04 g		KLOSTER BARTHE (Germany) hoard 343 ELM 433
1478	1.14 g		KLOSTER BARTHE (Germany) hoard 344 ELM 406
1479	1.27 g		KLOSTER BARTHE (Germany) hoard 345 ELM 437
1480	0.96 g		England? De Wit collection 92 = P. Finn list 5 (1995) 23
1481	1.14 g		MAURIK (Gld) Op den Velde (1982) 5 = NUMIS 1019379
1482	1.32 g		KLOSTER BARTHE (Germany) hoard 616 ELM 222
1483	1.19 g		KLOSTER BARTHE (Germany) hoard 617 ELM 279
1484	0.72 g		Unknown Auction J. Elsen 92 (June 2007) 560
1485	0.74 g		ELST (Gld) NUMIS 1011030

1486	1.48 g	[]	KLOSTER BARTHE (Germany) hoard 618 ELM 115
1487	1.11 g	[]	KLOSTER BARTHE (Germany) hoard 619 ELM 262
1488	n.r.		Netherlands? Auction Coin Investment 51 (1996) 287
1489	1.08 g		England? SCBI 24-240 (West Country Museums)
1490	1.38 g		KLOSTER BARTHE (Germany) hoard 349 ELM 592
1491	0.90 g		England? British Museum 390 = Hill (1953) p 96
1492	0.94 g		KLOSTER BARTHE (Germany) hoard 264 ELM 435
1493	0.95 g		France? BNF MF0127
1494	1.11 g	[]	KLOSTER BARTHE (Germany) hoard 346 ELM 285
1495	1.32 g	[]	KLOSTER BARTHE (Germany) hoard 347 ELM 284
1496	1.07 g	[]	KLOSTER BARTHE (Germany) hoard 348 ELM 271
1497	0.69 g	[]	STANFIELD BEETLEY (Nf) CR (1995) 81 = EMC 1995.0081
1498	n.r.		Netherlands? Auction de Geus (Sep. 2003) 445
1499	1.26 g	[]	TWYFORD (Wo) DMM p 168
1500	1.36 g	[]	England? T&S 226 (ex Lockett collection) 'silver' (EPMA) 69% p 168
1501	1.12 g		Unknown Metcalf (1969) Franceschi parcel 8 = T&S 237 'silver' (XRF) 86-88% p 46
1502	1.05 g		DOMBURG (Z) 341
1503	n.r.		FRANEKER (Fr) hoard? J. Schulman list 286 (Oct. 1988) 396
1504	n.r.	[]	HOUTEN (U) NUMIS 1051629
1505	1.12 g	[]	KLOSTER BARTHE (Germany) hoard 350 ELM 523
1506	0.65 g	[]	Unknown De Wit collection 89 = J. Elsen list 183 (1996) 275
1507	1.11 g	[]	KLOSTER BARTHE (Germany) hoard 351 ELM 71
1508	1.07 g	[]	KLOSTER BARTHE (Germany) hoard 352 ELM 212
1509	0.87 g		DOMBURG (Z) 558
1510	n.r.		DRIFFIELD (ERY) EMC 1998.0134
1511	1.02 g		BEDFORD (Bd) p.s. EMC 1990.5025
1512	0.88 g		WOODHAM WALTER (Ess) hoard British Museum 391
1513	0.92 g	[]	De MEERN (U) hoard 69
1514	0.88 g	[]	Yorkshire (ERY) CR (1998) 62 = EMC 1998.2062
1515	1.06 g	[]	KLOSTER BARTHE (Germany) hoard 353 ELM 68
1516	1.19 g	[]	KLOSTER BARTHE (Germany) hoard 354 ELM 60
1517	1.30 g	[]	KLOSTER BARTHE (Germany) hoard 355 ELM 388
1518	0.68 g	[]	DOMBURG (Z) 570
1519	0.58 g	[]	DOMBURG (Z) 571
1520	0.49 g		DOMBURG (Z) 561
1521	1.22 g		KLOSTER BARTHE (Germany) hoard 356 ELM 515
1522	1.23 g		KLOSTER BARTHE (Germany) hoard 357 ELM 608
1523	1.01 g		MAURIK (Gld) Op den Velde (1982) 6 = NUMIS 1019380
1524	0.90 g		England? Abramson collection E140
1525	1.10 g	[]	KLOSTER BARTHE (Germany) hoard 358 ELM 607
1526	1.13 g	[]	KLOSTER BARTHE (Germany) hoard 359 ELM 627
1527	1.17 g	[]	KLOSTER BARTHE (Germany) hoard 360 ELM 405
1528	0.66 g		De MEERN (U) hoard 70
1529	n.r.	[]	England? P. Finn list 4-27
1530	1.13 g	[]	ELST (Gld) NUMIS 1010904
1531	0.97 g		De MEERN (U) hoard 71
1532	0.28 g	[]	DOMBURG (Z) 566
1533	0.35 g	[]	DOMBURG (Z) 567
1534	0.83 g		De MEERN (U) hoard 72
1535	1.17 g	] ]	KLOSTER BARTHE (Germany) hoard 361 ELM 215

1536	0.99 g	]	KLOSTER BARTHE (Germany) hoard 362 ELM 205
1537	1.03 g		KLOSTER BARTHE (Germany) hoard 363 ELM 141
1538	0.77 g		Kent EMC 2006.0048
1539	0.86 g		WHISSONSETT (Nf) EMC 2007.0295
1540	1.17 g	[	KLOSTER BARTHE (Germany) hoard 364 ELM 642
1541	1.10 g		KLOSTER BARTHE (Germany) hoard 365 ELM 218
1542	0.52 g		RIBE (Denmark) Feveile (2006a) p 302 p 254-11
1543	n.r.		Netherlands Auction L. Schulman (Aug 1999) 450
1544	0.98 g		England? P. Finn list 10-28 = memorial list 31
1545	0.55 g		England? T&S 250 'silver' (EPMA) 77%
1546	0.65 g		WIJNALDUM (Fr) NUMIS 1034041
1547	0.89 g		NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 44 = BNF MF0031
1548	1.09 g		LEIDEN (ZH) NUMIS 1017194
1549	1.10 g		DOMBURG (Z) 560
1550	0.93 g		SAFFRON WALDEN (Ess) EMC 2001.0573
1551	0.93 g		Essex (north-west) p.s. Bonser & Carter (2008) fig 19
1552	0.64 g		HALLUM (Fr) hoard De Haan (1866) 19 = Dirks (1870) C-6 p 56
1553	0.7 g		GRIMSBY (L) EMC 1986.0104
1554	1.14 g	[]	DOMBURG (Z) 550
1555	0.65 g	[]	WESTENSCHOUWEN (Z) Op den Velde & Klaassen (2004) 958
1556	1.09 g	[]	FRANEKER (Fr) hoard LFM 431
1557	0.49 g		DOMBURG (Z) 552
1558	n.r.		Netherlands? Auction Coin Investment 37 (1991) 143
1559	1.06 g		BARHAM (Sf) p.s. British Museum 392
1560	0.47 g		DOMBURG (Z) 436
1561	1.20 g		KLOSTER BARTHE (Germany) hoard 366 ELM 250
1562	1.10 g	[]	KLOSTER BARTHE (Germany) hoard 367 ELM 752
1563	1.09 g	[]	KLOSTER BARTHE (Germany) hoard 368 ELM 537
1564	0.99 g	[]	KLOSTER BARTHE (Germany) hoard 369 ELM 528
1565	1.02 g	[]	WOODHAM WALTER (Ess) hoard British Museum 393
1566	1.19 g	[]	KLOSTER BARTHE (Germany) hoard 370 ELM 369
1567	0.85 g	[]	NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 45 = BNF MF0037
1568	0.75 g		SPALDING (L) p.s. DMM LXXXVII
1569	n.r.		LASHLEY WOOD (Ess) CR (2006) 88 = EMC 2005.0096
1570	0.78 g	[]	DOMBURG (Z) 594
1571	1.25 g	[]	Unknown Metcalf (1969) Franceschi parcel 34
1572	0.51 g		RIBE (Denmark) Feveile (2006a) p 301 p 254-9
1573	n.r.		Unknown Cabinet des médailles Brussels. Hill (c. 1974) BBR 13
1574	0.56 g		DOMBURG (Z) 576
1575	1.27 g		MALTON (NRY) De Wit collection 118 = Henzen (1996) = EMC 1986.5010
1576	0.98 g	[]	EWELME (O) SEC p 205, pl 10-3 = EMC 1984.0109
1577	0.91 g	[]	SLEAFORD (L) DMM p 46
1578	1.25 g		Unknown SCBI 36-13 (Berlin Museum)
1579	1.33 g		KLOSTER BARTHE (Germany) hoard 371 ELM 265
1580	0.68 g		DOMBURG (Z) 573
1581	1.24 g		KLOSTER BARTHE hoard 372 SCBI 36-14 (Berlin Museum)
1582	1.28 g		WOODHAM WALTER (Ess) hoard British Museum 394
1583	0.91 g		KERK-AVEZAATH (Gld) In private collection www.bonatiele.nl
1584	1.10 g	[]	KLOSTER BARTHE (Germany) hoard 373 ELM 225

1585	1.11 g	L]	DOMBURG (Z) 626
1586	0.88 g	] ]	BASTON (L) CR (2002) 99 = EMC 2001.0043
1587	0.96 g	] ]	ELTVILLE (Germany) Blaich (2006)
1588	0.6 g	] ]	WIJK-BIJ-DUURSTEDÉ (U) NUMIS 1033452 = Van der Chijs (1866) III-6
1589	0.93 g	[]	SKEGNESS (L) EMC 2001.0726
1590	n.r.	[]	England? P. Finn list 4-26
1591	0.86 g		HALLUM (Fr) hoard De Haan (1866) 20 = Dirks (1870) C-5 p 46
1592	1.11 g		Netherlands? Geldmuseum RE-22469
1593	n.r.		BERLIKUM (Fr) NUMIS 1052029
1594	n.r.		CODDENHAM (Sf) DMM
1595	0.80 g		England? P. Finn list 7-29 = list 13-48
1596	n.r.		RIBE (Denmark) Feveile (2006a) p 305 p 254-14
1597	0.70 g		MIDLUM (Fr) NUMIS 1020539
1598	0.41 g		RIBE (Denmark) Bendixen (1981) p 254-1
1599	0.37 g		RIBE (Denmark) Bendixen (1981) p 254-2
1600	0.73 g		SLEDMERE (ERY) p.s. Abramson collection E117
1601	n.r.		Netherlands? In private collection www.bonatiele.nl
1602	1.34 g		NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 47 = BNF MF0033
1603	1.12 g		France? BNF 20
1604	1.04 g		KLOSTER BARTHE (Germany) hoard 374 ELM 157
1605	1.21 g	[]	KLOSTER BARTHE (Germany) hoard 375 ELM 217
1606	1.00 g	[]	De MEERN (U) hoard 73
1607	0.77 g		WIJNALDUM (Fr) NUMIS 1034039
1608	0.82 g	[]	MAURIK (Gld) Op den Velde (1982) 7 = NUMIS 1019381
1609	0.82 g	[]	England? SCBI 20-332 (Mack collection)
1610	0.77 g		DOMBURG (Z) 577
1611	0.84 g		TWYFORD (Wo) CR (1990) 177 = EMC 1990.0177
1612	1.01 g		FÖHR (Germany) hoard 82 'silver' (EDXRF) 59% p 254
1613	0.82 g		NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 43 = BNF MF0029
1614	0.42 g		RIBE (Denmark) Feveile (2006a) p 289 p 254-3
1615	0.69 g		DOMBURG (Z) 421
1616	1.23 g		Unknown Metcalf (1969) Franceschi parcel 10
1617	0.80 g		England? Abramson collection E150
1618	0.69 g		DOMBURG (Z) 414
1619	0.83 g		BELTON (L) EMC 2001.0910

Sub-variety d not checked for die-identity

1620	0.42 g		DOMBURG (Z) 336
1621	0.69 g		DOMBURG (Z) 441
1622	0.42 g		DOMBURG (Z) 563
1623	0.81 g		DOMBURG (Z) 574
1624	0.62 g		DOMBURG (Z) 580
1625	0.58 g		DOMBURG (Z) 647
1626	1.08 g		Essex (north-west) p.s. Bonser & Carter (2008) fig 18
1627	0.67 g		England? SCBI 2-35 (Hunterian Museum)
1628	0.63 g		KERK-AVEZAATH (Gld) NUMIS 101633
1629	n.r.		Netherlands? In private collection www.bonatiele.nl
1630	n.r.		Netherlands? List Holleman (May 1991) 431
1631	n.r.		Netherlands Communicated by K. Faber
1632	n.r.		WALSUM (Germany) Stampfuß (1939)

Sub-variety e

1633	n.r.	[	BOER (Fr) NUMIS 1051722
1634	1.21 g	[	KLOSTER BARTHE (Germany) hoard 376 ELM 495
1635	0.99 g	[	De MEERN (U) hoard 74
1636	1.27 g	[]	KLOSTER BARTHE (Germany) hoard 377 ELM 495
1637	0.88 g	[]	De MEERN (U) hoard 75
1638	1.36 g	[]	KLOSTER BARTHE (Germany) hoard 378 ELM 487
1639	0.71 g		DOMBURG (Z) 422
1640	1.23 g		France? BNF 1984.1066
1641	0.79 g		DOMBURG (Z) 423
1642	1.09 g	[	Unknown SCBI 36-20 (Berlin Museum)
1643	1.	[]	ALDINGTON (K) EMC 1996.0094
1644	1.36 g	[]	KLOSTER BARTHE (Germany) hoard 379 ELM 617
1645	1.31 g	[]	KLOSTER BARTHE (Germany) hoard 380 ELM 458
1646	1.08 g	[]	KLOSTER BARTHE (Germany) hoard 381 ELM 618
1647	1.26 g	[]	England? T&S 246 = ex Lockett collection 'silver' (EPMA) 73%
1648	1.33 g	[]	KLOSTER BARTHE (Germany) hoard 382 ELM 556
1649	1.18 g	[]	KLOSTER BARTHE (Germany) hoard 383 ELM 417
1650	1.15 g	[]	KLOSTER BARTHE (Germany) hoard 384 ELM 517
1651	1.28 g	[]	KLOSTER BARTHE (Germany) hoard 385 ELM 219
1652	0.98 g	[]	KLOSTER BARTHE (Germany) hoard 386 ELM 579
1653	1.45 g	[]	KLOSTER BARTHE (Germany) hoard 387 ELM 120
1654	1.09 g	[]	KLOSTER BARTHE (Germany) hoard 388 ELM 245
1655	1.40 g	[]	KLOSTER BARTHE (Germany) hoard 389 ELM 595
1656	1.12 g	[]	KLOSTER BARTHE (Germany) hoard 390 ELM 371
1657	1.17 g	[]	KLOSTER BARTHE (Germany) hoard 391 ELM 511
1658	1.22 g	[]	NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 49 = BNF MF0039
1659	1.20 g	[]	Friesland Geldmuseum RE-22463
1660	1.18 g	[]	KLOSTER BARTHE (Germany) hoard 392 ELM 398
1661	n.r.	[]	KLOSTER BARTHE (Germany) hoard 393 Anton Ulrich Museum Braunschweig
1662	n.r.	[]	Netherlands? List De Geus (2001) 395
1663	0.99 g		OOSTERBIERUM (Fr) NUMIS 1022072
1664	1.01 g	[]	KLOSTER BARTHE (Germany) hoard 394 ELM 566
1665	1.10 g	[]	KLOSTER BARTHE (Germany) hoard 395 ELM 110
1666	0.92 g		DOMBURG (Z) 433
1667	1.02 g		BADLINGHAM (C) EMC 1998.0102
1668	0.82 g	[]	Unknown Auction J. Elsen 98 (Dec. 2008) 671 p 47
1669	1.21 g	[]	KLOSTER BARTHE (Germany) hoard 396 ELM 633
1670	1.08 g	[]	KLOSTER BARTHE (Germany) hoard 397 ELM 381
1671	1.24 g	[]	KLOSTER BARTHE (Germany) hoard 398 ELM 629
1672	1.19 g	[]	England? SCBI 21-936 (Yorkshire collections)
1673	1.10 g		England? www.wildwinds.com/coins 2008
1674	0.85 g	[]	BERLIKUM (Fr) NUMIS 1004607
1675	n.r.	[]	France? De Belfort (1892-95) 5847
1676	0.81 g	[]	HALE (L) DMM
1677	0.81 g	[]	Oxfordshire EMC 2006.0050
1678	0.92 g		WOODHAM WALTER (Ess) hoard British Museum 395
1679	1.34 g		KLOSTER BARTHE (Germany) hoard 399 ELM 107
1680	1.13 g	[]	KLOSTER BARTHE (Germany) hoard 400 ELM 494
1681	0.91 g	[]	Unknown Auction J. Elsen 89 (2006) 1143

1682	0.91 g	[]	England? British Museum 396
1683	1.20 g	[]	KLOSTER BARTHE (Germany) hoard 401 ELM 137
1684	1.03 g	[]	KLOSTER BARTHE (Germany) hoard 402 ELM 149
1685	1.20 g		Unknown SCBI 50-17 (Hermitage Museum)
1686	0.92 g		DOMBURG (Z) 428
1687	1.33 g		England? SCBI 2-28 (Hunterian Museum)
1688	0.97 g		Kent EMC 2005.0094
1689	1.03 g	[]	De MEERN (U) hoard 76
1690	0.99 g	[]	De MEERN (U) hoard 77
1691	n.r.		France? Lelewel (1835) pl III-20b
1692	0.74 g		DOMBURG (Z) 424 p 164
1693	1.06 g		De MEERN (U) hoard 78
1694	1.10 g		Unknown List J. Elsen 236 (2006) 370
1695	1.24 g		England? SCBI 48-158 (Northern Museums)
1696	1.02 g		De MEERN (U) hoard 79
1697	1.06 g		LAMBETH (Sr) hoard DMM p 129
1698	n.r.		England? Seaby CMB (1978) pl 69-E318
1699	1.20 g	[]	KLOSTER BARTHE (Germany) hoard 403 ELM 428
1700	n.r.	[]	Netherlands? List J. Schulman 260 (1975) 428 = Auction Coin Investment 52 (1997) 337
1701	1.29 g	[]	KLOSTER BARTHE (Germany) hoard 404 ELM 534
1702	1.24 g	[]	KLOSTER BARTHE (Germany) hoard 405 ELM 567
1703	1.1 g		England? List Gillis (Oct 2006) WS 1564 p 47
1704	1.01 g		England? British Museum 397 = Keary (1887) 71
1705	0.94 g		BIDFORD-ON-AVON (Wa) p.s. DMM XIV
1706	1.10 g	[]	KLOSTER BARTHE (Germany) hoard 406 ELM 363
1707	1.24 g	[]	KLOSTER BARTHE (Germany) hoard 407 ELM 380
1708	1.18 g	[]	KLOSTER BARTHE (Germany) hoard 408 ELM 700
1709	1.30 g	[]	KLOSTER BARTHE (Germany) hoard 409 ELM 204
1710	0.97 g	[]	England? De Wit collection 112 = P. Finn list 17-60
1711	1.13 g	[]	Friesland? Fries Museum Leeuwarden
1712	1.17 g	[]	KLOSTER BARTHE (Germany) hoard 410 ELM 132
1713	1.34 g	[]	KLOSTER BARTHE (Germany) hoard 411 ELM 541
1714	1.07 g	[]	De MEERN (U) hoard 80
1715	1.15 g	[]	De MEERN (U) hoard 81
1716	1.10 g	[]	De MEERN (U) hoard 82
1717	1.30 g	[]	KLOSTER BARTHE (Germany) hoard 412 ELM 529
1718	1.24 g	[]	KLOSTER BARTHE (Germany) hoard 413 ELM 456
1719	0.64 g		DOMBURG (Z) 416
1720	1.30 g	[]	LUTJE SAAKSUM (Gr) hoard Hill (1955) 17
1721	1.13 g	[]	LUTJE SAAKSUM (Gr) hoard Hill (1955) 19
1722	n.r.		England? Seaby CMB (1981) pl 91-E284
1723	1.34 g		England? Spink NC (Sep 1998) 5529
1724	0.97 g		De MEERN (U) hoard 83
1725	0.89 g	[]	DOMBURG (Z) 413
1726	n.r.	[]	Netherlands? Auction De Geus 16 (2003) 446
1727	1.11 g	[]	KLOSTER BARTHE (Germany) hoard 414 ELM 88
1728	0.90 g	[]	DOMBURG (Z) 420
1729	1.24 g		Unknown SCBI 50-15 (Hermitage Museum)
1730	1.20 g		England? Abramson collection E105
1731	1.31 g		possibly KLOSTER BARTHE (Germany) hoard SCBI 4-27 (Copenhagen Museum)

1732	1.41 g	[	KLOSTER BARTHE (Germany) hoard 415 ELM 463
1733	n.r.		England? Auction Glendining (1974) 106
1734	1.02 g	[	De MEERN (U) hoard 84
1735	0.95 g		DOMBURG (Z) 425 = Geldmuseum RE-22462
1736	1.08 g	[	De MEERN (U) hoard 85
1737	1.21 g		KLOSTER BARTHE (Germany) hoard 416 ELM 123
1738	1.29 g	[	KLOSTER BARTHE (Germany) hoard 417 ELM 574
1739	0.97 g		De MEERN (U) hoard 86
1740	1.20 g	[	De MEERN (U) hoard 87
1741	1.17 g		De MEERN (U) hoard 88
1742	1.03 g	[	England? British Museum 398 = Keary (1887) 70
1743	1.30 g		England? British Museum 399
1744	n.r.	[	DINGLEY (Nth) EMC 1977.0021
1745	1.26 g		KLOSTER BARTHE (Germany) hoard 418 ELM 138
1746	1.40 g	[	KLOSTER BARTHE (Germany) hoard 419 ELM 291
1747	1.15 g		KLOSTER BARTHE (Germany) hoard 420 ELM 290
1748	1.37 g	[	KLOSTER BARTHE (Germany) hoard 421 ELM 350
1749	1.31 g		KLOSTER BARTHE (Germany) hoard 422 ELM 210
1750	1.11 g	[	KLOSTER BARTHE (Germany) hoard 423 ELM 257
1751	1.12 g		KLOSTER BARTHE (Germany) hoard 424 ELM 124
1752	1.35 g	[	KLOSTER BARTHE (Germany) hoard 425 ELM 169
1753	1.23 g		KLOSTER BARTHE (Germany) hoard 426 ELM 211
1754	1.15 g	[	De MEERN (U) hoard 89
1755	1.15 g		KLOSTER BARTHE (Germany) hoard 464 ELM 464
1756	1.34 g	[	KLOSTER BARTHE (Germany) hoard 465 ELM 635
1757	0.93 g		England? List Vosper (Jan 2000) = SiEMC 1 Beowulf collection 40
1758	1.30 g	[	KLOSTER BARTHE (Germany) hoard 427 ELM 532
1759	n.r.		Netherlands? Auction L. Schulman (Nov. 1998) 451
1760	0.87 g	[	ROYSTON (Hrt) p.s. CR (1986) 18 = EMC 1986.0018
1761	1.24 g		France? BNF D6096
1762	1.18 g	[	England? Auction Sotheby (1913) Carlyon-Britton collection 159 = Metcalf (1966) p 204 p 40
1763	1.32 g		Unknown Metcalf (1969) Franceschi parcel 29
1764	1.30 g	[	Friesland Geldmuseum RE-22477
1765	1.26 g		KLOSTER BARTHE (Germany) hoard 43 ELM 42
1766	1.29 g	[	KLOSTER BARTHE (Germany) hoard 44 ELM 43
1767	1.32 g		KLOSTER BARTHE (Germany) hoard 45 ELM 585
1768	0.97 g	[	De MEERN (U) hoard 18
1769	1.04 g		De MEERN (U) hoard 16
1770	1.09 g	[	De MEERN (U) hoard 17
1771	1.40 g		possibly KLOSTER BARTHE hoard SCBI 4-29 (Copenhagen Museum)
1772	1.05 g	[	England? De Wit collection 113 = P. Finn list 12-44
1773	1.26 g		KLOSTER BARTHE (Germany) hoard 46 ELM 327
1774	1.24 g	[	KLOSTER BARTHE (Germany) hoard 47 ELM 328
1775	1.26 g		Unknown SCBI 30-85 (American collections)
1776	1.23 g	[	UPTON (O) EMC 1998.0060
1777	1.22 g		Unknown SCBI 50-13 (Hermitage Museum)
1778	0.72 g	[	France? BNF 21
1779	1.35 g		Unknown Metcalf (1969) Franceschi parcel 28 = T&S 244 'silver' (XRF) c. 80%
1780	1.29 g	[	KLOSTER BARTHE (Germany) hoard 52 ELM 483
1781	1.01 g		KLOSTER BARTHE (Germany) hoard 53 ELM 86

1782	1.24 g	KLOSTER BARTHE (Germany) hoard 54 ELM 108
1783	1.33 g	SPALDING (L) p.s. DMM CLVII = Abramson collection E680 = EMC 2006.0261
1784	1.11 g	SPALDING (L) p.s. DMM CLVI = Abramson collection E675 = EMC 2006.0260
1785	1.07 g	England? P. Finn list 11-25
1786	1.06 g	KLOSTER BARTHE (Germany) hoard 57 ELM 509
1787	1.08 g	England? T&S 216 = ex Lockett collection = EMC 1993.9216 'silver' (EPMA) 95%
1788	n.r.	BOYNTON (ERY) Abramson (2010) p 37 fig 28
1789	1.27 g	KLOSTER BARTHE (Germany) hoard 48 ELM 179 Unknown SCBI 50-14 (Hermitage Museum) KLOSTER BARTHE (Germany) hoard 49 ELM 639 KLOSTER BARTHE (Germany) hoard 50 ELM 354 CLIFFE (K) EMC 2007.0264 England? T&S 218 = EMC 1993.9218 'silver' (EPMA) 84% KEMPSTON (Bd)? T&S 217 = Metcalf (1966) 37 = EMC 1993.9217 'silver' (XRF) 84-87%
1790	1.38 g	
1791	1.04 g	
1792	1.05 g	
1793	1.2 g	
1794	0.86 g	
1795	0.91 g	

Sub-variety e not checked for die-identity

1796	0.90 g	ALFORD (L) CR (1996) 86 = EMC 1996.0086
1797	0.92 g	BOSHAM (Sx) Rigold & Metcalf (1986) 56 = EMC 1984.1033
1799	0.72 g	DOMBURG (Z) 415
1800	0.68 g	DOMBURG (Z) 417
1801	0.81 g	DOMBURG (Z) 427
1802	1.10 g	France? BNF D6095
1803	n.r.	Friesland Communicated by K. Faber
1804	1.07 g	WESTENSCHOUWEN (Z) Op den Velde & Klaassen (2004) 947

Sub-variety f

1805	n.r.	Netherlands? Auction L. Schulman (1994) 338 KLOSTER BARTHE (Germany) hoard 655 ELM 740 KLOSTER BARTHE (Germany) hoard 656 ELM 739 KLOSTER BARTHE (Germany) hoard 657 ELM 702 KLOSTER BARTHE (Germany) hoard 658 ELM 703 KLOSTER BARTHE (Germany) hoard 659 ELM 704 KLOSTER BARTHE (Germany) hoard 660 ELM 705 KLOSTER BARTHE (Germany) hoard 661 ELM 706 KLOSTER BARTHE (Germany) hoard 662 ELM 708 KLOSTER BARTHE (Germany) hoard 663 ELM 709 KLOSTER BARTHE (Germany) hoard 664 ELM 710 KLOSTER BARTHE (Germany) hoard 665 ELM 711 KLOSTER BARTHE (Germany) hoard 666 ELM 712 KLOSTER BARTHE (Germany) hoard 667 ELM 713 KLOSTER BARTHE (Germany) hoard 668 ELM 707 KLOSTER BARTHE (Germany) hoard 669 ELM 714 Unknown SCBI 30-91 (American collections) Friesland Auction F. Muller (1904) collection Stephanik 57 Friesland Auction F. Muller (1904) collection Stephanik 58 p 48 KLOSTER BARTHE (Germany) hoard 670 ELM 715 KLOSTER BARTHE (Germany) hoard 671 ELM 716
1806	1.20 g	
1807	1.21 g	
1808	1.19 g	
1809	1.33 g	
1810	1.36 g	
1811	1.35 g	
1812	1.30 g	
1813	1.40 g	
1814	1.30 g	
1815	1.25 g	
1816	1.21 g	
1817	1.21 g	
1818	1.39 g	
1819	1.28 g	
1820	1.33 g	
1821	1.30 g	
1822	n.r.	
1823	n.r.	
1824	1.30 g	
1825	1.08 g	

1826	1.25	g	KLOSTER BARTHE (Germany) hoard 672 ELM 717
1827	1.37	g	KLOSTER BARTHE (Germany) hoard 673 ELM 718
1828	1.31	g	KLOSTER BARTHE (Germany) hoard 674 ELM 719
1829	1.30	g	KLOSTER BARTHE (Germany) hoard 675 ELM 720
1830	1.29	g	KLOSTER BARTHE (Germany) hoard 676 ELM 721
1831	1.23	g	KLOSTER BARTHE (Germany) hoard 677 ELM 722
1832	1.35	g	KLOSTER BARTHE (Germany) hoard 678 ELM 723
1833	1.29	g	KLOSTER BARTHE (Germany) hoard 679 ELM 724
1834	1.27	g	KLOSTER BARTHE (Germany) hoard 680 ELM 725
1835	1.30	g	KLOSTER BARTHE (Germany) hoard 681 ELM 726
1836	1.32	g	KLOSTER BARTHE (Germany) hoard 682 ELM 727
1837	1.20	g	KLOSTER BARTHE (Germany) hoard 683 ELM 728
1838	1.33	g	KLOSTER BARTHE (Germany) hoard 684 ELM 729
1839	1.28	g	KLOSTER BARTHE (Germany) hoard 685 ELM 730
1840	1.32	g	KLOSTER BARTHE (Germany) hoard 686 ELM 731
1841	1.29	g	KLOSTER BARTHE (Germany) hoard 687 ELM 732
1842	1.48	g	KLOSTER BARTHE (Germany) hoard 688 ELM 733
1843	1.28	g	KLOSTER BARTHE (Germany) hoard 689 ELM 734
1844	1.25	g	KLOSTER BARTHE (Germany) hoard 690 ELM 748
1845	n.r.		KLOSTER BARTHE (Germany) hoard 691 Anton Ulrich Museum Braunschweig
1846	1.34	g	Unknown List J. Elsen (June 2006) 531 p 48
1847	1.24	g	England? SCBI 2-30 (Hunterian Museum)
1848	1.44	g	England? SCBI 1-240 (Fitzwilliam Museum) = MEC 659
1849	1.23	g	England? British Museum 400
1850	1.04	g	BEVERLEY (ERY) T&S 247 = EMC 1993.9247 'silver' (EPMA) 64%
1851	1.07	g	WIJNALDUM (Fr) NUMIS 1034043
1852	0.80	g	DOMBURG (Z) 447
1853	0.58	g	DOMBURG (Z) 448
1854	n.r.		OGBOURNE ST. ANDREW (W) DMM
1855	n.r.		SPALDING (L) p.s. DMM CXLIV = The Searcher (Sep 2003) p 67
1856	1.17	g	Norfolk (south) CR (1998) 64 = EMC 1998.2064
1857	1.30	g	KLOSTER BARTHE (Germany) hoard 692 ELM 357
1858	1.32	g	KLOSTER BARTHE (Germany) hoard 693 ELM 677
1859	1.23	g	KLOSTER BARTHE (Germany) hoard 694 ELM 678
1860	1.31	g	KLOSTER BARTHE (Germany) hoard 695 ELM 679
1861	1.25	g	KLOSTER BARTHE (Germany) hoard 696 ELM 680
1862	1.25	g	KLOSTER BARTHE (Germany) hoard 697 ELM 681
1863	1.28	g	KLOSTER BARTHE (Germany) hoard 698 ELM 682
1864	1.33	g	KLOSTER BARTHE (Germany) hoard 699 ELM 683
1865	1.32	g	KLOSTER BARTHE (Germany) hoard 700 ELM 684
1866	1.28	g	KLOSTER BARTHE (Germany) hoard 701 ELM 685
1867	1.27	g	KLOSTER BARTHE (Germany) hoard 702 ELM 686
1868	1.30	g	KLOSTER BARTHE (Germany) hoard 703 ELM 687
1869	1.29	g	KLOSTER BARTHE (Germany) hoard 704 ELM 688
1870	1.29	g	KLOSTER BARTHE (Germany) hoard 705 ELM 689
1871	1.23	g	KLOSTER BARTHE (Germany) hoard 706 ELM 690
1872	1.33	g	KLOSTER BARTHE (Germany) hoard 707 ELM 691
1873	1.32	g	KLOSTER BARTHE (Germany) hoard 708 ELM 692
1874	1.27	g	KLOSTER BARTHE (Germany) hoard 709 ELM 693
1875	n.r.		KLOSTER BARTHE (Germany) hoard 710 Anton Ulrich Museum Braunschweig

1876	1.30 g	|	KLOSTER BARTHE (Germany) hoard 711 ELM 676
1877	1.28 g		Netherlands? Geldmuseum RE-22470
1878	n.r.		France? De Belfort (1892-95) 5802
1879	1.26 g		Unknown SCBI 30-92 (American collections)
1880	1.30 g		Unknown SCBI 50-23 (Hermitage museum)
1881	1.27 g		Unknown SCBI 50-24 (Hermitage museum)
1882	1.26 g		England? De Wit collection 115 = Spink (1987) ex Grantley collection p 48
1883	0.60 g		DOMBURG (Z) 610
1884	1.00 g		DOMBURG (Z) 612
1885	1.27 g		BONN (Germany) Zedelius (1980) p 139
1886	1.18 g		Norfolk EMC 1993.0163 p 48
1887	0.95 g		DOMBURG (Z) 611
1888	1.10 g		De MEERN (U) hoard 112
1889	1.15 g		De MEERN (U) hoard 113
1890	1.22 g		De MEERN (U) hoard 114
1891	0.83 g		DOMBURG (Z) 613
1892	1.04 g		Hampshire (south) T&S 248
1893	1.12 g		DOMBURG (Z) 609
1894	1.34 g		KLOSTER BARTHE (Germany) hoard 712 ELM 736
1895	1.21 g	LUTJE SAAKSUM (Gr) hoard Hill (1955) 10 p 48	
1896	1.27 g	KLOSTER BARTHE (Germany) hoard 713 ELM 410	

Sub-variety g

1897	1.17 g	|	KLOSTER BARTHE (Germany) hoard 428 ELM 506
1898	1.07 g		KLOSTER BARTHE (Germany) hoard 429 ELM 221
1899	1.14 g		KLOSTER BARTHE (Germany) hoard 430 ELM 236
1900	1.16 g		KLOSTER BARTHE (Germany) hoard 431 ELM 232
1901	1.36 g		KLOSTER BARTHE (Germany) hoard 432 SCBI 4-32 (Copenhagen Museum)
1902	1.20 g		KLOSTER BARTHE (Germany) hoard 433 ELM 92
1903	1.20 g		KLOSTER BARTHE (Germany) hoard 434 ELM 506
1904	1.27 g		KLOSTER BARTHE (Germany) hoard 435 ELM 745
1905	1.22 g		LUTJE SAAKSUM (Gr) hoard Hill (1955) 23 p 49
1906	1.08 g		MERTON (Nf) CR (2006) 89 = EMC 2005.0117
1907	1.27 g		KLOSTER BARTHE (Germany) hoard 436 ELM 496
1908	1.30 g		KLOSTER BARTHE (Germany) hoard 437 ELM 148
1909	n.r.		Netherlands? List L. Schulman (Apr. 1988) 458
1910	1.34 g		KLOSTER BARTHE (Germany) hoard 438 ELM 150
1911	1.30 g		KLOSTER BARTHE (Germany) hoard 439 ELM 146
1912	n.r.		ISLE OF THANET (K) White (1756) No 15; Metcalf (1988b)
1913	1.26 g		KLOSTER BARTHE (Germany) hoard 440 ELM 96
1914	0.98 g		HALLUM (Fr) hoard De Haan (1866) 18 = Dirks (1870) C-4 p 131
1915	1.24 g		KLOSTER BARTHE (Germany) hoard 441 ELM 143
1916	1.28 g	KLOSTER BARTHE (Germany) hoard 442 ELM 467	
1917	1.08 g	EXTON (Ha) CR (2003) 83 = EMC 2003.0178	
1918	0.91 g	PEINS (Fr) NUMIS 1023789	
1919	1.26 g	England? SCBI 11-1 (Reading University)	
1920	1.24 g	KLOSTER BARTHE (Germany) hoard 443 ELM 202	
1921	1.28 g	KLOSTER BARTHE (Germany) hoard 444 ELM 82	
1922	1.17 g	OMMEREN (Gld) NUMIS 1021612	
1923	1.18 g	KLOSTER BARTHE (Germany) hoard 445 ELM 114 p 58	
1924	1.33 g	KLOSTER BARTHE hoard 446 Westfälisches Landesmuseum Münster, Laufaurie (1980) 14	

1925	1.26 g	[]	KLOSTER BARTHE (Germany) hoard 447 ELM 540	
1926	1.24 g		KLOSTER BARTHE (Germany) hoard 448 ELM 356	
1927	1.08 g		OOSTERBIERUM (Fr) NUMIS 1022074	
1928	1.28 g		KLOSTER BARTHE hoard 449 SCBI 36-9 (Berlin Museum)	
1929	1.19 g		De MEERN (U) hoard 90	
1930	1.28 g		[]	Netherlands? De Wit collection 111 = Auction Van der Dussen 22 (1994) 990
1931	1.24 g			De MEERN (U) hoard 91
1932	n.r.		[]	EWELME (O) DMM (2003)
1933	1.35 g			Friesland Geldmuseum RE-22461
1934	n.r.			SPORLE (Nf) CR (2000) 53 = EMC 2000.0050
1935	1.22 g		Unknown Metcalf (1969) Franceschi parcel 27 p 49	
1936	1.19 g		De MEERN (U) hoard 92	
1937	1.19 g		LUTJE SAAKSUM (Gr) hoard Hill (1955) 7	
1938	1.33 g		WOODHAM WALTER (Ess) hoard British Museum 401	
1939	1.02 g		EAST RUDHAM (Nf) CR (1997) 68 = EMC 1997.0068	
1940	1.23 g	[]	KLOSTER BARTHE (Germany) hoard 450 ELM 474	
1941	1.27 g		KLOSTER BARTHE (Germany) hoard 451 ELM 563	
1942	1.29 g		KLOSTER BARTHE (Germany) hoard 452 SCBI 36-8 (Berlin Museum)	
1943	1.29 g		KLOSTER BARTHE (Germany) hoard 453 ELM 81	
1944	1.14 g		England? List Spink (Oct. 2006)	
1945	1.32 g		[]	KLOSTER BARTHE (Germany) hoard 454 ELM 161
1946	1.29 g			KLOSTER BARTHE (Germany) hoard 455 ELM 485
1947	1.28 g		[]	KLOSTER BARTHE (Germany) hoard 456 ELM 111
1948	1.27 g			KLOSTER BARTHE (Germany) hoard 457 ELM 125
1949	1.28 g			KLOSTER BARTHE (Germany) hoard 458 SCBI 36-10 (Berlin Museum)
1950	1.19 g	[]	KLOSTER BARTHE (Germany) hoard 459 ELM 645	
1951	1.07 g		KLOSTER BARTHE (Germany) hoard 460 ELM 513	
1952	1.16 g	[]	KLOSTER BARTHE (Germany) hoard 461 ELM 587	
1953	1.40 g		Unknown Metcalf (1969) Franceschi parcel 30	
1954	0.73 g	[]	DOMBURG (Z) 665	
1955	1.23 g		KLOSTER BARTHE (Germany) hoard 51 ELM 413	
1956	0.43 g		KRINKBERG (Germany) Hatz (1989) 4 p 40	
1957	1.25 g		NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 50 = BNF MF0027	
1958	1.32 g	[]	KLOSTER BARTHE (Germany) hoard 462 ELM 425	
1959	1.14 g		NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 46 = BNF MF0035	
1960	1.09 g	[]	England? T&S 222 EMC 1993.9222 'silver' (XRF) 89%	
1961	1.44 g		KLOSTER BARTHE (Germany) hoard 463 ELM 201	
1962	1.00 g		SOUTHAMPTON (Ha) Metcalf (1988a) 11 = EMC 1988.9011 'silver' (EPMA) 87% p 107	
1963	1.07 g		De MEERN (U) hoard 93	
1964	1.30 g	[]	De MEERN (U) hoard 94	
1965	1.08 g		De MEERN (U) hoard 95	
1966	1.15 g		Unknown Metcalf (1969) Franceschi parcel 31	

Sub-variety h

1967	1.15 g		UPTON (O) EMC 1998.0059	
1968	1.28 g	[]	KLOSTER BARTHE (Germany) hoard 469 ELM 735	
1969	1.30 g		KLOSTER BARTHE (Germany) hoard 470 ELM 698	
1970	1.15 g		KLOSTER BARTHE (Germany) hoard 471 ELM 697	
1971	1.26 g		KLOSTER BARTHE (Germany) hoard 472 ELM 696	
1972	1.40 g		KLOSTER BARTHE (Germany) hoard 473 ELM 695	
1973	n.r.		CARISBROOKE (Wt) p.s. DMM XV	
1974	1.25 g			KLOSTER BARTHE (Germany) hoard 474 ELM 743

1975	1.31 g	}	KLOSTER BARTHE (Germany) hoard 475 ELM 744
1976	1.19 g		KLOSTER BARTHE (Germany) hoard 476 ELM 742
1977	n.r.	}	England? Ex Lockett collection
1978	1.22 g		England? SCBI 21-937 (Yorkshire collections)
1979	1.29 g	}	KLOSTER BARTHE (Germany) hoard 477 ELM 741
1980	n.r.		EAST TILBURY (Ess) p.s. DMM p 50
1981	1.29 g	}	Unknown SCBI 50-19 (Hermitage Museum)
1982	1.38 g		WOODHAM WALTER (Ess) hoard British Museum 402
1983	1.19 g	}	KLOSTER BARTHE (Germany) hoard 478 ELM 196
1984	1.05 g		GUÐME (Denmark) SEC pl 9-2 p 251
1985	1.05 g	}	England? Abramson collection E195 = List Vosper (Sep. 1994) = Beowulf collection 38
1986	1.01 g		NORTH MORETON (O) EMC 1997.0054 p 251
1987	n.r.	}	WEYMOUTH (Do) EMC 2007.0080
1988	1.17 g		KLOSTER BARTHE (Germany) hoard 479 ELM 344
1989	1.35 g	}	KLOSTER BARTHE (Germany) hoard 480 ELM 145
1990	1.16 g		STANTON ST JOHN (O) DMM IX
1991	1.16 g	}	England? British Museum 403 = Keary (1887) 56 = Metcalf (1966) 25
1992	1.28 g		KLOSTER BARTHE (Germany) hoard 481 ELM 314
1993	1.29 g	}	KLOSTER BARTHE (Germany) hoard 482 ELM 313
1994	1.26 g		KLOSTER BARTHE (Germany) hoard 483 ELM 312
1995	1.24 g	}	De MEERN (U) hoard 96
1996	1.08 g		IJZENDOORN (Gld) NUMIS 1015613
1997	1.27 g	}	KLOSTER BARTHE (Germany) hoard 484 ELM 51
1998	1.24 g		KLOSTER BARTHE (Germany) hoard 485 SCBI 36-15 (Berlin Museum)
1999	1.24 g	}	Unknown Auction J. Elsen 76 (Sep 2003) 1123
2000	1.12 g		Essex (north-west) p.s. Bonser & Carter (2008) fig 14
2001	1.25 g	}	England? P. Finn list 10-29
2002	1.28 g		Netherlands? Coin Find Card Index Geldmuseum Utrecht
2003	1.22 g	}	LUTJE SAAKSUM (Gr) hoard Hill (1955) 12
2004	1.08 g		England? SCBI 24-239 (West Country Museums)
2005	1.33 g	}	KLOSTER BARTHE (Germany) hoard 486 ELM 300
2006	1.35 g		KLOSTER BARTHE (Germany) hoard 487 ELM 308
2007	1.32 g	}	KLOSTER BARTHE (Germany) hoard 488 ELM 604
2008	1.34 g		England? De Wit collection 126 = Spink NC (1983) 3867
2009	1.07 g	}	DOMBURG (Z) 446
2010	0.85 g		DOMBURG (Z) 636
2011	n.r.	}	England? Ex Lockett collection
2012	1.20 g		England? SCBI 21-942 (Yorkshire collections)
2013	1.27 g	}	KLOSTER BARTHE (Germany) hoard 489 ELM 159
2014	1.37 g		KLOSTER BARTHE (Germany) hoard 490 ELM 358
2015	1.33 g	}	England? Auction Vecchi (June 1998) 116 p 50
2016	1.32 g		KLOSTER BARTHE (Germany) hoard 491 ELM 190
2017	1.25 g	}	possibly KLOSTER BARTHE hoard SCBI 4-28 (Copenhagen Museum)
2018	1.28 g		KLOSTER BARTHE (Germany) hoard 492 ELM 466
2019	1.27 g	}	KLOSTER BARTHE (Germany) hoard 493 ELM 163
2020	0.73 g		De MEERN (U) hoard 97
2021	n.r.	}	Groningen Communicated by G. Hovinga
2022	1.32 g		Friesland Geldmuseum RE-22466
2023	n.r.	}	England? Ex Lockett collection

2024	1.26 g	|	England? SCBI 21-938 (Yorkshire collections)
2025	1.29 g	|	KLOSTER BARTHE (Germany) hoard 494 ELM 166
2026	1.23 g	|	KLOSTER BARTHE (Germany) hoard 495 ELM 207
2027	1.21 g	|	KLOSTER BARTHE (Germany) hoard 496 ELM 577
2028	n.r.	|	Netherlands? In private collection www.bonatiele.nl
2029	1.20 g	|	Unknown SCBI 16-49 (Norweb collection)
2030	1.17 g	|	De MEERN (U) hoard 98
2031	1.1 g	|	Cambridgeshire Abramson collection E190 = CR (2005) 89 = EMC 2004.0120
2032	1.18 g	|	KLOSTER BARTHE (Germany) hoard 497 ELM 7
2033	1.29 g	|	KLOSTER BARTHE (Germany) hoard 498 ELM 8
2034	1.23 g	|	KLOSTER BARTHE (Germany) hoard 499 ELM 535
2035	1.28 g	|	KLOSTER BARTHE (Germany) hoard 500 ELM 395
2036	1.29 g	|	KLOSTER BARTHE (Germany) hoard 501 ELM 637
2037	1.23 g	|	Essex (north-west) EMC 2006.0052
2038	1.27 g	|	KLOSTER BARTHE (Germany) hoard 502 ELM 121
2039	1.28 g	|	England? SCBI 2-42 (Hunterian Museum)
2040	1.27 g	|	KLOSTER BARTHE (Germany) hoard 503 ELM 359
2041	n.r.	|	KLOSTER BARTHE (Germany) hoard 504 Anton Ulrich Museum Braunschweig
2042	1.21 g	|	KLOSTER BARTHE (Germany) hoard 505 ELM 501
2043	1.30 g	|	KLOSTER BARTHE (Germany) hoard 506 SCBI 36-6 (Berlin Museum)
2044	1.29 g	|	KLOSTER BARTHE (Germany) hoard 507 ELM 636
2045	1.23 g	|	KLOSTER BARTHE (Germany) hoard 508 ELM 546
2046	1.17 g	|	BIDFORD-ON-AVON (Wa) p.s. DMM XIX
2047	1.25 g	|	KLOSTER BARTHE (Germany) hoard 509 ELM 188 p 164
2048	0.79 g	|	Netherlands Geldmuseum RE-22475
2049	1.27 g	|	Unknown SCBI 36-11 (Berlin Museum)
2050	0.75 g	|	SCHALSUM (Fr) NUMIS 1027412
2051	1.30 g	|	KLOSTER BARTHE (Germany) hoard 510 ELM 102
2052	1.29 g	|	KLOSTER BARTHE (Germany) hoard 511 ELM 66
2053	1.31 g	|	KLOSTER BARTHE (Germany) hoard 512 ELM 565
2054	1.30 g	|	KLOSTER BARTHE (Germany) hoard 513 ELM 220
2055	1.31 g	|	Unknown SCBI 30-90 (American collections)
2056	1.30 g	|	KLOSTER BARTHE (Germany) hoard 514 ELM 446
2057	0.81 g	|	HECKINGTON (L) CR (2002) 98 = EMC 2001.0042
2058	1.19 g	|	England? T&S 233 = EMC 1993.9233
2059	1.28 g	|	KLOSTER BARTHE (Germany) hoard 515 ELM 424
2060	1.32 g	|	KLOSTER BARTHE (Germany) hoard 516 Richardson (1984) pl 12-2 = SCBI 48-159
2061	1.25 g	|	KLOSTER BARTHE (Germany) hoard 517 ELM 365
2062	1.28 g	|	Netherlands Geldmuseum BM-17242 = Metcalf (1966) 40
2063	1.28 g	|	Netherlands Geldmuseum RE-22474
2064	1.27 g	|	KLOSTER BARTHE (Germany) hoard 518 ELM 562
2065	1.20 g	|	KLOSTER BARTHE (Germany) hoard 519 ELM 580
2066	1.12 g	|	KLOSTER BARTHE (Germany) hoard 520 ELM 426
2067	1.26 g	|	KLOSTER BARTHE (Germany) hoard 521 ELM 434
2068	1.16 g	|	KLOSTER BARTHE (Germany) hoard 522 ELM 353
2069	1.26 g	|	KLOSTER BARTHE (Germany) hoard 523 ELM 519
2070	1.1 g	|	FINGRINGHOE (Ess) hoard Communicated by G. Williams p 288
2071	1.04 g	|	EGMOND-BINNEN (NH) NUMIS 1010691 = De Wit collection 120

2072	1.13 g	}	England? De Wit collection 121 = P. Finn list 11-26
2073	1.21 g		NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 29 = BNF MF0019
2074	1.09 g	}	Norfolk (west) Abramson collection E197 = EMC 2009.0039
2075	1.30 g		KLOSTER BARTHE (Germany) hoard 766 ELM 508
2076	1.30 g	}	Unknown Metcalf (1969) Franceschi parcel 18 = T&S 242 'silver' (EPMA) 88%
2077	1.25 g		Unknown Metcalf (1969) Franceschi parcel 19 = Auction J. Elsen 83 (2005) 1041
2078	1.28 g	}	KLOSTER BARTHE (Germany) hoard 524 ELM 208
2079	1.27 g		SCUNTHORPE (L) EMC 2001.5013
2080	1.09 g	}	England? List Cummings (May 1994) = Beowulf collection 41
2081	1.29 g		KLOSTER BARTHE (Germany) hoard 525 ELM 701
2082	1.23 g	}	KLOSTER BARTHE (Germany) hoard 526 ELM 122
2083	1.30 g		KLOSTER BARTHE (Germany) hoard 527 ELM 47
2084	1.39 g	}	KLOSTER BARTHE (Germany) hoard 528 ELM 126
2085	0.77 g		DOMBURG (Z) 631
2086	1.26 g	}	KLOSTER BARTHE (Germany) hoard 529 ELM 486
2087	n.r.		England? EMC 2001.0687
2088	1.21 g	}	OLD ROMNEY (K) EMC 1993.0157
2089	1.19 g		LUTJE SAAKSUM (Gr) hoard Hill (1955) 14
2090	1.23 g	}	KLOSTER BARTHE (Germany) hoard 530 ELM 19
2091	1.23 g		KLOSTER BARTHE (Germany) hoard 531 ELM 526
2092	1.32 g	}	KLOSTER BARTHE (Germany) hoard 532 ELM 20
2093	1.30 g		KLOSTER BARTHE (Germany) hoard 533 ELM 13
2094	1.23 g	}	KLOSTER BARTHE (Germany) hoard 534 ELM 22
2095	1.22 g		KLOSTER BARTHE (Germany) hoard 535 ELM 23
2096	1.21 g	}	KLOSTER BARTHE (Germany) hoard 536 ELM 24
2097	1.0 g		England? List Vosper (2004)
2098	1.09 g	}	DOMBURG (Z) 622
2099	n.r.		England? Seaby CMB (1981) pl 69-E201
2100	1.37 g	}	KLOSTER BARTHE (Germany) hoard 537 ELM 162
2101	1.21 g		KLOSTER BARTHE (Germany) hoard 538 ELM 569
2102	1.06 g	}	ISLE OF WIGHT (Wt) CR (1989) 67 = EMC 1989.0067
2103	1.00 g		DOMBURG (Z) 646
2104	1.02 g	}	England? Auction Sotheby (1913) Carlyon Britton collection 157c
2105	1.13 g		JORWERD (Fr) NUMIS 1015988
2106	1.20 g	}	WEST WYCOMBE (Bk) T&S 224 = EMC 1993.9224 'silver' (EPMA) 95% p 108
2107	1.17 g		Possibly KLOSTER BARTHE (Germany) hoard SCBI 36-19 (Berlin Museum)
2108	1.25 g	}	KLOSTER BARTHE (Germany) hoard 539 Richardson (1984) pl 12-1 = SCBI 48-157
2109	1.27 g		KLOSTER BARTHE (Germany) hoard 540 ELM 165
2110	1.17 g	}	De MEERN (U) hoard 99
2111	1.17 g		De MEERN (U) hoard 100
2112	0.95 g	}	De MEERN (U) hoard 101
2113	1.26 g		RIJSWIJK (Gld) Op den Velde (1982) 21 = NUMIS 1024752
2114	1.03 g	}	KLOSTER BARTHE (Germany) hoard 541 ELM 173
2115	1.26 g		KLOSTER BARTHE (Germany) hoard 542 ELM 559
2116	1.09 g	}	AYLESFORD (K) EMC 1985.0003
2117	1.18 g		SPALDING (L) p.s. DMM CIX
2118	1.25 g	}	Unknown Metcalf (1969) Franceschi parcel 21

2119	n.r.	[	KLOSTER BARTHE (Germany) hoard 543 Anton Ulrich Museum Braunschweig
2120	1.06 g	[	MIDLUM (Fr) NUMIS 1020540
2121	1.29 g	[	KLOSTER BARTHE (Germany) hoard 544 ELM 588
2122	1.05 g	[	De MEERN (U) hoard 102
2123	1.09 g	[	WELBOURN (L) CR (2006) 93 = EMC 2006.0041
2124	1.10 g	[	DÜREN (Germany) Zedelius (1980)
2125	1.04 g	[	FOULSHAM (Nf) CR (2007) 124 = EMC 2006-0388
2126	n.r.	[	England? Auction Glendining (1974) 107
2127	1.22 g	[	Unknown Metcalf (1969) Franceschi parcel 33 = T&S 245 'silver' (EPMA) 84%
2128	1.24 g	[	KLOSTER BARTHE (Germany) hoard 545 ELM 622
2129	1.32 g	[	KLOSTER BARTHE (Germany) hoard 546 ELM 183
2130	1.28 g	[	Unknown Metcalf (1969) Franceschi parcel 20
2131	1.08 g	[	De MEERN (U) hoard 103
2132	1.30 g	[	England? SCBI 16-50 (Norweb collection)
2133	1.23 g	[	KLOSTER BARTHE (Germany) hoard 547 ELM 472
2134	1.27 g	[	KLOSTER BARTHE (Germany) hoard 548 ELM 142
2135	1.26 g	[	KLOSTER BARTHE (Germany) hoard 549 ELM 624
2136	1.30 g	[	KLOSTER BARTHE (Germany) hoard 550 ELM 473
2137	1.27 g	[	KLOSTER BARTHE (Germany) hoard 551 ELM 460
2138	1.29 g	[	KLOSTER BARTHE (Germany) hoard 552 ELM 444
2139	1.23 g	[	KLOSTER BARTHE (Germany) hoard 553 ELM 445
2140	1.18 g	[	KLOSTER BARTHE (Germany) hoard 559 ELM 50
2141	1.20 g	[	SPALDING (L) p.s. Abramson coll. E800 = CR (2007) 47 = EMC 1997.0066
2142	1.2 g	[	FINGRINGHOE (Ess) hoard Communicated by G. Williams p 288
2143	0.85 g	[	KERK-AVEZAATH (Gld) In private collection www.bonatiele.nl = NUMIS 1016353
2144	1.17 g	[	CHRISHALL (Ess) EMC 1996.0088
2145	n.r.	[	Netherlands Auction Coin Investment 47/48 (1994) 194
2146	1.27 g	[	KLOSTER BARTHE (Germany) hoard 554 ELM 54
2147	1.27 g	[	KLOSTER BARTHE (Germany) hoard 555 ELM 561
2148	1.13 g	[	England? De Wit collection 125 = P. Finn (1997)
2149	0.77 g	[	NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 32 = BNF MF0061
2150	1.13 g	[	BEKESBOURNE (K) EMC 1998.0136
2151	1.18 g	[	VECHTEN (U) NUMIS 1032068
2152	1.28 g	[	KLOSTER BARTHE (Germany) hoard 556 ELM 749
2153	1.15 g	[	De MEERN (U) hoard 104
2154	1.22 g	[	KLOSTER BARTHE (Germany) hoard 557 ELM 2
2155	1.20 g	[	KLOSTER BARTHE (Germany) hoard 558 ELM 1
2156	1.29 g	[	Unknown Metcalf (1969) Franceschi parcel 22
2157	0.90 g	[	FÖHR (Germany) hoard 65 'silver' (EDXRF) 49%
2158	1.31 g	[	KLOSTER BARTHE (Germany) hoard 714 ELM 649
2159	1.33 g	[	KLOSTER BARTHE (Germany) hoard 715 ELM 650
2160	1.25 g	[	KLOSTER BARTHE (Germany) hoard 716 ELM 651
2161	1.19 g	[	KLOSTER BARTHE (Germany) hoard 717 ELM 652
2162	1.22 g	[	KLOSTER BARTHE (Germany) hoard 718 ELM 653
2163	1.30 g	[	KLOSTER BARTHE (Germany) hoard 719 ELM 654
2164	1.30 g	[	KLOSTER BARTHE (Germany) hoard 720 ELM 655
2165	1.31 g	[	KLOSTER BARTHE (Germany) hoard 721 ELM 656

2166	1.40 g	KLOSTER BARTHE (Germany) hoard 722 ELM 657
2167	0.91 g	KLOSTER BARTHE (Germany) hoard 723 ELM 658
2168	1.32 g	KLOSTER BARTHE (Germany) hoard 724 ELM 659
2169	1.33 g	KLOSTER BARTHE (Germany) hoard 725 ELM 660
2170	1.32 g	KLOSTER BARTHE (Germany) hoard 726 ELM 661
2171	1.24 g	KLOSTER BARTHE (Germany) hoard 727 ELM 662
2172	1.24 g	KLOSTER BARTHE (Germany) hoard 728 ELM 663
2173	1.57 g	KLOSTER BARTHE (Germany) hoard 729 ELM 664
2174	1.34 g	KLOSTER BARTHE (Germany) hoard 730 ELM 665
2175	1.28 g	KLOSTER BARTHE (Germany) hoard 731 ELM 666
2176	1.21 g	KLOSTER BARTHE (Germany) hoard 732 ELM 667
2177	1.35 g	KLOSTER BARTHE (Germany) hoard 733 ELM 668
2178	1.36 g	KLOSTER BARTHE (Germany) hoard 734 ELM 669
2179	1.23 g	KLOSTER BARTHE (Germany) hoard 735 ELM 670
2180	1.33 g	KLOSTER BARTHE (Germany) hoard 736 ELM 671
2181	1.37 g	KLOSTER BARTHE (Germany) hoard 737 ELM 672
2182	1.32 g	KLOSTER BARTHE (Germany) hoard 738 ELM 673
2183	1.35 g	KLOSTER BARTHE (Germany) hoard 739 ELM 674
2184	1.32 g	KLOSTER BARTHE (Germany) hoard 740 ELM 675
2185	1.22 g	KLOSTER BARTHE (Germany) hoard 741 WLM Berghaus (1980) 15
2186	1.40 g	KLOSTER BARTHE (Germany) hoard 742 ELM 648
2187	1.22 g	Unknown SCBI 50-22 (Hermitage Museum)
2188	n.r.	England? SCBI 42-476 (South-eastern Museums) p 50
2189	1.32 g	England? SCBI 2-41 (Hunterian Museum)
2190	1.40 g	England? British Museum 404
2191	0.85 g	Wiltshire EMC 2005.0091
2192	1.22 g	KLOSTER BARTHE (Germany) hoard 560 ELM 438
2193	1.11 g	KLOSTER BARTHE (Germany) hoard 561 ELM 286
2194	1.32 g	KLOSTER BARTHE (Germany) hoard 562 ELM 287
2195	1.18 g	De MEERN (U) hoard 105
2196	0.97 g	MIDHALM (Fr) NUMIS 1020511
2197	0.96 g	England? SCBI 2-44 (Hunterian Museum)
2198	1.21 g	DOMBURG (Z) 445
2199	1.36 g	KLOSTER BARTHE (Germany) hoard 563 ELM 131
2200	1.25 g	Unknown SCBI 50-16 (Hermitage Museum)
2201	n.r.	UPTON (O) EMC 1999.0018
2202	1.09 g	KLOSTER BARTHE (Germany) hoard 564 ELM 442
2203	1.29 g	KLOSTER BARTHE (Germany) hoard 565 ELM 87
2204	1.15 g	De MEERN (U) hoard 106
2205	1.14 g	KLOSTER BARTHE (Germany) hoard 566 ELM 118
2206	1.24 g	KLOSTER BARTHE (Germany) hoard 567 ELM 293
2207	1.23 g	KLOSTER BARTHE (Germany) hoard 568 ELM 40
2208	1.24 g	KLOSTER BARTHE (Germany) hoard 569 ELM 41
2209	1.25 g	KLOSTER BARTHE (Germany) hoard 570 ELM 292
2210	1.19 g	England? Auction Classical Numismatic Group (March 1997) 2879
2211	1.35 g	England? T&S 214 'silver' (EPMA) 94% p 106
2212	1.14 g	BINSEY (O) T&S 215 = NC (1966) 43 = EMC 1993.9215 'silver' (EPMA) 91% p 106
2213	1.24 g	De MEERN (U) hoard 106A
2214	1.05 g	DOMBURG (Z) 443
2215	1.16 g	KLOSTER BARTHE (Germany) hoard 571 ELM 36
2216	1.10 g	KLOSTER BARTHE (Germany) hoard 572 ELM 34

2217	1.34 g	[]	KLOSTER BARTHE (Germany) hoard 573 ELM 35
2218	0.99 g		DOMBURG (Z) 444
2219	n.r.		CORFE CASTLE (Do) EMC 2003.0002
2220	1.00 g		Unknown Cabinet des médailles Brussels. Hill (c. 1974) BBR 17
2221	1.07 g		De MEERN (U) hoard 107
2222	0.97 g	[]	KLOOSTER LIDLUM (Fr) NUMIS 1042365
2223	1.12 g		De MEERN (U) hoard 108
2224	1.29 g	[]	KLOSTER BARTHE (Germany) hoard 574 ELM 621
2225	1.00 g		WIJK-BIJ-DUURSTEDE (U) NUMIS 1033638
2226	1.23 g		KLOSTER BARTHE (Germany) hoard 575 ELM 421
2227	1.17 g		KLOSTER BARTHE hoard 576 SCBI 36-18 (Berlin Museum)
2228	1.29 g		KLOSTER BARTHE hoard 577 SCBI 36- 7 (Berlin Museum)
2229	1.09 g		SPALDING (L) p.s. DMM LXX = P. Finn list 18-45 = EMC 1999.0206

Sub-variety h not checked for die-identity

2230	1.05 g	DOMBURG (Z) 630
2231	0.78 g	WALTHAM ABBEY (Ess) SEC p 198

Sub-variety i

2232	1.24 g	[]	KLOSTER BARTHE (Germany) hoard 578 ELM 79
2233	1.06 g		DOMBURG (Z) 593
2234	0.92 g	[]	YORK (east of) Abramson coll. E136 = CR (2007) 125 = EMC 2007.0008
2235	1.18 g		KLOSTER BARTHE (Germany) hoard 579 ELM 571
2236	1.44 g		KLOSTER BARTHE (Germany) hoard 580 ELM 63
2237	1.03 g		NETTLETON (L) EMC 2003.0031
2238	1.00 g		France? BNF D5079
2239	1.01 g		KINGS LYNN (Nf) hoard T&S p 230 p 129
2240	1.19 g		KLOSTER BARTHE (Germany) hoard 582 ELM 558
2241	1.11 g	[]	KLOSTER BARTHE (Germany) hoard 583 ELM 53
2242	1.10 g		Unknown SCBI 50-21 (Hermitage Museum)
2243	1.0 g		WEST RUDHAM (Nf) EMC 1995.0080
2244	n.r.		BARKING (Ess) Abbey excavation DMM
2245	1.36 g	[]	KLOSTER BARTHE (Germany) hoard 584 ELM 360
2246	1.13 g		England? SCBI 2-31 (Hunterian Museum)
2247	1.27 g		KLOSTER BARTHE (Germany) hoard 585 ELM 502
2248	1.07 g		ROUNDS (Nth) CR (2007) 108 = EMC 2006.0081
2249	1.02 g		KLOSTER BARTHE (Germany) hoard 586 ELM 390
2250	0.83 g		KLOSTER BARTHE (Germany) hoard 587 ELM 594
2251	1.29 g	[]	KLOSTER BARTHE (Germany) hoard 588 ELM 65
2252	1.29 g		KLOSTER BARTHE (Germany) hoard 589 ELM 154
2253	1.29 g		KLOSTER BARTHE (Germany) hoard 590 ELM 599
2254	n.r.		England? List Gillis (2004)
2255	0.96 g		KLOSTER BARTHE (Germany) hoard 591 ELM 345
2256	1.21 g		KLOSTER BARTHE (Germany) hoard 592 ELM 127
2257	1.29 g	[]	KLOSTER BARTHE (Germany) hoard 593 ELM 750
2258	1.27 g		KLOSTER BARTHE (Germany) hoard 594 ELM 461
2259	n.r.		KLOSTER BARTHE (Germany) hoard 595 Anton Ulrich Museum Braunschweig
2260	1.15 g	[]	KLOSTER BARTHE (Germany) hoard 596 ELM 49
2261	0.88 g		SPALDING (L) p.s. DMM CXLV = Abramson collection E137 = EMC 2006.0257 p 51

2262	1.29 g	[]	KLOSTER BARTHE (Germany) hoard 597 ELM 589
2263	1.17 g		KLOSTER BARTHE (Germany) hoard 598 ELM 164
2264	n.r.		Friesland In private collection
2265	1.22 g	[]	KLOSTER BARTHE (Germany) hoard 333 ELM 95
2266	1.29 g		KLOSTER BARTHE (Germany) hoard 334 ELM 224
2267	1.25 g		Friesland Fries Museum Leeuwarden
2268	0.93 g		Unknown Auction J. Elsen 97 (Sep. 2008) 591
2269	1.24 g		KLOSTER BARTHE (Germany) hoard 335 ELM 503
2270	0.90 g		KLOSTER BARTHE (Germany) hoard 336 ELM 276
2271	1.31 g		KLOSTER BARTHE (Germany) hoard 466 ELM 199
2272	0.92 g		KLOSTER BARTHE (Germany) hoard 467 ELM 174
2273	1.36 g		KLOSTER BARTHE (Germany) hoard 468 ELM 507
2274	n.r.		RIBE (Denmark) Feveile (2006a) p 305 p 254-15
2275	1.21 g	[]	WESTON (Hrt) CR (1988) 114 = EMC 1988.0114
2276	1.19 g		FINCHAM (Nf) CR (2000) 54 = EMC 2000.0072
2277	1.00 g		England? Abramson collection E172
2278	1.12 g		NORTH WALTHAM (Ha) CR (2000) 52 = EMC 2000.0032
2279	0.97 g		RUSKINGTON (L) CR (2003) 85 = EMC 2003.0224
2280	1.10 g		DOMBURG (Z) 592 = Dirks (1870) E-1 = De Belfort (1892-95) 5845
2281	0.9 g	[]	MELTON ROSS (L) EMC 2001.0869
2282	n.r.		England? P. Finn list 5-20
2283	n.r.		WATTON-AT-STONE (Hrt) DMM
2284	0.47 g	[]	DOMBURG (Z) 442
2285	1.01 g		England? P. Finn list 17-59
2286	0.70 g		Norfolk Abramson collection E135 p 51

Sub-variety h not checked for die-identity

2287	n.r.	Bourogne (Territoire de Belfort) Lafaurie & Pilet-Lemière (2003) 90.17b
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Sub-variety k

2288	0.98 g	DOMBURG (Z) 624
2289	0.82 g	SOUTH HEIGHTON (Sx) EMC 1987.0065
2290	1.02 g	KLOSTER BARTHE (Germany) hoard 599 ELM 177
2291	1.34 g	KLOSTER BARTHE (Germany) hoard 600 ELM 226
2292	n.r.	Netherlands? Auction L. Schulman (Nov. 2003) 675
2293	0.80 g	Unknown SCBI 50-18 (Hermitage Museum)
2294	1.0 g	SLEDMERE (ERY) p.s. Abramson collection E155
2295	n.r.	England? EMC 2001.0688
2296	1.00 g	Netherlands? De Wit collection 94 = sold by Holleman (1989)
2297	1.37 g	England? T&S 256 'silver' (EPMA) 90%
2298	0.78 g	WOODHAM WALTER (Ess) hoard British Museum 405
2299	n.r.	Netherlands? Auction Coin Investment 47/8 (1997) 195
2300	0.87 g	Netherlands? De Wit collection 99 = sold by Holleman (1990)
2301	n.r.	IJZENDOORN (Gld) NUMIS 1015612
2302	n.r.	BINNINGTON (NRY) EMC 2001.0819
2303	0.72 g	DOMBURG (Z) 657 = De Belfort (1892-95) 5846 = Metcalf (1966) 34
2304	1.00 g	LONDON British Museum 406
2305	0.89 g	OOSTERBIERUM (Fr) NUMIS 105974
2306	0.84 g	DOMBURG (Z) 663 = Metcalf (1966) 35
2307	1.13 g	NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 51 = BNF MF0043

2308	1.1 g		KINGSTON DEVERILL (W) CR (2002) 100 = EMC 2001.0050
2309	0.94 g	[]	DOMBURG (Z) 661
2310	0.76 g		BARRINGTON (C) EMC 1986.8662 = MEC 662 = Metcalf (1966) 38
2311	0.90 g		England? MEC 663 'silver' (XRF) 88% p 107
2312	0.62 g		VEN-ZELDERHEIDE (L) NUMIS 1032212
2313	0.7 g		BAD MÜNSTER AM STEIN (Germany) Communicated by J. Heinrichs
2314	0.96 g		KLOSTER BARTHE 56 ELM 544
2315	1.07 g		SPALDING (L) p.s. EMC 1999.0210 = DMM LXXIV = P. Finn list 18-40
2316	0.95 g		KLOSTER BARTHE (Germany) hoard 55 ELM 248
2317	0.91 g		KLOSTER BARTHE (Germany) hoard 42 ELM 379
2318	0.92 g		MAURIK (Gld) Op den Velde (1982) 10 = NUMIS 1019375
2319	1.01 g	[]	England? P. Finn list 5-22 = 13-45 p 40
2320	n.r.		OXFORD (O) CR (1998) 79 = EMC 1998.0132
2321	0.62 g		DOMBURG (Z) 590
2322	n.r.		RIBY (L) DMM II
2323	1.02 g		WOODHAM WALTER (Ess) hoard British Museum 407
2324	n.r.		DORCHESTER (O) Metcalf (1966) 45
2325	0.87 g		SPALDING (L) p.s. EMC 2000.0535
2326	0.92 g		England? P. Finn list 12-47
2327	0.81 g		FÖHR (Germany) hoard 86 'silver' (EDXRF) 57% p 254
2328	1.23 g	[]	KLOSTER BARTHE (Germany) hoard 39 ELM 699
2329	1.20 g		KLOSTER BARTHE (Germany) hoard 40 ELM 294
2330	1.16 g		De MEERN (U) hoard 15
2331	1.11 g		KLOSTER BARTHE (Germany) hoard 41 ELM 254
2332	0.67 g		WIJNALDUM (Fr) NUMIS 1034013
2333	n.r.		DRIFFIELD (ERY) CR (2007) 121 = EMC 2006.0364
2334	0.91 g		GALGENBERG (Germany) Werner (1935) 162
2335	0.9 g		England? List Gillis (July 2007) WS 5096
2336	1.07 g		WOODHAM WALTER (Ess) hoard British Museum 408
2337	1.32 g		GRINGLEY-ON-THE-HILL (Nt) Abramson collection E212
2338	1.07 g		FÖHR (Germany) hoard 62 'silver' (RF) 67%
2339	1.21 g		BURGH LE MARSH (L) Metcalf (1984) p 197 = EMC 1984.0106
2340	1.24 g	[]	KLOSTER BARTHE (Germany) hoard 581 ELM 64
2341	1.16 g		De MEERN (U) hoard 109
2342	0.9 g		England? List Gillis (July 2007) WS 5097
2343	0.60 g		England? Abramson collection E153
2344	0.94 g		MAURIK (Gld) Op den Velde (1982) 8 = NUMIS 1019373
2345	0.89 g		FÖHR (Germany) hoard 85 'silver' (EDXRF) 68% p 254
2346	n.r.		BERGEYK (NBr) NUMIS 1004584
2347	1.17 g		Unknown Metcalf (1969) Franceschi parcel 16 'silver' (XRF) c. 83%
2348	0.86 g		CLIFFE (K) www.findsdatabase.org.uk 678 = EMC 1987.0054
2349	0.84 g		De MEERN (U) hoard 110
2350	n.r.		Netherlands? Auction De Geus (Oct. 2001) 184
2351	0.51 g		DIETERSHEIM (Germany) Werner (1935) no. 163
2352	n.r.		DRACHTEN (Fr) NUMIS 1065626
2353	0.99 g		Unknown SCBI 36-22 (Berlin Museum)
2354	0.90 g		England? De Wit collection 95 = P. Finn list 6-34 p 172
2355	n.r.		LONDON DMM p 172
2356	0.89 g		Unknown. Auction J. Elsen 98 (Dec. 2008) 672
2357	0.53 g		DOMBURG (Z) 581 p 172
2358	0.73 g		SLEDMERE (ERY) p.s. Abramson collection E204 = EMC 2008.0049

2359	0.79 g	FÖHR (Germany) hoard 84 'silver' (EDXRF) 56% p 172
2360	1.03 g	CAMBRAI (France) Lafaurie & Pilet-Lemière (2003) 59.122.1.2 p 172
2361	0.78 g	ROUEN (France) Lafaurie & Pilet-Lemière (2003) 76.540.10 p 170
2362	0.90 g	MALTON (NRY) CR (2006) 96 = Abramson collection E205 p 170
2363	0.69 g	BAWSEY (Nf) p.s. T&S 253 = EMC 1993.9253 p 170
2364	0.60 g	England? Abramson collection E805
2365	n.r.	England? P. Finn list 4-24
2366	0.87 g	FÖHR (Germany) hoard 83 'silver' (EDXRF) 54% p 172
2367	0.54 g	England? SCBI 21-939 (Yorkshire collections) = ex Lockett collection p 171
2368	0.64 g	DOMBURG (Z) 591 p 171
2369	0.83 g	England? Abramson collection E207 = List Vosper (Aug. 2008) SS.UWBT p 171
2370	n.r.	NAMUR (Belgium)? Photoarchive Prof. P. Berghaus p 170
2371	0.69 g	DOMBURG (Z) 672
2372	1.00 g	DOMBURG (Z) 676
2373	0.73 g	[] HALLUM (Fr) hoard De Haan (1866) 15 = Dirks (1870) C-10 p 171
2374	n.r.	[] Friesland In private collection
2375	0.55 g	[] DOMBURG (Z) 686
2376	0.60 g	[] DOMBURG (Z) 687 = Dirks (1870) F-17
2377	0.97 g	England? Abramson collection E206
2378	0.90 g	England? De Wit collection 97 = P. Finn list 12-47
2379	0.84 g	England? Abramson collection E118
2380	1.22 g	Unknown SCBI 36-16 (Berlin Museum)
2381	n.r.	MALTON (NRY) (near) EMC 2001.0799
2382	0.85 g	BUREN (Gld) NUMIS 1058490
2383	0.72 g	DOMBURG (Z) 597
2384	0.90 g	SCARBOROUGH (NRY) (near) Abramson collection E151
2385	0.32 g	RIBE (Denmark) Feveile (2006a) p 302 p 254-10
2386	0.91 g	DOMBURG (Z) 588 = De Belfort (1892-95) 5837
2387	0.89 g	] DOMBURG (Z) 586 = De Belfort (1892-95) 5813
2388	1.06 g	] NARBOROUGH (Nf) EMC 1994.0142 = Auction J. Elsen 83 (2005) 1043
2389	0.76 g	KATWIJK a/d RIJN (ZH) 50 NUMIS 1016272
2390	0.86 g	England? Abramson collection E116
2391	0.97 g	WOODHAM WALTER (Ess) hoard British Museum 409
2392	n.r.	Netherlands? List Holleman (2003) 584
2393	n.r.	[] TZUMMARUM (Fr) NUMIS 1059600
2394	1.03 g	[] Netherlands? De Wit collection 100 = Auction Coin Investment 45 (1994) 320
2395	1.02 g	NETTLEHAM (L) EMC 1984.0108 = SEC p 205
2396	n.r.	SCHUBY (Denmark) Kühn (2007) p 253
2397	1.01 g	RECVLVER (K) SCBI 1-239 (Fitzwilliam Museum) = MEC 652 = EMC 1986.8652
2398	0.69 g	DOMBURG (Z) 554
2399	1.11 g	France, near Metz? De Belfort (1892-95) 5853
2400	0.62 g	DOMBURG (Z) 643
2401	0.97 g	] QUIDENHAM (Nf) CR (2007) 112 = EMC 2006.0185
2402	0.93 g	] HAMBLEDON (Ha) EMC 2001.0066
2403	n.r.	KIRMINGTON (L) EMC 2001.0850
2404	n.r.	England? Auction Glendining (1974) 7-14 no 105
2405	1.31 g	England? SCBI 48-156 (Northern Museums) = Sotheby (1968) lot 278
2406	n.r.	WEST LUTTON (NRY) EMC 2001.0843
2407	0.84 g	HALLUM (Fr) hoard De Haan (1866) 21 = Dirks (1870) C-11 p 131

Die-corpus

2408	0.98 g	England? SCBI 2-25 (Hunterian Museum) = Ruding (1840) pl I-11
2409	0.83 g	BELTON (L) EMC 2001.0910
2410	1.10 g	UPWELL (Nf) CR (2007) 114 = EMC 2006-0230
2411	n.r.	Netherlands? Auction Coin Investment 50 (1995) 3081
2412	1.19 g	COMPTON (St) T&S 234 = Metcalf (1966) 44 = EMC 1993.9234 'silver' (EPMA) 85%
2413	n.r.	CHICKERELL (Do) EMC 2002.0010
2414	0.70 g	DOMBURG (Z) 419
2415	0.59 g	VEN-ZELDERHEIDE (L) NUMIS 1032220
2416	0.97 g	England? P. Finn memorial list 30
2417	n.r.	WYMESWOLD (Lei) Blackburn & Bonser (1986) 136 = EMC 1986.0136
2418	0.80 g	DOMBURG (Z) 579
2419	0.92 g	OOSTERBIERUM (Fr) NUMIS 1022071 = List Holleman 102 (1995) 451
2420	0.87 g	England? P. Finn list 14-54 = Auction Vecchi (June 1998) Subjack collection 116
2421	0.71 g	CAISTOR ST. EDMUND (Nf) EMC 1999.0107
2422	1.42 g	England? SCBI 11-3 (Reading University)
2423	1.04 g	England? SCBI 2-34 (Hunterian Museum)
2424	n.r.	England? Ex Lockett collection
2425	0.89 g	DOMBURG (Z) 645
2426	0.90 g	England? P. Finn list 9-30
2427	1.32 g	England? T&S 231 'silver' (EPMA) 92% p 107
2428	1.03 g	MAURIK (Gld) Op den Velde (1982) 2 = NUMIS 1019383
2429	n.r.	WIJK-BIJ-DUURSTED (U) NUMIS 1033453 = Van der Chijs (1866) pl III-8
2430	0.77 g	De MEERN (U) hoard 111
2431	0.55 g	DOMBURG (Z) 604
2432	0.39 g	DOMBURG (Z) 426
2433	0.66 g	DOMBURG (Z) 589
2434	n.r.	RIBY (L) DMM
2435	0.98 g	Unknown SBI 36-23 (Berlin Museum)
2436	1.14 g	England? Auction Sotheby (1913) Carlyon Britton collection 158b
2437	0.82 g	WHITBY (NRY) Metcalf (1966) 48 = EMC 1977.0092
2438	0.7 g	SPALDING (L) p.s. DMM -; Abramson collection E120
2439	1.13 g	LUTJE SAAKSUM (Gr) hoard Hill (1955) 8
2440	0.89 g	LOUTH (L) EMC 2001.0698
2441	0.99 g	VECHTEN (U) NUMIS 1030049
2442	0.60 g	DOMBURG (Z) 568
2443	0.66 g	DOMBURG (Z) 625
2444	0.78 g	DOMBURG (Z) 655
2445	0.66 g	DOMBURG (Z) 557
2446	1.23 g	KLOSTER BARTHE (Germany) hoard 601 ELM 531
2447	1.15 g	KLOSTER BARTHE (Germany) hoard 602 ELM 452
2448	1.27 g	KLOSTER BARTHE (Germany) hoard 603 ELM 394
2449	1.14 g	DOMBURG (Z) 559 = De Belfort (1892-95) 5811
2450	0.64 g	DOMBURG (Z) 449
2451	1.10 g	KLOSTER BARTHE (Germany) hoard 604 ELM 170
2452	1.11 g	KLOSTER BARTHE (Germany) hoard 605 ELM 484
2453	1.17 g	KLOSTER BARTHE (Germany) hoard 606 ELM 280
2454	n.r.	KLOSTER BARTHE (Germany) hoard 607 Anton Ulrich Museum Braunschweig
2455	1.29 g	KLOSTER BARTHE (Germany) hoard 608 ELM 45

2456	1.25 g	[]	KLOSTER BARTHE (Germany) hoard 609 ELM 500
2457	1.22 g		KLOSTER BARTHE (Germany) hoard 610 ELM 603
2458	0.95 g	[]	KLOSTER BARTHE (Germany) hoard 611 ELM 419
2459	1.23 g		KLOSTER BARTHE (Germany) hoard 612 ELM 176
2460	0.95 g		KLOSTER BARTHE (Germany) hoard 613 ELM 101
2461	1.20 g		KLOSTER BARTHE (Germany) hoard 614 ELM 117
2462	1.29 g		KLOSTER BARTHE (Germany) hoard 615 ELM 751
2463	1.28 g		KLOSTER BARTHE (Germany) hoard 620 ELM 606
2464	1.14 g		KLOSTER BARTHE (Germany) hoard 621 ELM 490
2465	1.16 g		KLOSTER BARTHE (Germany) hoard 622 ELM 153
2466	1.21 g		KLOSTER BARTHE (Germany) hoard 623 ELM 136
2467	1.2 g		[ ]	Hampshire Abramson collection E125 = List Vosper (July 2007) SS TPUP
2468	1.13 g	KLOSTER BARTHE (Germany) hoard 624 ELM 274	
2469	1.23 g	[]	England? De Wit collection 103 = P. Finn list 10-31
2470	n.r.		Netherlands List Holleman 104 (1995) 477
2471	1.03 g	[]	KLOSTER BARTHE (Germany) hoard 625 ELM 575
2472	1.24 g		KLOSTER BARTHE (Germany) hoard 626 ELM 67
2473	n.r.		KLOSTER BARTHE (Germany) hoard 627 Hill (1977) "Hanover hoard"
2474	1.14 g		Netherlands Geldmuseum RE-22464
2475	n.r.	[]	UTRECHT (U) Volgraff & Van Hoorn (1938) = NUMIS 1029594
2476	1.12 g		ROISDORF (Germany) Zedelius (1980) p 139
2477	n.r.		YORK Rigold & Metcalf (1984) p 267 = EMC 1986.0301
2478	0.85 g		England? SCBI 2-26 (Hunterian Museum) = Ruding (1840) pl II-9
2479	0.40 g		DOMBURG (Z) 606
2480	0.70 g		DOMBURG (Z) 605
2481	0.51 g		DOMBURG (Z) 607
2482	1.25 g		KLOSTER BARTHE (Germany) hoard 628 ELM 510
2483	1.02 g		KLOSTER BARTHE (Germany) hoard 629 ELM 385
2484	1.20 g		KLOSTER BARTHE (Germany) hoard 630 ELM 200
2485	1.02 g	KLOSTER BARTHE (Germany) hoard 631 ELM 247	
2486	1.09 g	KLOSTER BARTHE (Germany) hoard 632 ELM 270	
2487	1.15 g	KLOSTER BARTHE (Germany) hoard 633 ELM 184	
2488	1.35 g	KLOSTER BARTHE (Germany) hoard 634 ELM 420	
2489	1.17 g	KLOSTER BARTHE (Germany) hoard 635 ELM 158	
2490	1.00 g	[]	Unknown Metcalf (1969) Franceschi parcel 15
2491	1.14 g		KLOSTER BARTHE (Germany) hoard 636 SCBI 4-33 (Copenhagen Museum)
2492	1.31 g		Unknown Metcalf (1969) Franceschi parcel 14 = T&S 240 'silver' (EPMA) 81%
2493	n.r.	[]	Unknown SCBI 37-1 (Polish Museums)
2494	0.98 g		KLOSTER BARTHE (Germany) hoard 637 SCBI 4-31 (Copenhagen Museum)
2495	1.31 g	[]	England? Keary (1887) 60 = Metcalf (1966) 9
2496	n.r.		HOCKWOLD (Nf) EMC 1988.0118
2497	n.r.		England? List Gillis (Oct. 2006)
2498	1.1 g	[]	UPWELL (Nf) EMC 2006.0230
2499	1.21 g		KLOSTER BARTHE (Germany) hoard 638 ELM 128
2500	n.r.		CANTERBURY (K) DMM
2501	1.21 g		KLOSTER BARTHE (Germany) hoard 639 ELM 75
2502	1.1 g		England? List Gillis (July 2007) WS 5095
2503	1.26 g		KLOSTER BARTHE (Germany) hoard 640 ELM 520

2504	1.14 g	GULDEN MORDEN (C) CR (2003) 81 = EMC 2003.0005
2505	1.27 g	[] KLOSTER BARTHE (Germany) hoard 641 ELM 596
2506	1.29 g	
2507	1.12 g	BAIS (France) hoard Lafaurie (1981a) 309e = BNF 0309e
2508	1.11 g	FÖHR (Germany) hoard 78 'silver' (EDXRF) 74%
2509	0.95 g	NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 52 = BNF MF0045
2510	1.09 g	SPALDING (L) p.s. DMM XC = EMC 2000.0504
2511	0.79 g	Unknown SCBI 36-25 (Berlin Museum)
2512	1.10 g	Unknown Metcalf (1969) Franceschi parcel 12 = T&S 239 'silver' (EPMA) 78%
2513	1.10 g	Unknown Metcalf (1969) Franceschi parcel 17 = T&S 241 'silver' (EPMA) 67%
2514	1.14 g	GRIMSBY (L) EMC 1998.0058
2515	1.0 g	England? List Vosper (2004)
2516	1.11 g	Unknown SCBI 50-20 (Hermitage museum)
2517	0.98 g	[] BAWSEY (Nf) T&S 232 = EMC 1993.9232
2518	1.16 g	
2519	1.1 g	England? List Glenn Schinke (Sep. 1994) = Beowulf collection 37
2520	1.16 g	Yorkshire (ERY) CR (1998) 67 = EMC 1998.2067
2521	0.84 g	ICKLETON (C) CR (2002) 89 = EMC 2001.0981
2522	0.93 g	MARKET LAVINGTON (W) DMM
2523	n.r.	DONGJUM (Fr) NUMIS 1008817
2524	n.r.	Netherlands? List Holleman 92 (1992) 420
2525	1.17 g	SPALDING (L) p.s. The Searcher (Sep. 2003) p 67
2526	0.94 g	KLOSTER BARTHE (Germany) hoard 643 ELM 93
2527	n.r.	KLOSTER BARTHE (Germany) hoard 644 ELM 382
2528	1.24 g	England? Spink (July 2007)
2529	1.17 g	[] KLOSTER BARTHE (Germany) hoard 645 ELM 423
2530	0.70 g	
2531	0.88 g	England? T&S 230 ex Lockett collection 'silver' (EPMA) 88%
2532	0.38 g	DOMBURG (Z) 635
2533	0.72 g	SPALDING (L) p.s. DMM CXXVIII = Abramson collection E173
2534	0.81 g	DOMBURG (Z) 641
2535	n.r.	England? Auction Vecchi (June 1998) Subjack collection 115
2536	1.05 g	KLOSTER BARTHE (Germany) hoard 646 ELM 100
2537	n.r.	Netherlands? Auction J. Schulman 269 (1979) 537
2538	0.45 g	ROYSTON (Hrt) p.s. EMC 1990.0302
2539	0.82 g	CODFORD (W) CR (1993) 158 = EMC 1993.0158
2540	0.77 g	DOMBURG (Z) 649 = De Belfort (1892-95) 5829
2541	1.03 g	[] KLOSTER BARTHE (Germany) hoard 647 ELM 646
2542	1.06 g	
2543	1.24 g	IJZENDOORN (Gld) NUMIS 1015614
2544	0.97 g	KLOSTER BARTHE (Germany) hoard 648 ELM 538
2545	1.18 g	KLOSTER BARTHE (Germany) hoard 649 ELM 525
2546	1.21 g	SPALDING (L) p.s. DMM CXXVII
2547	0.80 g	KATWIJK a/d RIJN (ZH) 49 NUMIS 1016270 = De Wit collection 102 = Auction Coin Investment 52 (1997) 335
2548	n.r.	KLOSTER BARTHE (Germany) hoard 650 ELM 397
2549	0.87 g	Unknown Metcalf (1969) Franceschi parcel 23
2550	1.20 g	DOMBURG (Z) 629
2551	0.38 g	TARRANT HINTON (Do) DMM
		SLAPPETERP (Fr) NUMIS 1027794 = De Wit collection 124 = List Holleman 106 (1996) 468
		England? SCBI 2-43 (Hunterian museum)
		RIBE (Denmark) Feveile (2006a) p 301 p 254-7

2552	0.84 g	DOMBURG (Z) 639
2553	0.85 g	DOMBURG (Z) 634
2554	0.98 g	MAINZ (Germany) Stoess (1994) 13
2555	0.33 g	WIJK-BIJ-DUURSTED (U) NUMIS 1033465
2556	1.39 g] KLOSTER BARTHE (Germany) hoard 651 ELM 475
2557	1.22 g	
2558	n.r.	
2559	1.32 g	KLOSTER BARTHE (Germany) hoard 654 ELM 640
2560	1.06 g	[] FRANEKER hoard LFM 329 = Dirks (1870) A-3
2561	0.77 g	
2562	n.r.	
2563	1.16 g	[] MAINZ (Germany) Stoess (1994) 11
2564	1.22 g	
2565	1.04 g	
		[] TELSCOMBE (Sx) EMC 1986.0423 = Blackburn & Bonser (1986) 56 (South Downs)
2566	n.r.	
2567	1.06 g	
2568	1.17 g	
2569	1.03 g	[] KLOSTER BARTHE (Germany) hoard 746 ELM 213
2570	1.11 g	
2571	1.51 g	
2572	1.07 g	
2573	1.23 g	SUDBOURNE (Sf) EMC 2008.0119
2574	1.13 g] KLOSTER BARTHE (Germany) hoard 748 ELM 647
2575	n.r.	
2576	1.46 g	
2577	1.09 g	
		KLOSTER BARTHE (Germany) hoard 749 ELM 351
] Essex (north) EMC 1986.0409
2578	0.88 g	
2579	0.46 g	
2580	0.50 g	
2581	0.85 g] KLOSTER BARTHE (Germany) hoard 750 ELM 283
		England? British Museum 410
2582	1.00 g	DOMBURG (Z) 617
2583	1.10 g	FÖHR (Germany) hoard 87 'silver' (EDXRF) 59% p 254
2584	1.11 g	RECULVER (K) SCBI 1-237 (Fitzwilliam Museum) = Battely (1745) pl VI = MEC 661
		[] Unknown De Wit collection 116 = Auction Kircheldorff 20 (1969) 337
2585	1.23 g	
2586	1.14 g	
2587	1.11 g	
		[] WIJK-BIJ-DUURSTED (U) NUMIS 1033454 = Dirks (1870) E-a
2588	0.5 g	
2589	0.80 g	
2590	1.04 g	
		[] BAIS (France) hoard Ex Durocher collection. Lafaurie (1981a) 309A = BNF 309A p 133
2591	0.75 g	
2592	n.r.	
2593	0.49 g	
		[] KLOSTER BARTHE (Germany) hoard 751 ELM 491
2594	0.76 g	
2595	1.43 g	
2596	0.97 g	
		[] Netherlands? De Wit collection 114 = Henzen (June 1996) 306
2597	0.25 g	
		[] England? Abramson collection E130
		[] BRAISEWORTH (Sf) CR (2005) 87 = EMC 2004.0064
		[] NAMUR (Belgium)? Photoarchive Prof. P. Berghaus
		[] DOMBURG (Z) 615
		[] De MEERN (U) hoard 116
		DOMBURG (Z) 616

2598	0.35 g	[]	DOMBURG (Z) 618
2599	1.03 g		DOMBURG (Z) 430
2600	1.09 g		FRANEKER (Fr) hoard LFM 383 = Dirks (1870) A-2
2601	0.36 g		DOMBURG (Z) 653
2602	1.27 g		KLOSTER BARTHE (Germany) hoard 753 ELM 349
2603	1.19 g		KLOSTER BARTHE (Germany) hoard 754 ELM 422
2604	1.26 g	[]	KLOSTER BARTHE (Germany) hoard 755 ELM 14
2605	1.27 g	[]	KLOSTER BARTHE (Germany) hoard 756 ELM 15
2606	1.20 g	[]	KLOSTER BARTHE (Germany) hoard 757 ELM 16
2607	1.44 g		KLOSTER BARTHE (Germany) hoard 758 ELM 55
2608	1.22 g		KLOSTER BARTHE (Germany) hoard 759 ELM 746
2609	1.26 g		KLOSTER BARTHE (Germany) hoard 760 ELM 399
2610	1.41 g		England? British Museum 411 = Hill (1953) 96
2611	0.96 g		BARHAM (Sf) British Museum 412
2612	1.23 g	[]	KLOSTER BARTHE (Germany) hoard 761 ELM 609
2613	1.22 g		KLOSTER BARTHE (Germany) hoard 762 ELM 80
2614	0.92 g	[]	Unknown SCBI 4-35 (Copenhagen Museum)
2615	1.10 g	[]	SLEAFORD (L) EMC 1994.0145
2616	1.37 g	[]	KLOSTER BARTHE (Germany) hoard 763 ELM 552
2617	1.25 g	[]	England? SCBI 21-945 (Yorkshire collections)
2618	n.r.		England? Ex Lockett collection p 51
2619	1.28 g		Unknown Metcalf (1969) Franceschi parcel 26 = T&S 243 'silver' (EPMA) 88%
2620	1.21 g	[]	England? Abramson collection E194
2621	1.00 g		England? SCBI 20-334 (Mack collection) = ex Hill collection = ex Carlyon Britton collection 159c
2622	0.35 g		SOUTHAMPTON (Ha) Metcalf (1988a) 19 'silver' (EPMA) 64%
2623	0.58 g		SOUTHAMPTON (Ha) Metcalf (1988a) 18 = EMC 1988.9018 'silver' (EPMA) 87%
2624	0.78 g		SOUTHAMPTON (Ha) Metcalf (1988a) 17 = EMC 1998.9017
2625	0.97 g	[]	DOMBURG (Z) 598 = Metcalf (1966) 33 = De Belfort (1892-95) 5841
2626	0.84 g	[]	DOMBURG (Z) 599
2627	0.48 g	[]	DOMBURG (Z) 600
2628	1.30 g	[]	KLOSTER BARTHE (Germany) hoard 764 ELM 543
2629	1.30 g	[]	Unknown SCBI 50-12 (Hermitage Museum)
2630	n.r.		HOUTEN (U) NUMIS 1015328
2631	0.83 g	[]	DOMBURG (Z) 603
2632	0.94 g	[]	De MEERN (U) hoard 117
2633	n.r.		RIBE (Denmark) Feveile (2006a) p 304 p 254-13
2634	0.99 g		BAWSEY (Nf) p.s. EMC 1997.0058
2635	1.08 g		Unknown Metcalf (1969) Franceschi parcel 35 = T&S 251 'silver' (EPMA) 46%
2636	1.02 g		Unknown Auction J. Elsen 83 (2005) 1044
2637	1.26 g	[]	KLOSTER BARTHE (Germany) hoard 765 ELM 90
2638	n.r.	[]	Netherlands? Auction Coin Investment 52 (1997) 338
2639	0.39 g		Unknown Cabinet des medailles Brussels. Hill (c. 1974) BBR 28
2640	n.r.		MONKTON DEVERILL (W) DMM
2641	1.33 g		KLOSTER BARTHE (Germany) hoard 767 ELM 471
2642	1.07 g		KLOSTER BARTHE (Germany) hoard 768 ELM 480
2643	1.31 g		KLOSTER BARTHE (Germany) hoard 769 ELM 450
2644	1.22 g	[]	HALLUM (Fr) hoard De Haan (1866) 12 = Dirks (1870) C-1 p 131
2645	1.16 g	[]	England? SCBI 1-245 (Fitzwilliam Museum) = MEC 658

2646	1.24 g	]	KLOSTER BARTHE (Germany) hoard 770 ELM 6
2647	1.34 g		WOODHAM WALTER (Ess) hoard British Museum 413
2648	1.09 g	]	WIJNALDUM (Fr) NUMIS 1034040
2649	1.25 g		KLOSTER BARTHE (Germany) hoard 771 ELM 10
2650	1.24 g	]	England? SCBI 11-2 (Reading University)
2651	1.19 g		KLOSTER BARTHE (Germany) hoard 772 ELM 17
2652	1.28 g	]	KLOSTER BARTHE (Germany) hoard 773 ELM 18
2653	1.30 g		KLOSTER BARTHE (Germany) hoard 774 ELM 470
2654	1.20 g	]	KLOSTER BARTHE (Germany) hoard 775 ELM 449
2655	1.27 g		KLOSTER BARTHE (Germany) hoard 776 ELM 497
2656	1.25 g	]	KLOSTER BARTHE (Germany) hoard 777 ELM 105
2657	1.19 g		KLOSTER BARTHE (Germany) hoard 778 ELM 524
2658	0.92 g		RIBE (Denmark) Feveile (2006a) p 290 p 254-5
2659	1.06 g		RECULVER (K) British Museum 414 = Metcalf (1966) 47
2660	1.26 g	]	KLOSTER BARTHE (Germany) hoard 779 ELM 361
2661	1.04 g		De MEERN (U) hoard 118
2662	1.23 g		KLOSTER BARTHE (Germany) hoard 780 ELM 73
2663	0.90 g		SLEDMERE (ERY) p.s. Abramson collection E165
2664	0.83 g		De MEERN (U) hoard 119
2665	1.24 g		OUTWELL (Nf) CR (2007) 123 = EMC 2006.0384
2666	1.40 g	]	KLOSTER BARTHE (Germany) hoard 781 ELM 396
2667	1.31 g		KLOSTER BARTHE (Germany) hoard 782 ELM 554
2668	1.21 g		KLOSTER BARTHE (Germany) hoard 783 ELM 598
2669	1.24 g		KLOSTER BARTHE (Germany) hoard 784 ELM 189
2670	1.10 g		WOODHAM WALTER (Ess) hoard British Museum 415
2671	1.07 g		England? British Museum 416 = Hill (1953) 96
2672	1.07 g		KLOSTER BARTHE (Germany) hoard 785 ELM 628
2673	1.20 g		England? Abramson collection E750
2674	n.r.		STAMFORD BRIDGE (ERY) CR (2007) 111 = EMC 2006.0145
2675	1.09 g		DOMBURG (Z) 458
2676	1.11 g		KINGSTON DEVERILL (W) p.s. DMM
2677	0.87 g		TWYFORD (Ha) DMM
2678	1.34 g		KLOSTER BARTHE (Germany) hoard 786 ELM 386
2679	1.17 g		BIDFORD-ON-AVON (Wa) DMM XI
2680	1.21 g		KLOSTER BARTHE (Germany) hoard 787 ELM 455
2681	0.43 g		RIBE (Denmark) Feveile (2006a) p 303 p 254-12
2682	1.05 g		Netherlands? De Wit collection 96 = Auction Coin Investment 16 (1982) 574
2683	1.20 g		KLOSTER BARTHE (Germany) hoard 788 ELM 551
2684	1.11 g		KLOSTER BARTHE (Germany) hoard 789 ELM 167
2685	1.05 g		FÖHR (Germany) hoard 63 'silver' (EDXRF) 78%
2686	0.92 g		EAST TILBURY (Ess) p.s. Auction Vecchi (June 1998) Subjack collection 114 p 51
2687	1.18 g		England? P. Finn list 6-35 = list 14-55
2688	1.09 g		FÖHR (Germany) hoard 66 'silver' (EDXRF) 59%
2689	n.r.		ASTON ROWANT hoard Auction Sotheby (1985) Ex 504a p 62
2690	n.r.		England? Ex Lockett collection
2691	0.67 g		DOMBURG (Z) 650
2692	0.77 g	]	MAINZ (Germany) Stoess (1994) 21 p 130
2693	0.77 g		MAINZ (Germany) Stoess (1994) 15 p 130
2694	0.99 g		Unknown De Wit collection 137 = Auction Münzen und Medaillen Basel (1983)
2695	1.07 g		De MEERN (U) hoard 120

Die-corpus

2696	1.11 g	SUTTON COURTENAY (O) EMC 1991.0104 = Beowulf collection 39
2697	0.97 g	CLARE (Sf) EMC 2002.0237 = CR (2002) 102 = De Wit collection 98 = Spink (1992)
2698	1.1 g	ELY (C) Abramson collection E160 = EMC 2003.0185
2699	1.12 g	NORTH ELHAM (K) EMC 2001.0881
2700	1.03 g	SKEGNESS (L) EMC 2001.0728 = P. Finn list 4-28 = 13-49 = Auction J. Elsen 86 (2005) 748 p 51
2701	1.10 g	MAURIK (Gld) Op den Velde (1982) 12 = NUMIS 1019382
2702	0.89 g	England? De Wit collection 136 = SCBI 20-335 = Spink (1954) = Hill (1949-51) pl II-31
2703	0.80 g	France. Abramson collection E170
2704	0.54 g	SCHALSUM (Fr) De Wit collection S139 = Auct. Coin Inv. 43 (1993) 141 = NUMIS 1027413
2705	1.22 g	OXFORD (O) EMC 2005.0090
2706	0.59 g	England? SCBI 21-940 (Yorkshire collections)
2707	n.r.	Netherlands NUMIS 1051637
2708	0.49 g	DOMBURG (Z) 696
2709	0.50 g	DOMBURG (Z) 602
2710	1.08 g	DOMBURG (Z) 644
2711	0.60 g	DOMBURG (Z) 652
2712	1.17 g	SLEDMERE (ERY) Bonser 1332 = P. Finn (1995) = De Wit collection 135 = DMM
2713	1.23 g	NARBOROUGH (Nf) EMC 1994.0146 p 234

Sub-variety k not checked for die-identity

2714	0.37 g	DOMBURG (Z) 364
2715	0.99 g	DOMBURG (Z) 434
2716	0.34 g	DOMBURG (Z) 435
2717	0.60 g	DOMBURG (Z) 437
2718	0.44 g	DOMBURG (Z) 438
2719	0.40 g	DOMBURG (Z) 595
2720	0.48 g	DOMBURG (Z) 596
2721	0.62 g	DOMBURG (Z) 633
2722	0.54 g	DOMBURG (Z) 637
2723	0.52 g	DOMBURG (Z) 638
2724	0.61 g	DOMBURG (Z) 640
2725	0.62 g	DOMBURG (Z) 642
2726	0.43 g	DOMBURG (Z) 656
2727	0.74 g	DOMBURG (Z) 658
2728	0.67 g	DOMBURG (Z) 659
2729	0.53 g	DOMBURG (Z) 660
2730	0.61 g	DOMBURG (Z) 662
2731	0.76 g	DOMBURG (Z) 664
2732	0.32 g	DOMBURG (Z) 666
2733	0.42 g	DOMBURG (Z) 668
2734	0.73 g	DOMBURG (Z) 670
2735	0.49 g	DOMBURG (Z) 671
2736	0.71 g	DOMBURG (Z) 673
2737	0.77 g	DOMBURG (Z) 674
2738	0.67 g	DOMBURG (Z) 675
2739	0.53 g	DOMBURG (Z) 677

2740	n.r.	RECVLVER (K) Battely (1745) PI VI
2741	0.97 g	KATWIJK a/d RIJN (ZH) 51 NUMIS 1016287
2742	n.r.	KILHAM (ERY) CR (1997) 63 = EMC 1997.0063
2743	1.16 g	ROYSTON (Hrt) p.s. Blackburn & Bonser (1986) 19 = CR (1986) 19 = EMC 1986.0019 silver plated
2744	0.74 g	WESTENSCHOUWEN (Z) Op den Velde & Klaassen (2004) 953

Secondary phase porcupines not assigned to any sub-variety

2745	1.01 g	ALCESTER (Wa) DMM
2746	1.07 g	BARHAM (Sf) Rigold & Metcalf (1984) p 246
2747	0.45 g	BAWSEY (Nf) CR (2007) 107 = EMC 2006.0291
2748	0.49 g	BERLIKUM (Fr) NUMIS 1004606
2749	n.r.	BERLIKUM (Fr) NUMIS 1004609
2750	n.r.	CAKEHAM (Sx) Rigold & Metcalf (1984) p248 = EMC 1977.0009
2751	0.61 g	CANTERBURY (K) Rigold & Metcalf (1984) p249
2752	0.6 g	CLIFFE (K) CR (1999) 62
2753	n.r.	COSTESSY (Nf) Rigold & Metcalf (1984) p250
2754	1.01 g	CRIMPLESHAM (Nf) CR (1994) 141 = EMC 1994.0141
2755	n.r.	DEBENHAM (Sf) CR (2003) 77 = EMC 2003.0016
2756	0.78 g	De MEERN (U) hoard 121
2757	0.74 g	DOMBURG (Z) 339
2758	0.35 g	DOMBURG (Z) 356
2759	0.42 g	DOMBURG (Z) 362
2760	0.90 g	DOMBURG (Z) 370
2761	0.28 g	DOMBURG (Z) 381
2762	0.15 g	DOMBURG (Z) 383
2763	0.98 g	DOMBURG (Z) 385
2764	1.02 g	DOMBURG (Z) 429
2765	0.77 g	DOMBURG (Z) 431
2766	0.81 g	DOMBURG (Z) 432
2767	0.87 g	DOMBURG (Z) 439
2768	0.71 g	DOMBURG (Z) 440
2769	0.96 g	DOMBURG (Z) 450
2770	0.29 g	DOMBURG (Z) 487
2771	0.27 g	DOMBURG (Z) 492
2772	0.63 g	DOMBURG (Z) 542
2773	0.25 g	DOMBURG (Z) 543
2774	0.84 g	DOMBURG (Z) 545
2775	0.45 g	DOMBURG (Z) 548
2776	0.72 g	DOMBURG (Z) 549
2777	0.88 g	DOMBURG (Z) 553
2778	0.39 g	DOMBURG (Z) 565
2779	0.32 g	DOMBURG (Z) 569
2780	0.27 g	DOMBURG (Z) 572
2781	0.35 g	DOMBURG (Z) 575
2782	0.42 g	DOMBURG (Z) 578
2783	0.65 g	DOMBURG (Z) 582
2784	0.32 g	DOMBURG (Z) 584
2785	0.62 g	DOMBURG (Z) 585
2786	0.39 g	DOMBURG (Z) 601
2787	0.40 g	DOMBURG (Z) 608

2788	0.61	gg	DOMBURG (Z) 619
2789	1.01	gg	DOMBURG (Z) 620
2790	0.34	gg	DOMBURG (Z) 623
2791	0.59	gg	DOMBURG (Z) 627
2792	0.58	gg	DOMBURG (Z) 628
2793	1.12	gg	DOMBURG (Z) 632
2794	0.69	gg	DOMBURG (Z) 651
2795	0.37	gg	DOMBURG (Z) 654
2796	0.87	gg	DOMBURG (Z) 669
2797	0.26	gg	DOMBURG (Z) 678
2798	0.88	gg	DOMBURG (Z) 679
2799	1.02	gg	DOMBURG (Z) 680
2800	0.64	gg	DOMBURG (Z) 681
2801	0.36	gg	DOMBURG (Z) 682
2802	0.64	gg	DOMBURG (Z) 683
2803	0.45	gg	DOMBURG (Z) 684
2804	0.48	gg	DOMBURG (Z) 685
2805	0.55	gg	DOMBURG (Z) 686
2806	0.60	gg	DOMBURG (Z) 687
2807	0.73	gg	DOMBURG (Z) 688
2808	0.71	gg	DOMBURG (Z) 689
2809	0.82	gg	DOMBURG (Z) 690
2810	0.38	gg	DOMBURG (Z) 691
2811	0.55	gg	DOMBURG (Z) 692
2812	0.96	gg	DOMBURG (Z) 693
2813	0.68	gg	DOMBURG (Z) 694
2814	0.86	gg	DOMBURG (Z) 695
2815	0.49	gg	DOMBURG (Z) 696
2816	0.70	gg	DOMBURG (Z) 697
2817	0.44	gg	DOMBURG (Z) 698
2818	1.17	gg	DOMBURG (Z) 699
2819	0.21	gg	DOMBURG (Z) 700
2820	1.15	gg	DOMBURG (Z) 701
2821	0.55	gg	DOMBURG (Z) 702
2822	0.54	gg	DOMBURG (Z) 703
2823	0.56	gg	DOMBURG (Z) 704
2824	0.40	gg	DOMBURG (Z) 705
2825	0.35	gg	DOMBURG (Z) 706
2826	0.31	gg	DOMBURG (Z) 707
2827	0.11	gg	DOMBURG (Z) 708
2828	0.69	gg	DOMBURG (Z) 709
2829	0.36	gg	DOMBURG (Z) 710
2830	0.36	gg	DOMBURG (Z) 711
2831	0.42	gg	DOMBURG (Z) 712
2832	0.34	gg	DOMBURG (Z) 713
2833	0.47	gg	DOMBURG (Z) 714
2834	0.28	gg	DOMBURG (Z) 715
2835	0.58	gg	DOMBURG (Z) 716
2836	0.24	gg	DOMBURG (Z) 717
2837	0.68	gg	DOMBURG (Z) 718
2838	0.46	gg	DOMBURG (Z) 719
2839	0.45	gg	DOMBURG (Z) 720

2840	0.42 g	DOMBURG (Z) 721
2841	0.12 g	DOMBURG (Z) 722
2842	n.r.	DOMBURG (Z) 723
2843	n.r.	DOMBURG (Z) 724
2844	n.r.	EAST TILBURY (Ess) p.s. DMM
2845	0.66 g	England? SCBI 24-238 (West Country Museums)
2846	0.93 g	England? SCBI 42-473 (South-Eastern Museums)
2847	1.41 g	FÖHR (Germany) hoard 37 'silver' (EDXRF) 79%
2848	1.10 g	France? BNF D6095
2849	n.r.	Friesland In private collection
2850	n.r.	Friesland Communicated by K. Faber
2851	n.r.	Hampshire (south) Rigold & Metcalf (1984) p 262
2852	0.91 g	HOUTEN (U) NUMIS 1015375
2853	n.r.	LONDON EMC 1984.1042
2854	n.r.	LONDON EMC 1991.0206
2855	0.78 g	MAINZ (Germany) (Stoess) (1994) 9
2856	0.74 g	MAINZ (Germany) (Stoess) (1994) 18
2857	0.64 g	MAINZ (Germany) (Stoess) (1994) 23
2858	0.39 g	MAINZ (Germany) (Stoess) (1994) 25
2859	n.r.	NANTES (Loire-Atlantique, France) Lafaurie & Pilet-Lemière (2003) 44.109.11
2860	n.r.	Netherlands? List Holleman (Apr. 1985) 500
2861	0.97 g	Netherlands? Auction Coin Investment 52 (1997) 334
2862	n.r.	PALAISEAU (Essone, France) Lafaurie & Pilet-Lemière (2003) 91.477.1
2863	0.31 g	RIBE (Denmark) Feveile (2006a) p 289 p 254-4
2864	0.19 g	RIBE (Denmark) Feveile (2006a) p 301 p 254-8
2865	0.19 g	RIBE (Denmark) Feveile (2006a) p 307 p 254-17
2866	0.8 g	ROYSTON (Hrt) p.s.BNJ (1986) 16 = EMC 1986.0016
2867	0.60 g	RIJSWIJK (Gld) Op den Velde (1982) 26 = NUMIS 1024756
2868	n.r.	SAINT SAULVE (Nord/Pas-de-Calais, France) Lafaurie & Pilet- Lemière (2003) 59.544.1
2869	0.83 g	SLAPPETERP (Fr) NUMIS 1059595
2870	0.52 g	SOUTHAMPTON (Ha) Metcalf (1988a) 9
2871	0.76 g	SOUTHAMPTON (Ha) Metcalf (1988a) 10
2872	0.64 g	SOUTHAMPTON (Ha) Metcalf (1988a) 15
2873	0.31 g	SOUTHAMPTON (Ha) Metcalf (1988a) 16
2874	n.r.	ST. CATHERINE'S HILL (W) Rigold & Metcalf 1984) p 261 a
2875	n.r.	ST. CATHERINE'S HILL (W) Rigold & Metcalf 1984) p 261 b
2876	n.r.	ST. CATHERINE'S HILL (W) Rigold & Metcalf 1984) p 261 c
2877	n.r.	ST. CATHERINE'S HILL (W) Rigold & Metcalf 1984) p 261
2878	0.90 g	SAINT-RÉMY-DE-PROVENCE (Bouche-du-Rhône) Lafaurie & Pilet-Lemière (2003) 13.100.1.65
2879	0.94 g	STRADSETT (Nf) CR (2005) 88
2880	1.23 g	TIBENHAM (Nf) CR (1998) 81
2881	0.85 g	TRIER (Germany) Gilles (1985)
2882	n.r.	TROYES (Aube, France) Lafaurie & Pilet-Lemière (2003) 10.387.5
2883	1.14 g	TRIMLEY ST MARTIN (Sf) CR (2002) 86
2884	0.43 g	VECHTEN (U) NUMIS 1032069
2885	n.r.	VROUWENPOLDER (Z) Op den Velde & Klaassen (2004) 1026
2886	0.44 g	WESTENSCHOUWEN (Z) Op den Velde & Klaassen (2004) 959
2887	0.27 g	WESTENSCHOUWEN (Z) Op den Velde & Klaassen (2004) 960

2888	0.32 g	WESTENSCHOUWEN (Z) 961
2889	0.60 g	WESTENSCHOUWEN (Z) 962
2890	0.28 g	WESTENSCHOUWEN (Z) 963
2891	0.30 g	WESTENSCHOUWEN (Z) 964
2892	0.61 g	WESTENSCHOUWEN (Z) 965
2893	0.46 g	WESTENSCHOUWEN (Z) 966
2894	0.41 g	WESTENSCHOUWEN (Z) 967
2895	0.37 g	WESTENSCHOUWEN (Z) 968
2896	0.50 g	WESTENSCHOUWEN (Z) 969
2897	0.31 g	WESTENSCHOUWEN (Z) 970
2898	0.30 g	WESTENSCHOUWEN (Z) 971
2899	0.06 g	WESTENSCHOUWEN (Z) 972
2900	0.33 g	WESTENSCHOUWEN (Z) 973
2901	0.10 g	WESTENSCHOUWEN (Z) 974
2902	0.57 g	WESTENSCHOUWEN (Z) 975
2903	0.82 g	WESTENSCHOUWEN (Z) 976
2904	0.29 g	WESTENSCHOUWEN (Z) 977
2905	0.54 g	WESTENSCHOUWEN (Z) 978
2906	0.35 g	WESTENSCHOUWEN (Z) 979
2907	0.29 g	WESTENSCHOUWEN (Z) 980
2908	0.20 g	WESTENSCHOUWEN (Z) 981
2909	0.10 g	WESTENSCHOUWEN (Z) 982
2910	0.71 g	WESTENSCHOUWEN (Z) 983
2911	0.71 g	WESTENSCHOUWEN (Z) 984
2912	0.25 g	WESTENSCHOUWEN (Z) 985
2913	0.46 g	WESTENSCHOUWEN (Z) 986
2914	0.20 g	WESTENSCHOUWEN (Z) 987
2915	n.r.	WESTERDALE (Y) Rigold & Metcalf (1984)
2916	1.74 g	WESTON (Hrt) CR (1989) 66 = 1989.0066 (mounted?)
2917	0.81 g	WHITBY (ERY) British Museum 417

TERTIARY-PHASE PORCUPINES

Variety E

Variety E1

2918	0.69 g	Netherlands? Geldmuseum BM-17221
2919	1.29 g	FRANEKER (Fr) hoard LFM 424
2920	1.16 g	FRANEKER (Fr) hoard Geldmuseum BM-17209
2921	1.17 g	FRANEKER (Fr) hoard LFM 368
2922	1.15 g	FRANEKER (Fr) hoard LFM 524
2923	1.09 g	FRANEKER (Fr) hoard LFM 515
2924	1.11 g	FRANEKER (Fr) hoard LFM 487
2925	1.24 g	FRANEKER (Fr) hoard LFM 507
2926	1.07 g	FRANEKER (Fr) hoard Geldmuseum BM-17301
2927	1.25 g	FRANEKER (Fr) hoard LFM 468
2928	n.r.	England? Seaby CMB (1980) pl 5 E5
2929	1.24 g	FRANEKER (Fr) hoard Geldmuseum BM-17192
2930	1.24 g	FRANEKER (Fr) hoard LFM 338
2931	1.13 g	FRANEKER (Fr) hoard LFM 328
2932	1.25 g	FRANEKER (Fr) hoard LFM 503

2933	1.05 g	[	FRANEKER (Fr) hoard LFM 341
2934	1.15 g	[	FRANEKER (Fr) hoard LFM 345
2935	1.19 g	]	FRANEKER (Fr) hoard LFM 459
2936	1.23 g	[	FRANEKER (Fr) hoard PUG 21
2937	1.14 g	[	WIJK-BIJ-DUURSTED (U) NUMIS 1033736
2938	1.15 g	]	FRANEKER (Fr) hoard Geldmuseum BM-17193
2939	1.26 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17134
2940	1.06 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17116
2941	1.29 g	[	FRANEKER (Fr) hoard LFM?
2942	1.15 g	[	FRANEKER (Fr) hoard LFM 491
2943	1.13 g	]	FRANEKER (Fr) hoard LFM 420
2944	1.26 g	[	FRANEKER (Fr) hoard LFM 528
2945	1.06 g	[	FRANEKER (Fr) hoard LFM 354
2946	1.20 g	[	FRANEKER (Fr) hoard LFM 496
2947	1.09 g	[	FRANEKER (Fr) hoard LFM 470
2948	1.08 g	[	FRANEKER (Fr) hoard LFM 510
2949	1.20 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17177
2950	1.02 g	]	FRANEKER (Fr) hoard Geldmuseum BM-17092 p 54
2951	1.11 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17211 p 54
2952	1.10 g	]	FRANEKER (Fr) hoard Geldmuseum BM-17140
2953	1.00 g	[	FRANEKER (Fr) hoard PUG 4
2954	1.09 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17212
2955	1.10 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17201
2956	0.95 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17187
2957	1.00 g	[	FRANEKER (Fr) hoard PUG 13
2958	1.24 g	[	FÖHR (Germany) hoard 38 'silver' (EDXRF) 59%
2959	0.84 g	[	MINNERTSGA (Fr) NUMIS 1020631
2960	1.05 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17137
2961	1.27 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17194
2962	1.08 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17225
2963	1.06 g	]	FRANEKER (Fr) hoard Geldmuseum BM-17213 p 53
2964	1.11 g	[	FÖHR (Germany) hoard 42 'silver' (EDXRF) 65%
2965	1.44 g	[	FRANEKER (Fr) hoard LFM 489
2966	1.10 g	]	FRANEKER (Fr) hoard LFM 471
2967	1.28 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17227 p 53
2968	0.62 g	[	DOMBURG (Z) 463
2969	0.92 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17229
2970	0.88 g	[	FÖHR (Germany) hoard 50 'silver' (EDXRF) 45%
2971	0.98 g	[	FÖHR (Germany) hoard 49 'silver' (EDXRF) 45%
2972	0.76 g	[	DOMBURG (Z) 462
2973	0.91 g	[	SEXBIERUM (Fr) NUMIS 1027647
2974	0.65 g	]	WIJK-BIJ-DUURSTED (U) NUMIS 1033586
2975	0.85 g	[	OOSTERBIERUM (Fr) NUMIS 1022070
2976	1.22 g	[	FRANEKER (Fr) hoard LFM 521
2977	1.04 g	[	FRANEKER (Fr) hoard LFM 480
2978	1.26 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17199
2979	1.12 g	[	FRANEKER (Fr) hoard LFM 419
2980	0.97 g	[	FRANEKER (Fr) hoard LFM 423
2981	1.00 g	[	WIJK-BIJ-DUURSTED (U) NUMIS 1033686
2982	n.r.	[	Friesland Communicated by K. Faber
2983	1.17 g	[	FÖHR (Germany) hoard 40 'silver' (EDXRF) 41%
2984	0.75 g	[	WIJK-BIJ-DUURSTED (U) NUMIS 1033639

2985	1.11	g	L	FRANEKER (Fr) hoard Geldmuseum BM-17226
2986	1.14	g		FRANEKER (Fr) hoard LFM 422
2987	1.38	g	FRANEKER (Fr) hoard LFM 451	
2988	0.62	g	WAGENINGEN (Gld) NUMIS 1032642	
2989	1.16	g	FRANEKER (Fr) hoard Geldmuseum BM-17181	
2990	1.06	g	FRANEKER (Fr) hoard Geldmuseum 1974/0447	
2991	0.77	g	DOMBURG (Z) 468	
2992	1.05	g	FRANEKER (Fr) hoard Geldmuseum BM-17216	
2993	0.87	g	[]	DOMBURG (Z) 464
2994	0.90	g		DOMBURG (Z) 465
2995	0.9	g	Friesland Communicated by K. Faber	
2996	1.06	g	FÖHR (Germany) hoard 46 'silver' (EDXRF) 54%	
2997	1.07	g	FÖHR (Germany) hoard 45 'silver' (EDXRF) 59%	
2998	0.61	g	DOMBURG (Z) 469	
2999	1.15	g	TRIER (Germany) Photoarchive Prof. P. Berghaus; Böhner (1958) p 213	
3000	0.85	g	[]	SLAPPETERP (Fr) NUMIS 1027790 = List Holleman 110 (Mar. 1997) 574
3001	1.22	g		FÖHR (Germany) hoard 39 'silver' (EDXRF) 68%
3002	1.11	g	FÖHR (Germany) hoard 43 'silver' (EDXRF) 39%	
3003	1.08	g	WIJK-BIJ-DUURSTEDEN (U) NUMIS 1033437	
3004	0.97	g	DOMBURG (Z) 461	
3005	1.02	g	OOSTERBIERUM (Fr) NUMIS 1054210	
3006	n.r.		PAPWORTH (C) EMC 2009.0326	
3007	0.93	g	FÖHR (Germany) hoard 53 'silver' (EDXRF) 28%	
3008	1.10	g	FÖHR (Germany) hoard 52 'silver' (EDXRF) 60%	
3009	1.04	g	FRANEKER (Fr) hoard Geldmuseum BM-17214 p 54	
3010	1.05	g]]	FRANEKER (Fr) hoard LFM 533
3011	1.08	g		FRANEKER (Fr) hoard LFM A8101

Variety E2

3012	1.10	g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17183 p 54
3013	1.31	g		FRANEKER (Fr) hoard LFM 514
3014	1.09	g	FRANEKER (Fr) hoard LFM 509	
3015	1.10	g	[]	FRANEKER (Fr) hoard LFM 488
3016	1.20	g		FRANEKER (Fr) hoard LFM 469
3017	1.08	g	FRANEKER (Fr) hoard Geldmuseum BM-17224	
3018	0.82	g	[]	DOMBURG (Z) 481
3019	1.23	g		FRANEKER (Fr) hoard LFM 499
3020	0.78	g	DANKIRKE (Denmark) Bendixen (1972) p 250	
3021	0.78	g	DOMBURG (Z) 477	
3022	1.02	g	FRANEKER (Fr) hoard LFM 479	
3023	1.22	g	FRANEKER (Fr) hoard LFM 477	
3024	0.87	g	England? SCBI 2-40 (Hunterian Museum) = Ruding pl I-12	
3025	0.85	g	England? British Museum 418	
3026	1.22	g	FRANEKER (Fr) hoard LFM 474	
3027	1.22	g	FRANEKER (Fr) hoard LFM 492	
3028	n.r.		ZANDVOORT (ZH) NUMIS 1034500	
3029	1.09	g	FRANEKER (Fr) hoard LFM 462	
3030	1.12	g	FRANEKER (Fr) hoard LFM 483	
3031	0.8	g	[]	WIJK-BIJ-DUURSTEDEN (U) NUMIS 1033435
3032	1.19	g		FRANEKER (Fr) hoard Geldmuseum BM-17095
3033	1.20	g		FRANEKER (Fr) hoard Geldmuseum BM-17126

3034	0.58 g	[]	WAGENINGEN (Gld) NUMIS 1032743
3035	0.77 g		DOMBURG (Z) 483
3036	0.4 g		WIJK-BIJ-DUURSTED (U) Van der Chijs (1866) pl III-3 = NUMIS 1033457
3037	1.16 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17202
3038	0.98 g		DOMBURG (Z) 482 = Dirks (1870) E-g
3039	1.24 g	[]	FRANEKER (Fr) hoard LFM 343
3040	1.25 g		FRANEKER (Fr) hoard LFM 461
3041	1.03 g	[]	DOMBURG (Z) 475
3042	1.14 g		FRANEKER (Fr) hoard Geldmuseum BM-17220
3043	1.19 g	[]	FRANEKER (Fr) hoard LFM 465
3044	1.13 g		FRANEKER (Fr) hoard LFM 520
3045	0.95 g	[]	DOMBURG (Z) 476
3046	1.04 g		FRANEKER (Fr) hoard Geldmuseum BM-17197
3047	0.66 g	[]	DONGJUM (Fr) NUMIS 1008821
3048	1.19 g		FRANEKER (Fr) hoard Geldmuseum BM-17079
3049	0.93 g	[]	DRONRIJP (Fr) NUMIS 101069
3050	0.71 g		DOMBURG (Z) 484
3051	1.27 g	[]	FÖHR (Germany) hoard 59 'silver' (EDXRF) 79%
3052	1.21 g		FRANEKER (Fr) hoard Geldmuseum BM-17105
3053	1.11 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17167
3054	1.15 g		FRANEKER (Fr) hoard LFM 506
3055	0.70 g	[]	DOMBURG (Z) 478
3056	1.01 g		FRANEKER (Fr) hoard Geldmuseum BM-17139 p 53
3057	1.20 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17176
3058	1.08 g		FRANEKER (Fr) hoard Geldmuseum BM-17179
3059	1.18 g	[]	FRANEKER (Fr) hoard LFM 517
3060	1.20 g		FRANEKER (Fr) hoard Geldmuseum BM-17300
3061	1.18 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17115
3062	1.21 g		FRANEKER (Fr) hoard LFM 530
3063	1.08 g	[]	FRANEKER (Fr) hoard LFM 464
3064	1.06 g		FRANEKER (Fr) hoard LFM 478
3065	1.19 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17191
3066	1.23 g		FRANEKER (Fr) hoard LFM 490
3067	1.10 g	[]	DOMBURG (Z) 479
3068	1.12 g		FRANEKER (Fr) hoard Geldmuseum BM-17182
3069	0.4 g	[]	WIJK-BIJ-DUURSTED (U) NUMIS 1033463
3070	1.13 g		FRANEKER (Fr) hoard Geldmuseum BM-17186
3071	1.16 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17207
3072	1.02 g		FRANEKER (Fr) hoard Geldmuseum BM-17094
3073	1.12 g	[]	FRANEKER (Fr) hoard Geldmuseum 1974/0446
3074	1.22 g		FRANEKER (Fr) hoard LFM 466
3075	1.00 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17281 p 54
3076	0.94 g		FRANEKER (Fr) hoard Geldmuseum BM-17296
3077	0.51 g	[]	Netherlands? Geldmuseum BM-17081
3078	1.03 g		FRANEKER (Fr) hoard LFM 5253053
3079	1.10 g	[]	FÖHR (Germany) hoard 61 'silver' (EDXRF) 52%
3080	1.01 g		FÖHR (Germany) hoard 64 'silver' (EDXRF) 44%
3081	0.40 g	[]	DOMBURG (Z) 490
3082	1.15 g		FRANEKER (Fr) hoard Geldmuseum BM-17200
3083	1.00 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17178
3084	1.18 g		FRANEKER (Fr) hoard LFM 486

Die-corpus

3085	1.31 g	]	FRANEKER (Fr) hoard LFM 482
3086	0.75 g		SEXBIERUM (Fr) NUMIS 1027648
3087	0.98 g		FRANEKER (Fr) hoard LFM 498
3088	0.72 g		HELGÖ (Sweden) Malmer (1986) p 250
3089	1.29 g	[]	FRANEKER (Fr) hoard LFM 493
3090	1.07 g		FRANEKER (Fr) hoard Geldmuseum BM-17184

Variety E with crosses in the reverse border

3091	1.42 g		FÖHR (Germany) hoard 36 'silver' (EDXRF) 60%
3092	0.97 g		DOMBURG (Z) 496 p 55
3093	1.10 g		FÖHR (Germany) hoard 44 'silver' (EDXRF) 46%
3094	0.99 g		FÖHR (Germany) hoard 48 'silver' (EDXRF) 75%
3095	0.82 g		FÖHR (Germany) hoard 51 'silver' (EDXRF) 42%
3096	1.16 g		FÖHR (Germany) hoard 41 'silver' (EDXRF) 46%
3097	1.00 g		FÖHR (Germany) hoard 47 'silver' (EDXRF) 38%
3098	n.r.	[]	Friesland In private collection
3099	0.84 g		DOMBURG (Z) 491
3100	0.94 g		DOMBURG (Z) 480 = De Belfort (1892-95) 5815
3101	n.r.		SPALDING (L) p.s. DMM CXLVII = The Searcher (Sep. 2003) p 67
3102	1.10 g		FRANEKER (Fr) hoard PUG 10 p 55
3103	1.10 g	[]	FÖHR (Germany) hoard 60 'silver' (EDXRF) 57%
3104	1.22 g		FRANEKER (Fr) hoard Geldmuseum BM-17228
3105	1.03 g		FRANEKER (Fr) hoard Geldmuseum BM-17180 p 55
3106	0.26 g		WIJK-BIJ-DUURSTEDDE (U) NUMIS 1033562
3107	0.77 g		Unknown. SCBI 50-8 (Hermitage Museum)

Variety Af

3108	1.11 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17172	] <u>variety Af/E mules</u>
3109	1.14 g				FRANEKER (Fr) hoard LFM 433 p 60
3110	1.02 g	[]	FRANEKER (Fr) hoard LFM 450	
3111	0.54 g		FRANEKER (Fr) hoard LFM 505	
3112	1.14 g		FRANEKER (Fr) hoard LFM 460	
3113	1.17 g		FRANEKER (Fr) hoard Geldmuseum BM-17171 p 56	
3114	0.89 g		FRANEKER (Fr) hoard Geldmuseum BM-17208	
3115	1.10 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17173	
3116	1.10 g		FÖHR (Germany) hoard 81 'silver' (EDXRF) 59% p 56	
3117	0.81 g		FRANEKER (Fr) hoard Geldmuseum BM-17174	
3118	0.83 g		DOMBURG (Z) 551	

Variety E not examined

3119	0.76 g	DOMBURG (Z) 462
3120	0.41 g	DOMBURG (Z) 466
3121	0.81 g	DOMBURG (Z) 467
3122	0.64 g	DOMBURG (Z) 470
3123	0.78 g	DOMBURG (Z) 471
3124	0.61 g	DOMBURG (Z) 472
3125	0.62 g	DOMBURG (Z) 473
3126	0.49 g	DOMBURG (Z) 474
3127	0.71 g	DOMBURG (Z) 485
3128	0.67 g	DOMBURG (Z) 488

3129	0.48 g	DOMBURG (Z) 489
3130	0.30 g	DOMBURG (Z) 493
3131	0.43 g	DOMBURG (Z) 494
3132	0.47 g	DOMBURG (Z) 495
3133	0.86 g	DOMBURG (Z) 497
3134	n.r.	SENS (Yonne, France) Lafaurie & Pilet-Lemière (2003) 89.387.3
3135	n.r.	Friesland List Holleman 112 (Sep. 1997) 473
3136	0.86 g	MAINZ (Germany) Stoess (1994) 16
3137	1.20 g	MAINZ (Germany) Stoess (1994) 20
3138	0.52 g	SOUTHAMPTON (Ha) EMC 1988.9009
3139	1.12 g	SPALDING (L) p.s. DMM LXXXV
3140	n.r.	STANTON ST JOHN (O) shown to DMM December 1995
3141	0.97 g	WETHERINGSETT-CUM-BROCKFORD (Sf) CR (1987) 57
3142	0.75 g	WIJK-BIJ-DUURSTED (U) NUMIS 1033458
3143	0.6 g	WIJK-BIJ-DUURSTED (U) NUMIS 1033461
3144	1.00 g	WIJK-BIJ-DUURSTED (U) NUMIS 1033462
3145	0.8 g	WIJK-BIJ-DUURSTED (U) NUMIS 1033731
3146	0.6 g	WIJK-BIJ-DUURSTED (U) NUMIS 1033464

Variety B

3147	0.92 g	MIDLUM (Fr) NUMIS 1020541
3148	1.22 g	FRANEKER (Fr) hoard? Geldmuseum BM-17204
3149	1.14 g	FRANEKER (Fr) hoard LFM 330
3150	1.22 g	FRANEKER (Fr) hoard Geldmuseum BM-17164
3151	1.21 g	FRANEKER (Fr) hoard Geldmuseum BM-17080
3152	1.32 g	FRANEKER (Fr) hoard Geldmuseum BM-17170
3153	1.27 g	FRANEKER (Fr) hoard LFM 346
3154	1.14 g	FRANEKER (Fr) hoard LFM 330
3155	1.21 g	FÖHR (Germany) hoard 68 'silver' (EDXRF) 73%
3156	1.13 g	FRANEKER (Fr) hoard LFM 327
3157	1.24 g	FRANEKER (Fr) hoard Geldmuseum BM-17243
3158	1.12 g	OOSTERMEER (Fr) De Man (1926) pl I-6 (reverse not illustrated)
3159	1.33 g	FRANEKER (Fr) hoard PUG 5
3160	1.21 g	FRANEKER (Fr) hoard Geldmuseum BM-17112
3161	1.19 g	FRANEKER (Fr) hoard LFM 430
3162	0.91 g	DONGJUM (Fr) NUMIS 1008818
3163	1.13 g	FRANEKER (Fr) hoard Geldmuseum BM-17165
3164	1.17 g	FRANEKER (Fr) hoard Geldmuseum BM-17196
3165	1.19 g	FRANEKER (Fr) hoard Geldmuseum BM-17156
3166	1.08 g	FRANEKER (Fr) hoard LFM 332
3167	1.20 g	FRANEKER (Fr) hoard Geldmuseum BM-17082
3168	1.24 g	FRANEKER (Fr) hoard LFM 352
3169	1.33 g	FRANEKER (Fr) hoard LFM 339
3170	1.31 g	FRANEKER (Fr) hoard LFM 347
3171	1.26 g	FRANEKER (Fr) hoard LFM 335
3172	1.30 g	FRANEKER (Fr) hoard LFM 350
3173	1.21 g	FRANEKER (Fr) hoard Geldmuseum BM-17271
3174	1.20 g	FRANEKER (Fr) hoard Geldmuseum BM-17166
3175	1.17 g	FRANEKER (Fr) hoard LFM 337
3176	1.33 g	FRANEKER (Fr) hoard Geldmuseum BM-17083 p 57
3177	1.24 g	FRANEKER (Fr) hoard LFM 349
3178	1.12 g	FRANEKER (Fr) hoard LFM 344

Die-corpus

3179	1.15 g	]	FRANEKER (Fr) hoard Geldmuseum BM-17169
3180	1.16 g	[	Netherlands? Auction J. Schulman (March 1958) 472
3181	1.12 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17168
3182	1.12 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17175
3183	1.29 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17111
3184	1.17 g	[	FRANEKER (Fr) hoard LFM 336
3185	1.16 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17204
3186	1.26 g	[	FRANEKER (Fr) hoard LFM 342
3187	1.29 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17218
3188	1.06 g	[	FRANEKER (Fr) hoard LFM 379
3189	1.21 g	[	FÖHR (Germany) hoard 69 'silver' (EDXRF) 57%
3190	1.10 g	[	FÖHR (Germany) hoard 73 'silver' (EDXRF) 49%
3191	0.88 g	[	FÖHR (Germany) hoard 75 'silver' (EDXRF) 66%
3192	0.46 g	[	DOMBURG (Z) 394
3193	1.17 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17198
3194	0.74 g	[	DOMBURG (Z) 391
3195	1.14 g	[	DOMBURG (Z) 390 = Metcalf (1966) 46 = De Belfort (1892-95) 5842
3196	1.19 g	[	FÖHR (Germany) hoard 72 'silver' (EDXRF) 82%
3197	1.06 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17291
3198	0.25 g	[	WIJK-BIJ-DUURSTEDEN (U) NUMIS 1033733
3199	0.88 g	[	MARKET RASEN (L) Abramson collection E119 = List Gillis (July 2007) WS6158
3200	0.81 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17282
3201	0.9 g	[	WIJK-BIJ-DUURSTEDEN (U) NUMIS 1033455
3202	1.09 g	[	STAMFORD (L) CR 1996-95 = EMC 1996.0095
3203	1.15 g	[	FRANEKER (Fr) hoard LFM A8102
3204	1.02 g	[	FÖHR (Germany) hoard 70 'silver' (EDXRF) 41%
3205	0.91 g	[	DOMBURG (Z) 392
3206	1.14 g	[	FRANEKER (Fr) hoard LFM 334
3207	0.43 g	[	DOMBURG (Z) 393
3208	1.18 g	[	FRANEKER (Fr) hoard LFM 384 p 57
3209	1.12 g	[	FRANEKER (Fr) hoard? Geldmuseum BM-17167
3210	0.99 g	[	FÖHR (Germany) hoard 71 'silver' (EDXRF) 61%
3211	0.65 g	[	WIJK-BIJ-DUURSTEDEN (U) NUMIS 1033450 = Van der Chijs (1866) pl III-5
3212	0.42 g	[	DOMBURG (Z) 395
3213	0.85 g	[	DOMBURG (Z) 396 p 57
3214	1.27 g	[	FRANEKER (Fr) hoard Geldmuseum BM-17276
3215	1.10 g	[	FÖHR (Germany) hoard 74 'silver' (EDXRF) 45%
3216	1.01 g	[	Netherlands? Geldmuseum BM-17069

Variety B not examined

3217	n.r.	BERE REGIS (Do) EMC 1984.1032
3218	n.r.	LONDON (Ln) EMC 1991.0204
3219	n.r.	SPALDING (L) p.s. EMC 2001.1246

Mules of Varieties E, B, and Af

3108			Af/E mule
3109			Af/E mule
3220	0.95 g	FRANEKER (Fr) hoard Geldmuseum BM-17206	E2/B 'mule'
		p 59	

3221	1.07 g	FÖHR (Germany) hoard 79 'silver' (EDXRF) 47%	E/AF 'mule'
		p 56	
3222	0.99 g	FÖHR (Germany) hoard 80 'silver' (EDXRF) 54%	E/AF 'mule'
		p 56	
3223	0.60 g	FÖHR (Germany) hoard 58 'silver' (EDXRF) 42%	B/E1 'mule'
3224	1.12 g	FRANEKER (Fr) hoard LFM 376	B/E1 'mule'
3225	0.99 g	FÖHR (Germany) hoard 57 'silver' (EDXRF) 47%	B/E1 'mule'
		p 59	
3226	n.r.	Netherlands? In private collection www.bonatiele.nl	B/E1 'mule'
3227	0.71 g	FÖHR (Germany) hoard 67 'silver' (EDXRF) 43%	B/E2 'mule'

Variety F

Variety F1

3228	1.09 g	FRANEKER (Fr) hoard LFM 523	[
3229	1.19 g		
3230	1.33 g	FRANEKER (Fr) hoard LFM 511]
3231	0.89 g	FRANEKER (Fr) hoard LFM 453	
3232	1.10 g	FRANEKER (Fr) hoard LFM 429]
3233	0.97 g	England? SCBI 21-944 ex Lockett collection	
3234	0.81 g	DOMBURG (Z) 503]
3235	0.49 g	DOMBURG (Z) 505	
3236	0.53 g	DOMBURG (Z) 504]
3237	1.05 g	DOMBURG (Z) 502	
3238	0.86 g	DOMBURG (Z) 506]
3239	0.75 g	WIJK-BIJ-DUURSTED (U) NUMIS 1033439	
3240	1.09 g	FRANEKER (Fr) hoard Geldmuseum BM-17125]
3241	1.09 g	FRANEKER (Fr) hoard Geldmuseum BM-17159 p 58	
3242	1.11 g	FRANEKER (Fr) hoard LFM 534]
3243	1.11 g	FRANEKER (Fr) hoard LFM 472	
3244	1.27 g	FRANEKER (Fr) hoard Geldmuseum BM-17163]
3245	1.24 g	FRANEKER (Fr) hoard Geldmuseum BM-17292	
3246	1.08 g	England? T&S 255 'silver' (EPMA) 82% p 110]
3247	1.23 g	Netherlands? De Wit collection 109 = sold by J. Schulman (Oct. 1955)	
3248	0.99 g	England? Auction Sotheby (1913) Carlyon Britton collection 158a]
3249	0.99 g	ESCHAREN (NB) NUMIS 1011663	
3250	0.90 g	France? BNF D5075]
3251	1.24 g	FRANEKER (Fr) hoard LFM 536	
3252	1.05 g	FRANEKER (Fr) hoard LFM 348]
3253	0.38 g	Netherlands? Geldmuseum BM-17190	
3254	0.90 g	France? BNF D5074	

Variety F2

3255	0.70 g	RECVLVER (K) MEC 660 = EMC 1986.8660]
3256	0.97 g	FRANEKER (Fr) hoard PUG 3	
3257	0.86 g	FRANEKER (Fr) hoard Geldmuseum BM-17091]
3258	1.14 g	FRANEKER (Fr) hoard Geldmuseum BM-17133	
3259	1.02 g	FRANEKER (Fr) hoard Geldmuseum BM-17102]
3260	1.08 g	FRANEKER (Fr) hoard Geldmuseum BM-17160	
3261	1.08 g	FRANEKER (Fr) hoard Geldmuseum BM-17078]
3262	1.26 g	FRANEKER (Fr) hoard LFM 433	

Die-corpus

3263	1.11	g	FRANEKER (Fr) hoard LFM 456
3264	1.22	g	FRANEKER (Fr) hoard LFM 457
3265	1.12	g	FRANEKER (Fr) hoard LFM 473
3266	1.11	g	FRANEKER (Fr) hoard LFM 501
3267	1.18	g	FRANEKER (Fr) hoard LFM 508
3268	0.95	g	FRANEKER (Fr) hoard LFM 512
3269	1.25	g	FRANEKER (Fr) hoard LFM 502
3270	1.29	g	FRANEKER (Fr) hoard LFM 273
3271	1.20	g	FRANEKER (Fr) hoard LFM 340
3272	0.99	g	FRANEKER (Fr) hoard LFM 386
3273	1.18	g	FRANEKER (Fr) hoard LFM 357
3274	1.18	g	FRANEKER (Fr) hoard LFM 527
3275	1.06	g	FRANEKER (Fr) hoard LFM 532
3276	1.22	g	FRANEKER (Fr) hoard Geldmuseum BM-17203
3277	0.76	g	DOMBURG (Z) 509
3278	1.08	g	FRANEKER (Fr) hoard Geldmuseum BM-17158
3279	1.22	g	FRANEKER (Fr) hoard LFM 436
3280	1.21	g	FRANEKER (Fr) hoard LFM 485
3281	1.06	g	FRANEKER (Fr) hoard LFM 529
3282	1.22	g	FRANEKER (Fr) hoard LFM 458
3283	1.40	g	FRANEKER (Fr) hoard LFM 504
3284	0.94	g	FRANEKER (Fr) hoard PUG 11
3285	1.19	g	FRANEKER (Fr) hoard LFM 428
3286	1.24	g	FRANEKER (Fr) hoard LFM 522
3287	1.21	g	FRANEKER (Fr) hoard LFM 495
3288	1.20	g	FRANEKER (Fr) hoard Geldmuseum BM-17124
3289	1.19	g	FRANEKER (Fr) hoard Geldmuseum BM-17150
3290	1.28	g	FRANEKER (Fr) hoard PUG 11
3291	1.07	g	FRANEKER (Fr) hoard Geldmuseum BM-17123
3292	1.16	g	FRANEKER (Fr) hoard Geldmuseum BM-17147
3293	1.12	g	FRANEKER (Fr) hoard Geldmuseum BM-17143
3294	1.24	g	FRANEKER (Fr) hoard Geldmuseum BM-17103
3295	1.07	g	FRANEKER (Fr) hoard Geldmuseum BM-17152
3296	1.17	g	FRANEKER (Fr) hoard Geldmuseum BM-17142
3297	1.17	g	FRANEKER (Fr) hoard LFM 494
3298	1.20	g	FRANEKER (Fr) hoard Geldmuseum BM-17120
3299	1.11	g	FRANEKER (Fr) hoard Geldmuseum BM-17110
3300	1.20	g	FRANEKER (Fr) hoard Geldmuseum BM-17101
3301	1.21	g	FRANEKER (Fr) hoard LFM 500
3302	1.18	g	FRANEKER (Fr) hoard Geldmuseum BM-17085
3303	1.20	g	FRANEKER (Fr) hoard Geldmuseum BM-17128
3304	1.24	g	FRANEKER (Fr) hoard LFM 522
3305	1.04	g	FRANEKER (Fr) hoard Geldmuseum BM-17129
3306	0.77	g	MAURIK (Gld) Op den Velde (1982) 11 = NUMIS 1019384
3307	0.6	g	WIJK-BIJ-DUURSTEDEN (U) NUMIS 1033448
3308	1.10	g	FRANEKER (Fr) hoard Geldmuseum BM-17161
3309	1.36	g	FRANEKER (Fr) hoard Geldmuseum BM-17131
3310	0.85	g	FRANEKER (Fr) hoard Geldmuseum BM-17098
3311	1.25	g	FRANEKER (Fr) hoard Geldmuseum 1974-0443
3312	1.19	g	FRANEKER (Fr) hoard Geldmuseum BM-17122
3313	1.03	g	FRANEKER (Fr) hoard LFM 367
3314	1.11	g	FRANEKER (Fr) hoard Geldmuseum BM-17155 p 58

3315	1.20 g	FRANEKER (Fr) hoard LFM 374
3316	1.10 g	FRANEKER (Fr) hoard LFM 497
3317	1.21 g	FRANEKER (Fr) hoard Geldmuseum BM-17144
3318	1.16 g	FRANEKER (Fr) hoard Geldmuseum BM-17154
3319	1.13 g	FRANEKER (Fr) hoard Geldmuseum BM-17153
3320	1.12 g	FRANEKER (Fr) hoard Geldmuseum BM-17132
3321	1.16 g	FRANEKER (Fr) hoard LFM 463
3322	1.11 g	FRANEKER (Fr) hoard LFM 537
3323	1.20 g	FRANEKER (Fr) hoard LFM 360
3324	1.21 g	FRANEKER (Fr) hoard Geldmuseum BM-17135
3325	1.04 g	FRANEKER (Fr) hoard LFM 381
3326	1.26 g	FRANEKER (Fr) hoard LFM 385
3327	1.10 g	FRANEKER (Fr) hoard LFM 519
3328	1.25 g	FRANEKER (Fr) hoard Geldmuseum 1974/0443

Variety F3

3329	1.14 g	FRANEKER (Fr) hoard Geldmuseum BM-17188
3330	1.10 g	FRANEKER (Fr) hoard Geldmuseum BM-17136
3331	1.22 g	FRANEKER (Fr) hoard Geldmuseum BM-17096
3332	1.05 g	FRANEKER (Fr) hoard LFM 331
3333	1.03 g	FRANEKER (Fr) hoard LFM 361
3334	1.19 g	FRANEKER (Fr) hoard Geldmuseum 1974/0445
3335	1.24 g	FRANEKER (Fr) hoard Geldmuseum BM-17084
3336	1.04 g	FRANEKER (Fr) hoard Geldmuseum BM-17219
3337	1.26 g	FRANEKER (Fr) hoard Geldmuseum BM-17097
3338	1.10 g	FRANEKER (Fr) hoard Geldmuseum BM-17146
3339	1.13 g	FRANEKER (Fr) hoard Geldmuseum BM-17195
3340	1.14 g	FRANEKER (Fr) hoard Geldmuseum BM-17106
3341	1.25 g	FRANEKER (Fr) hoard LFM 378
3342	1.16 g	FRANEKER (Fr) hoard LFM 382
3343	1.12 g	FRANEKER (Fr) hoard LFM 434
3344	1.20 g	FRANEKER (Fr) hoard LFM 435
3345	1.13 g	FRANEKER (Fr) hoard LFM 364
3346	1.07 g	FRANEKER (Fr) hoard LFM 363
3347	1.06 g	FRANEKER (Fr) hoard LFM 366
3348	1.01 g	FRANEKER (Fr) hoard LFM 353
3349	1.12 g	FRANEKER (Fr) hoard LFM 362
3350	1.26 g	FRANEKER (Fr) hoard Geldmuseum BM-17074
3351	1.11 g	FRANEKER (Fr) hoard Geldmuseum BM-17141
3352	1.21 g	FRANEKER (Fr) hoard Geldmuseum BM-17130
3353	1.18 g	FRANEKER (Fr) hoard Geldmuseum BM-17263
3354	1.34 g	FRANEKER (Fr) hoard Geldmuseum BM-17114
3355	1.09 g	FRANEKER (Fr) hoard Geldmuseum BM-17113
3356	1.15 g	FRANEKER (Fr) hoard Geldmuseum BM-17148
3357	1.14 g	FRANEKER (Fr) hoard Geldmuseum BM-17185
3358	1.16 g	FRANEKER (Fr) hoard Geldmuseum BM-17151 p 58
3359	1.10 g	FRANEKER (Fr) hoard LFM 455
3360	1.19 g	FRANEKER (Fr) hoard LFM 452
3361	1.03 g	FRANEKER (Fr) hoard LFM 380
3362	1.18 g	FRANEKER (Fr) hoard LFM 454
3363	1.25 g	FRANEKER (Fr) hoard LFM 326
3364	1.18 g	FRANEKER (Fr) hoard LFM 358

3365	1.10 g	L]	FRANEKER (Fr) hoard LFM 421
3366	0.50 g		WAGENINGEN (Gld) NUMIS 1032641

Variety F4

3367	1.32 g	[	FRANEKER (Fr) hoard LFM 371
3368	1.18 g		FRANEKER (Fr) hoard LFM 526
3369	1.03 g	[]	FRANEKER (Fr) hoard LFM 531
3370	1.08 g		FRANEKER (Fr) hoard LFM 535
3371	1.02 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17274
3372	1.15 g		FRANEKER (Fr) hoard PUG 9
3373	0.94 g	[]	FRANEKER (Fr) hoard LFM 513
3374	1.12 g		FRANEKER (Fr) hoard Geldmuseum BM-17099
3375	1.32 g	[]	FRANEKER (Fr) hoard LFM 51
3376	1.20 g		FRANEKER (Fr) hoard LFM 476
3377	0.93 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17119
3378	0.93 g		FRANEKER (Fr) hoard Geldmuseum BM-17093 p 58
3379	1.04 g	[]	FRANEKER (Fr) hoard LFM 475
3380	1.17 g		FRANEKER (Fr) hoard LFM 449
3381	0.43 g	[]	WESTENSCHOUWEN (Z) Op den Velde & Klaassen (2004) 957
3382	1.22 g		FRANEKER (Fr) hoard LFM 372
3383	1.11 g	[]	FRANEKER (Fr) hoard LFM 481
3384	1.14 g		England? Abramson collection E193 = Beowulf collection 43 = List Vosper (Jan. 2000)
3385	1.15 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17127
3386	1.12 g		FRANEKER (Fr) hoard Geldmuseum BM-17138
3387	1.06 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17162
3388	1.22 g		FRANEKER (Fr) hoard Geldmuseum BM-17145
3389	1.21 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17149
3390	1.22 g		FRANEKER (Fr) hoard Geldmuseum BM-17157
3391	0.86 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17299 p 58
3392	1.15 g		FRANEKER (Fr) hoard Geldmuseum BM-17087
3393	1.18 g	[]	FRANEKER (Fr) hoard LFM 484
3394	1.10 g		FRANEKER (Fr) hoard LFM 370
3395	1.27 g	[]	FRANEKER (Fr) hoard LFM 356
3396	0.80 g		KATWIJK a/d RIJN (ZH) 54 De Wit collection 110 = NUMIS 1016269 = Auction Coin Investment 52 (1997) 336 p 59
3397	1.10 g	[]	FRANEKER (Fr) hoard Geldmuseum BM-17121 p 59
3398	1.07 g		FRANEKER (Fr) hoard Geldmuseum BM-17118
3399	1.03 g	[]	FRANEKER (Fr) hoard LFM 333
3400	1.04 g		FRANEKER (Fr) hoard LFM 359
3401	0.53 g	[]	DOMBURG (Z) 508
3402	0.27 g		WESTENSCHOUWEN (Z) 956
3403	0.9 g	[]	HOUTEN (U) NUMIS 1015304
3404	0.85 g		Unknown SCBI 21-943 = De Belfort (1892-95) 5803 = 5859 p 59
3405	0.61 g	[]	WIJK-BIJ-DUURSTEDEN (U) Geldmuseum BM-17297
3406	0.84 g		WIJK-BIJ-DUURSTEDEN (U) Geldmuseum BM-17280
3407	0.65 g	[]	FRANEKER (Fr) hoard PUG 2
3408	0.57 g		WAGENINGEN (Gld) NUMIS 1032640
3409	0.66 g	[]	DOMBURG (Z) 511
3410	n.r.		SPALDING (L) p.s. DMM CLI
3411	1.11 g	[]	OOSTERBIERUM (Fr) NUMIS 1051965
3412	1.10 g		KATWIJK a/d RIJN (ZH) 53 NUMIS 1016271

3413	0.47 g	DOMBURG (Z) 514
3414	0.21 g	] WESTENSCHOUWEN (Z) Op den Velde & Klaassen (2004) 955 [] BIDFORD-ON-AVON (Wa) CR (1987) 56 = EMC 1987.0056 [] England? T&S 257 = CR (1987) 56A 'silver' (EPMA) 42% p 110 [] WIJK-BIJ-DUURSTEDEN (U) NUMIS 0133440
3415	0.88 g	
3416	0.98 g	
3417	0.4 g	
3418	0.61 g	England? SCBI 20-331 = ex Seaby
3419	0.75 g	DOMBURG (Z) 520
3420	0.31 g	RIBE (Denmark) Feveile (2006a) p 292 p 59
3421	n.r.	England? P. Finn list 7-31
3422	1.03 g	FRANEKER (Fr) hoard Geldmuseum BM-17247

Variety F not checked for die-identity

3423	0.49 g	DOMBURG (Z) 507
3424	0.49 g	DOMBURG (Z) 510
3425	0.65 g	DOMBURG (Z) 512
3426	0.92 g	DOMBURG (Z) 513
3427	0.53 g	DOMBURG (Z) 515
3428	0.94 g	DOMBURG (Z) 516
3429	0.52 g	DOMBURG (Z) 517
3430	0.37 g	DOMBURG (Z) 518
3431	0.48 g	DOMBURG (Z) 519
3432	0.51 g	DOMBURG (Z) 521 p 59
3433	0.69 g	France? BNF R2365
3434	0.74 g	WESTENSCHOUWEN (Z) Op den Velde & Klaassen (2004) 954
3435	0.55 g	WIJK-BIJ-DUURSTEDEN (U) NUMIS 1033802
3436	0.41 g	WIJK-BIJ-DUURSTEDEN (U) Geldmuseum BM-17290

THE VERNVS GROUP*VERNVS group 1: 'Plumed bird' derivatives*

3437	1.29 g	ASTON ROWANT (O) hoard British Museum 174 = SEC pl 14-5 = T&S p 142
3438	1.19 g	England? T&S 146 = EMC 1993.9146 p 208
3439	1.27 g	England? De Wit collection 159 = Auction Vecchi (June 1998) Subjack collection 29 p 214
3440	1.21 g	England? British Museum 175 = Hill (1953) p 95
3441	1.27 g	[] ASTON ROWANT (O) hoard British Museum 176 [] ROYSTON (Hrt) p.s. EMC 1989.5173 [] HOUTEN (U) NUMIS 1015428 [] REMMERDEN (Gld) hoard p 127
3442	0.95 g	
3443	1.1 g	
3444	1.14 g	

VERNVS group 2

3445	n.r.	[] CANTERBURY (K) EMC 2007.0312 [] ASTON ROWANT (O) hoard De Wit collection 156 = Spink (1983) = SEC p 149-2 p 209
3446	1.16 g	
3447	1.1 g	England? Vosper (April 2008) SS.UPFU
3448	1.20 g	WATTON (Nf) Abramson collection E905 = EMC 2004.0074
3449	1.22 g	England? British Museum 170 = Keary (1887) 52
3450	1.24 g	[] ASTON ROWANT (O) hoard British Museum 171 = SEC pl 14-4 = T&S p 142

- 3451 1.59 g [] POTTERSURY (Nth) De Wit collection 157 = List Rudd 42 (1999) 28 = EMC 1999.0015 **p 209**
- 3452 1.09 g [] England? Abramson collection E904
- 3453 1.02 g [] England? De Wit collection 158 = Spink (1994)
- 3454 1.20 g [] England? T&Sp 142 = P. Finn list 9-28
- 3455 1.08 g [] Ipswich (Sf) region. T&S 147 = CR (1987) 68 = EMC 1993.9147 'silver' (EPMA) 94%
- 3456 1.16 g [] England? Auction Vecchi (June 1998) Subjack collection 28
- 3457 1.1 g [] GREAT MONGEHAM (K) EMC 2002.0287
- 3458 1.18 g [] ASTON ROWANT (O) hoard British Museum 172 = SEC pl 14-3
- 3459 1.17 g [] England? British Museum 173 = Keary (1887) 26
- 3460 1.25 g [] DOMBURG (Z)? 311
- 3461 1.23 g [] England? P. Finn list 9-29
- 3462 1.21 g [] England? Abramson collection E903 = SiEMC 1, Beowulf collection 18
- 3463 1.23 g [] England? Abramson collection E890
- 3464 1.15 g [] England? De Wit collection 153 = Spink (1983)3863 = SEC p 149-1 = T&S p 143 **p 210**
- 3465 1.18 g [] Middlesex. De Wit collection 154 = Spink (1999) **p 210**
- 3466 1.30 g [] ASHDON (Ess) T&S 148 = EMC 1993.9148 **p 211**
- 3467 1.16 g [] England? British Museum 169 = Keary (1887) 24
- 3468 n.r. [] England? Spink NC (1970) p 407 item 11172
- 3469 n.r. [] Netherlands? In private collection www.bonatiele.nl
- 3470 1.11 g [] England? De Wit collection 155 = Auction Vecchi (June 1998) Subjack collection 26 **p 211**
- 3471 1.10 g [] England? Abramson collection E900
- VERNVS group 3*
- 3472 1.11 g [] COBHAM (K) T&S 150 = EMC 1993.9150
- 3473 1.04 g [] ERWARTON (Sf) EMC 1999.0167
- 3474 1.14 g [] England? T&S 149 = SCBI 20 (Mack) 330 = SEC pl 14-2 'silver' (EPMA) 95%
- 3475 1.20 g [] England? De Wit collection 160 = P. Finn (1995) **p 212**
- 3476 1.1 g [] WATTON (Nf) Abramson collection E915 = EMC 2004.0075
- 3477 1.24 g [] SWINESHEAD (L) EMC 1996.0124
- 3478 1.20 g [] England? Abramson collection E910
- 3479 0.97 g [] England? J. Elsen liste 237-354 = P. Finn list 15-44
- 3480 1.23 g [] DOVER (K) Rigold & Metcalf (1977) pl I-15 = EMC 1977.0024
- 3481 1.10 g [] BARHAM (Sf) British Museum 178
- 3482 1.20 g [] FRECKENHAM (Sf) Abramson collection E912 = CR (2006) 105 = EMC 2005.0266
- 3483 0.78 g [] SPRINGFIELD (Ess) SEC pl 14-1 = MEC 690A = EMC 1986.86901
- 3484 1.17 g [] LONG STRATTON (Nf) EMC 2008.0053
- 3485 1.16 g [] REMMERDEN (Gld) hoard V044 = T&S p 146 **p 127**
- 3486 1.09 g [] SULLINGTON (Sx) British Museum 177 = SEC p 229 = Hill (1953) pl VI-2 = EMC 1977.0077

VERNVS not checked for die-identity

- 3487 0.83 g BARHAM (Sf) p.s. EMC 1984.1004
- 3488 1.1 g BARHAM (Sf) p.s. EMC 1984.1005

VERNVS group imitation?

3489 0.91 g England? Auction Vecchi (June 1998) Subjack collection 119 **p 214**

STEPPED CROSS VARIETY (BMC Type 53)

- 3490 1.00 g GRANTHAM (L) Abramson collection E420
 3491 1.29 g Netherlands? T&S 259 = Auction F. Muller (1904) pl II-64 'silver' (EPMA) 94% **p 232**
- 3492 1.07 g [RECVLVER (K) British Museum 419 = Keary (1887) 199 = Blackburn & Bonser (1985) 62a
 3493 1.10 g [CAISTOR ST. EDMUND (Nf) T&S 260 = Auction Christies (1986) lot 356 'silver' (EPMA) 94%
 3494 1.19 g [COTHEN (Gld) De Wit collection 380 = Auction Coin Investment 52 (1997) 339 **p 232**
 3495 1.19 g [England? Auction Vecchi (June 1998) Subjack collection 110 **p 226**
 3496 0.80 g [England? Auction Classical Numismatic Group 41 (March 1997) 2880 **p 226**
- 3497 0.77 g MAURIK (Gld) 15 De Wit collection 379 = NUMIS 1006732 = Auction Coin Investment 15 (1982) 236
- 3498 n.r. [Yorkshire CR (2005) 90 = EMC 2004.0175
 3499 1.20 g [NICE-CIMIEZ (France) hoard Le Gentilhomme (1938) 39 = BNF MF0087 **p 233**
- 3500 n.r. [England? List Gillis (July 2007) WS 2133
 3501 n.r. [England? List Gillis (July 2007) WS 6153
 3502 1.18 g [CAMBRIDGE (C) (near) EMC 1996.0087 = CR (1996) 87 = SiEMC 1 Beowulf collection 45
- 3503 1.1 g [WEST FIRLE (Sx) CR (2007) 130 = EMC 2006.0099
 3504 1.16 g [WITTERING (C) DMM
 3505 n.r. [England? P. Finn list 3-15
 3506 1.08 g [England? P. Finn list 9-31 = list 14-52 = J. Elsen liste 237-356 = list 240-481
- 3507 1.24 g [SLEDMERE (ERY) p.s. Bonser 1328
 3508 1.15 g [CODDENHAM (Sf) p.s. EMC 1990.0175
 3509 n.r. [DORCHESTER (O) EMC 2001.1157
- 3510 1.16 g [England? P. Finn list 17-61
 3511 1.19 g [England? P. Finn list 15-48 = J. Elsen liste 235-385 = liste 239-365 **p 226**
 3512 1.01 g [SOUTHAMPTON (Ha) Hamwic, Six Dials site, SOU 258
 3513 1.02 g [HAVERSHAM (Bk) CR (2002) 106 = CR (2006) 98 = EMC 2002.0227 = EMC 2005.0099
- 3514 1.17 g [THETFORD area (Nf) T&S 261 = EMC 1993.9261 'silver' (EPMA) 94% **p 227**
 3515 1.16 g [France? BNF D6097

Stepped cross variety, possibly imitative, or later in the series?

- 3516 n.r. [Artois (France)? Hermand (1843) 6
 3517 n.r. [France? De Belfort (1892-95) 5856 collection De P. d'Amécourt
 3518 1.26 g [KLOSTER BARTHE (Germany) hoard 24 ELM 694 **p 227**
 3519 0.37 g [DOMBURG (Z) 306
 3520 0.24 g [DOMBURG (Z) 307 = Dirks (1870) F-16

3521	1.00 g	[	England? Abramson collection E400 p 236
3522	1.10 g		England? T&S 258 = EMC 1993.9258 'silver' (EPMA) 76% p 236
3523	1.31 g		Humberside. Abramson collection E410 p 237
3524	1.01 g		England? British Museum 420

Stepped cross variety imitations

3525	1.00 g	England? Abramson collection E430 p 236
3526	1.08 g	SIX HILLS (Lei) (near) T&S 262 = EMC 1985.0062 'silver' (EPMA) 94%
3527	0.83 g	England? Auction Baldwin (May 2002) = SiEMC1 Beowulf collection 46 p 236
3528	0.82 g	England? De Wit collection 371 = P. Finn list 9-32 (silver plated copper) p 238
3529	1.10 g	Unknown. Cabinet des médailles Brussels. Hill (c. 1974) BBR 32
3530	0.63 g	DOMBURG (Z) 305
3531	1.21 g	SPALDING (L) p.s. DMM p 231
3532	0.89 g	SAINT-BAUZILLE-DE-MONTMEL (Fr) Lafaurie & Pilet-Lemière (2003) 34.242.4 p 233

Stepped cross variety of uncertain type, and not checked for die-identity

3533	n.r.	BRADFORD PEVERELL (Do) DMM
3534	n.r.	DOVER (K) DMM
3535	n.r.	SLEDMERE (ERY) p.s. Bonser 1442
3536	n.r.	SLEDMERE (ERY) p.s. Bonser 1817A
3537	n.r.	WATTON (Nf) DMM
3538	n.r.	WITNESHAM (Sf) SEC p 266

ÆTHILIRÆD VARIETY (BMC/Stewart type 105) Porcupine obverse, runic reverse

3539	n.r.	[	East Anglia EMC 2001.0544
3540	1.11 g		BRADENHAM (Nf) P. Finn list 4-29 = CR (1994) 139 = EMC 1994.0139
3541	1.06 g		England? Ex Lockett collection = SCBI 20-312 (Mack collection)
3542	1.08 g		England? De Wit collection 274 = Blackburn & Bonser (1986) 95B = Spink (1986)
3543	1.30 g	[	STONE-NEXT-FAVERSHAM (K) British Museum 422 = EMC 1977.0074
3544	1.25 g		RECVLVER (K) BM 421 = Keary (1887) p 24-4 = Ruding (1840) pl 3 = Hill (1949/51) pl IV-39
3545	1.15 g	MARKET WEIGHTON (ERY) EMC 1999.0110	
3546	0.86 g	[	SOUTHAMPTON (Ha) Metcalf (1988a) 20 = EMC 1988.9020 'silver' (EPMA) 97% p 218
3547	1.09 g		DOMBURG (Z) 308
3548	1.20 g	[	SLEDMERE (ERY) p.s. Bonser 1329
3549	1.23 g		TIBENHAM (Nf) CR (1997) 60 = EMC 1997.0060
3550	1.14 g	[	England? Auction Vecchi June (1998) Subjack collection 31 p 215
3551	1.21 g		SLEDMERE (ERY) p.s. Bonser 1262
3552	n.r.	[	SHIPSTON ON STOUR (Wa) DMM
3553	n.r.		SANDWICK (K) EMC 2001.0678
3554	1.15 g	[	MAIDSTONE (K) CR (2005) 91 = EMC 2004.0201

3555	1.22 g	|	Unknown SCBI 36-27 (Berlin Museum)
3556	1.10 g	[	England? Abramson collection E500
3557	1.09 g	]	TUDDENHAM (Sf) CR (1997) 61 = EMC 1997.0003
3558	n.r.	[	DUNMOW (Ess) Communicated by G. Hovinga
3559	1.3 g	]	ST. PETERS, BROADSTAIRS (K) CR (1998) 65 = EMC 1998.2065
3560	1.25 g	[	England? SCBI 2-49 (Hunterian Museum)
3561	1.17 g	]	GREAT BIRCHAM (Nf) Blackburn & Bonser (1986) No 95 = EMC 1986.0095 p 215
3562	1.15 g	[	KEELBY (L) CR (2007) 131 = EMC 2006.0143
3563	1.16 g	]	SLEDMERE (ERY) p.s. Bonser 1287 = Spink NC (1994) 2132 = Beowulf collection 12
3564	1.10 g	[	England? P. Finn list 10-32
3565	1.1 g	]	LOUTH (L) EMC 2001.0699
3566	1.16 g	[	England? T&S 134 = EMC 1993.9134 'silver' (EPMA) 86%
3567	0.95 g	]	DOMBURG (Z) 310 = Blackburn & Bonser (1986) No 95C
3568	1.11 g	[	Unknown SCBI 36-28 (Berlin Museum)
3569	n.r.	]	DOMBURG (Z) 309 De Man (1895) pl II-17

Aethiliræd variety not checked for die-identity

3570 n.r. Unknown De Belfort (1892-95) 2083 = Cartier (1839) p 419 pl XVII-1

Aethiliræd variety, porcupine with 'snout'

3571	1.06 g		CANTERBURY (K) T&S 135 = EMC 1993.9135 'silver' (EPMA) 88% p 217
3572	1.19 g	[	WOODHAM WALTER (Ess) hoard British Museum 423
3573	n.r.	[	HURSTBOURNE PRIORS (Ha) DMM
3574	1.05 g	]	MINSTER-IN-THANET (K) EMC 1994.0138
3575	n.r.	[	Unknown Communicated by G. Hovinga
3576	n.r.	]	Kent EMC 2001.0694 p 215

Aethiliræd variety imitations

3577	1.15 g	[	SHIPDHAM (Nf) CR (1994) 140 = EMC 1994.0140 p 217
3578	1.24 g	]	England? British Museum 424 = Keary (1887) p 24-6 = Hill (1949-51) pl IV-41
3579	1.16 g	[	England? British Museum 425 = Hill (1949-51) pl IV-40 = Blackburn & Bonser (1986) 95A
3580	1.1 g	]	England? Abramson collection E550 = list Vosper (Aug. 2008) SSUUJU
3581	0.79 g		Essex (north-west) Bonser & Carter (2008) fig 9

MODERN FORGERIES AND DOUBTFUL SPECIMENS

3582	1.25 g		Auction Vecchi (June 1998) Subjack collection 27
3583	1.22 g		Auction Vecchi (June 1998) Subjack collection 14
3584	0.97 g		De Wit collection S138 = Auction Coin Investment 52 (1997) 334
3585	0.76 g		Auction Coin Investment 52 (1997) 340 (St. Annaparochie)
3586	n.r.		Communicated by K. Faber (St. Annaparochie)

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This index *excludes* hoard-provenances, and also the numerous finds from Domburg, as well as all those single finds vaguely described as coming from 'England' or from 'the Netherlands'. Dutch provenances indicate their province, for which see the map on p 175. English counties are in accordance with their historic (pre-1974) boundaries, using the standard abbreviations of the English Place Name Society. p.s. = productive site. Alphabetization follows English-Language practice.

The very large number of places where porcupines have been found, especially in eastern England, is powerful evidence of the pervasiveness of a money economy.

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11. ACKNOWLEDGEMENTS

This study could not have been completed without the valuable help of many colleagues and friends. The staff-members of the *Geldmuseum* gave very much appreciated assistance. We have to mention in particular Jan Pelsdonk and Bauke Jan van der Veen for their efforts to complete our Corpus of Series E sceattas. The NUMIS and EARLY MEDIEVAL COINS databases, and their easy access by internet have greatly facilitated our study. We sincerely admire all professionals who have worked so hard to create and update these indispensable files.

We remember with gratitude our late colleague Cees Klaassen, who worked so hard to secure the publication of the Domburg finds. The late Klaas Faber has been generous in his help, drawing our attention to many new finds, and rescuing their provenances from oblivion.

Gareth Williams and Anna Gannon generously allowed us to study the many Series E coins kept in the British Museum, and provided photographs of them with a detailed description. Johannes Heinrichs offered indispensable aid by sharing the results of his current research on sceatta finds in Germany. We are greatly indebted to Claus Feveile for his comments and the detailed information on Scandinavian finds. Jannos Coz kindly shared his research on the sceattas in the National Collection in Paris with us. Mark Blackburn, Mike Bonser, Rolf Bärenfänger, Erik Graafstal, Gosse Hovinga, Peter Ilisch, Egge Knol, Gert Kronsweide, Jens Christian Moesgaard, Jan Pelsdonk, Arent Pol, Vincent van Vilsteren, and Gareth Williams have to be mentioned with gratitude for their prompt responses to requests from our side. Several collectors have been so kind to give us access to their collections, with a wealth of new material and information. We are grateful to all these collectors who, for understandable reasons, want to stay anonymous. In particular detailed information and excellent illustrations of coins in their possession were provided by Wim de Wit, Tony Abramson, Gosse Hovinga, Arie van Herwijnen, and Dick Purmer. We also have to mention the kind cooperation of many reliable coin dealers. Furthermore, we very much appreciate the efforts of the serious metal detectorists who have recovered so many sceattas and reported them for registration.

We have to mention our appreciation for the editors of this journal, in particular Nico Arkestein and Jos Benders, for their careful reading of the manuscript, and their very useful comments and suggestions for improvement of the text. Finally, we want to thank in advance all those who will give their reactions and comments on this study.

12. THE AUTHORS

Professor D.M. METCALF, D.Phil, D.Litt, has been deeply interested in sceattas for more than forty years. His active interest began in 1965, when he published a critique of the late Stuart Rigold's epoch-making study, 'The two primary series of sceattas'. A still classic study is 'A stylistic analysis of the "porcupine" sceattas' from 1966. In 1984 he organized, with Dr David Hill, an international symposium at Oxford, 'Sceattas in England and on the Continent'. His three-volume survey of the sceattas series was published by the Royal Numismatic Society in 1993-1994. He is currently publishing a series of articles, in the *British Numismatic Journal* from 2000 onwards, and elsewhere, on the regional circulation patterns of sceattas. In 2009 he published a comprehensive study of the history of Byzantine Cyprus, based on archaeological evidence, coin finds, and especially lead seals.

Professor Metcalf was Keeper of the Heberden Coin Room and Professor of Numismatics, Oxford University, and is an Emeritus Fellow of Wolfson College, Oxford. He served as editor of the *Numismatic Chronicle* (1974-1984) and President of the Royal Numismatic Society (1994-1999). He has received the Medal of that society, the Huntingdon Medal of the American Numismatic Society, the Sanford Saltus gold medal of the British Numismatic Society, the *jeton de vermeil* of the French Numismatic Society, and other awards.

Dr. W. OP DEN VELDE MD DSc studied medicine at Leiden University and graduated in 1968. During his study he published his MD thesis on schizophrenia. He specialized in psychiatry from 1970-1974. He was head of the department of Psychiatry and trainer in psychiatry at St. Lucas Andreas Hospital in Amsterdam until 2001. He published around 60 articles on the psychological consequences of exposure to war stress, and in 1993 he received the *Ramaer* gold medal of the *Nederlandse Vereniging voor Psychiatrie*. In 2001 he was appointed as *Officier in de Orde van Oranje Nassau*. His interest in sceattas dates from 1980, when he examined the sceattas found at Maurik and Rijswijk, and published them in the *Jaarboek voor Munt- en Penningkunde* for 1982. His contacts with Prof. Metcalf started in 1980. Since then he has written several articles on early medieval European and also on Chinese coinage. Together with the late Cees Klaassen he has published a catalogue of the sceattas found at Domburg. He served from 1982 to 2008 as member of the editorial board of the *Jaarboek voor Munt- en Penningkunde*.

Both authors are honorary members of the *Koninklijk Nederlands Genootschap voor Munt- en Penningkunde*.

13. SUMMARY

Chapter 1. Introduction

The so-called porcupine/standard sceattas are the most plentiful of all sceatta types. The number of proposed mint-places is almost equal to the number of serious studies. Until the first half of the 20th century the dominant view was that they were minted in England. The bewildering number of varieties were once interpreted as the currency of various regions. Gradually it became clear that most porcupine varieties were struck in the realm of the present-day Netherlands. And the many varieties are better understood as the issues struck during successive phases: primary phase 695 – *c.* 715/720; secondary phase *c.* 720 – *c.* 740; tertiary phase *c.* 740 – 800?

A Corpus of all porcupine sceattas, known to the authors in 2009, was compiled. Of these over 3,500 coins the provenances and the weights were recorded, and they were checked for die-duplication and die-linkage. This Corpus is the basis of the study.

Chapter 2. Procedures and methods

The procedures followed to check die-identity, estimation of the total volume, the dating of the porcupine varieties, and the interpretation of find patterns are described in this chapter. The English single finds were analyzed by a refined method, regression analysis. Distribution patterns of single finds are expressed as absolute numbers and ratios per locality. Only conspicuous and evident differences in find distribution are taken into consideration, and no formal statistical test of significance was employed.

Chapter 3. Stylistic classification

The porcupine sceattas of the three different periods of production are classified into varieties and sub-varieties. Stylistic analysis is used to define groups of coins which are formally similar in their design. Each group represents, hopefully, a phase of the output of a particular workshop.

The simple design of the porcupines is very easy to copy. Each category may therefore include a certain number of unofficial imitations, and even some contemporary forgeries. However, it is unlikely that the overlooked copies

affect the main conclusions of this study. The primary and tertiary phases were moderately free of imitations, but the secondary phase includes a sizeable number of unofficial copies. There are no indications that these imitative specimens are of inferior alloy. They seem to have circulated freely at par with the regular issues.

Chapter 4. Technical analysis

Metrological analysis indicates that the porcupine sceattas were struck on well-defined weight-standards. The primary-phase porcupine varieties have a weight standard of *c.* 1.23 g. There is evidence of decline in weight at the end of the primary phase. Surprisingly, the secondary porcupines have two different weight-standards. The weight-peak of the groups with a ToT- / \ reverse design is *c.* 1.17 g, that of the sub-varieties with a ‘mixed-grill’ reverse design lies at *c.* 1.27 g. The available evidence from the composition of hoards rules out the possibility that the ToT- / \ and ‘mixed-grill’ issues were successive. There are no indications of a declining weight standard during the secondary phase. The moneyers of the tertiary phase seem to have worked at a rather wide and lax weight-tolerance. The average weight of the tertiary porcupines is *c.* 1.10 g.

The porcupine varieties of the primary phase have, just like the English primary-phase sceatta types, and the contemporary runic sceattas of Series D, a silver content between 90-95 percent. The metal composition of the porcupine sceattas from the secondary phase is less strictly maintained. In most of the groups of regular issues the silver percentage varies between 80 and 90. There is no clear difference in metal composition discernable between the ToT- / \ and ‘mixed-grill’ sub-varieties. The alloy standard was still high in coins minted quite late in the secondary phase, which speaks against a process of debasement. Imitative secondary-phase porcupines show a broader spread of silver values. In comparison with the contemporary English sceatta types the secondary porcupines have a distinctly higher intrinsic value.

The number of dies originally used to strike the porcupine sceattas has been estimated by statistical sampling. The obverse : reverse die-ratio ranges between 1 : 1 and 1 : 1.7. This makes it clear that the design with a central spine and bristles was on the lower or anvil die, and the standard design on the upper die. The die-ratios suggest that dies were supplied in sets of either two (one obverse and one reverse), or three (one obverse die plus two reverse dies). The total volume of a variety can best be gathered from the number of reverse dies. If one accept that – on average – one reverse die could be used to strike

10,000 coins, which is perhaps even a rather conservative estimate, the total number of porcupine sceattas is impressive. In the primary phase, the scale of issue was roughly in the order of 9 or 10 million porcupines, concurrently with some 20 million sceattas of Series D. The output in the secondary phase was *c.* 40 million coins, produced over a period of some twenty-five years. During the tertiary phase the production of porcupines declined sharply.

Chapter 5. Dating

The dating of the numerous porcupine varieties largely depends on the comparison of hoards. The dateable archaeological context of a few finds offers additional evidence. In particular the exact dating of the Nice-Cimiez hoard is important in this respect. The date of concealment of this large hoard has been thoroughly disputed in the past decades, with a substantial difference of opinion, of up to thirty years, with radical consequences for the chronology of the porcupine sceattas.

The issue of the porcupine sceattas did not start before *c.* 690-695. The hoards seem to imply that the secondary phase porcupines were already in full circulation around *c.* 725. Because the major hoards containing secondary-phase porcupines are from the end of the phase, it is difficult to establish the chronological order of the sub-varieties. It is, however, arguable that the imitations, were struck concurrently. The tertiary phase is characterized by far fewer varieties than the preceding phase. The date of the beginning of this final phase of the sceattas is difficult to establish exactly, perhaps around *c.* 740? The end date of this phase is even more obscure. There are indications that one of the tertiary-phase porcupine types, Variety F, was introduced only after *c.* 755, but the evidence is flimsy. It depends mainly on the attribution of one single coin, the *Milo*-specimen, from the Föhr hoard. If this attribution is correct, it seems to imply that in Denmark porcupines circulated for a much longer period than previously supposed.

Chapter 6. The mint places.

As to where the coins were struck, single finds are superior as evidence to hoards. Although the English : Netherlands single finds ratio of the primary-phase porcupine sceattas suggests at first sight an English origin, this attribution is certainly not tenable. There is no region in England where the minting could be accommodated. Like the runic sceattas of Series D they were struck in the Netherlands,

as an export coinage for the trade with England. But as to where in the Netherlands the only well-substantiated conclusion is that the primary phase porcupines were not produced in Friesland. The distribution of the (unfortunately) restricted number of single finds in the Netherlands points in the direction of Domburg.

The secondary phase porcupines have two different weight standards. The stray-find distribution of these samples in the Netherlands reveals a clear regional contrast. It is very plausible that during the secondary phase two major production centres operated in the Netherlands. The larger was in the south, the Big Rivers region and/or Domburg, and there was a smaller one in Friesland.

The figures for the tertiary-phase Varieties E and B are mostly too small for a statistically reliable answer about the place of production. Variety F, probably introduced after *c.* 755, is, given the iconography, minted in Friesland, although the find pattern does not support this.

Chapter 7. Regional circulation and the monetary context.

Series D belongs essentially to the *terpen* region of western Friesland, while the primary Series E appears to belong to the *wic* of Domburg, with strong links into the hinterland of the Big Rivers region, and further up the Rhine.

Our hypothesis is that the completely different designs of Series D and E were used because they were minted in regions under different political control. Series D was Frisian, E was Frankish. When Frankish power was victorious in Frisia, with the subduing of King Radbod and then his death, Series D was suppressed, and the 'territory' of the porcupine design was extended, in the secondary phase, to include the north. Where runic sceattas had been minted, the work of the moneyers continued, but they now struck porcupines.

In the secondary phase there was a major shift in the volume of minting of sceattas in the Netherlands, from Friesland to the region of the big rivers. The reason for this shift was presumably political rather than economic or monetary, and the result of the increased Frankish dominance in the north. There are no indications that the Frisian and the southerly porcupine varieties arrived separately in England. As in the preceding primary phase, it seems that they reached England mainly via Domburg, and already mixed.

Finds of tertiary porcupines are very few in England, with the exception of Lincolnshire. Whether this dramatic change in survival-rate was abrupt or gradual is uncertain. It seems that the trade with the Netherlands virtually ceased from *c.* 740 onwards.

Already during the primary phase a smallish English mint produced a sequence of coins with designs reminiscent of the porcupine types. The total volume of

this so-called VERNVS group approaches half a million coins. Another scarce English sceatta type combines the runic legend *Æthiliraed* with on the other side a 'porcupine'. The name is possibly that of a moneyer, rather than of a king. The finds indicate a Kentish origin. Production took place during the early secondary phase. Around a quarter are apparent imitations. The estimate of output is roughly a third of a million. Series T comprises sceattas with a bust and a legend, and on the other side a laterally reversed 'porcupine'. The finds are concentrated around the northern shores of the Thames estuary. The debased alloy indicates production towards the end of the secondary phase.

The 'stepped cross' type has a high silver content indicating production during the end of the primary phase. Given several finds in France, where finds of primary porcupines are very limited, the type is possibly minted in the upper Meuse basin or northern France. A series of Merovingian deniers with a cross and the numeral VII shows on the other side the quills of the porcupine design. They are possibly from central France.

The balance of trade in the first half of the eighth century between Merovingian Gaul and the Netherlands was entirely different from that between the Netherlands and England. There are just 25 reported single finds of porcupine sceattas in Belgium and France. The inflow began already in the primary phase. Maritime trade brought porcupines to the coast of Jutland, where they have been found at Dankirke and Ribe. Penetration further to the east was severely limited. Porcupines were also found at numerous sites along the Rhine, with a concentration at 2 Mainz and its region.

Chapter 8. Discussion of the results

This chapter offers an in-depth discussion of the results, with special emphasis on the political significance of the porcupine design.

The stray finds of the porcupine sceattas are concentrated in England and the Netherlands. They also reached the middle Rhineland, Denmark, Belgium, France, and even Sweden, Scotland, and Switzerland. The finds are by no means restricted to the large commercial centres, and this, together with the estimated volume of over 50 million coins is proof of an already thoroughly monetized and well-developed money economy in north-west Europe in the eighth century. Sceattas appear to have been employed in daily exchanges, as well as in a lively local and international commerce. *Frisia*, including the region of the big rivers, played a dominant role in the international trade.

14. SAMENVATTING

Hoofdstuk 1. Inleiding

De stekelvarken-standaard sceattas zijn het meest voorkomende sceatta type. Over de betekenis van de beeldenaar is veel gespeculeerd. Duidelijk is in ieder geval dat het geen afbeelding van een stekelvarken voorstelt. Maar omdat deze naam algemeen ingeburgerd is hebben wij hem in deze monografie gehandhaafd.

Het aantal in het verleden veronderstelde plaatsen van aanmunting is bijna even groot als het aantal serieuze studies. Tot het midden van de 20e eeuw overheerste de opvatting dat zij in Engeland waren geslagen. Het verbijsterend grote aantal varianten werd voorheen toegeschreven aan productie in verschillende regio's. Geleidelijk aan werd duidelijk dat de meeste varianten afkomstig zijn uit het gebied dat thans Nederland omvat. De vele varianten zijn te zien als de emissies van drie opeenvolgende tijdvakken: primaire fase 695 – c. 715/720; secundaire fase c. 720 – c. 740; tertiaire fase c. 740 – 800?

Er werd een Corpus van alle in 2009 aan de auteurs bekende stekelvarken sceattas samengesteld. Van deze meer dan 3.500 munten werden de vindplaats en het gewicht geregistreerd, en zij werden onderzocht op stempel-identieke en stempel-gekoppelde exemplaren. Dit Corpus vormt de basis van deze studie.

Hoofdstuk 2. Procedures en methoden

De methoden die zijn toegepast voor het vaststellen van exemplaren geslagen met dezelfde stempels, de schatting van het total aantal geslagen munten, de datering van de stekelvarken variëteiten, en de analyse van vondstpatronen worden in dit hoofdstuk besproken. Losse vondsten in Engeland werden onderzocht met een verfijnde methode, regressie analyse. Alleen duidelijke verschillen in vondstverspreiding zijn in de beschouwingen betrokkenen, daarom werden geen statistische toetsen voor de berekening van significantie gebruikt

Hoofdstuk 3. Classificatie

De stekelvarken sceattas van de drie verschillende productie-perioden werden ingedeeld in varianten en sub-varianten. Op grond van stijlkenmerken zijn

groepen van bij elkaar behorende exemplaren benoemd. Elke groep vertegenwoordigt, naar wij hopen, de productie van een bepaalde muntwerkplaats. De eenvoudige afbeeldingen op de stekelvarken sceattas zijn gemakkelijk te kopiëren. Het is onvermijdelijk dat elke categorie een aantal onofficiële nabootsingen bevat, of zelfs een paar vervalsingen uit de tijd. Het is echter niet waarschijnlijk dat de over het hoofd geziene imitaties afbreuk doen aan de conclusies van deze studie. De primaire en tertiaire fase zijn niet gekenmerkt door imitatie op grote schaal, maar de secundaire fase omvat een aanzienlijk aantal onofficiële exemplaren. Er zijn geen aanwijzingen dat deze niet regulier geproduceerde munten van inferieure kwaliteit zijn. Zij mengden zich vrijelijk in de circulatie met de officiële emissies.

Hoofdstuk 4. Technisch onderzoek

Metrologisch onderzoek geeft aan dat de stekelvarken sceattas op een duidelijk vastgesteld gewicht werden geslagen. De standaard van de primaire fase exemplaren was *c.* 1,23 g. Deze norm daalde tegen het eind van de primaire fase. Een verrassende bevinding is dat de stekelvarken sceattas van de secundaire fase twee verschillende gewichtstandaarden hebben. Bij de groep met ToT- / \ op de keerzijde ligt de piek bij *c.* 1,17 g, de sub-varianten met een ‘mixed-grill’ keerzijde pieken op *c.* 1,27 g. De samenstelling van muntvondsten sluit uit dat de ‘mixed-grill’ en de ToT- / \ varianten elkaar opvolgende emissies zijn. Er zijn geen aanwijzingen dat de gewichtstandaard tijdens de secundaire fase afnam. De muntmeesters van de tertiaire fase hanteerden variabele en slordige gewichten van de individuele munten. Het gemiddeld gewicht van de tertiaire “stekelvarkens” is ongeveer 1,10 g.

De stekelvarken sceattas van de primaire fase hebben, net als de Engelse primaire sceattas en het continentale runentype, een zilveragehalte tussen 90 en 95 procent. De metaalsamenstelling van de secundaire fase stekelvarken sceattas toont grotere variatie. Bij de meeste sub-varianten ligt het zilveragehalte tussen 80 en 90 procent. Er is geen duidelijk verschil in de metaalsamenstelling van de ToT- / \ en de ‘mixed-grill’ groepen. Er zijn geen aanwijzingen dat het zilveragehalte tegen het eind van de secundaire fase daalde. De onofficiële emissies hebben een wat grotere spreiding van het zilveragehalte. Maar in vergelijking met de contemporaine Engelse sceattas is de intrinsieke zilverwaarde duidelijk beter.

Het aantal stempels dat is gebruikt om de stekelvarken sceattas te slaan werd via een statistische methode schattenderwijs berekend. De voorzijde : keerzijde verhouding ligt tussen 1 : 1 en 1 : 1.7. Daaruit blijkt dat de centrale boog met de stekels op de onderstempel (de aambeeldstempel) stond, en de standaard op de

bovenstempel. De voorzijde : keerzijde ratio maakt aannemelijk dat de stempels in sets van twee of drie werden geleverd, één voorzijde stempel samen met één of twee keerzijde stempels. Het totaal aantal geslagen munten kan geschat worden op basis van het aantal gebruikte keerzijde stempels. Wanneer men er van uit gaat dat – gemiddeld – met één keerzijde stempel 10.000 munten konden worden geslagen, wat misschien nog een voorzichtige schatting is, dan is het totaal aantal geproduceerde stekelvarken sceattas indrukwekkend. Tijdens de primaire fase werden 9 à 10 miljoen stekelvarken sceattas geslagen, naast ongeveer 20 miljoen sceattas van Serie D. De secundaire fase omvat c. 40 miljoen munten, vervaardigd tijdens ongeveer vijfentwintig jaar. Tijdens de tertiaire fase nam de productie sterk af.

Hoofdstuk 5. Datering

De datering van de stekelvarken varianten berust voornamelijk op de vergelijking van de samenstelling van gesloten muntvondsten. Een dateerbare archeologische context van enkele losse vondsten levert aanvullende informatie op. Vooral de precieze vaststelling van de datum van verberging van de Nice-Cimiez vondst is in dit verband belangrijk. Maar de datering van deze grote muntvondst in Zuid-Frankrijk heeft geleid tot een controverse, met zelfs een verschil van dertig jaar.

De aanmaak van stekelvarken sceattas is niet eerder dan in c. 690-695 begonnen. De muntvondsten laten zien dat de secundaire fase varianten reeds omstreeks 725 in grote aantallen circuleerden. Omdat de belangrijkste muntvondsten met secundaire fase sceattas van het eind van deze periode zijn, is het moeilijk om de absolute chronologie van alle sub-varianten aan te geven. Het ziet er naar uit dat de meeste sub-varianten, en ook de imitaties, tegelijkertijd werden geslagen. De tertiaire fase is gekenmerkt door veel minder varianten dan de voorgaande periode. Het begin van de tertiaire fase is moeilijk te bepalen, maar ligt mogelijk rondom 740. De bepaling van de einddatum van de stekelvarken sceattas is nog lastiger. Er is een aanwijzing dat de aanmaak van één groep van tertiaire stekelvarken sceattas, variëteit F, pas na c. 755 is begonnen. Maar deze aanwijzing berust in hoofdzaak op de niet geheel zekere toeschrijving en datering van één enkele munt uit de vondst Föhr. Indien deze *Milo*-munt juist is gedetermineerd, betekent dit dat de stekelvarken sceattas veel langer hebben gecirculeerd dan in het verleden werd aangenomen.

Hoofdstuk 6. De muntplaatsen

Voor het beantwoorden van de vraag naar de plaats van aanmunting zijn losse vondsten veel belangrijker dan muntvondsten. Hoewel de Engeland : Nederland verhouding van vondsten van primaire fase stekelvarken sceattas op het eerste gezicht wijst op productie in Engeland is die conclusie niet houdbaar. Er is geen enkele regio in Engeland aan te wijzen waar de munt kon zijn gevestigd, de losse vondsten van de stekelvarken sceattas zijn gelijkmatig over geheel zuidwest Engeland gespreid. De vindplaatsen van Engelse sceatta typen uit dezelfde periode vertonen een duidelijke concentratie in en rondom de plaats van aanmunting. Evenals de continentale runen sceattas zijn de primaire fase stekelvarken sceattas in Nederland geslagen, voornamelijk als export munten voor de handel met Engeland. De enige goed onderbouwde conclusie is dat de primaire fase stekelvarken sceattas niet uit Friesland komen. De verspeiding van het beperkte aantal losse vondsten in Nederland wijst in de richting van Domburg.

De stekelvarken sceattas van de secundaire fase hebben een dubbele gewichtstandaard. De vondsten in Nederland tonen een opvallend regionaal verschil. Het is heel aannemelijk dat er tijdens de secundaire fase in Nederland twee grote productiecentra waren. Het grootste centrum lag in het zuiden (Dorestad en/of Domburg), en een iets kleiner in Friesland.

De vondstaantallen van de tertiaire fase stekelvarken sceattas van de varianten B en E zijn te klein voor een uitspraak over de muntplaats(en). Gezien de iconografie is variëteit F, mogelijk pas na *c.* 755 in productie gekomen, waarschijnlijk in Friesland geslagen, hoewel de verspreiding van de losse vondsten deze conclusie niet bevestigt.

Hoofdstuk 7. Regionale circulatie en de monetaire context

De sceattas van serie D behoren tot het Friese terpengebied, terwijl de stekelvarken sceattas van de primaire fase vooral ten zuiden van de grote rivieren en langs de Rijn tot diep in Duitsland circuleerden.

Onze hypothese is dat de geheel verschillende beeldenaars van de Series D en E zijn te verklaren doordat zij, weliswaar tegelijkertijd, werden aangemunt in gebieden onder verschillende politieke controle. Serie D was Fries, Serie E Frankisch. Met de uitbreiding van de Frankische invloed naar het noorden, de onderwerping van koning Radbod en een paar jaar later zijn dood, kwam een eind aan de Serie D sceattas (het continentale runentype en BMC type 8). Waar het continentale runen type was aangemunt ging het werk van de muntmeesters door, maar zij gingen over op stekelvarken sceattas.

Tijdens de secundaire fase trad een forse verschuiving op in de hoeveelheid geproduceerde sceattas, deze nam toe in het gebied van de grote rivieren, ten koste van Friesland. De achtergrond van deze verschuiving was eerder politiek dan economisch of monetair. Er zijn geen aanwijzingen dat de in het noorden en het zuiden geslagen stekelvarken sceattas Engeland via aparte wegen bereikten. Net als tijdens de primaire fase verliep de handel met Engeland vooral via Domburg. Er zijn heel weinig tertiaire stekelvarken sceattas in Engeland gevonden. Of de handel met Engeland omstreeks *c.* 740 geleidelijk of ineens instortte is onduidelijk.

Reeds tijdens de primaire fase sloeg een kleine Engelse munt een serie sceattas met een van de stekelvarken/standaard beeldenaar afgeleid type. De totale hoeveelheid munten van deze zogenaamde *VERNVS* groep benadert $\frac{1}{3}$ miljoen. Een ander schaars Engels sceatta type combineert het runen opschrift *Æthiliræd* met op de andere zijde een “stekelvarken”. De naam is waarschijnlijk van een monetarius, en niet die van een koning. De vondsten wijzen op een munt in Kent. De productie vond vroeg in de secundaire fase plaats. Ongeveer een kwart bestaat uit evidente imitaties. Er werden van dit type naar schatting een kwart miljoen exemplaren geslagen. Serie T omvat sceattas met een kop en een omschrift, en op de andere zijde een “stekelvarken” in spiegelbeeld. De vondsten zijn geconcentreerd op de noordelijke oevers van de Thames. Het lage zilveragehalte wijst op aanmaak gedurende de tweede helft van de secundaire fase.

Het ‘stepped cross’ type heeft een hoog zilveragehalte, wat aangeeft dat de productie tegen het eind van de primaire fase plaatsvond. Gezien diverse vondsten in Frankrijk, waar vondsten van primaire stekelvarken sceattas erg schaars zijn, is dit type mogelijk in de Maasvallei of in noord Frankrijk geslagen. Een serie Merovingische deniers met een kruis en het nummer VII toont op de andere zijde de stekels van de stekelvarken sceattas. Deze deniers zijn waarschijnlijk in centraal Frankrijk gemunt.

De handelsbalans tijdens de eerste helft van de achtste eeuw tussen het Merovingische rijk en Nederland verschilt sterk van die tussen Nederland en Engeland. Uit België en Frankrijk zijn ons 25 losse stekelvarken sceatta vondsten bekend, waaronder enkele exemplaren van de primaire fase. Vondsten in Dankirke en Ribe getuigen van maritieme handel met Jutland. Stekelvarken sceattas zijn ook op veel plaatsen langs de Rijn gevonden, vooral in de omgeving van Mainz.

Hoofdstuk 8. Bespreking van de bevindingen

Dit hoofdstuk biedt een uitvoerige bespreking van de bevindingen, met speciale aandacht voor de politieke betekenis van de beeldenaar van de stekelvarken/standaard sceattas.

Losse vondsten van stekelvarken sceattas zijn talrijk in Engeland en Nederland. Zij bereikten ook het Rijngebied, Denemarken, België, Frankrijk, en zelfs Zweden, Schotland en Zwitserland. De vondsten zijn niet beperkt tot de grote handelscentra, en dit, mede gezien het aantal van meer dan 50 miljoen exemplaren, betekent dat er in de achtste eeuw al een goed ontwikkelde en sterk gemonetariseerde economie in noordwest Europa bestond. Sceattas werden voor dagelijkse betalingen gebruikt, maar ook in een levendig lokaal en international handelsverkeer. *Frisia*, dat ook het gebied van de grote rivieren omvatte, speelde een vooraanstaande rol in deze internationale handel.

Plate 1. Die-linked coins of the plumed bird variety J/K

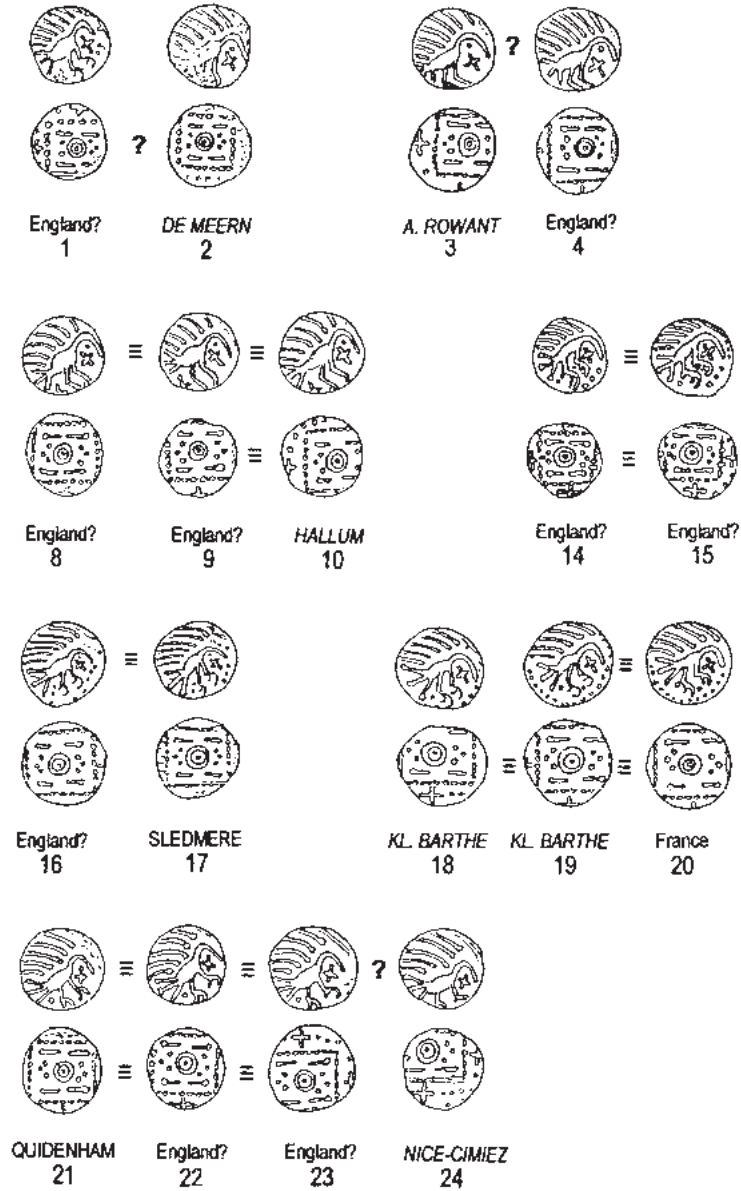
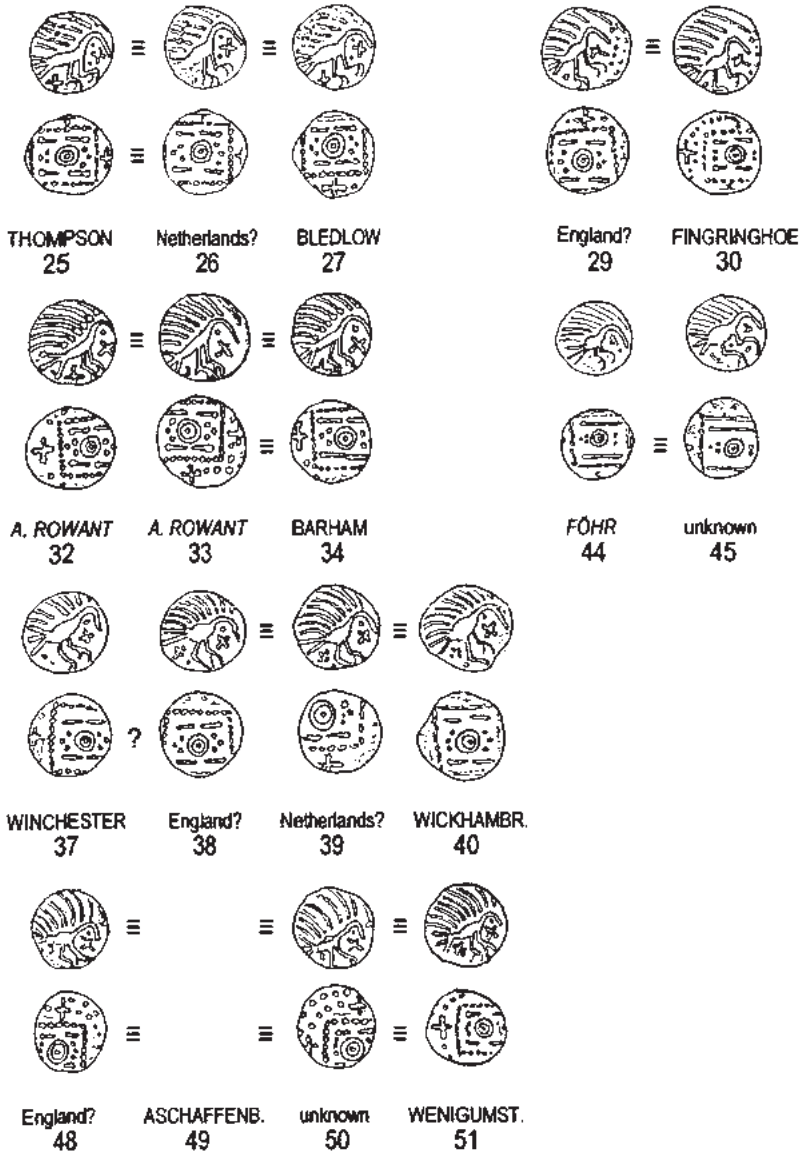
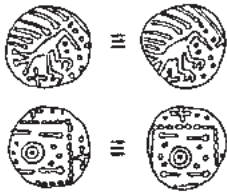


Plate 2. Die-linked coins of the plumed bird variety J/K



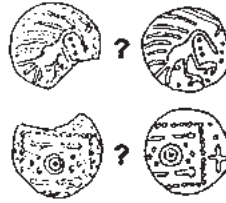
It is possible that the reports of the finds near Aschaffenburg and Wenigumstadt indicate the same coin.

Plate 3. Die-linked coins of the plumed bird variety J/K



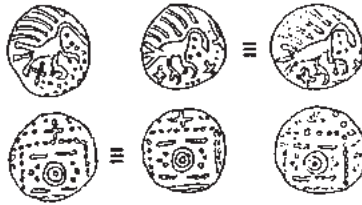
BAWSEY
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Norfolk
54



HOATH
55

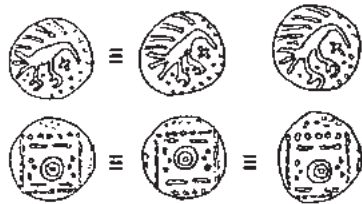
MAURIK
56



England?
57

RECVLVER
58

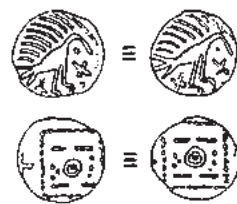
SOUTHAMP
59



DOMBURG
63

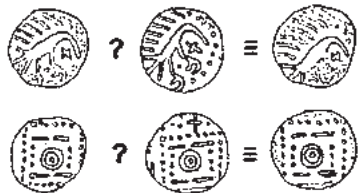
N. FERRIBY
64

SPALDING
65



BRADENHAM
69

SLEAFORD
70



DOMBURG
73

England?
74

WIJNALDUM
75

Plate 4. Die-linked coins of the plumed bird variety J/K and L

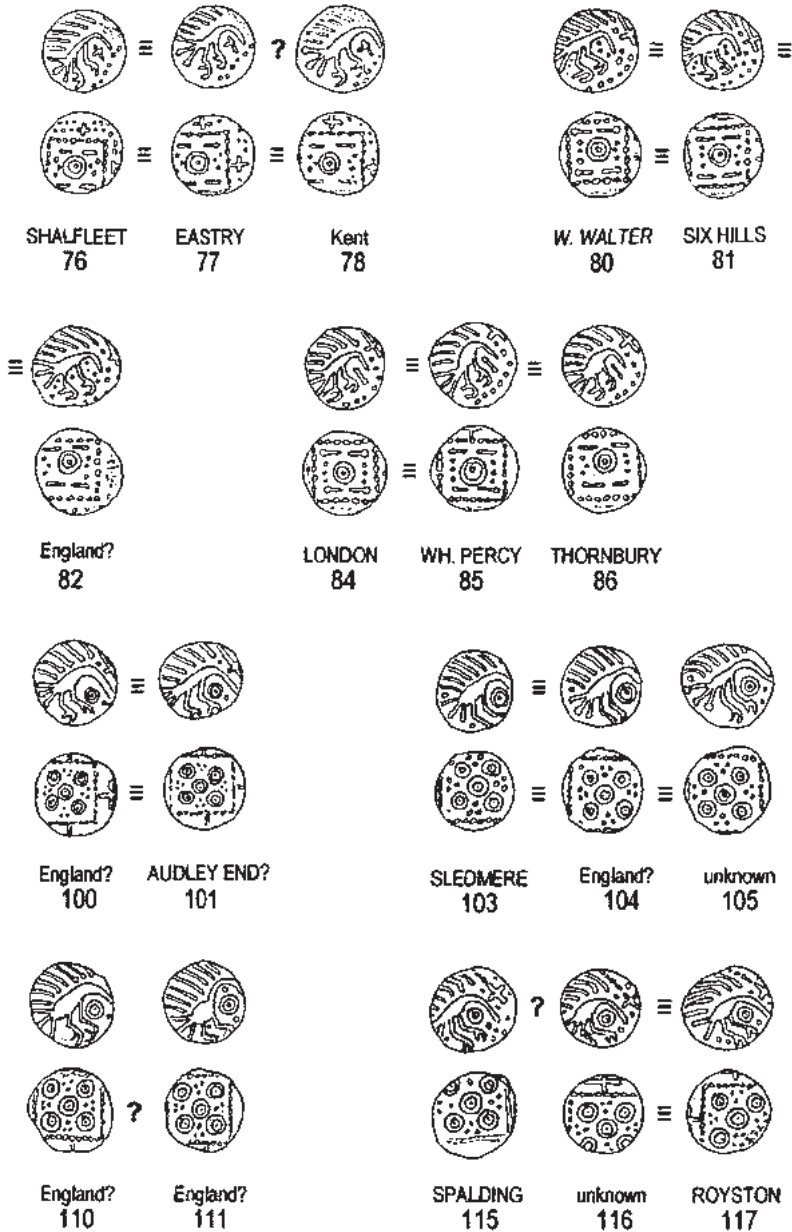
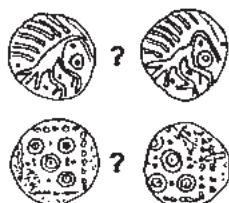
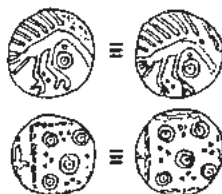


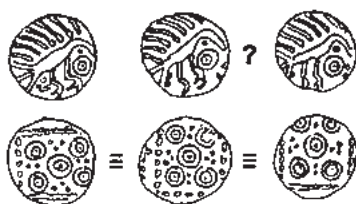
Plate 5. Die-linked coins of the plumed bird and VICO variety



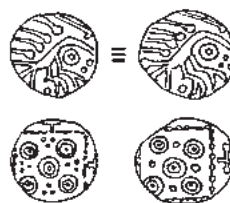
WETHERBY 120 Netherlands? 121



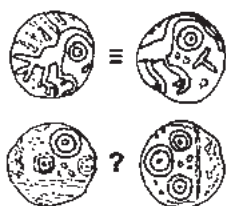
TELSCOMBE 127 DOMBURG 128



N. CIMIEZ 130 unknown 131 England? 132



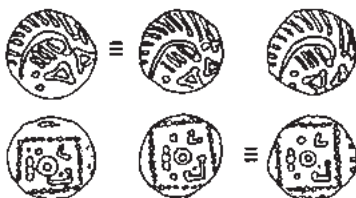
W. WALTER 135 England? 136



DOMBURG 160 Netherlands? 161



N. CIMIEZ 163 WINCHESTER 164



England? 171 E. TILBURY 172 England? 173

Plate 6. Die-linked coins of the VICO variety

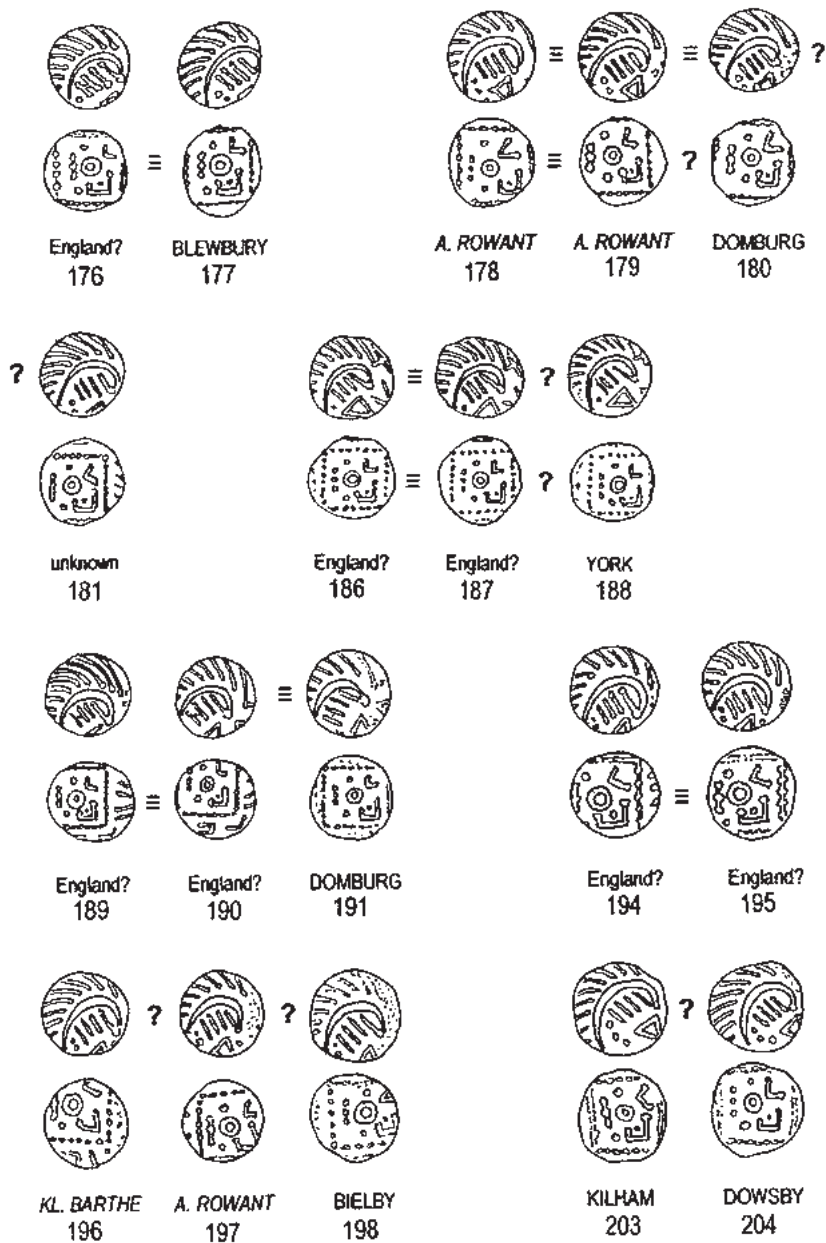


Plate 7. Die-linked coins of the VICO variety

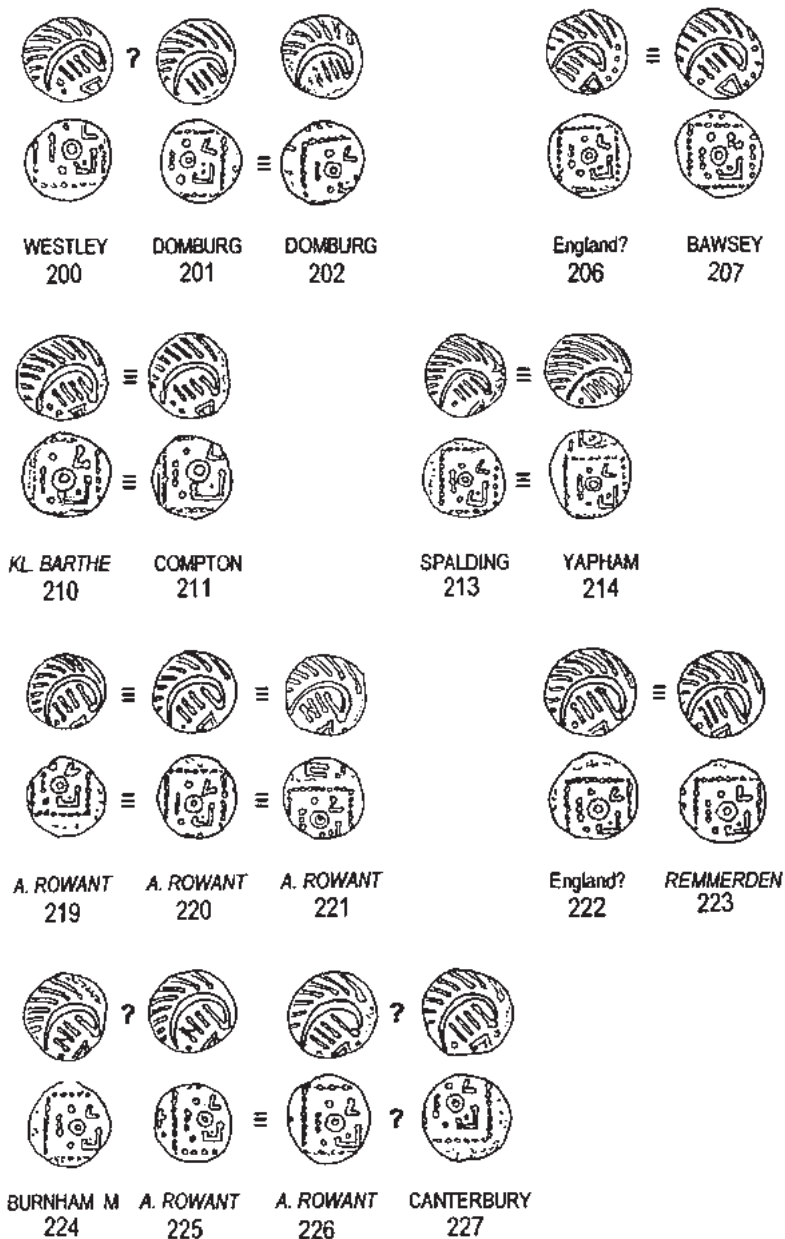
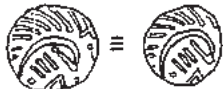


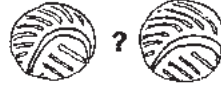
Plate 8. Die-linked coins of the VICO variety



unknown
230



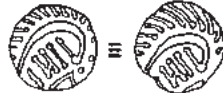
SPALDING
231



unknown
232



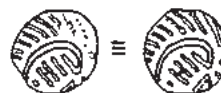
HALSTEAD
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A. ROWANT
234



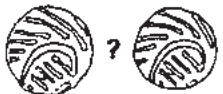
LAMBETH
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DOMBURG
236



BLEDLOW
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England?
239



GR. BIRCHAM
240



FÖHR
241



DOMBURG
242



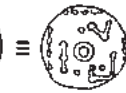
FRANEKER
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SCULTHORPE
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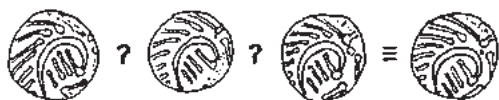


WROOT
245



BARHAM
246

Plate 9. Die-linked coins of the VICO variety and Variety G



BRADENHAM
251

Friesland
252

SPALDING
253

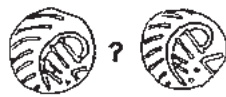
LASHLEY W.
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A. ROWANT
255

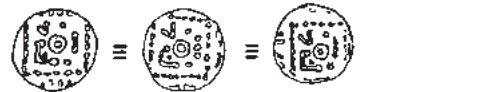
Oxfordshire
256

GRIMSTON
257



COLDRED
265

GODSTONE
266



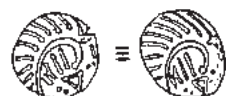
unknown
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DE HOUW
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DOMBURG
262

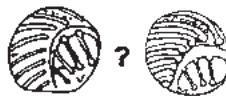
DOMBURG
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KINGS LYNN
264



RIBY
268

England?
269

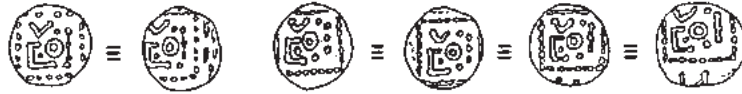


LITTLEBOU.
279



A. ROWANT
280

Plate 10. Die-linked coins of Variety G



England
270

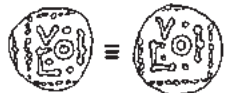
A. ROWANT
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unknown
272

England?
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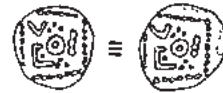
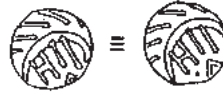
ROYSTON
274

England?
275



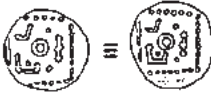
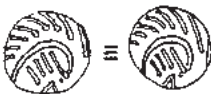
ROYSTON
276

TUDDENHAM
277



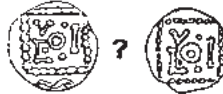
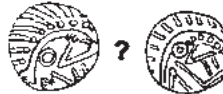
BARHAM
282

HITCHIN
283



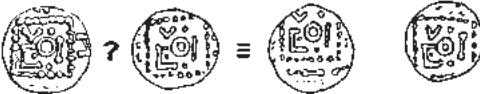
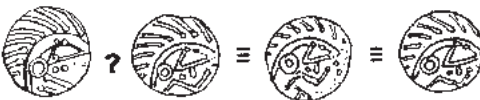
England?
287

NOHANENT
288



A. ROWANT
294

England?
295



KINGS LYNN
290

A. ROWANT
291

UPPER POPP
292

REMMERDEN
293

Plate 11. Die-linked coins of Variety G

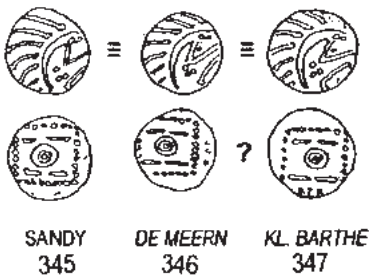
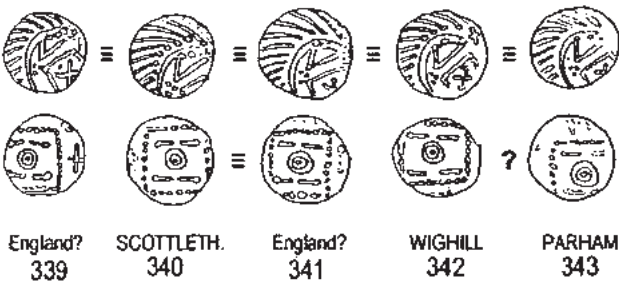
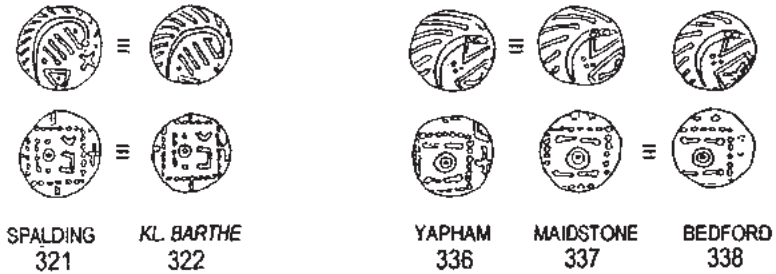
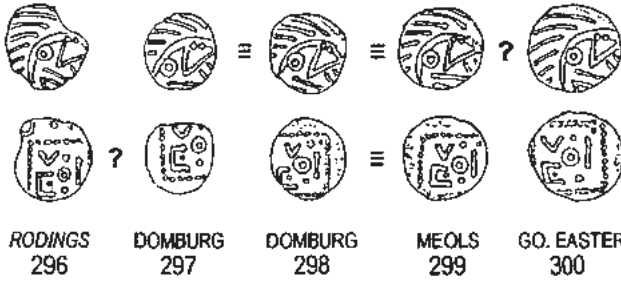


Plate 12. Die-linked coins of Variety G

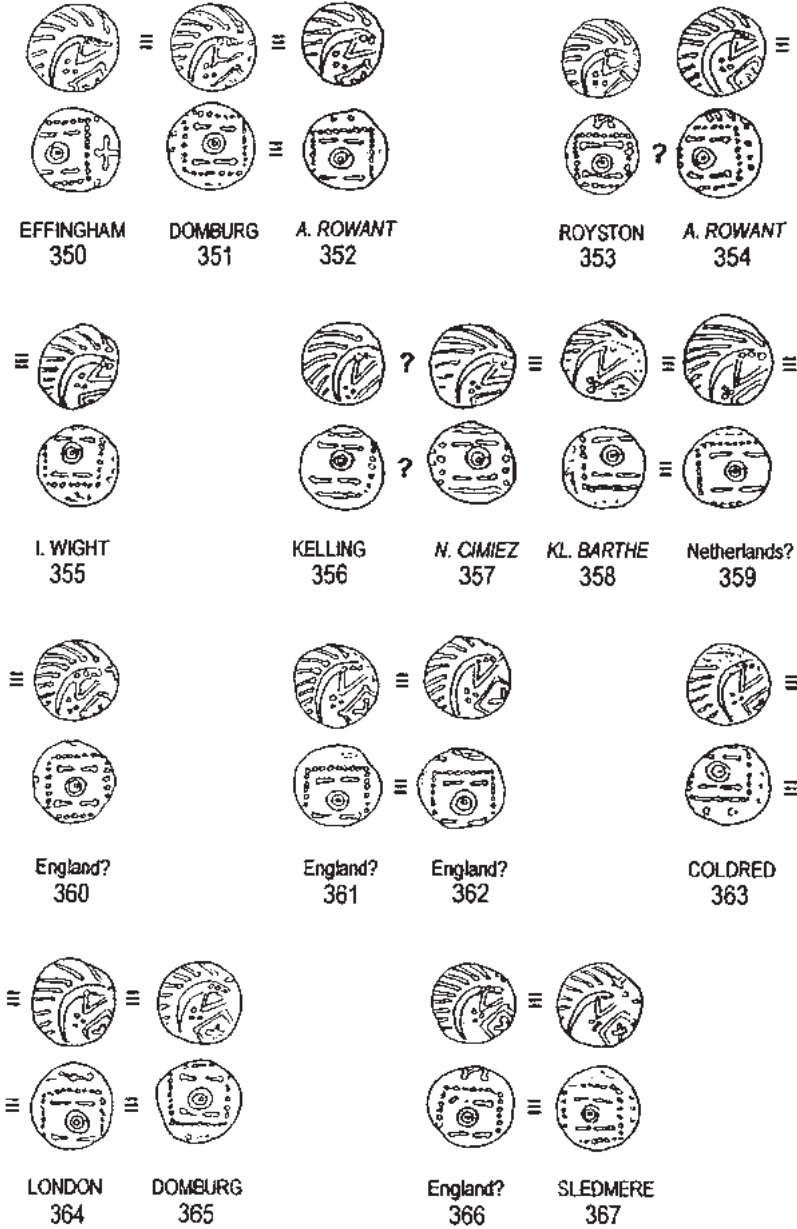


Plate 13. Die-linked coins of Variety G

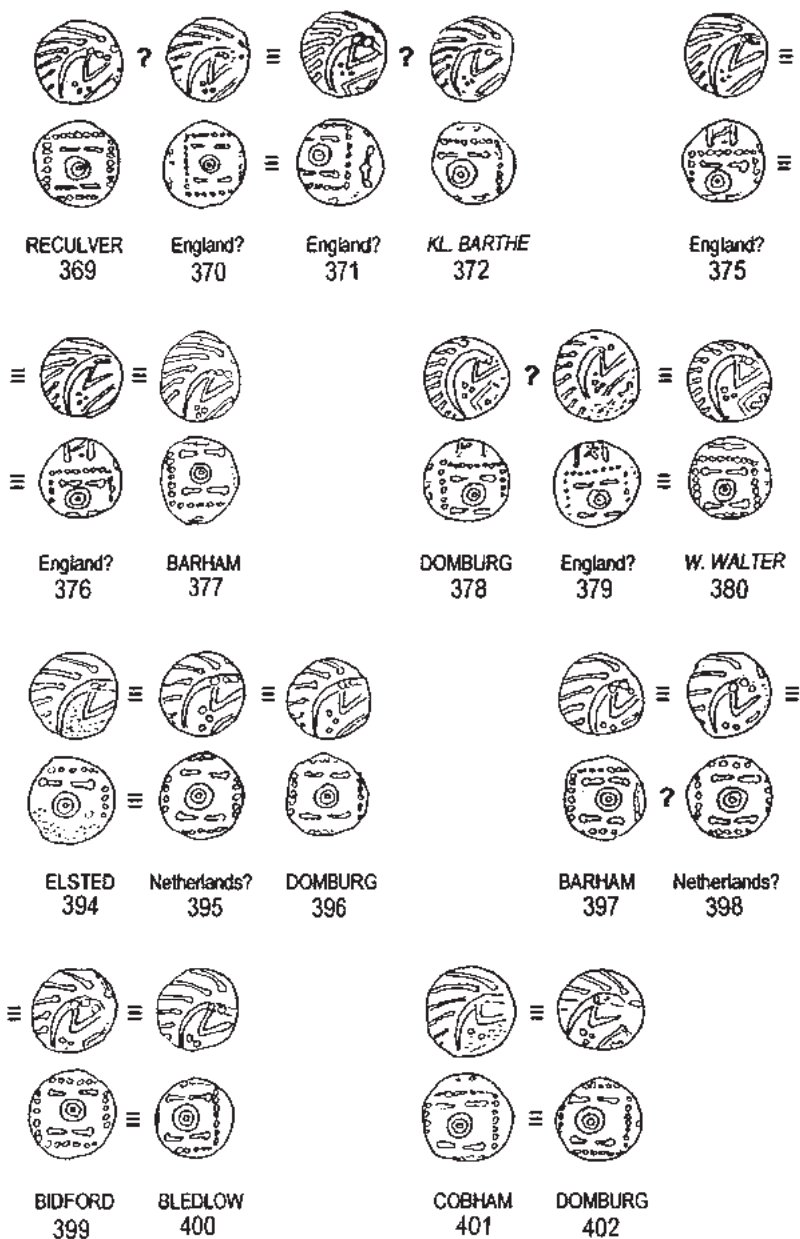


Plate 14. Die-linked coins of Variety G

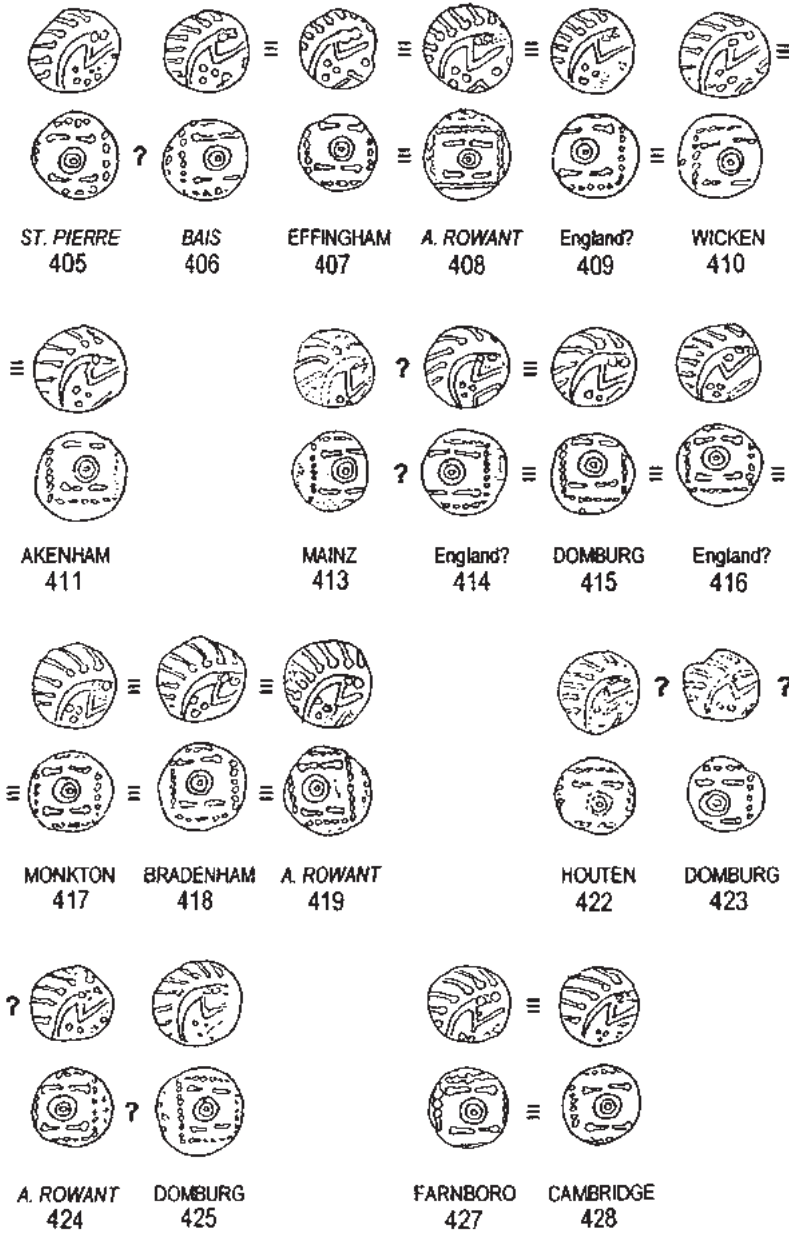


Plate 15. Die-linked coins of Variety G

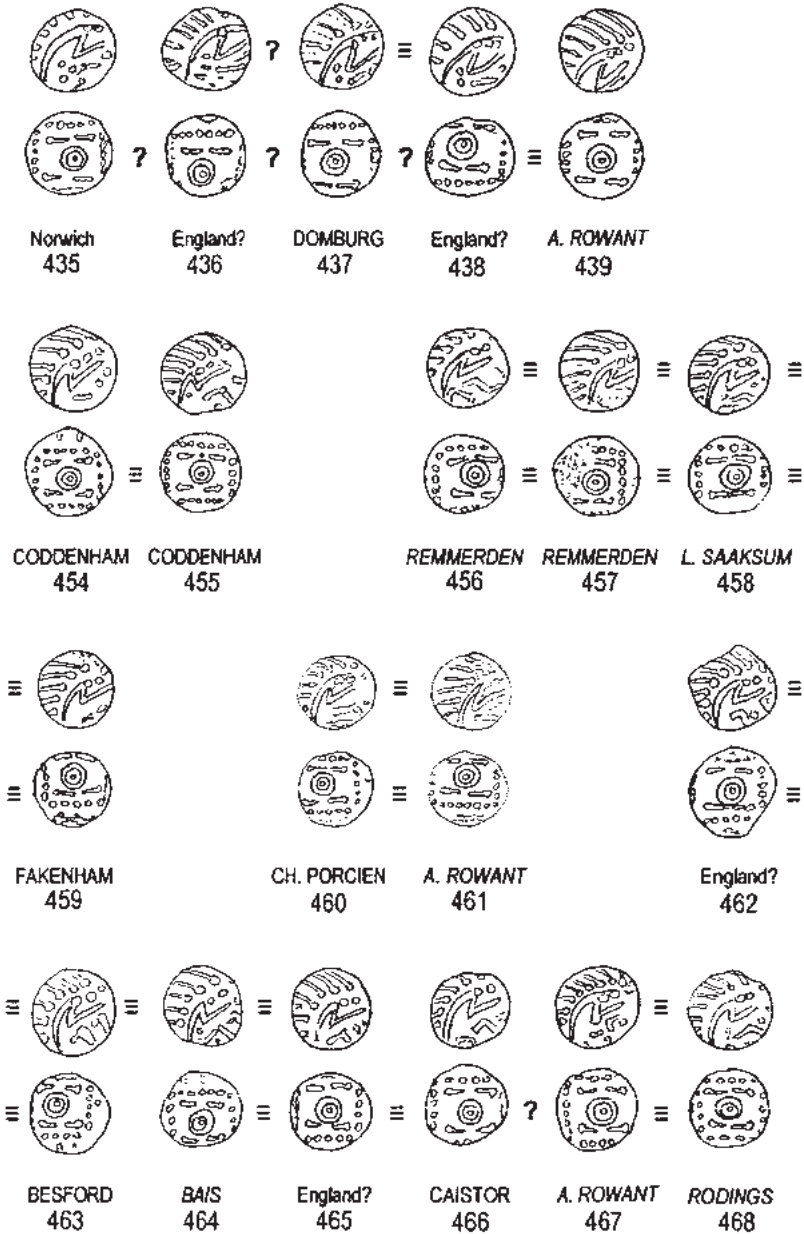


Plate 16. Die-linked coins of Variety G

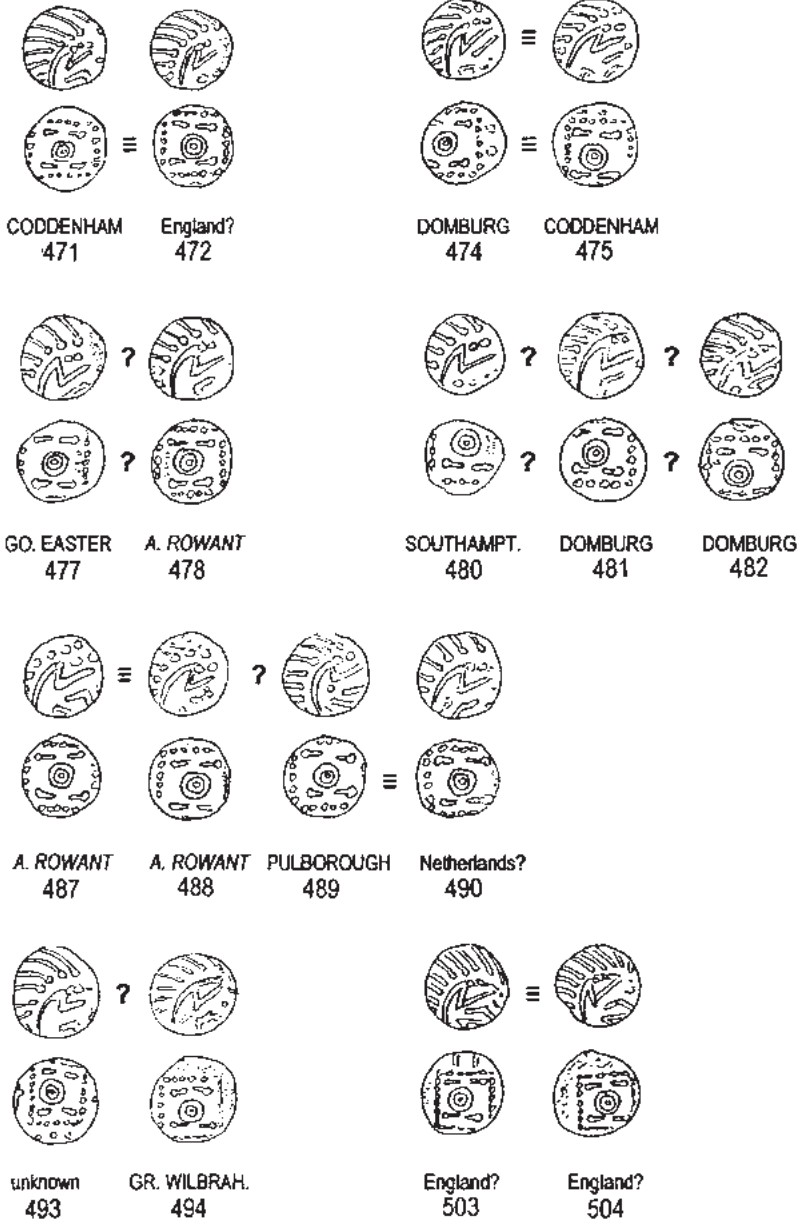


Plate 17. Die-linked coins of Variety G

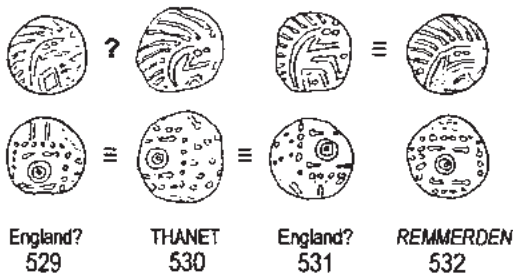
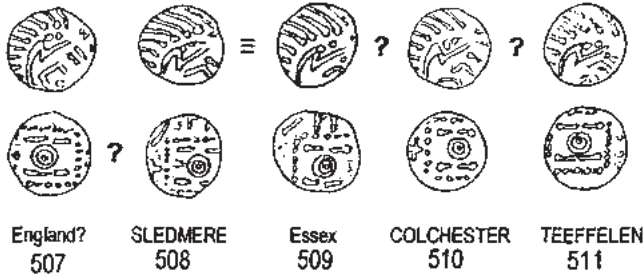


Plate 18. Die-linked coins of Variety G

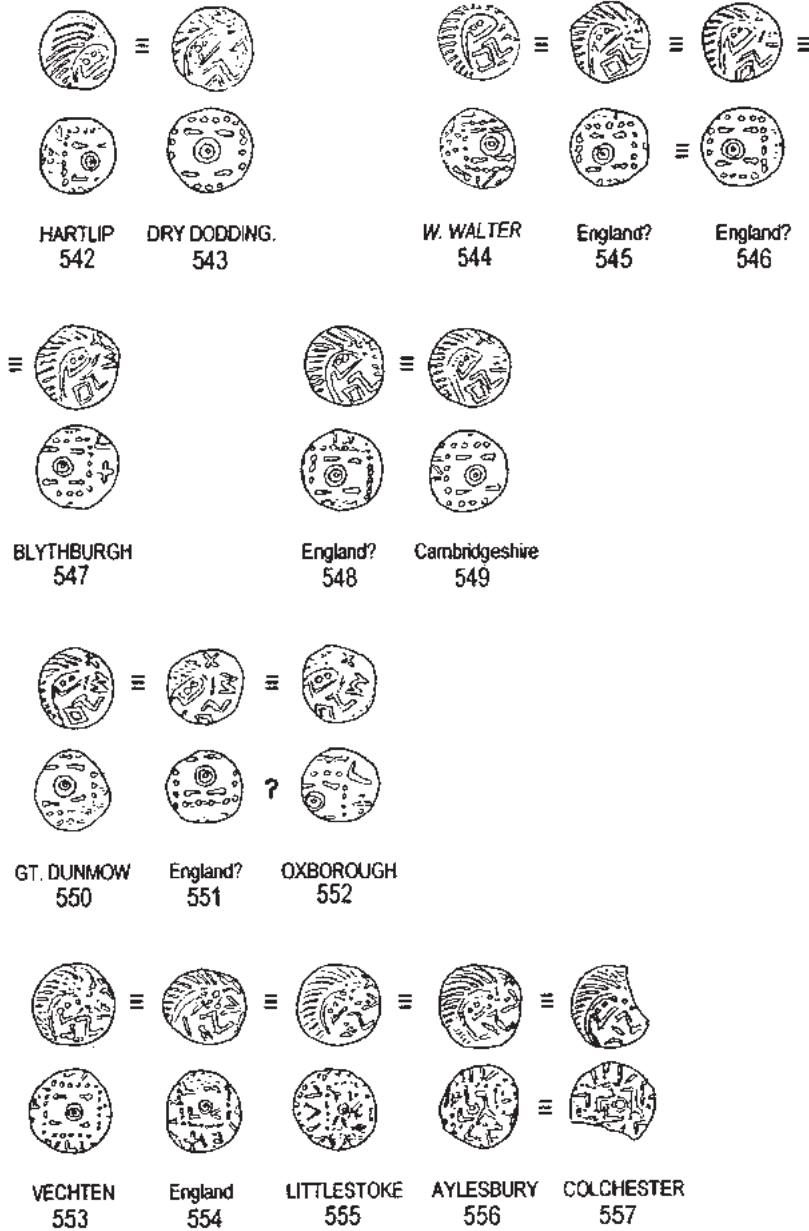
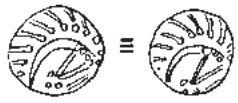


Plate 19. Die-linked coins of variety G imitations



DOMBURG
564



DOMBURG
565



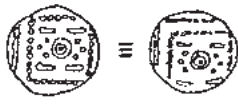
France?
568



FRANEKER
569



ELTVILLE
570



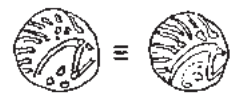
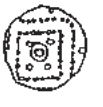
DOMBURG
572



England?
579



unknown
580



A. ROWANT
590



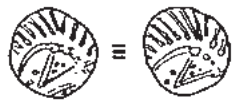
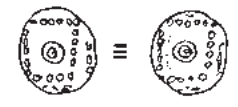
S. WESTON
592



CAISTOR
594



DOMBURG
595



KL. BARTHE
599



Netherlands
607



STREATLEY
608

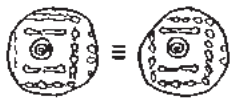


Plate 20. Die-linked coins of Variety G imitations and Variety D

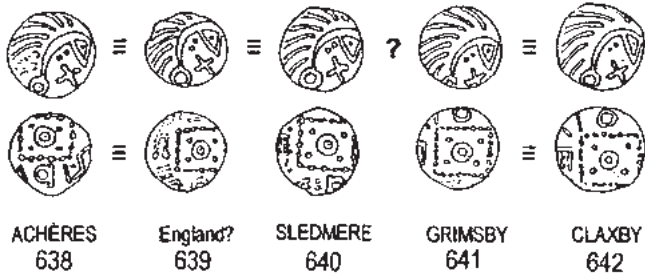
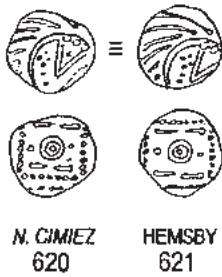
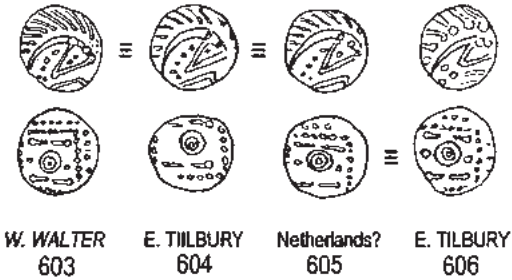


Plate 21. Die-linked coins of Variety D

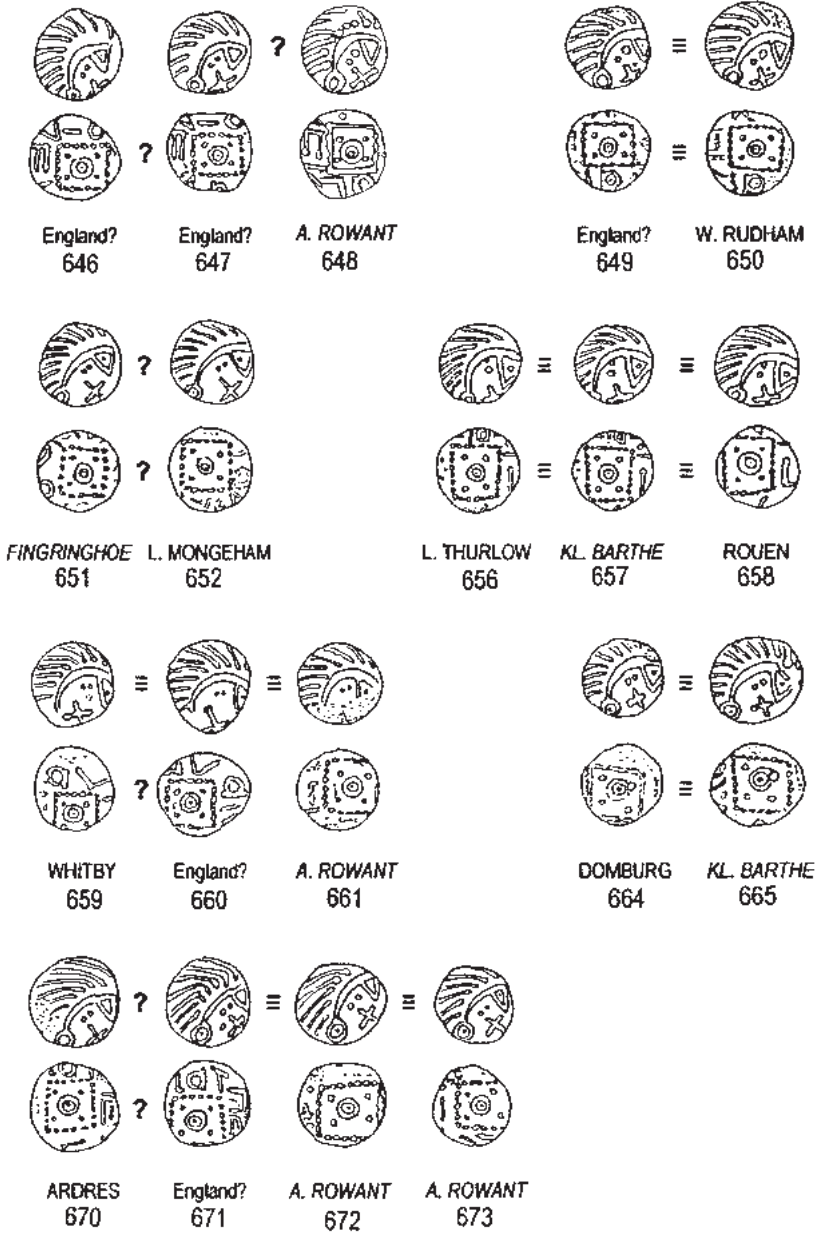


Plate 22. Die-linked coins of Variety D

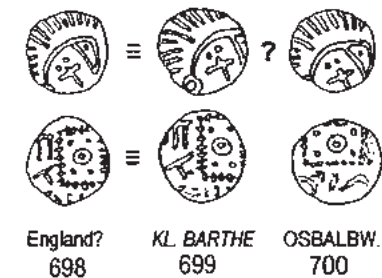
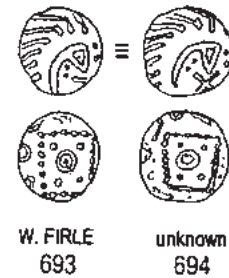
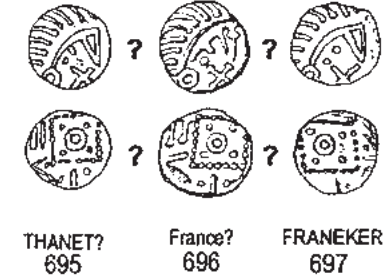
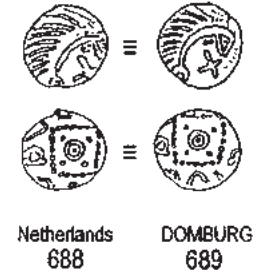
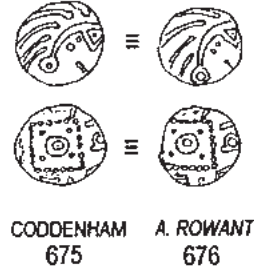
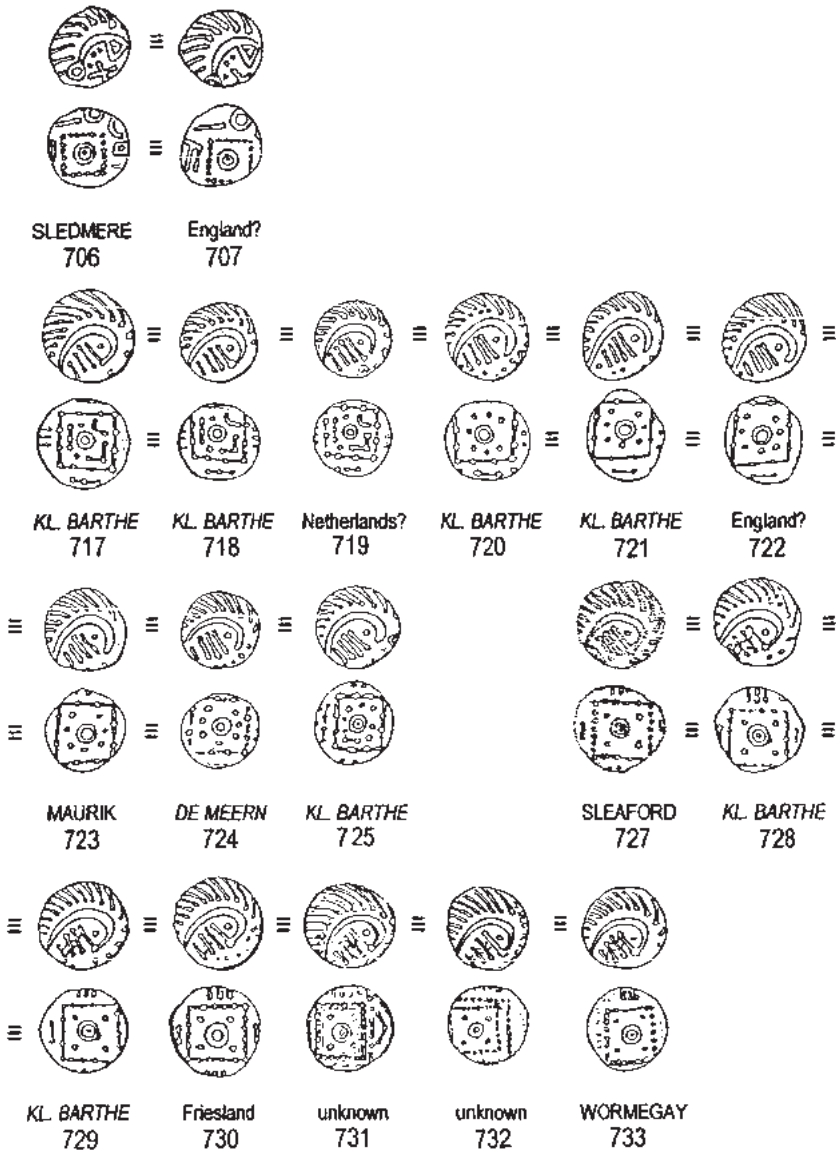


Plate 23. Die-linked coins of Variety D and sub-variety a



0732 is probably the accidental combination of an unrelated obverse and reverse cast.

Plate 24. Die linked coins of sub-varieties a and b

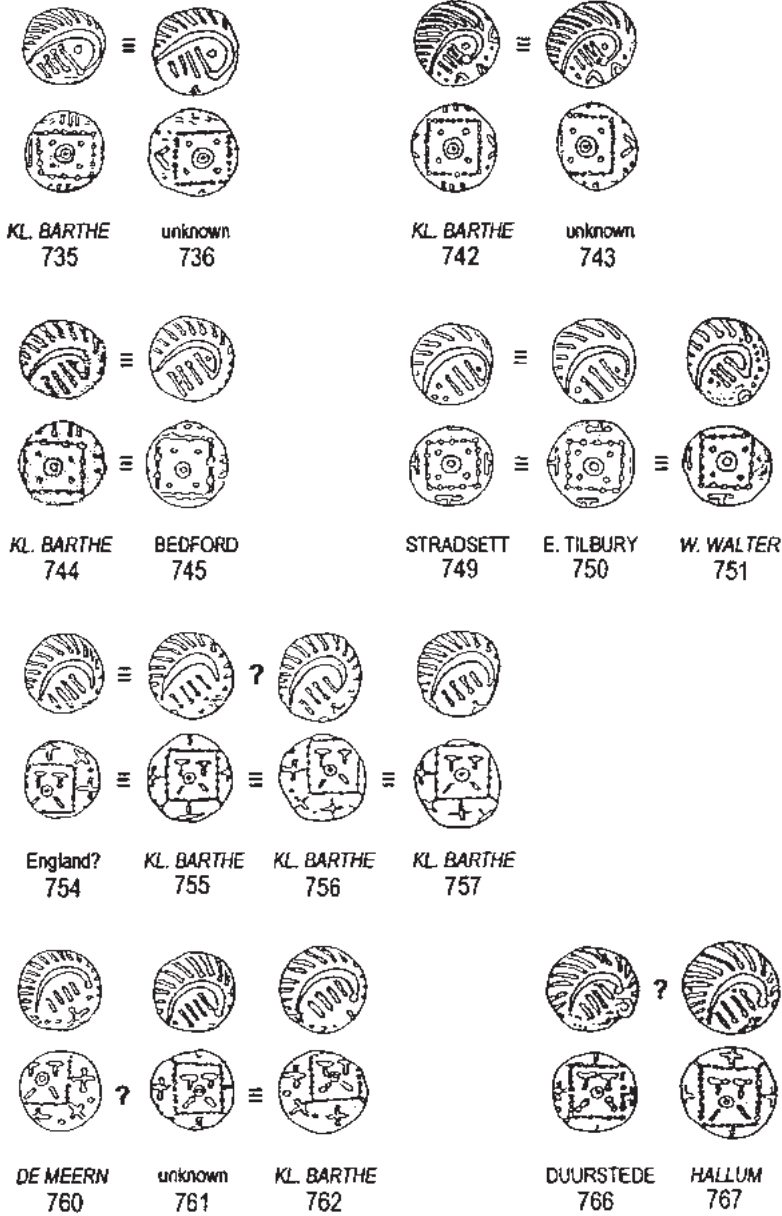


Plate 25. Die-linked coins of sub-variety b

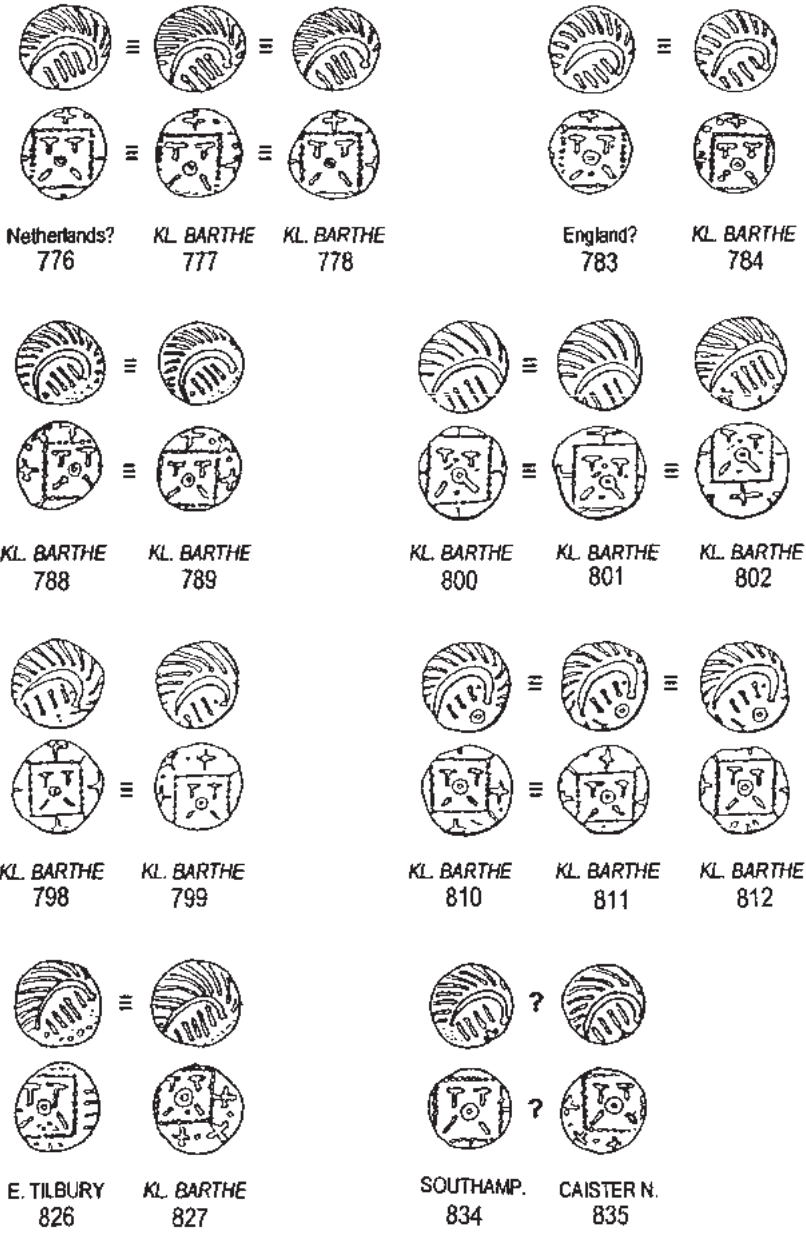


Plate 26. Die-linked coins of sub-variety b

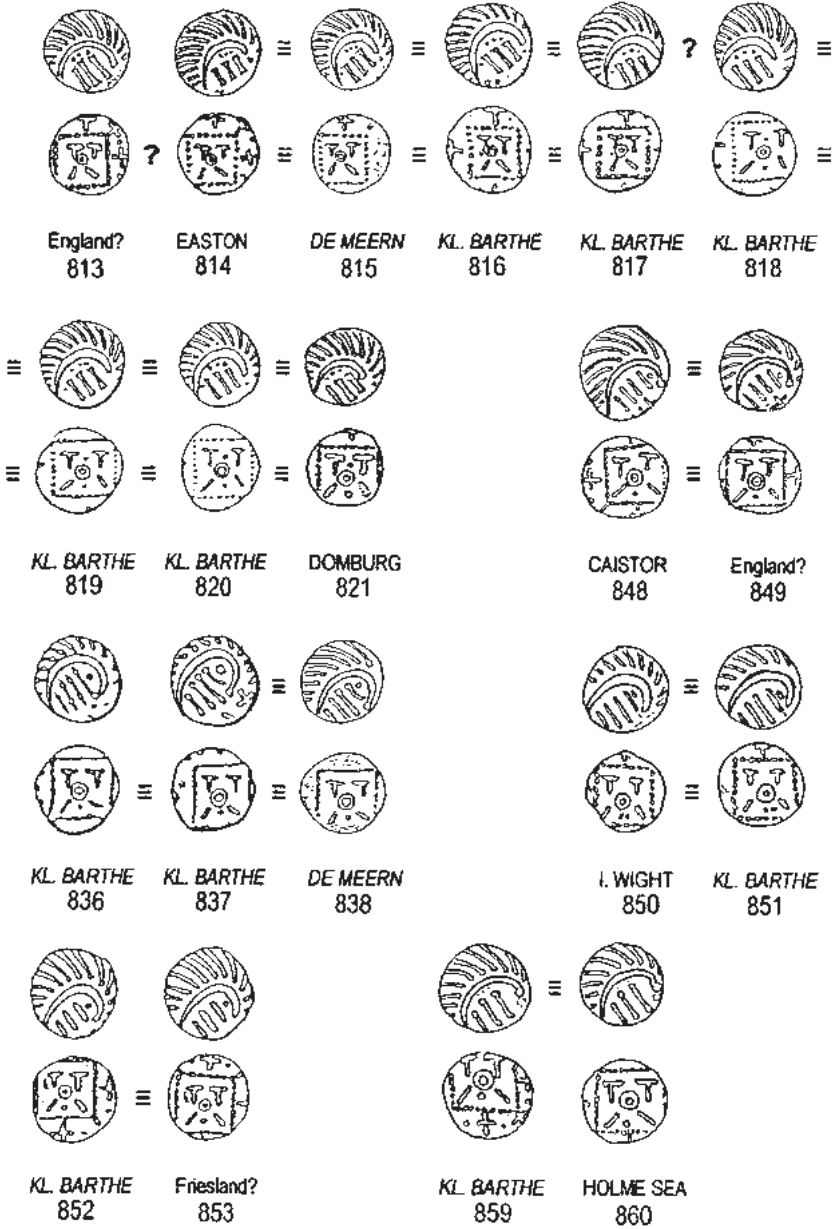
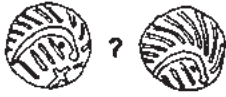


Plate 27. Die-linked coins of sub-variety b



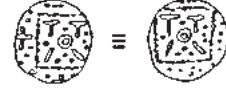
KL. BARTHE
863



Friesland
864



I. WIGHT
866



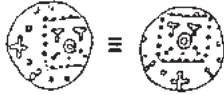
KL. BARTHE
867



TORKSEY
868

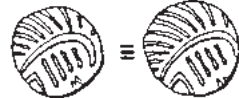


KL. BARTHE
871



KL. BARTHE
872

KL. BARTHE
873



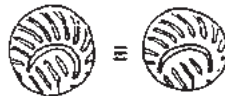
KL. BARTHE
876



KL. BARTHE
877



KL. BARTHE
878



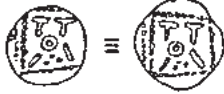
KL. BARTHE
879



KL. BARTHE
880



Netherlands
882



England?
883

KL. BARTHE
884

Plate 28. Die-linked coins of sub-variety b

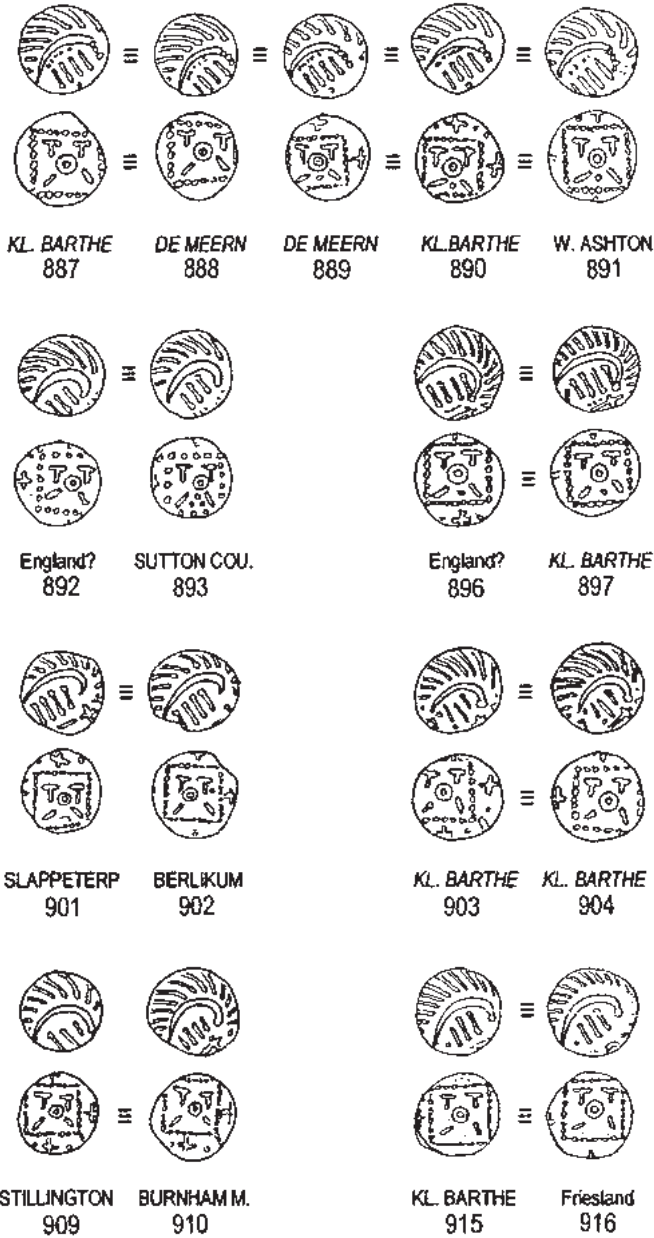


Plate 29. Die-linked coins of sub-variety b

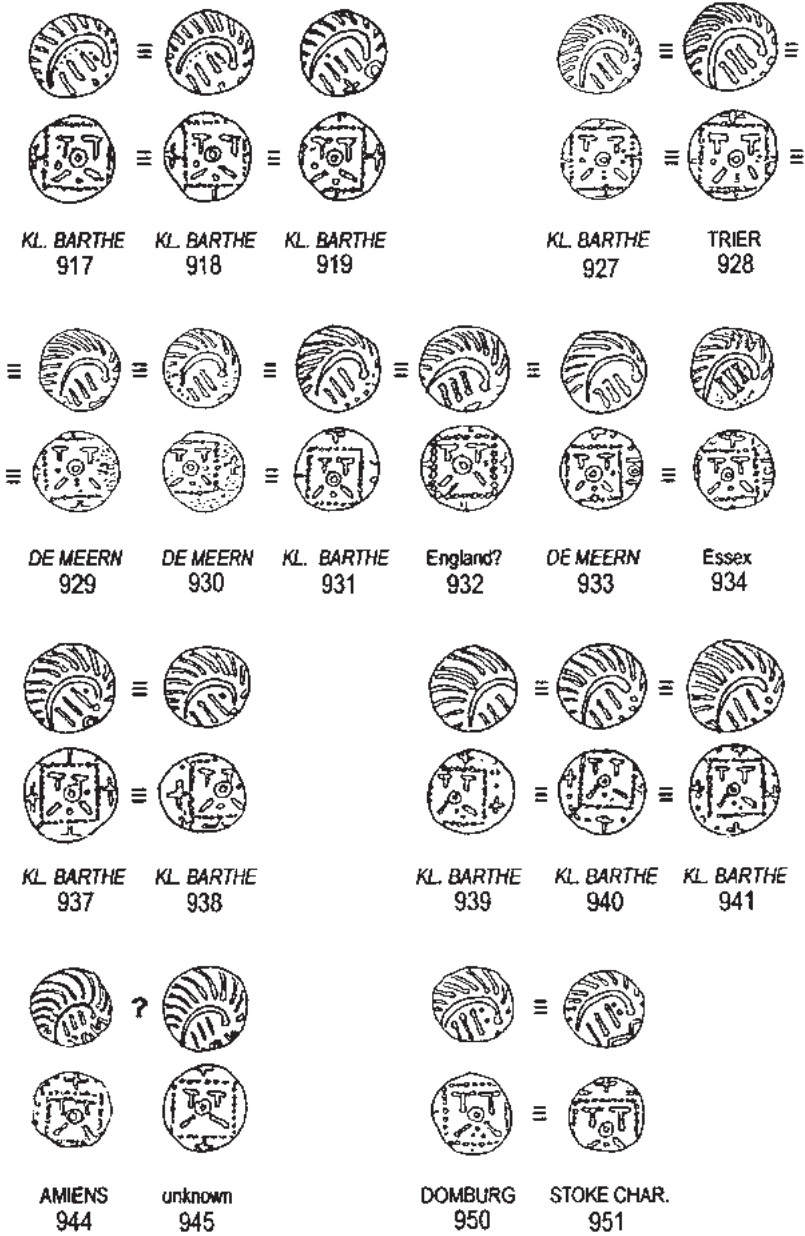
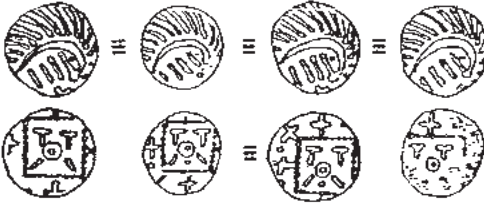
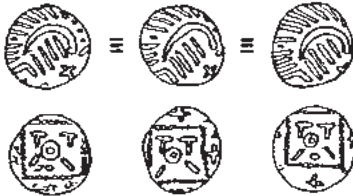


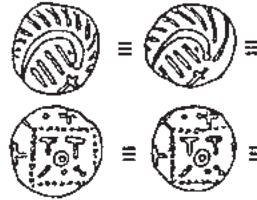
Plate 30. Die-linked coins of sub-variety b and c



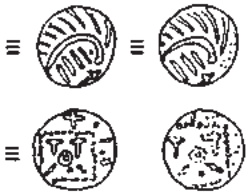
KL. BARTHE 954 BASSINGBO. 955 KL. BARTHE 956 NEWBALD 957



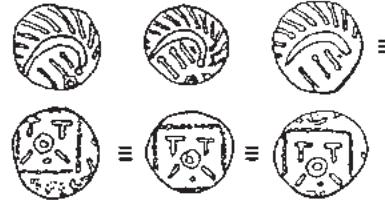
XANTEN 970 unknown 971 KL. BARTHE 972



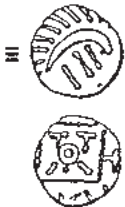
MICHELSM. 992 England? 993



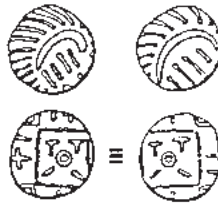
AUDLEY END 994 DOMBURG 995



KL. BARTHE 999 KL. BARTHE 1000 KL. BARTHE 1001



KL. BARTHE 1002



KL. BARTHE 1005 KL. BARTHE 1006

Plate 31. Die-linked coins of sub-variety c

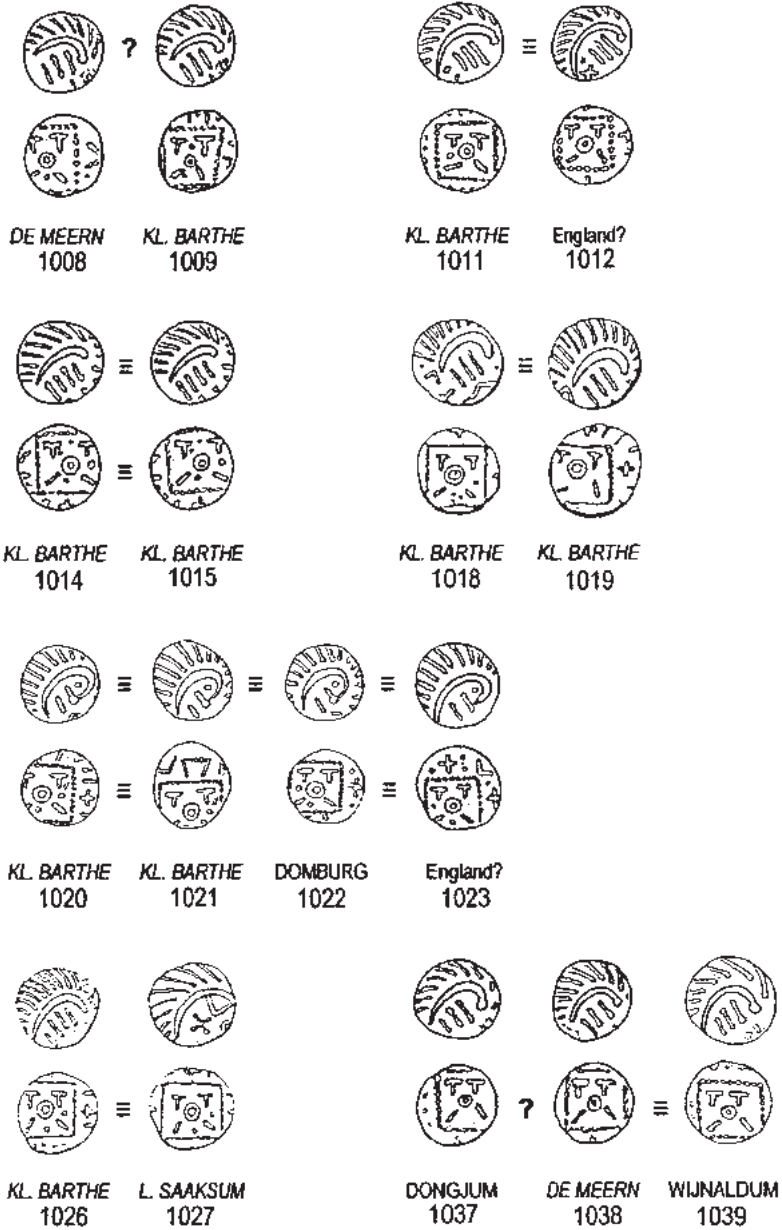


Plate 32. Die-linked coins of sub-variety c

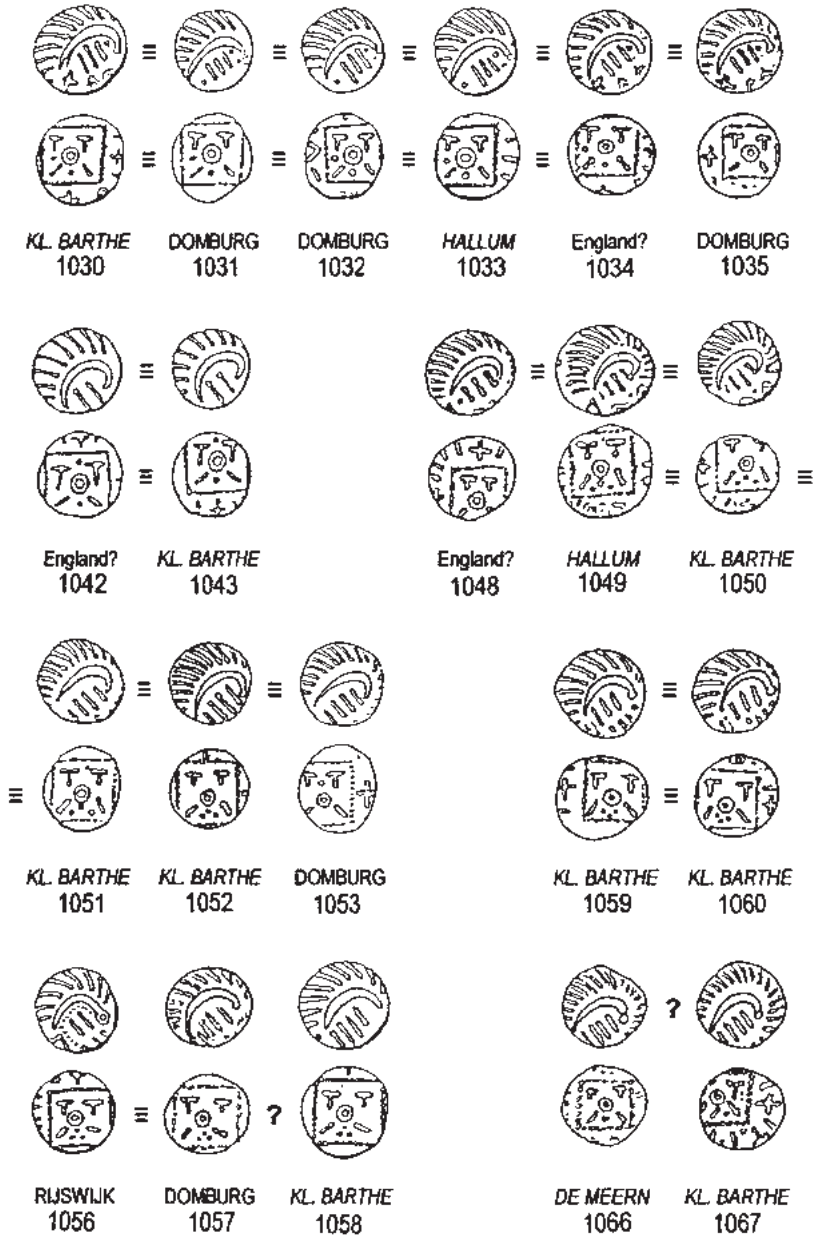


Plate 33. Die-linked coins of sub-variety c

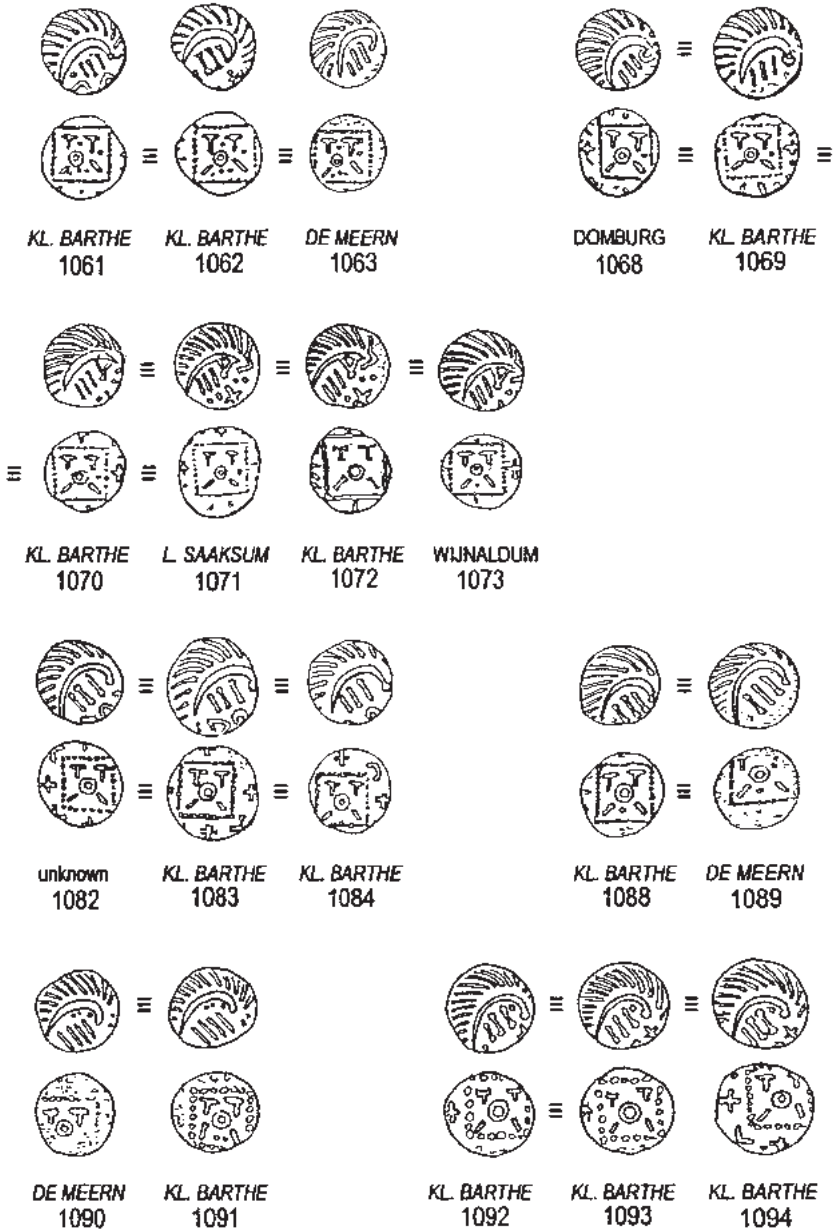


Plate 34. Die-linked coins of sub-variety c

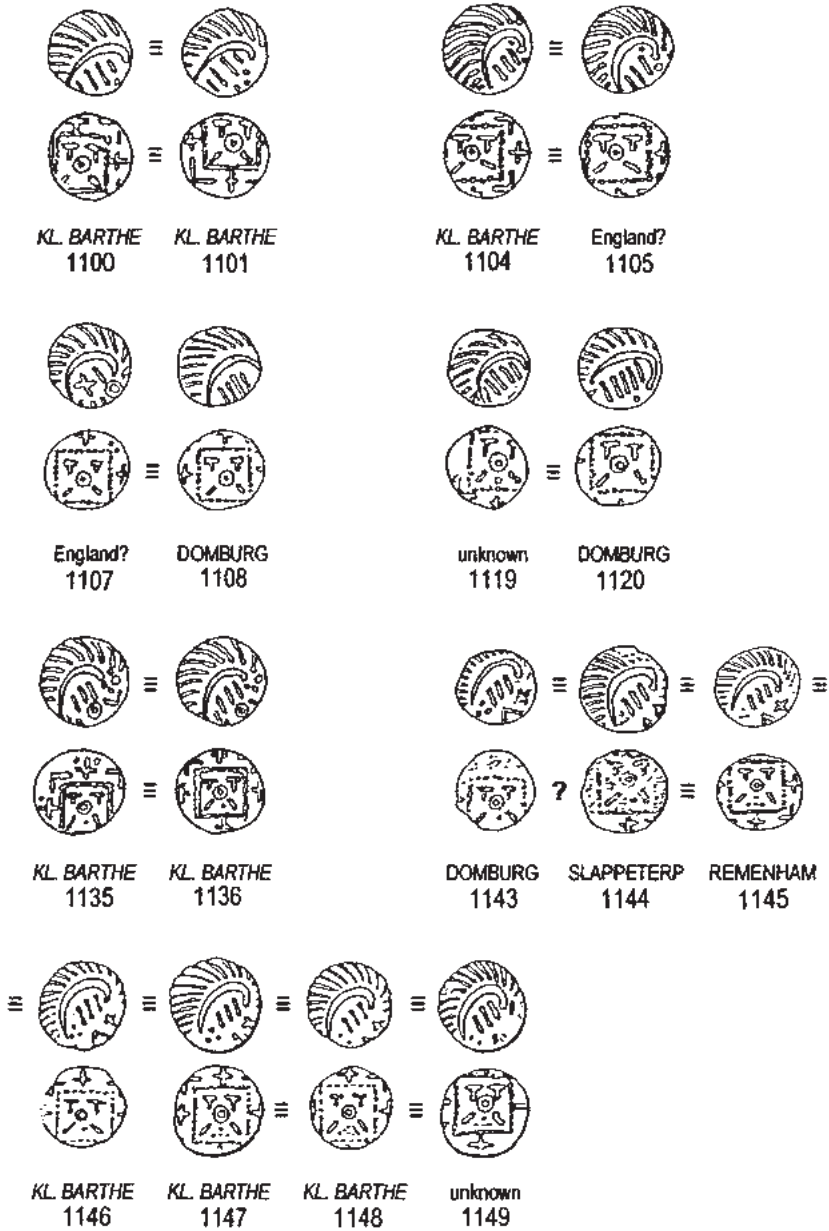


Plate 35. Die-linked coins of sub-variety c

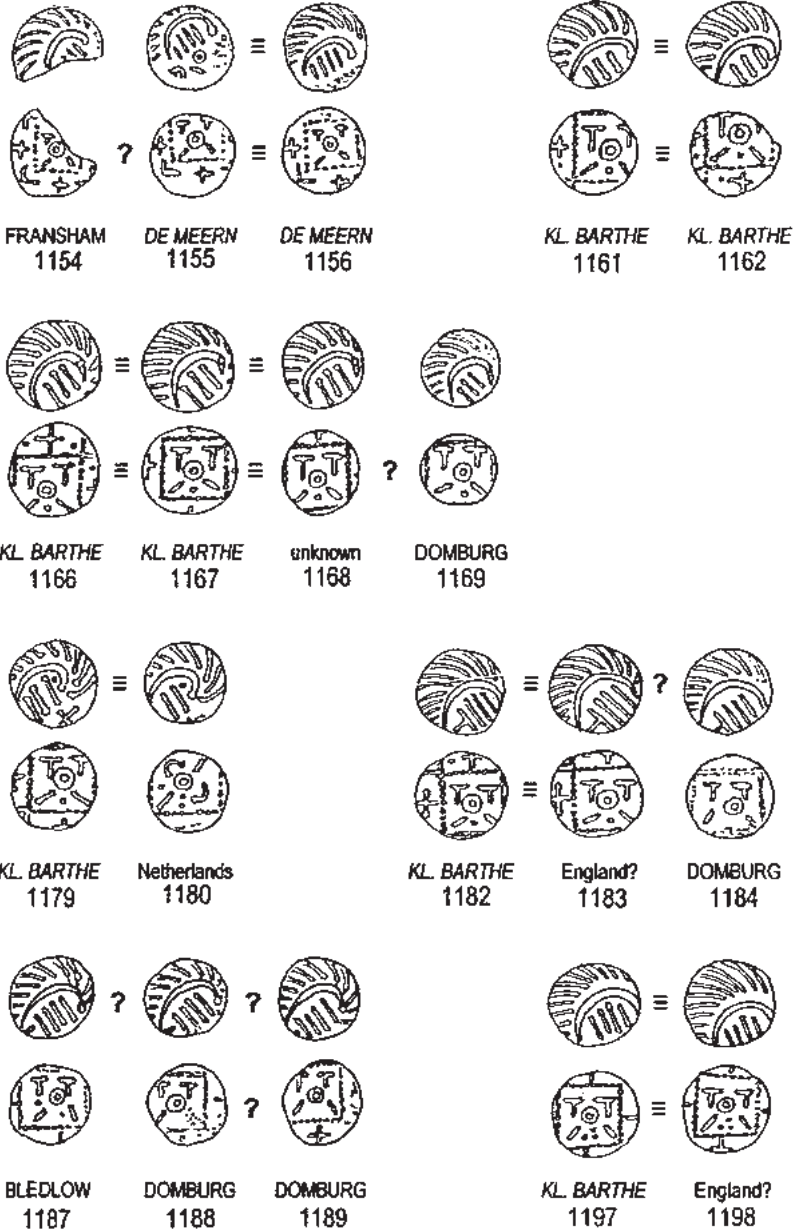


Plate 36. Die-linked coins of sub-variety c

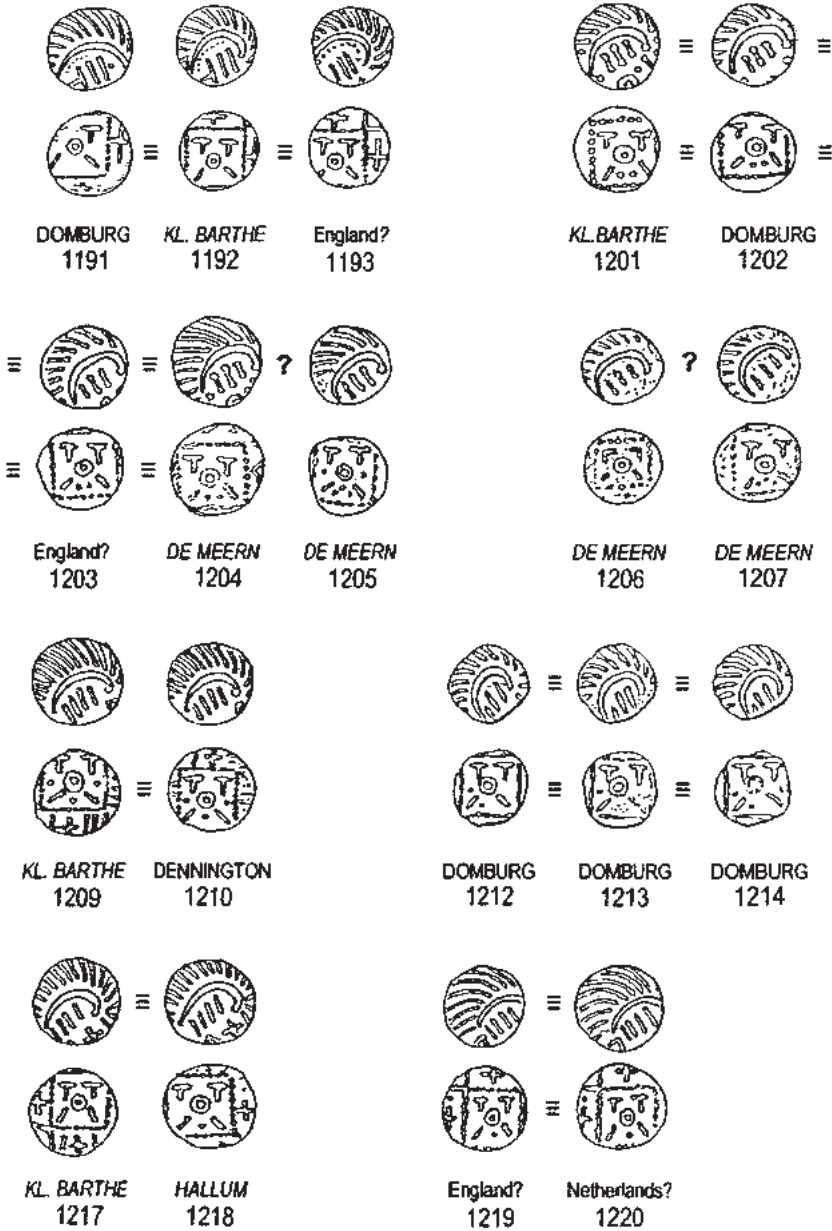


Plate 37. Die-linked coins of sub-variety c

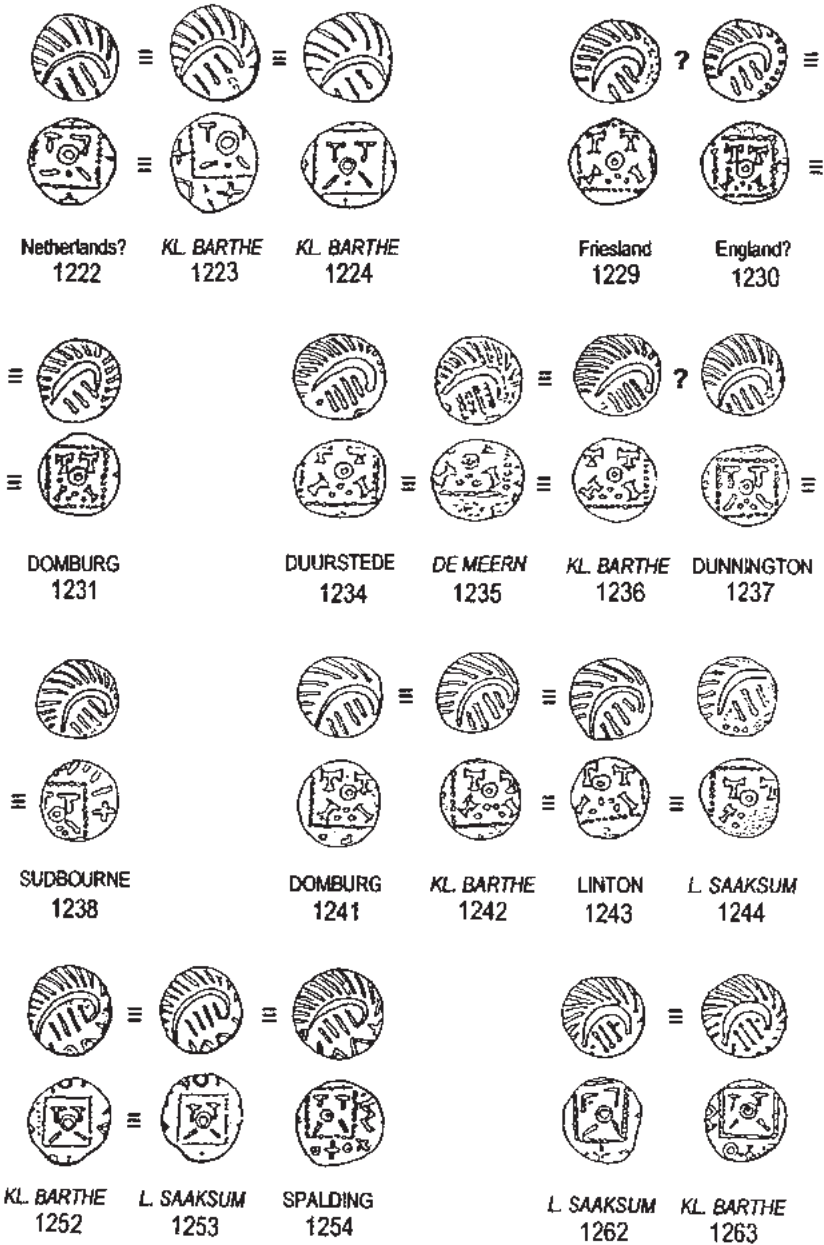


Plate 38. Die-linked coins of sub-variety c

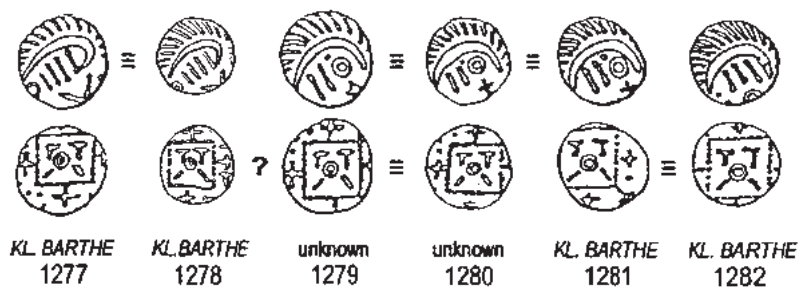
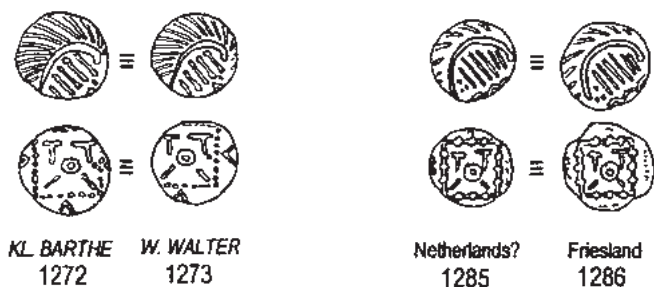
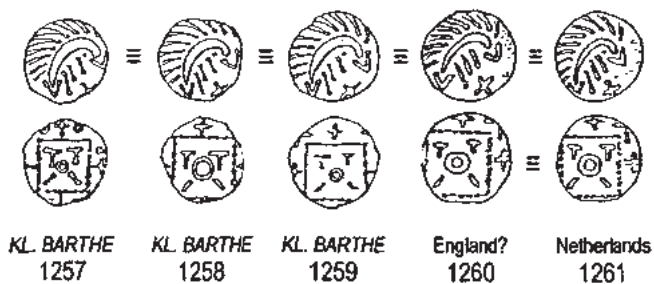


Plate 39. Die-linked coins of sub-variety c and d

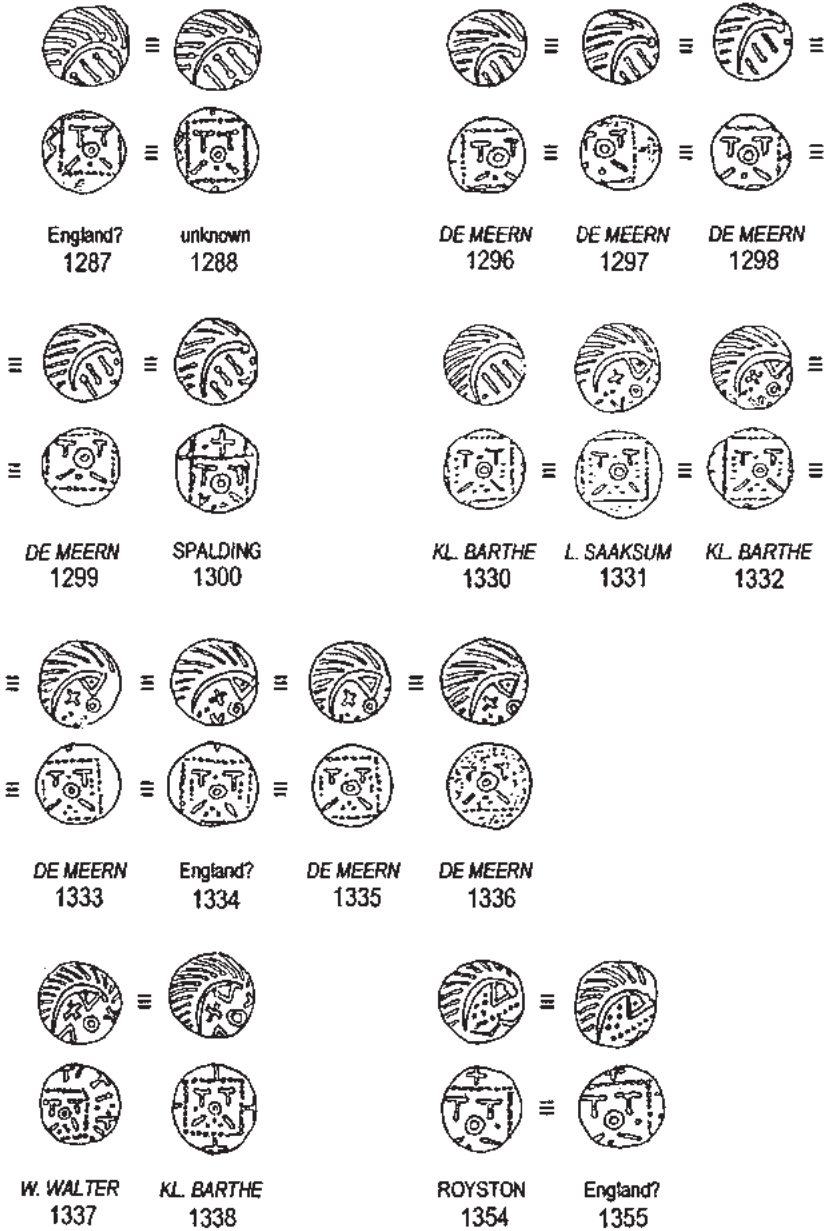


Plate 40. Die-linked coins of sub-variety d

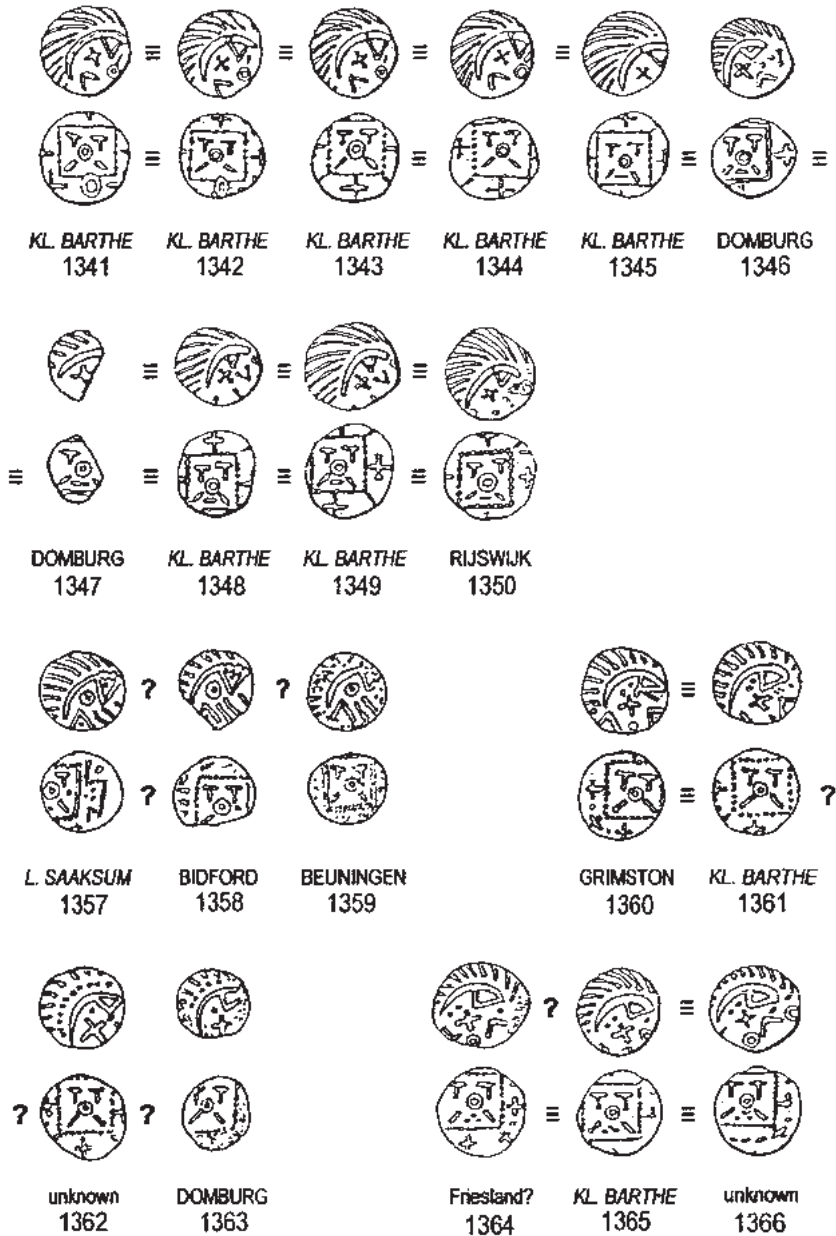


Plate 41. Die-linked coins of sub-variety d

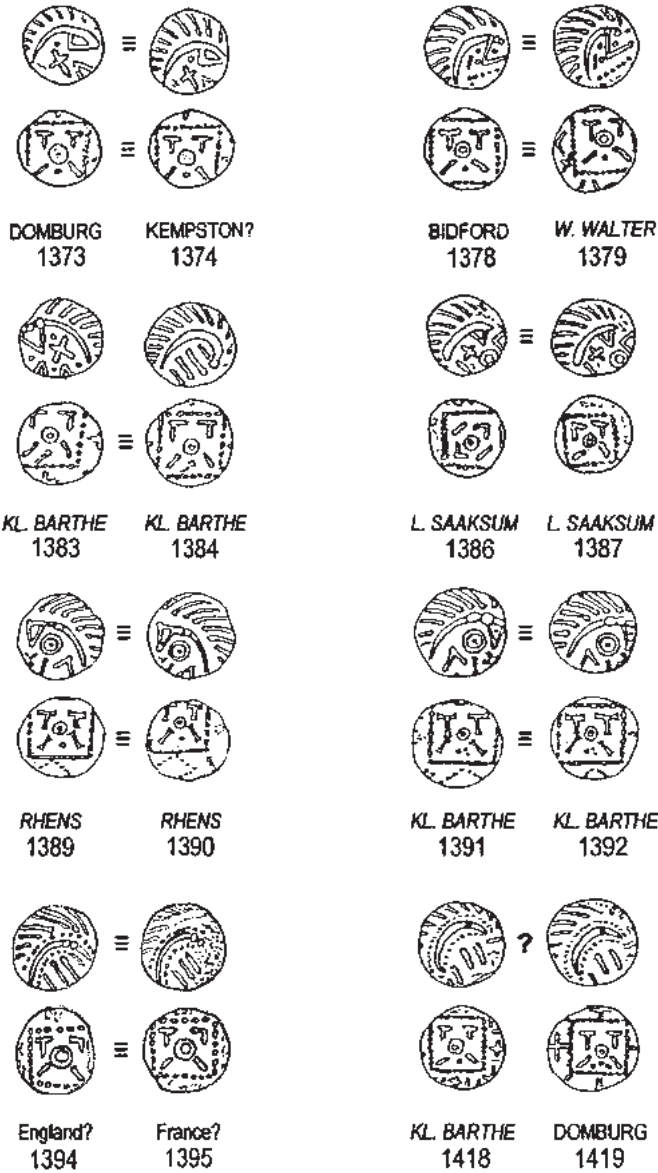


Plate 42. Die-linked coins of sub-variety d

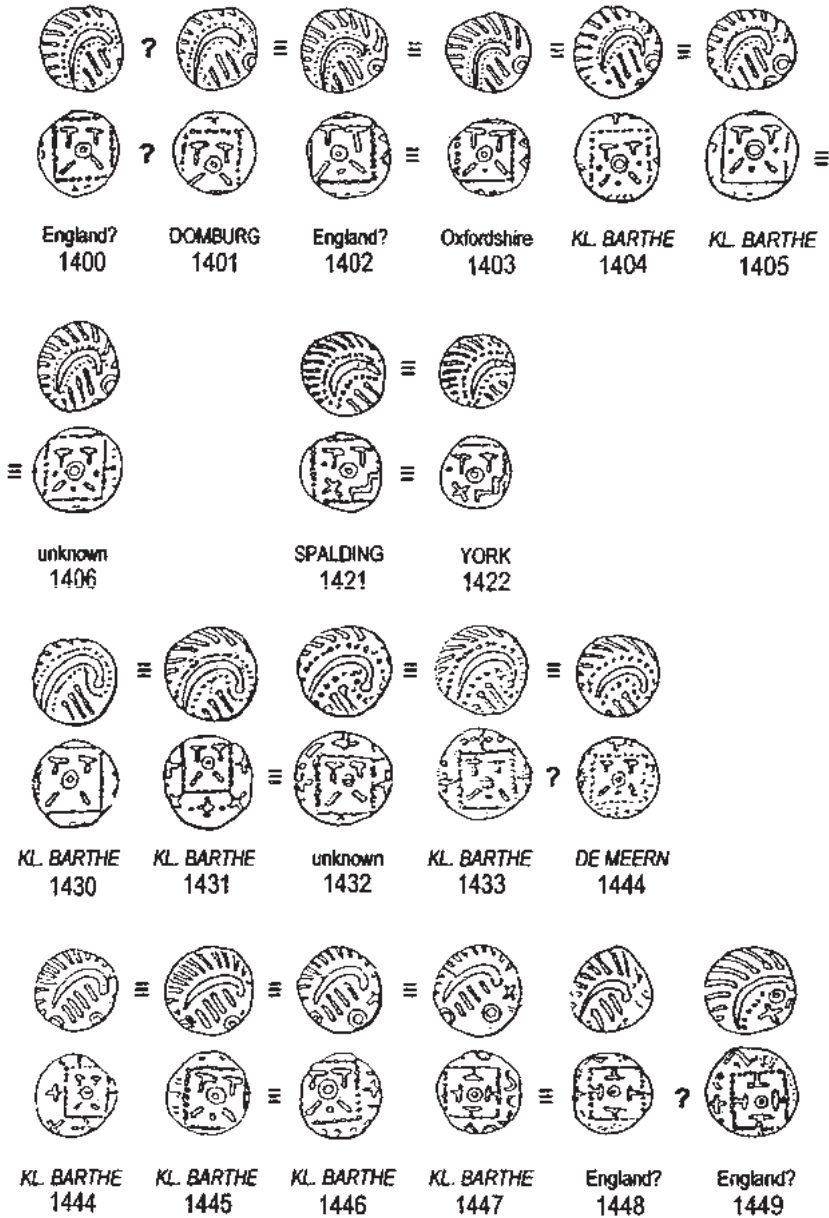


Plate 43. Die-linked coins of sub-variety d

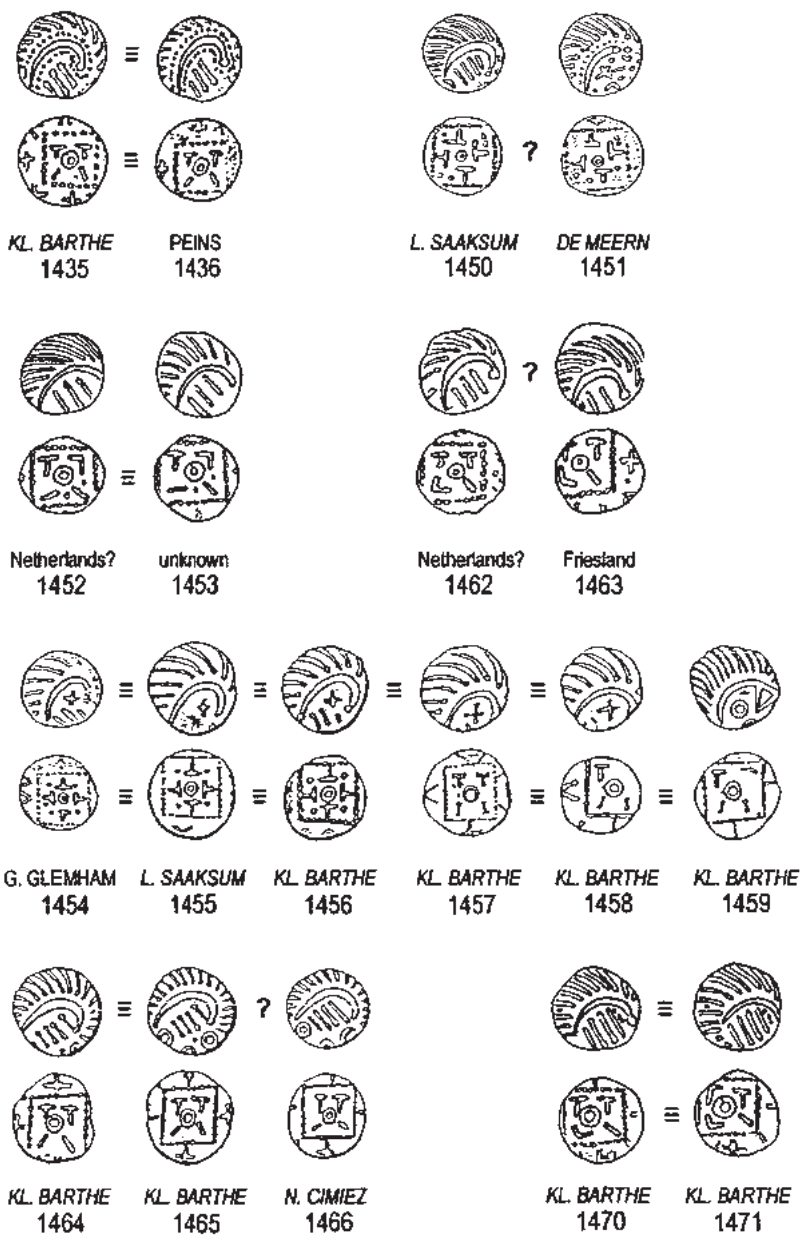
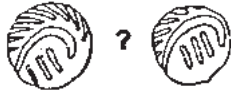


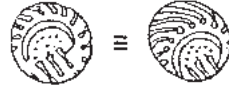
Plate 44. Die-linked coins of sub-variety d



KL. BARTHE
1472



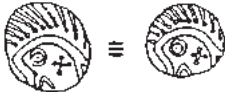
DOMBURG
1473



KL. BARTHE
1476



KL. BARTHE
1477



KL. BARTHE
1478



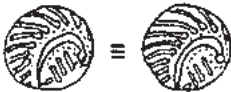
KL. BARTHE
1479



KL. BARTHE
1482



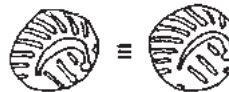
KL. BARTHE
1483



KL. BARTHE
1486



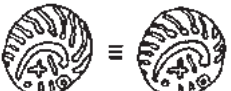
KL. BARTHE
1487



KL. BARTHE
1494



KL. BARTHE
1495



TWYFORD
1499



England?
1500

Plate 45. Die-linked coins of sub-variety d

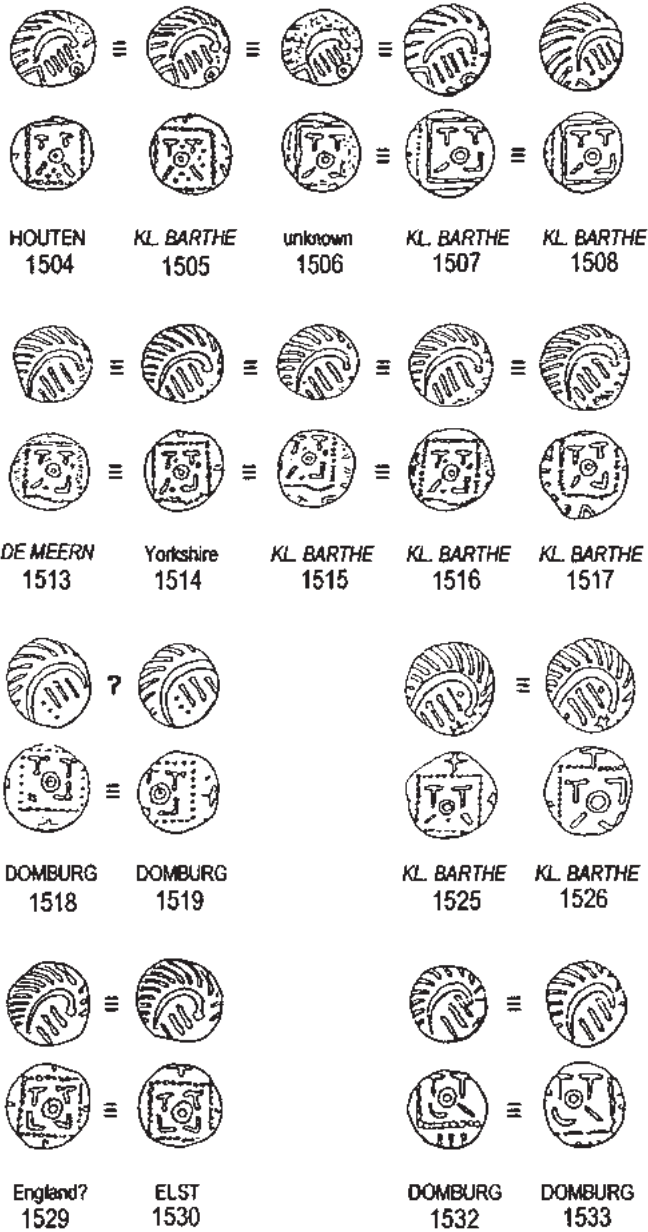


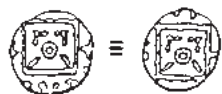
Plate 46. Die-linked coins of sub-variety d



KL. BARTHE
1535



KL. BARTHE
1536



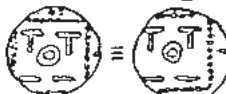
GRIMSBY
1553



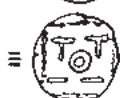
DOMBURG
1554



WESTENSCH.
1555



FRANEKER
1556



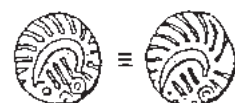
KL. BARTHE
1562



KL. BARTHE
1563



KL. BARTHE
1564



KL. BARTHE
1540



KL. BARTHE
1541



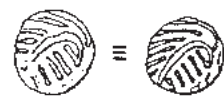
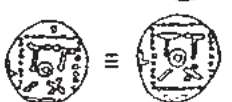
W. WALTER
1565



KL. BARTHE
1566



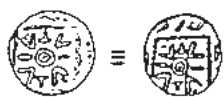
N. CIMIEZ
1567



DOMBURG
1570



unknown
1571



EWELME
1576



SLEAFORD
1577



Plate 47. Die-linked coins of sub-variety d and e

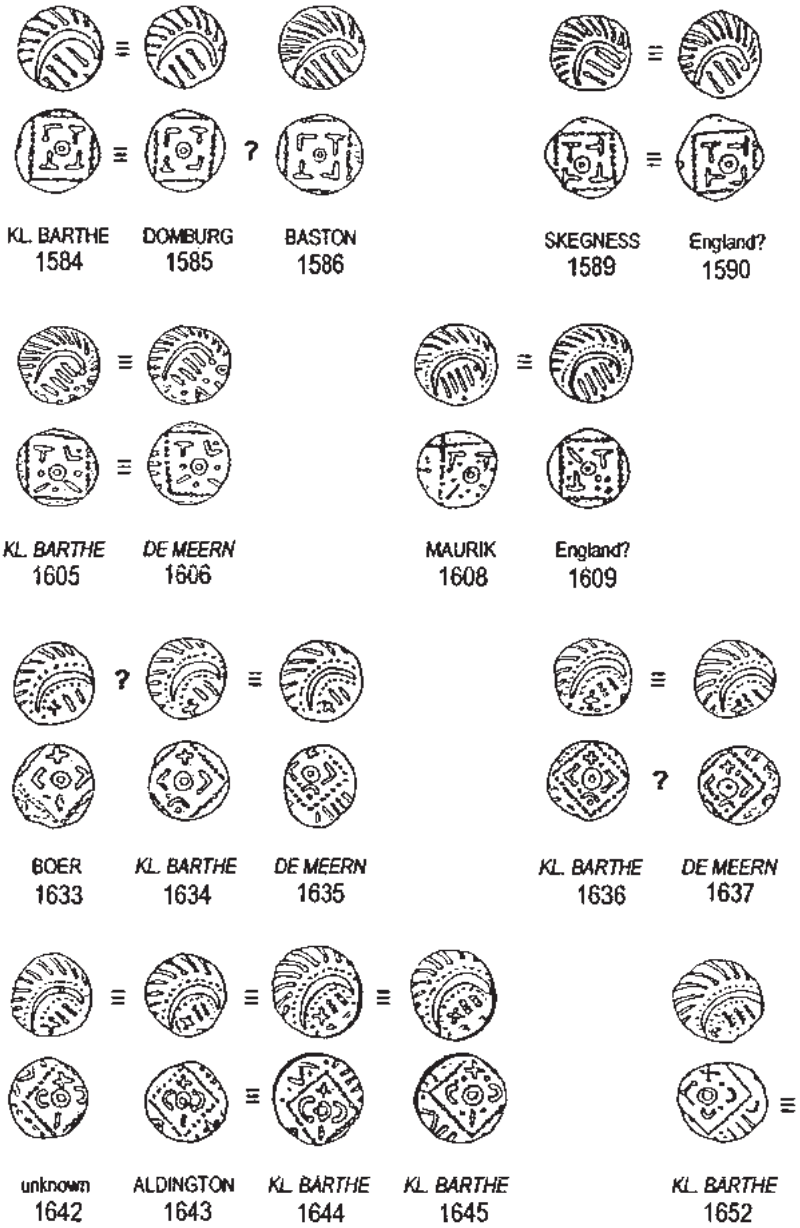


Plate 48. Die-linked coins of sub-variety e

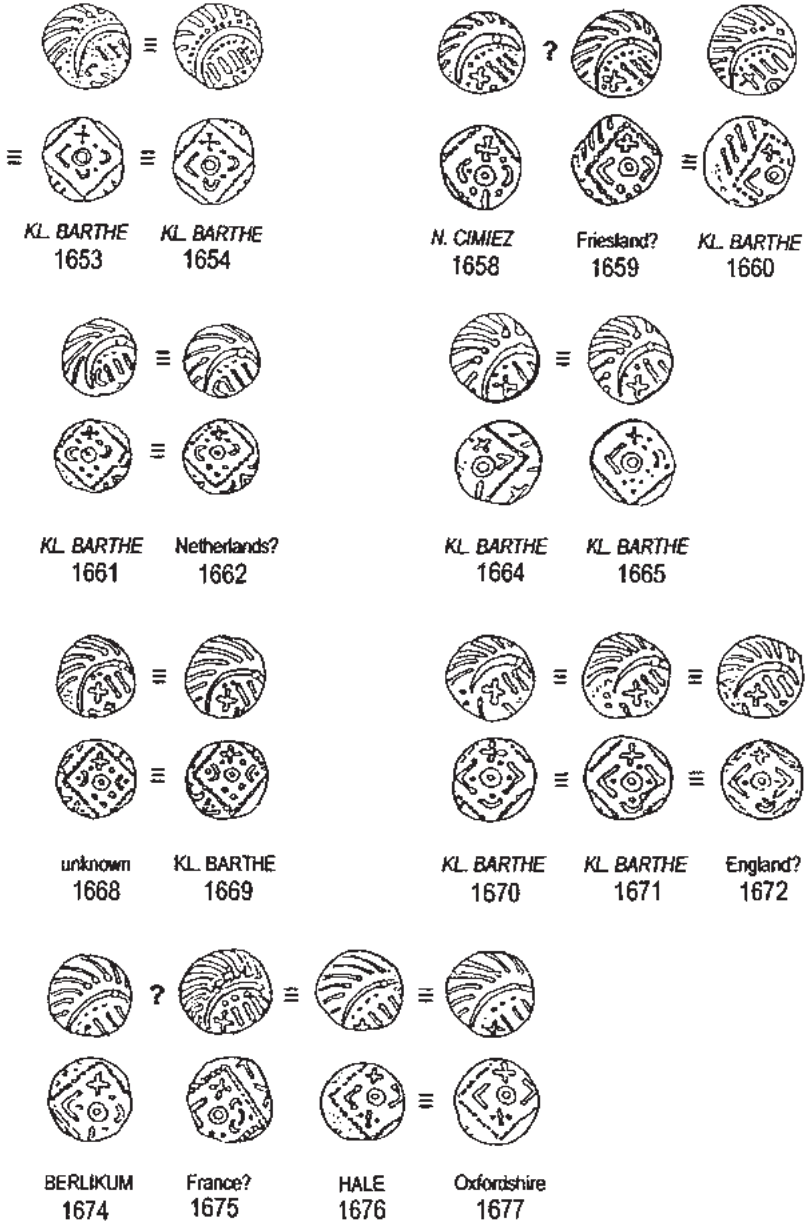


Plate 49. Die-linked coins of sub-variety e

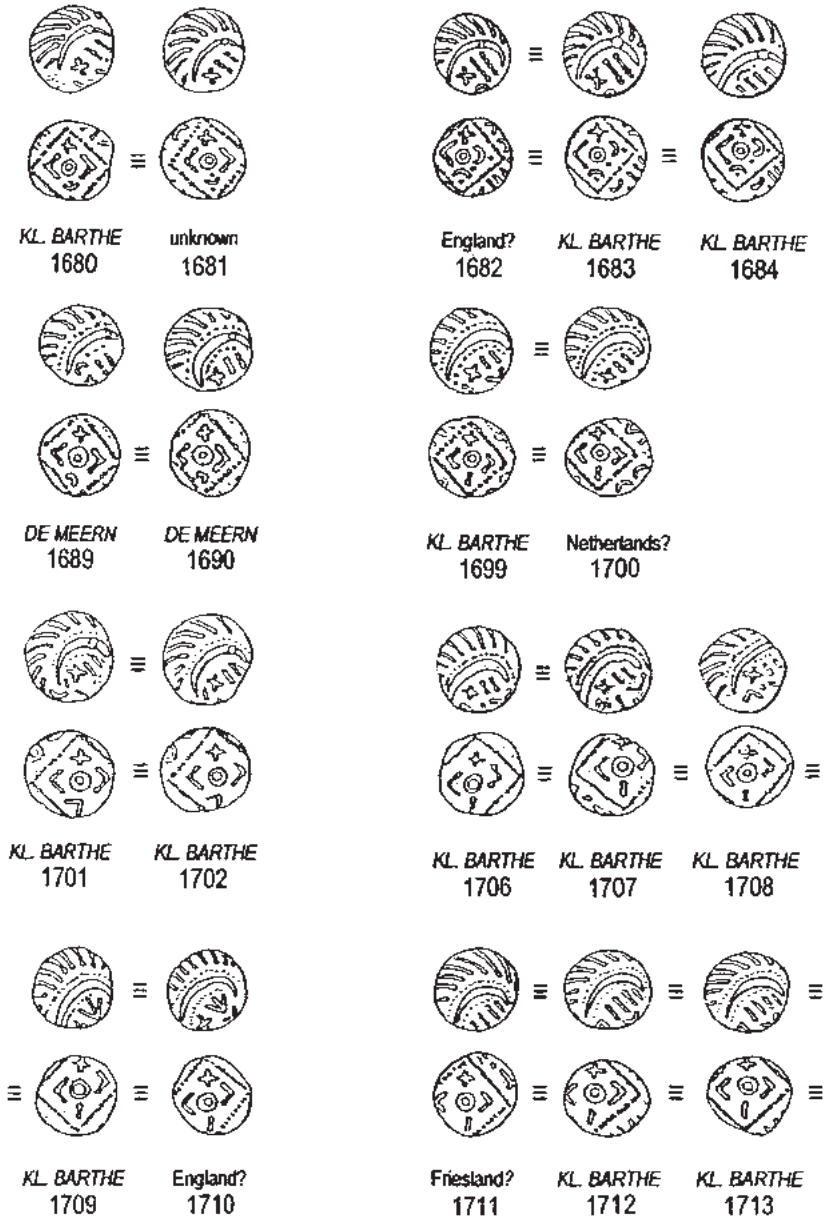


Plate 50. Die-linked coins of sub-variety e

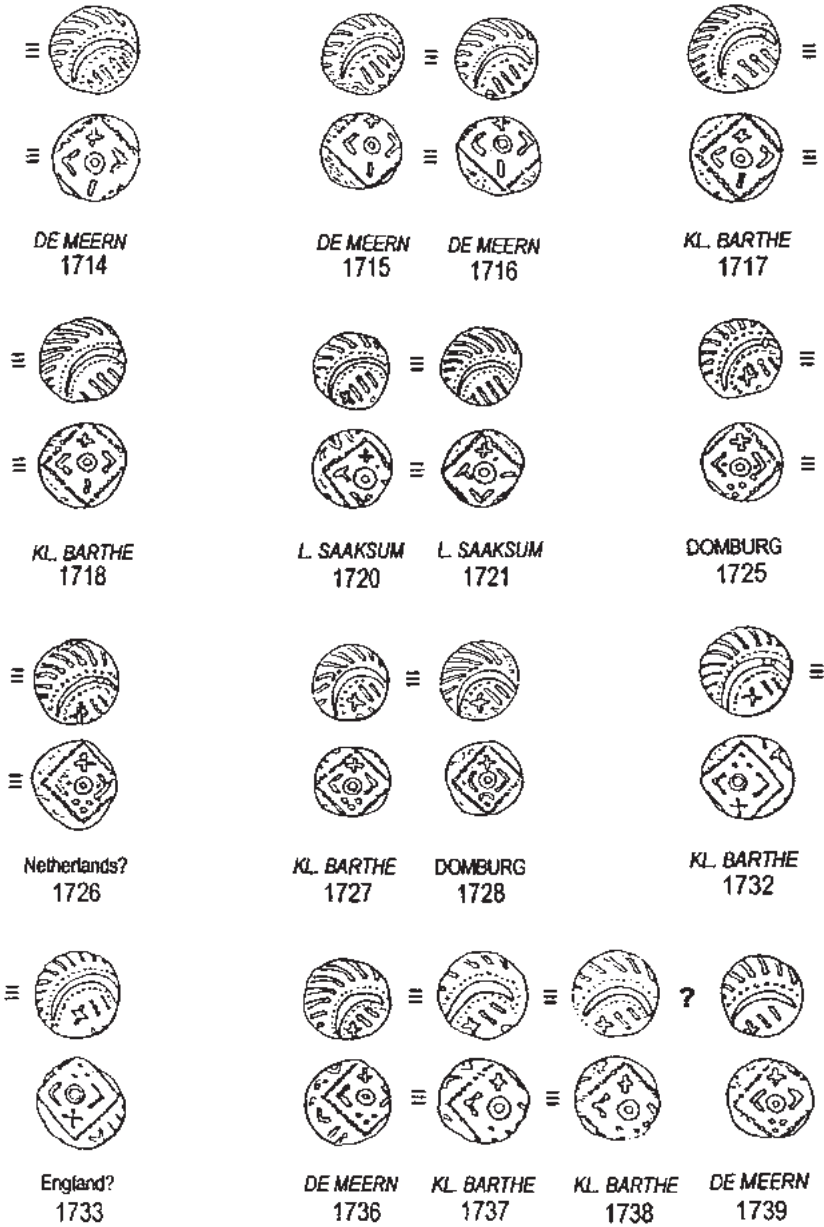


Plate 51. Die-linked coins of sub-variety e

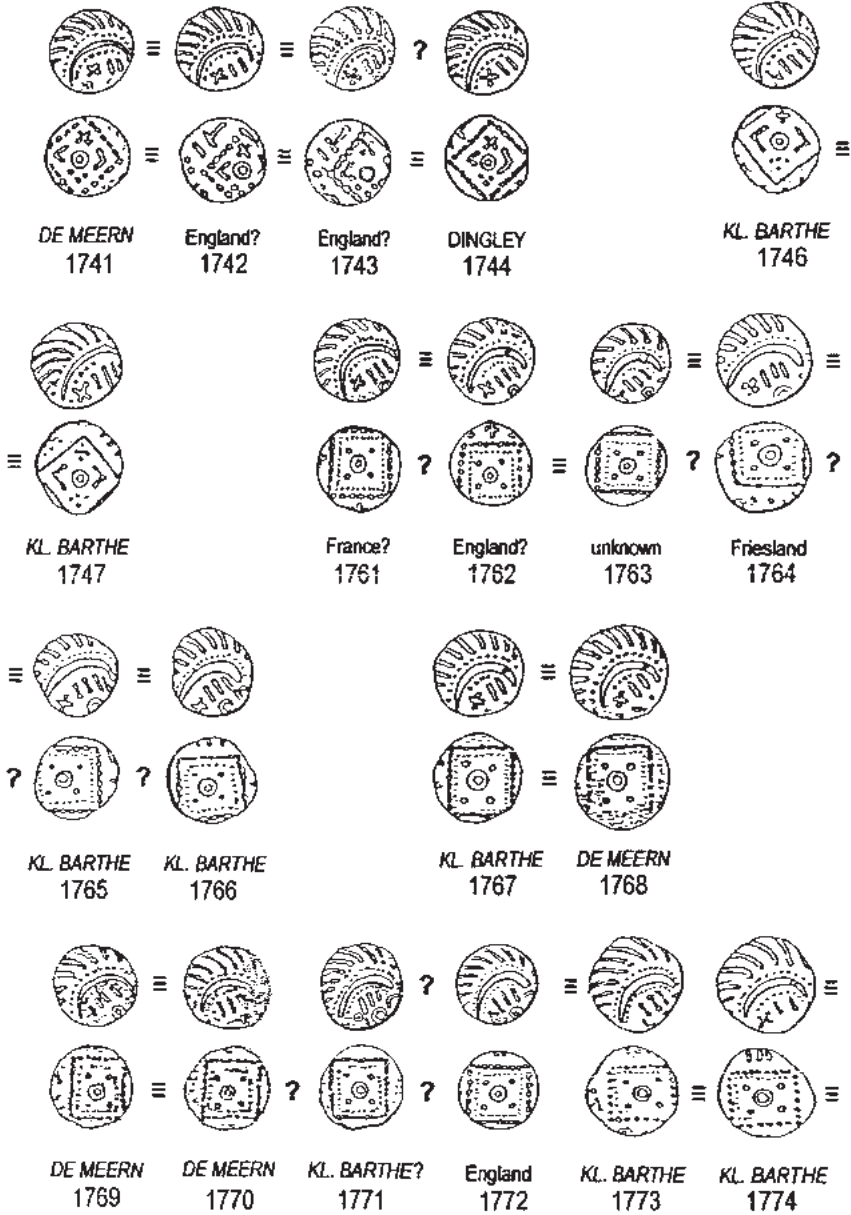


Plate 52. Die-linked coins of sub-variety e and f

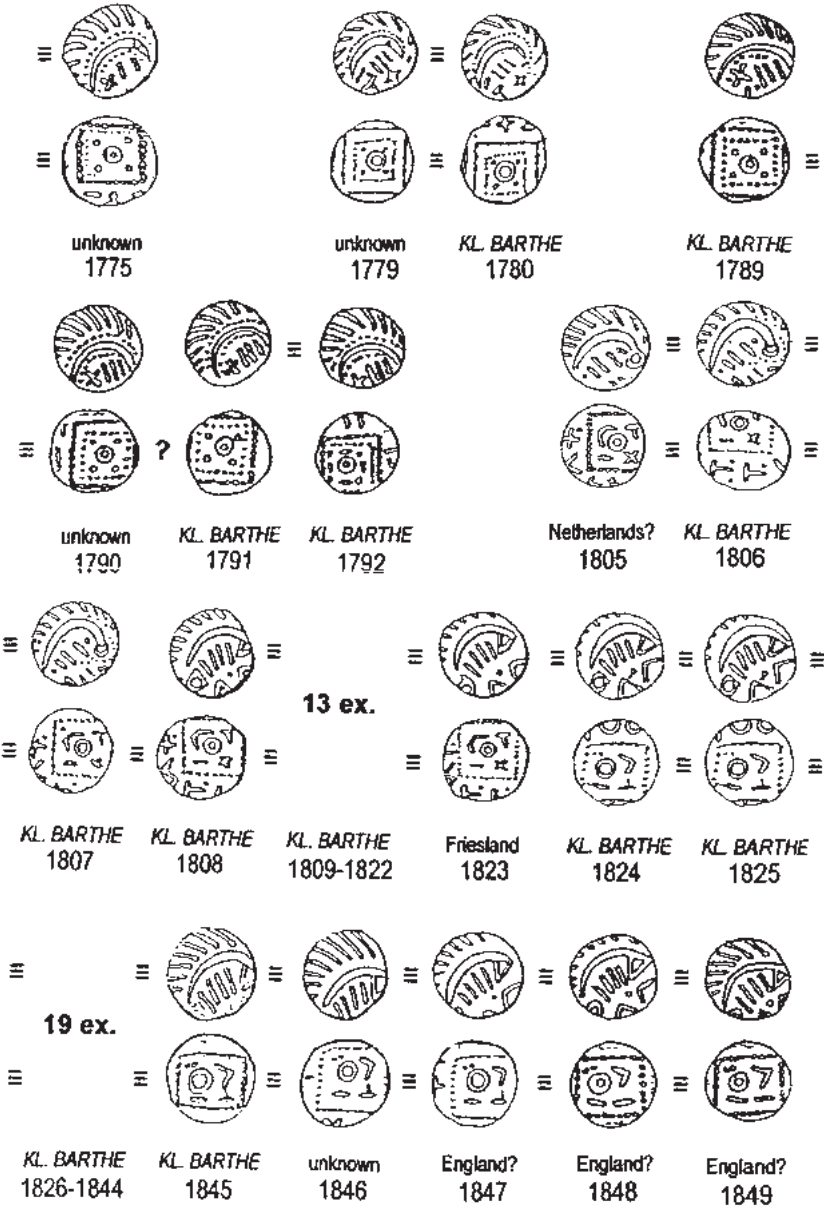


Plate 53. Die-linked coins of sub-variety f

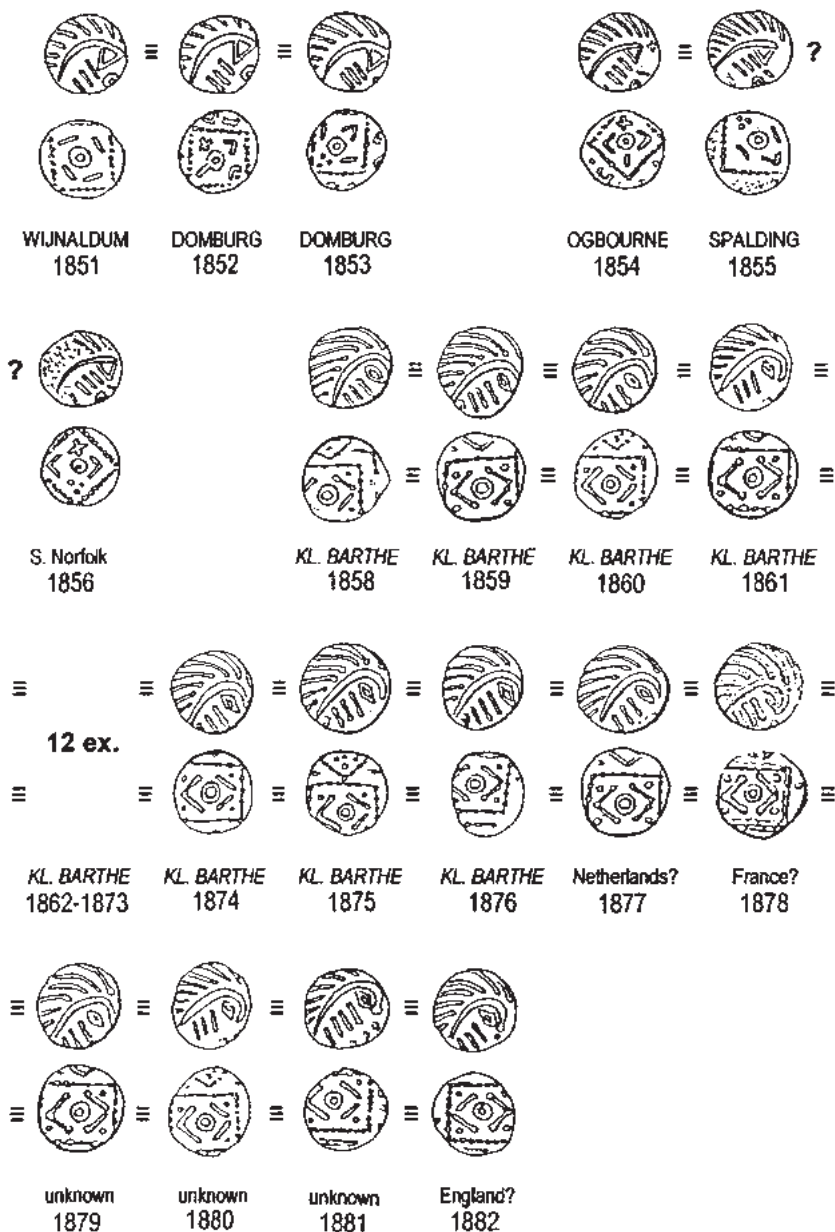


Plate 54. Die-linked coins of sub-variety f and g

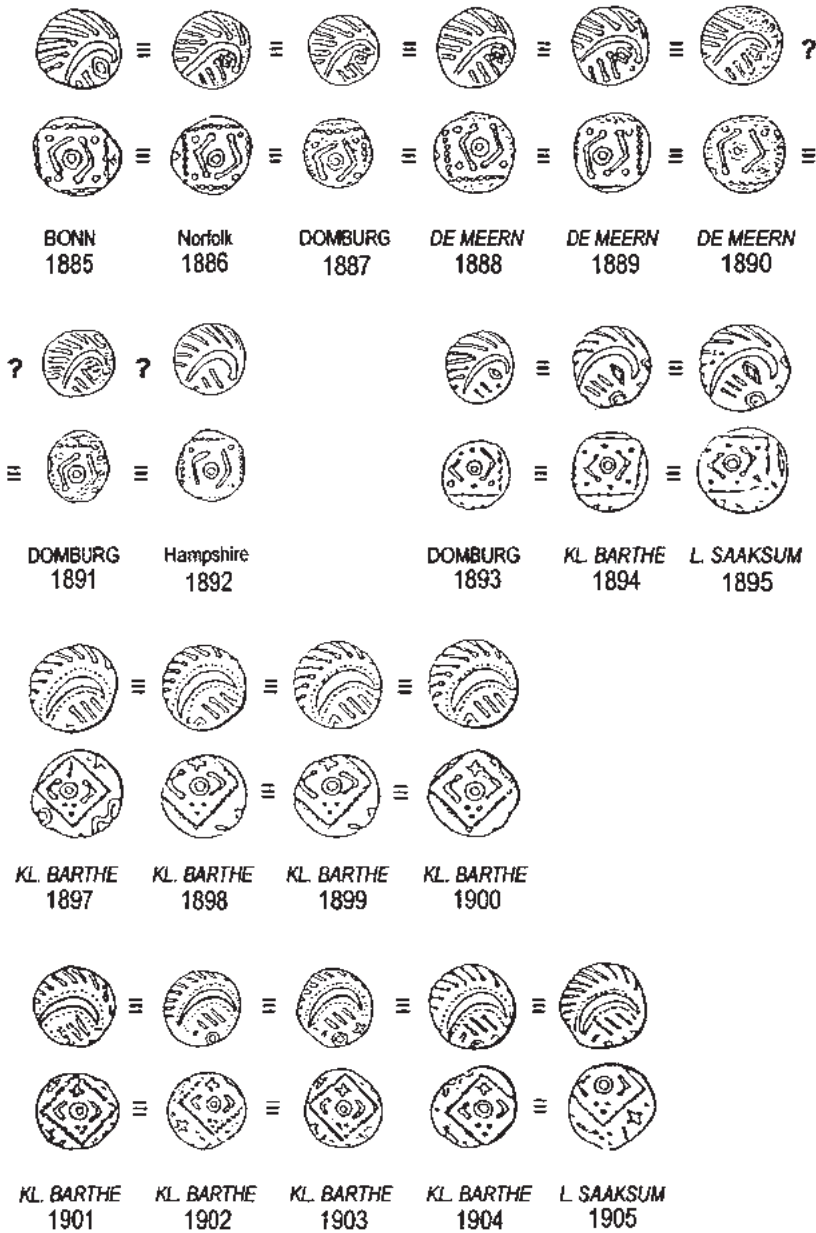


Plate 55. Die-linked coins of sub-variety g

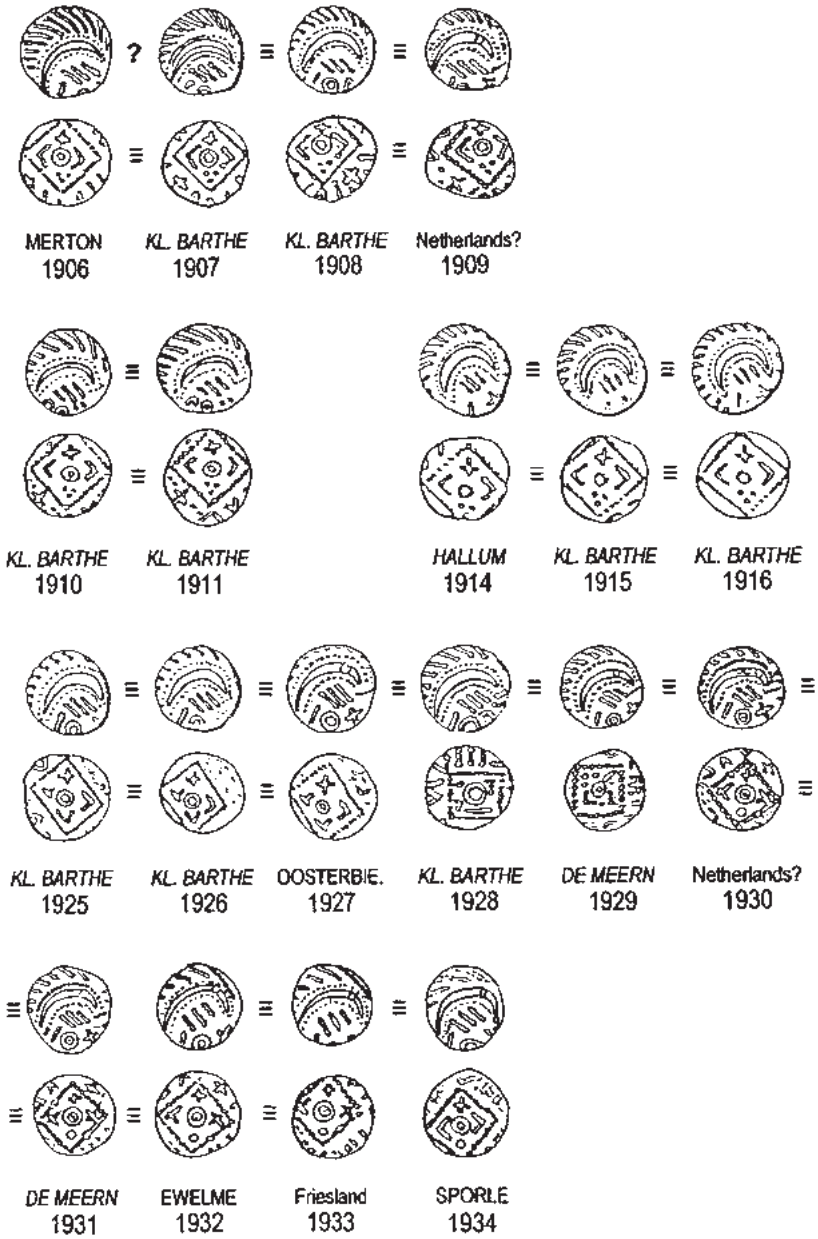


Plate 56. Die-linked coins of sub-variety g

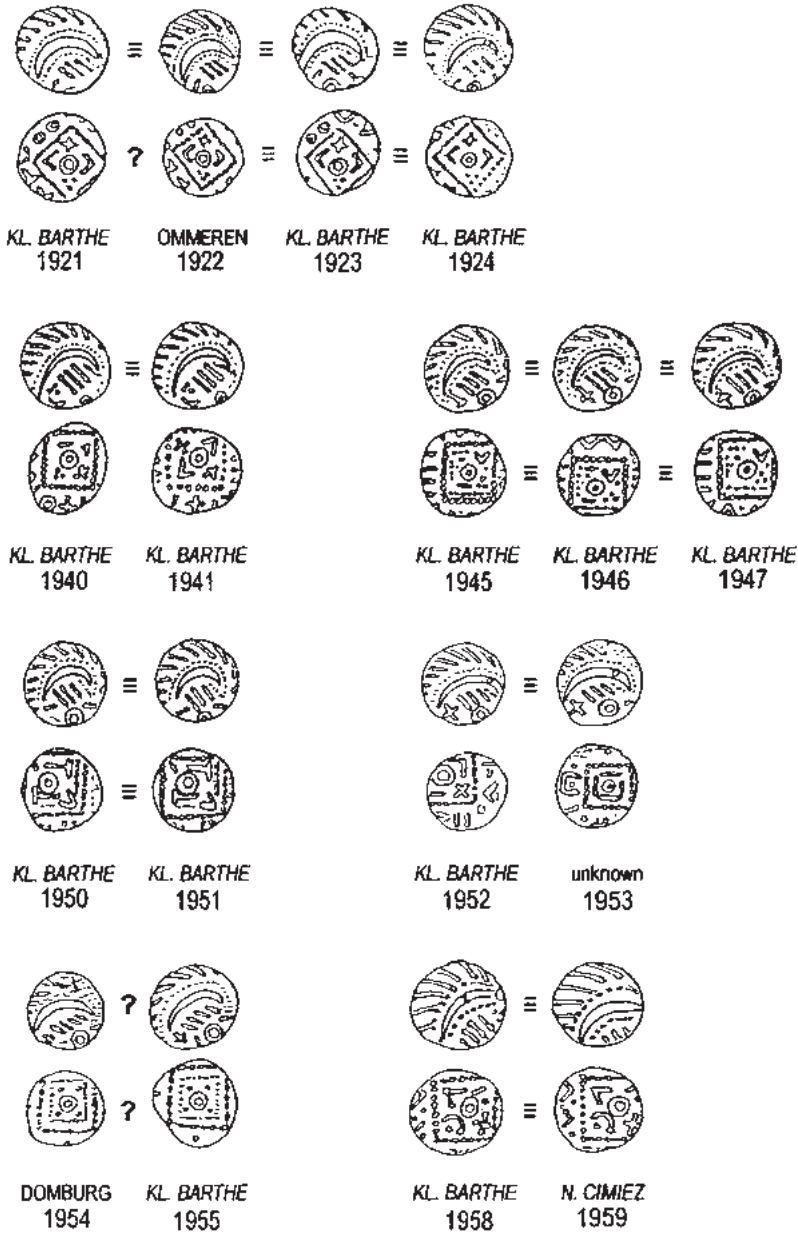


Plate 57. Die-linked coins of sub-variety g and h

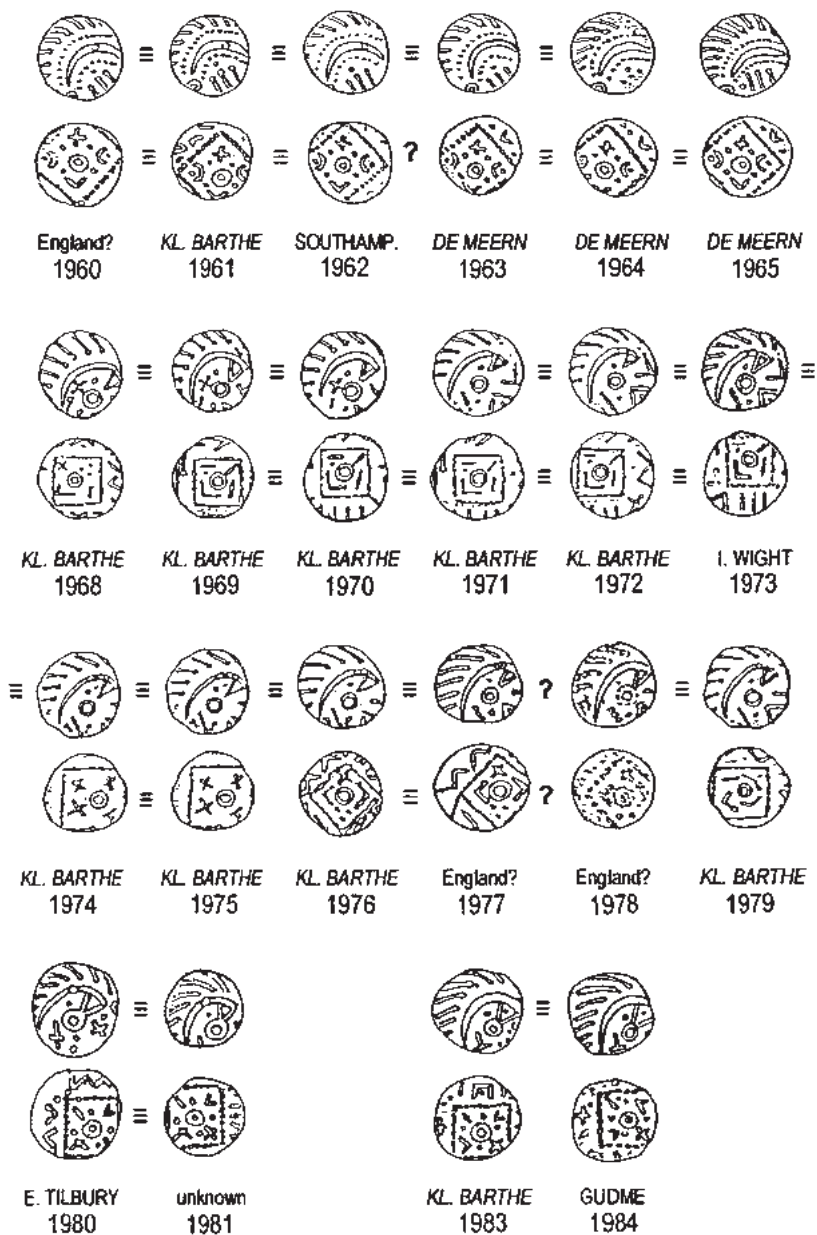


Plate 58. Die-linked coins of sub-variety h

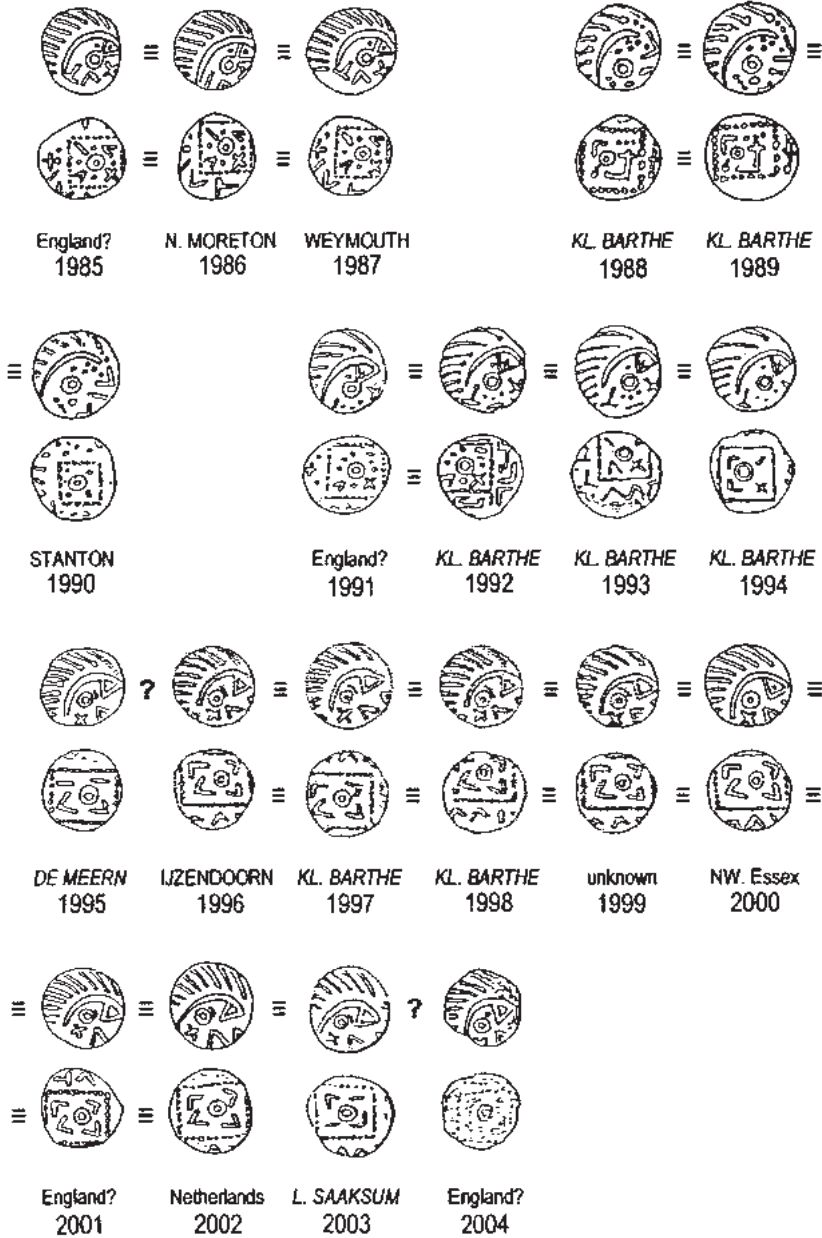


Plate 59. Die-linked coins of sub-variety h

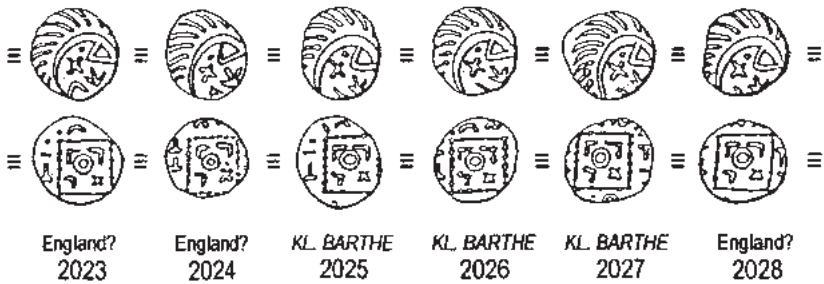
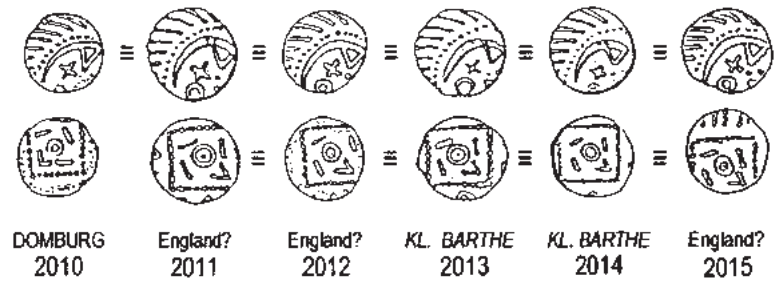
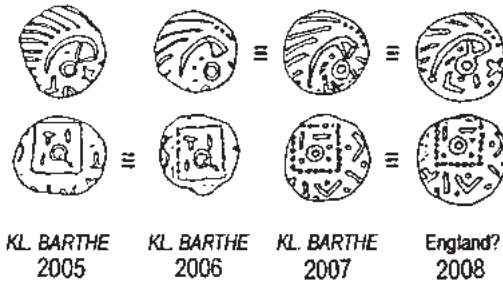


Plate 60. Die-linked coins of sub-variety h

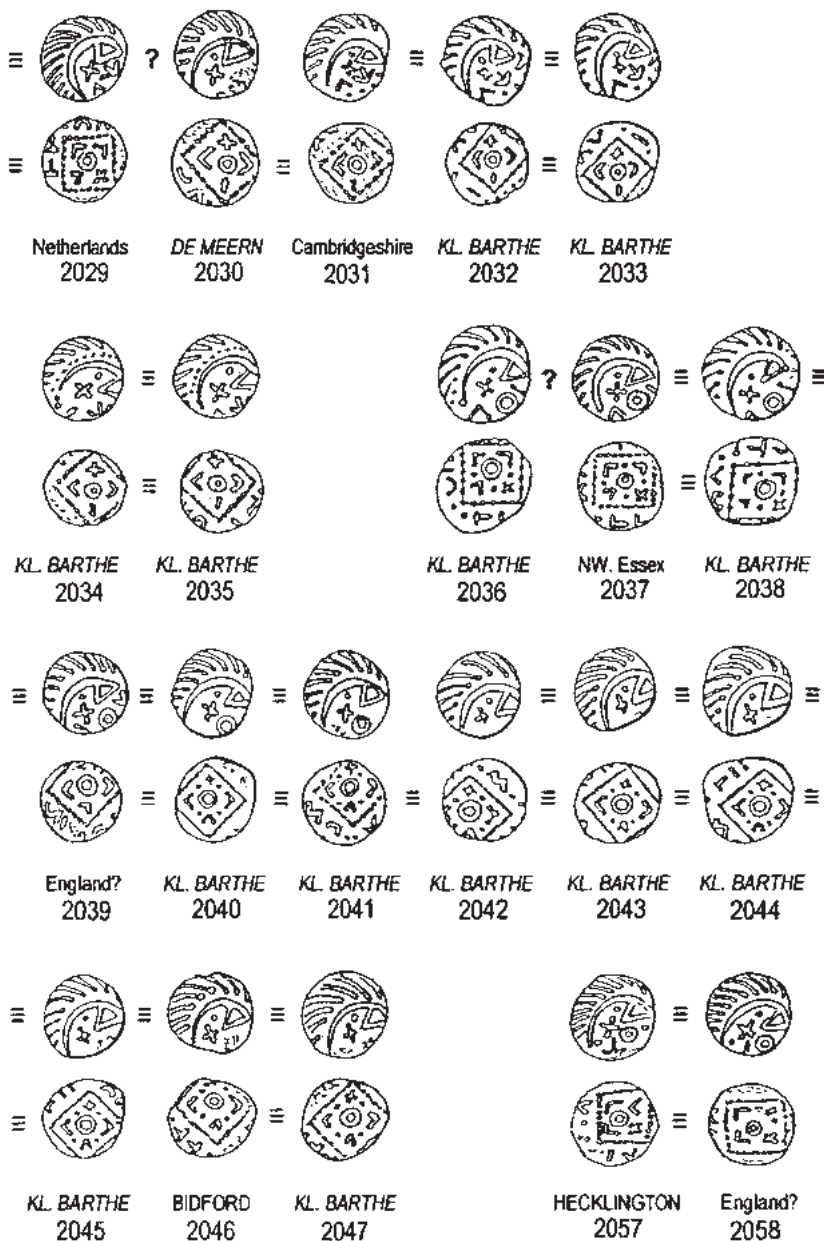
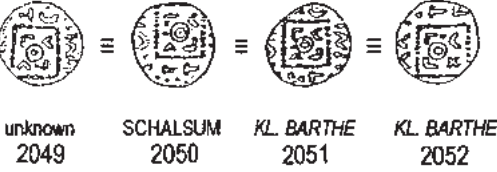
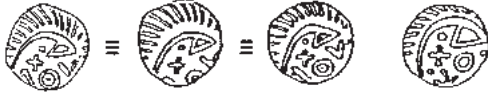
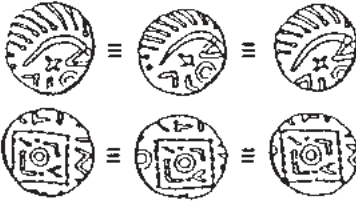


Plate 61. Die-linked coins of sub-variety h



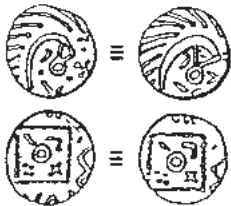
unknown 2049 SCHALSUM 2050 KL. BARTHE 2051 KL. BARTHE 2052



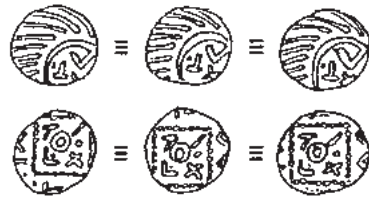
KL. BARTHE 2053 KL. BARTHE 2054 unknown 2055



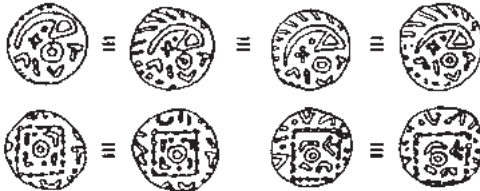
KL. BARTHE 2059 KL. BARTHE 2060



KL. BARTHE 2061 Netherlands 2062



KL. BARTHE 2067 KL. BARTHE 2068 KL. BARTHE 2069



EGMOND 2071 England? 2072 N. CIMIEZ 2073 W. Norfolk 2074

Plate 62. Die-linked coins of sub-variety h

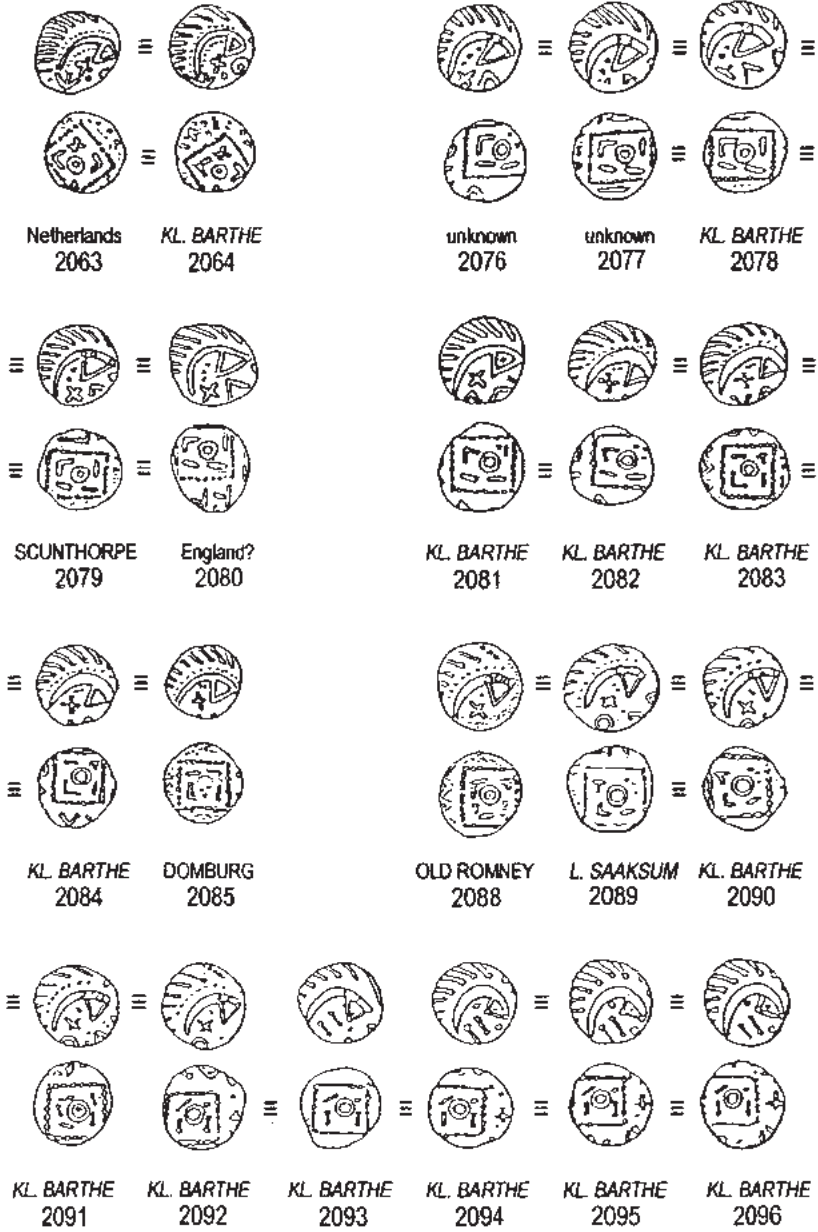


Plate 63. Die-linked coins of sub-variety h

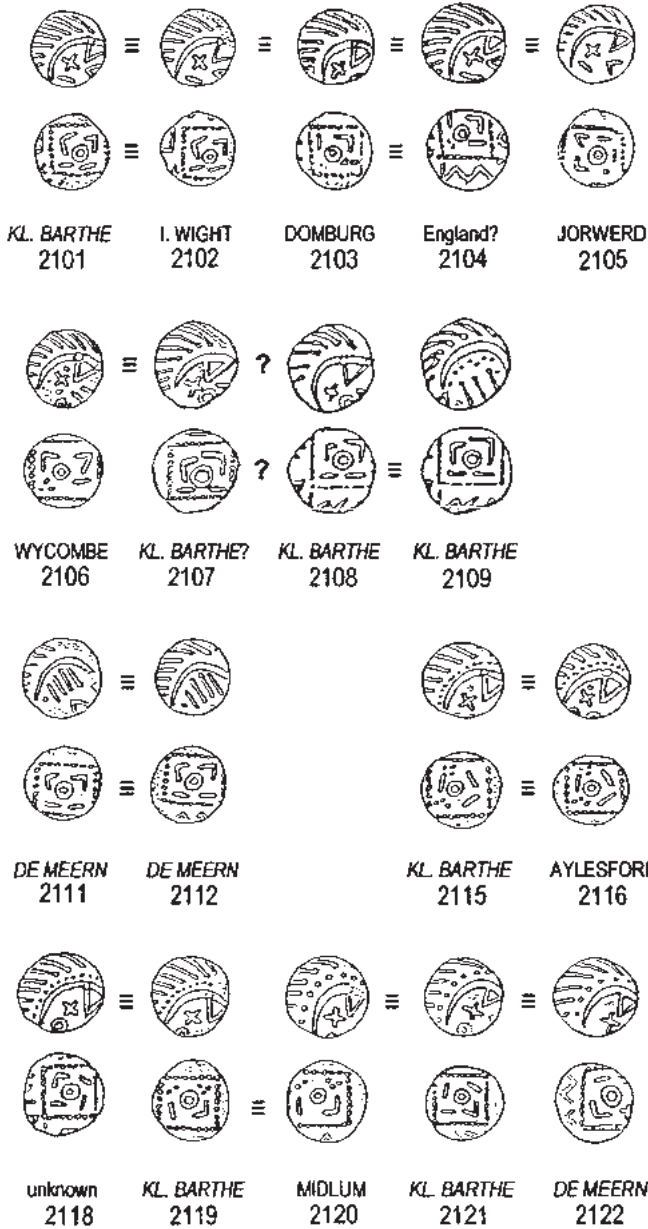
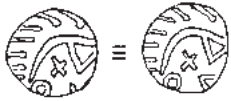
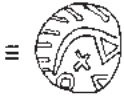


Plate 64. Die-linked coins of sub-variety h



DÜREN
2124



FOULSHAM
2125



KL. BARTHE
2128



KL. BARTHE
2129



unknown
2130



DE MEERN
2131



England?
2132



KL. BARTHE
2133



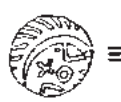
KL. BARTHE
2134



KL. BARTHE
2135



KL. BARTHE
2136



KL. BARTHE
2137



KL. BARTHE
2138



KL. BARTHE
2140



SPALDING
2141



FINGRINGHOE
2142



K. AVEZAATH
2143

Plate 65. Die-linked coins of sub-variety h

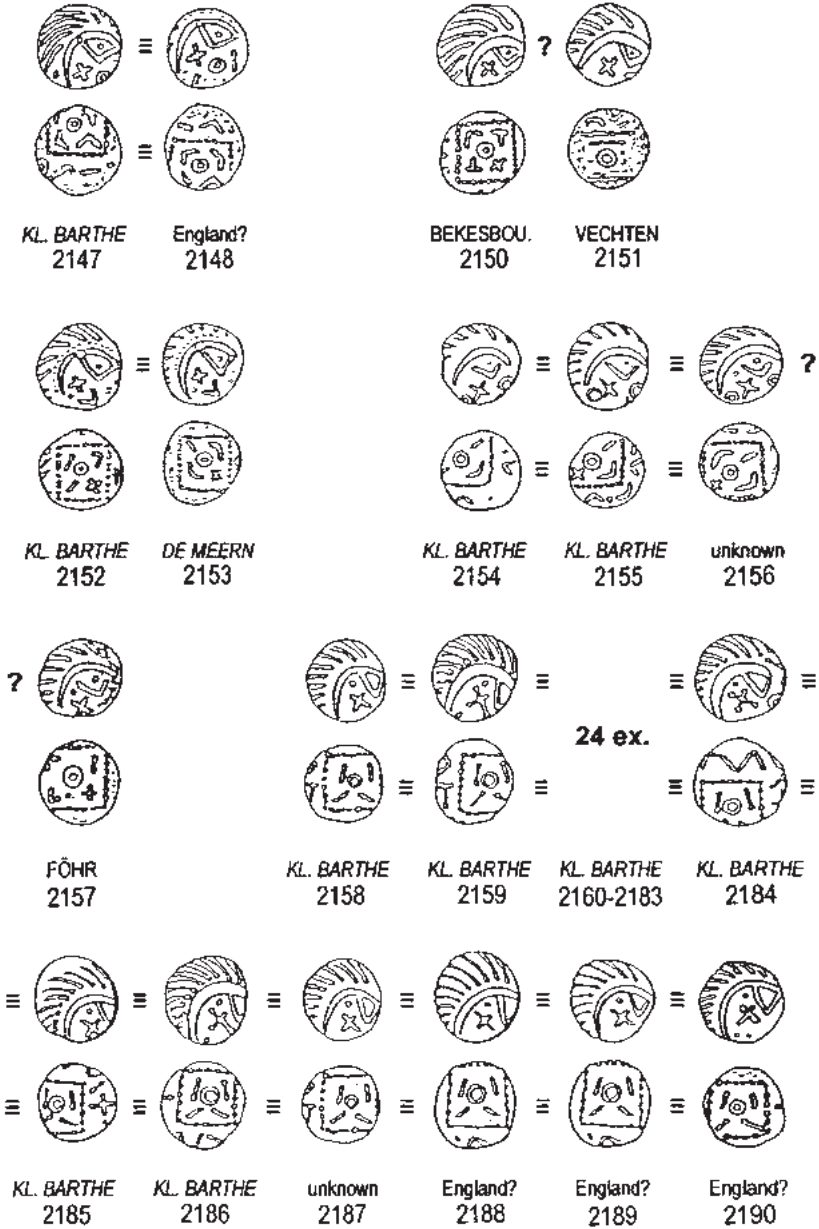


Plate 66. Die-linked coins of sub-variety h

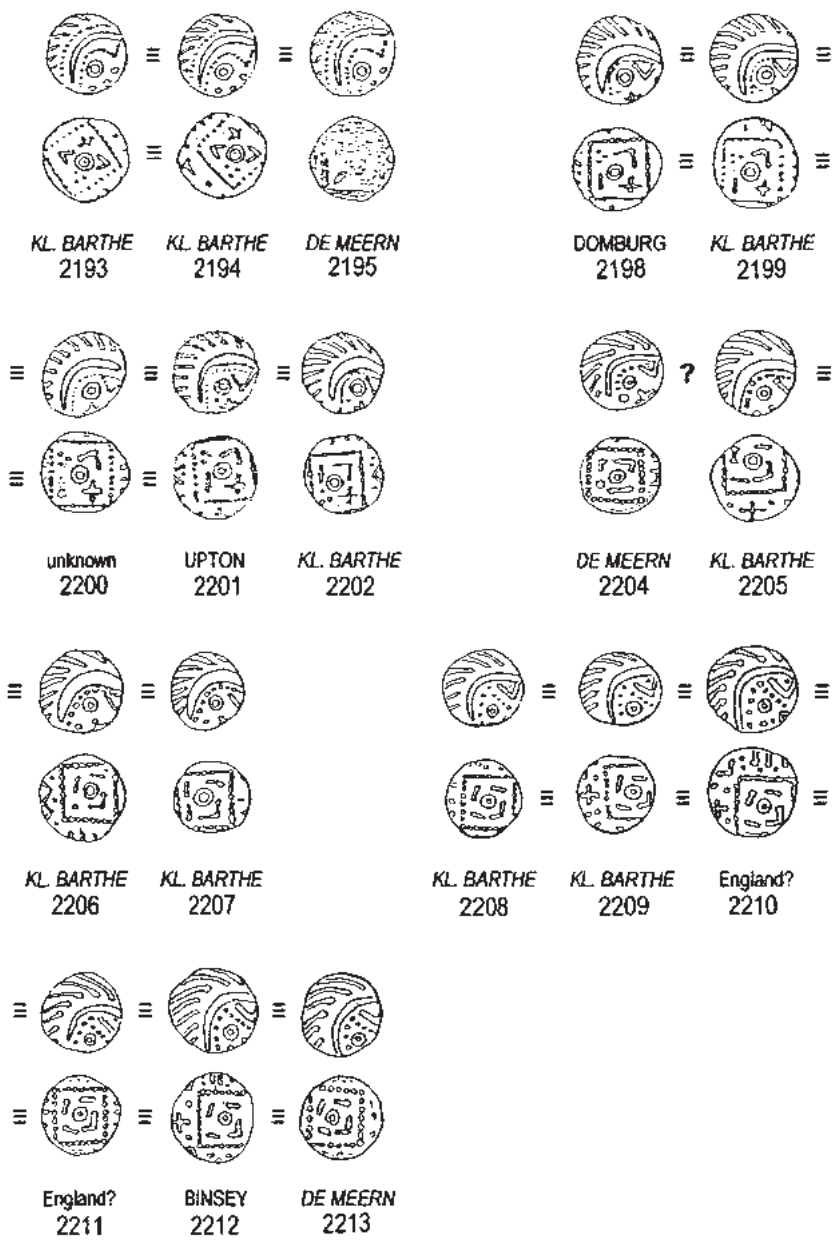


Plate 67. Die-linked coins of sub-variety h and i

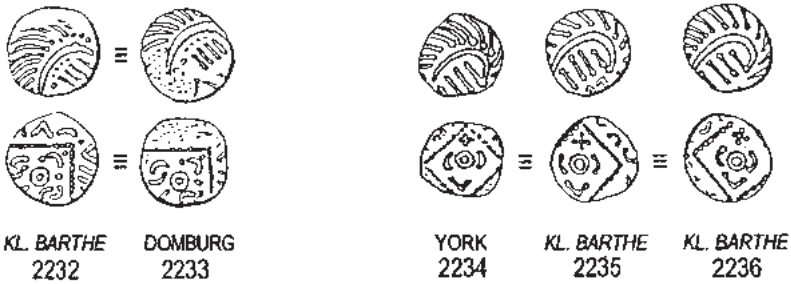
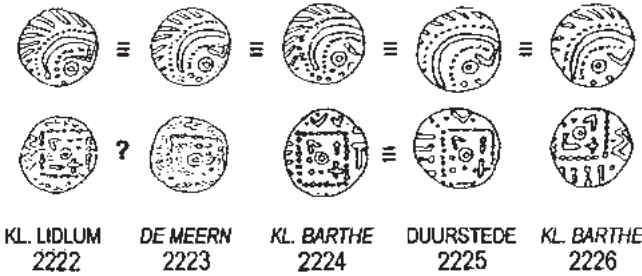
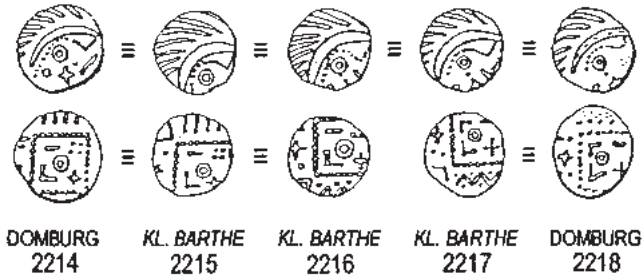


Plate 68. Die-linked coins of sub-variety i

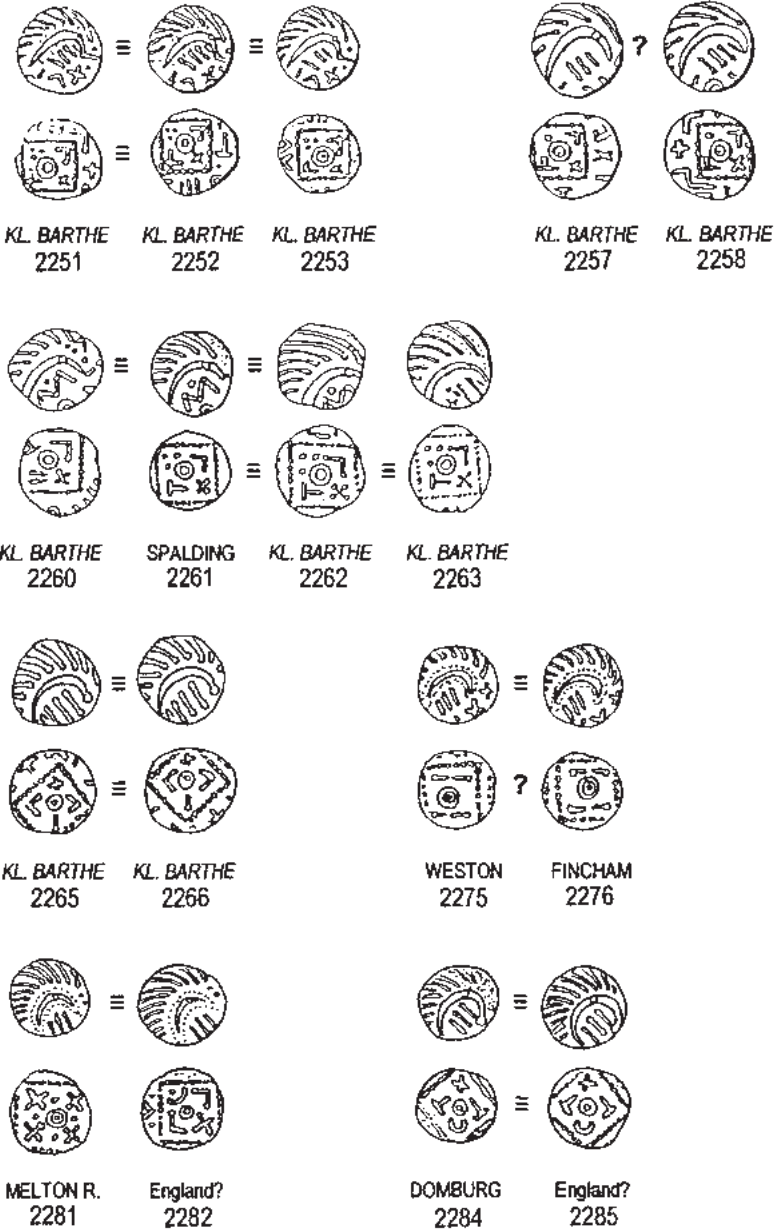


Plate 69. Die-linked coins of sub-variety k

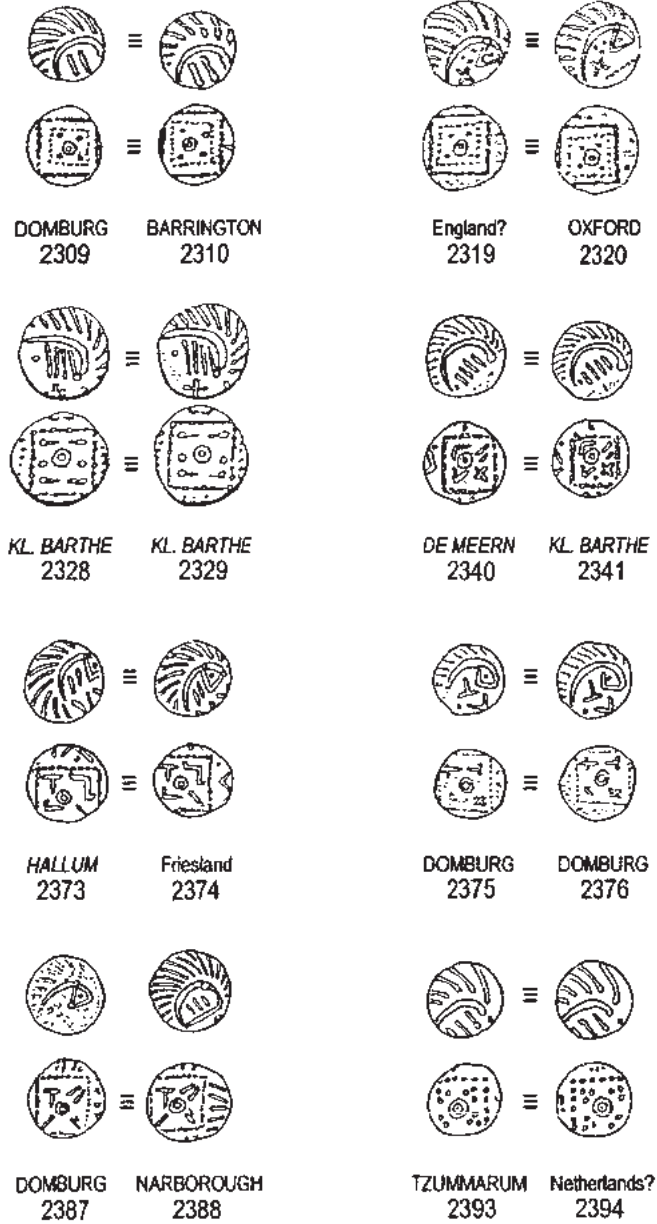


Plate 70. Die-linked coins of sub-variety k

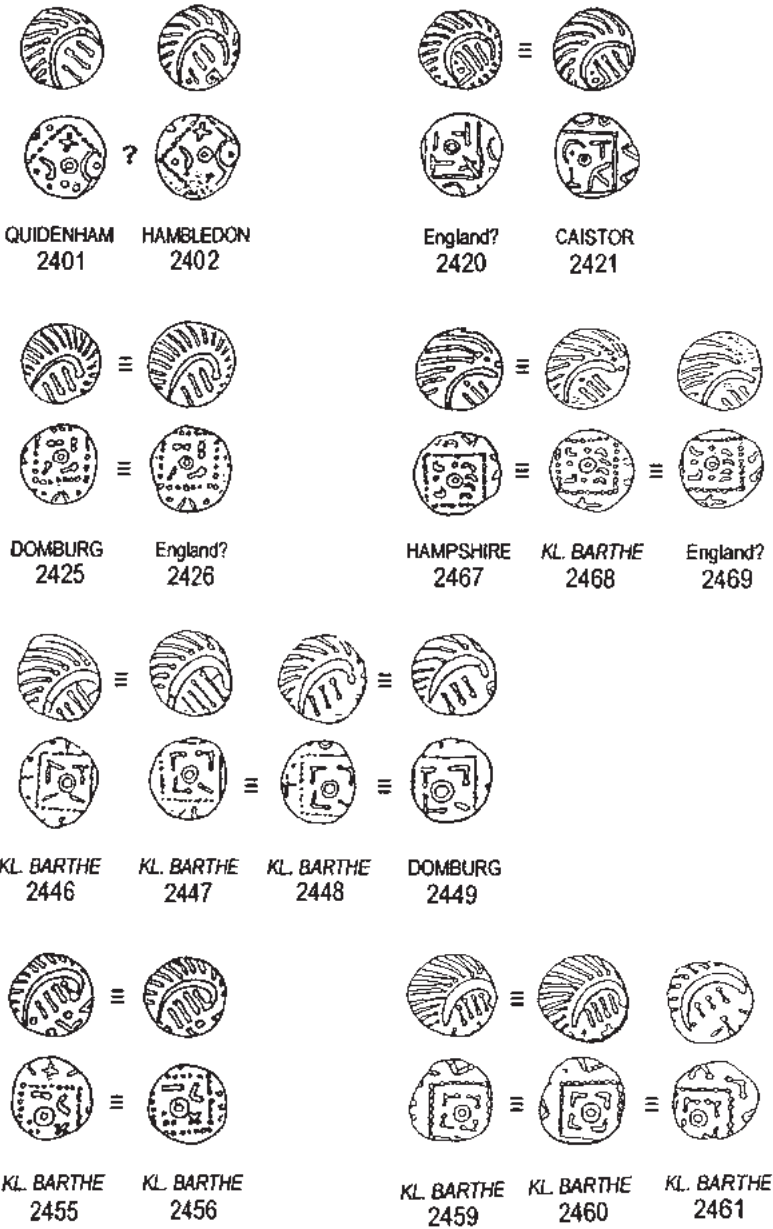


Plate 71. Die-linked coins of sub-variety k

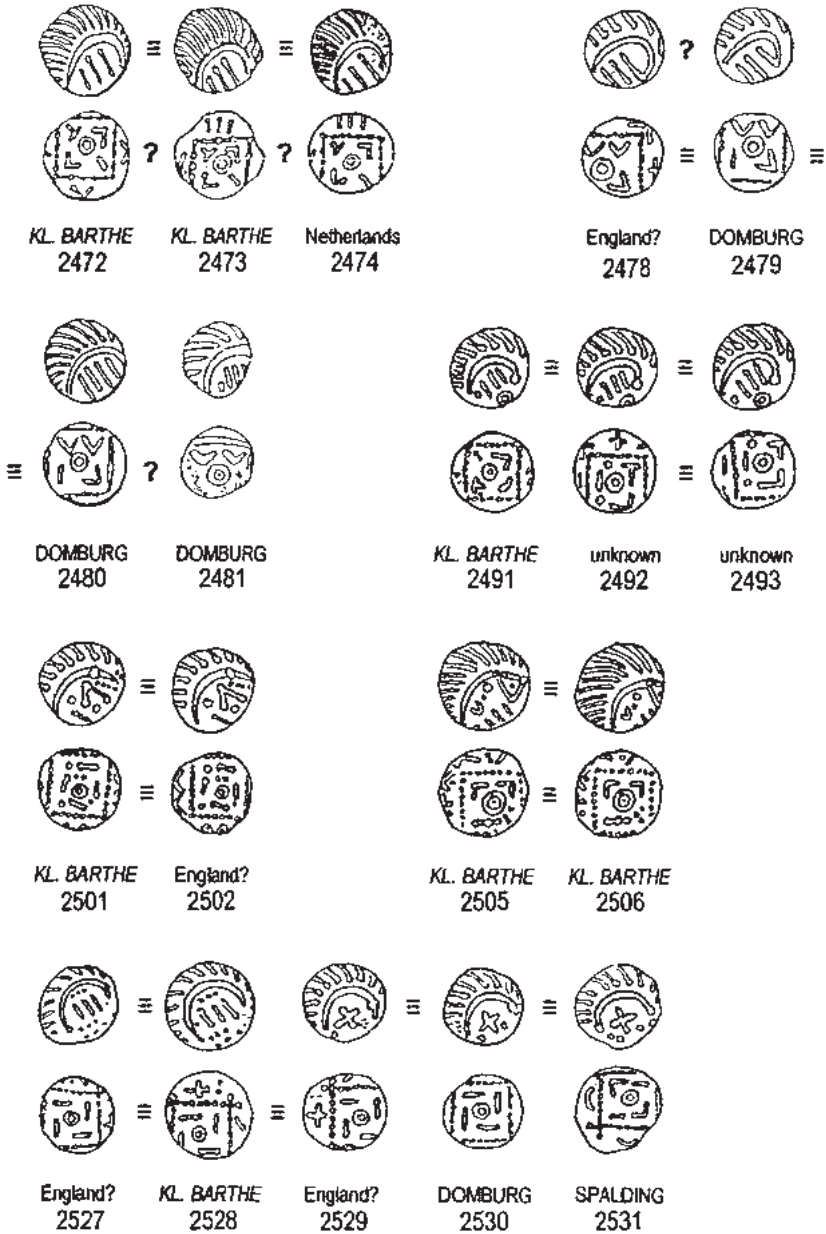


Plate 72. Die-linked coins of sub-variety k

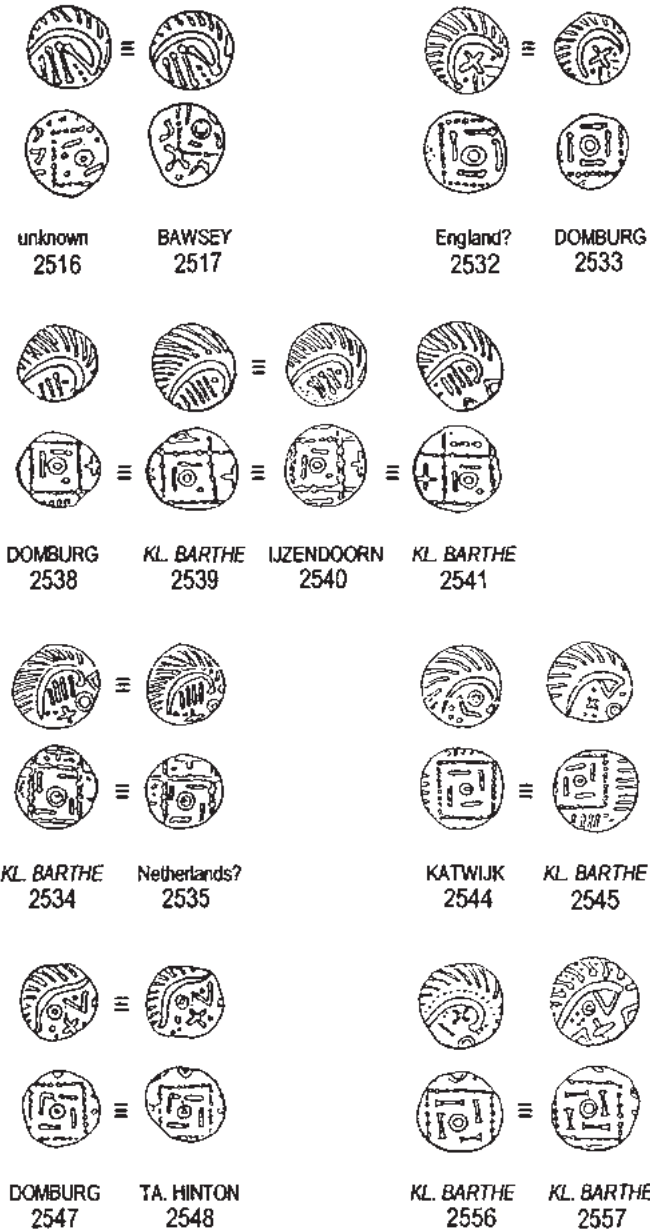


Plate 73. Die-linked coins of sub-variety k

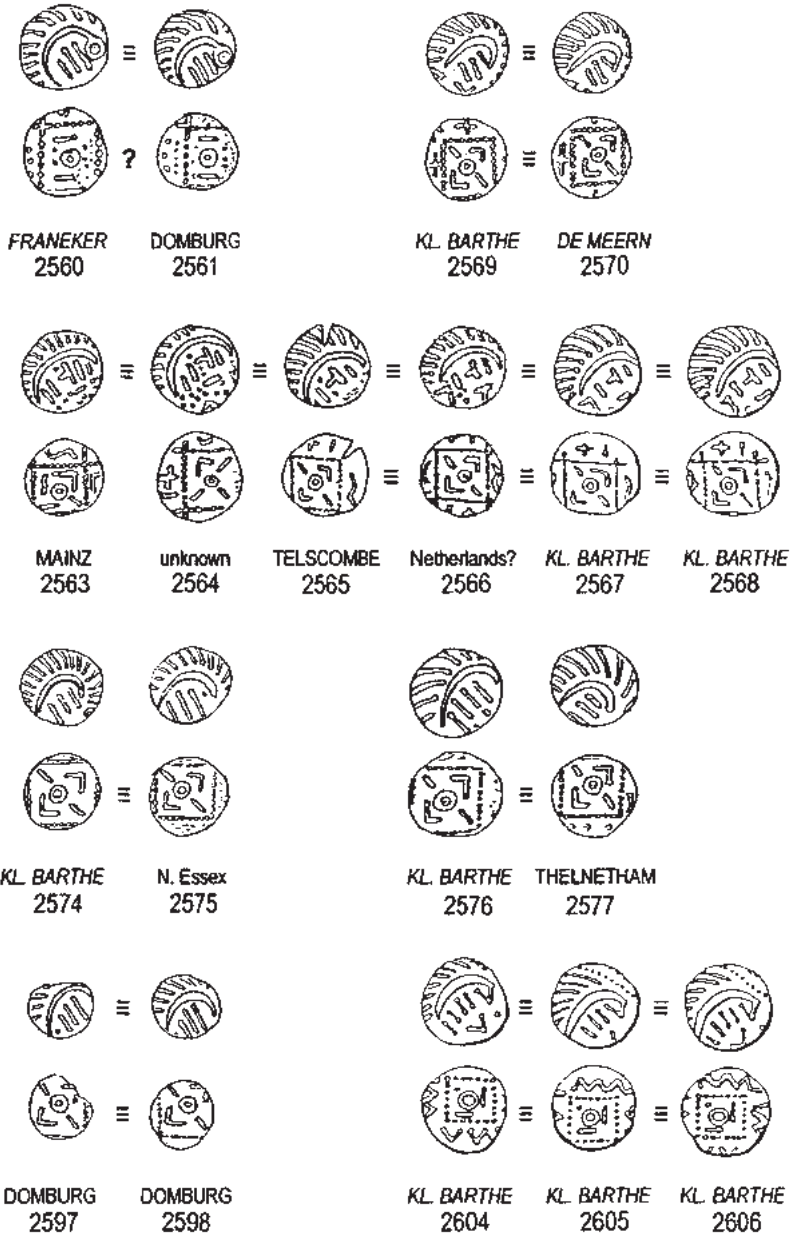


Plate 74. Die-linked coins of sub-variety k

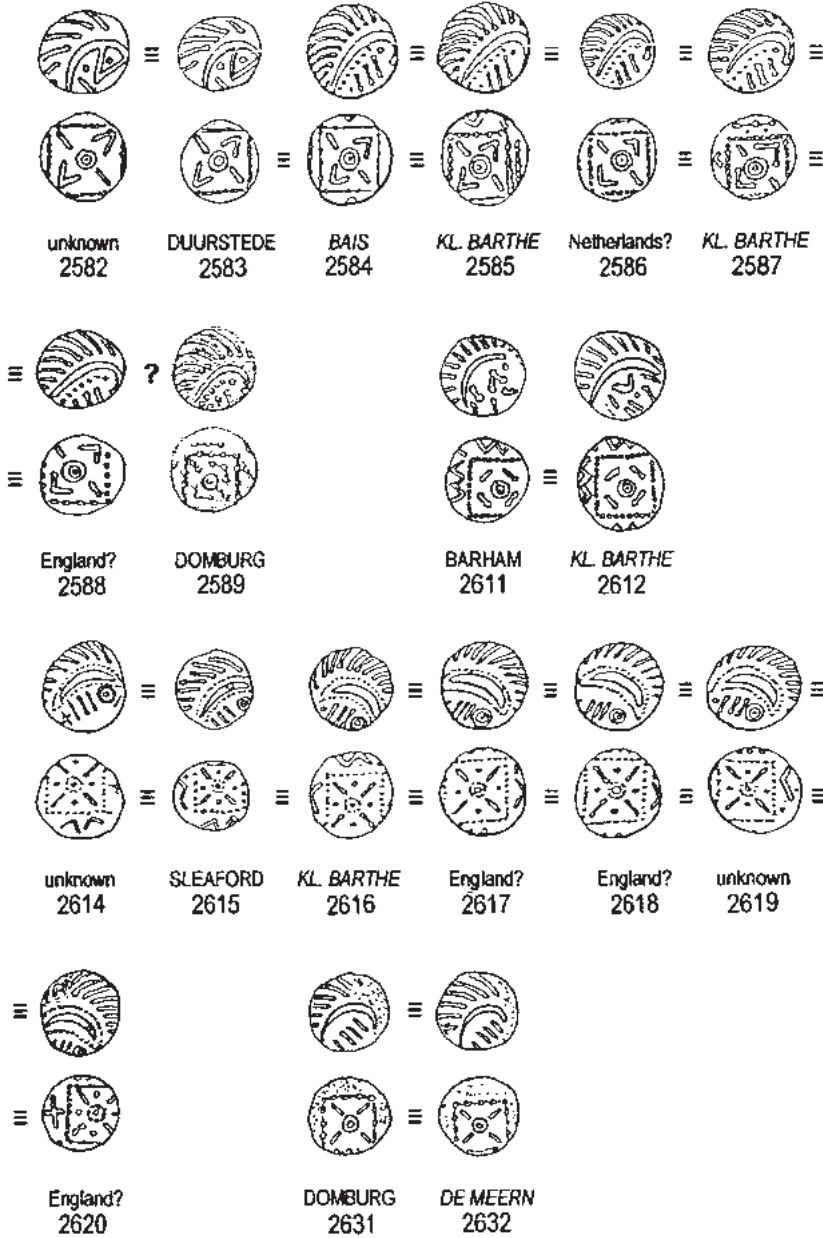


Plate 75. Die-linked coins of sub-variety k

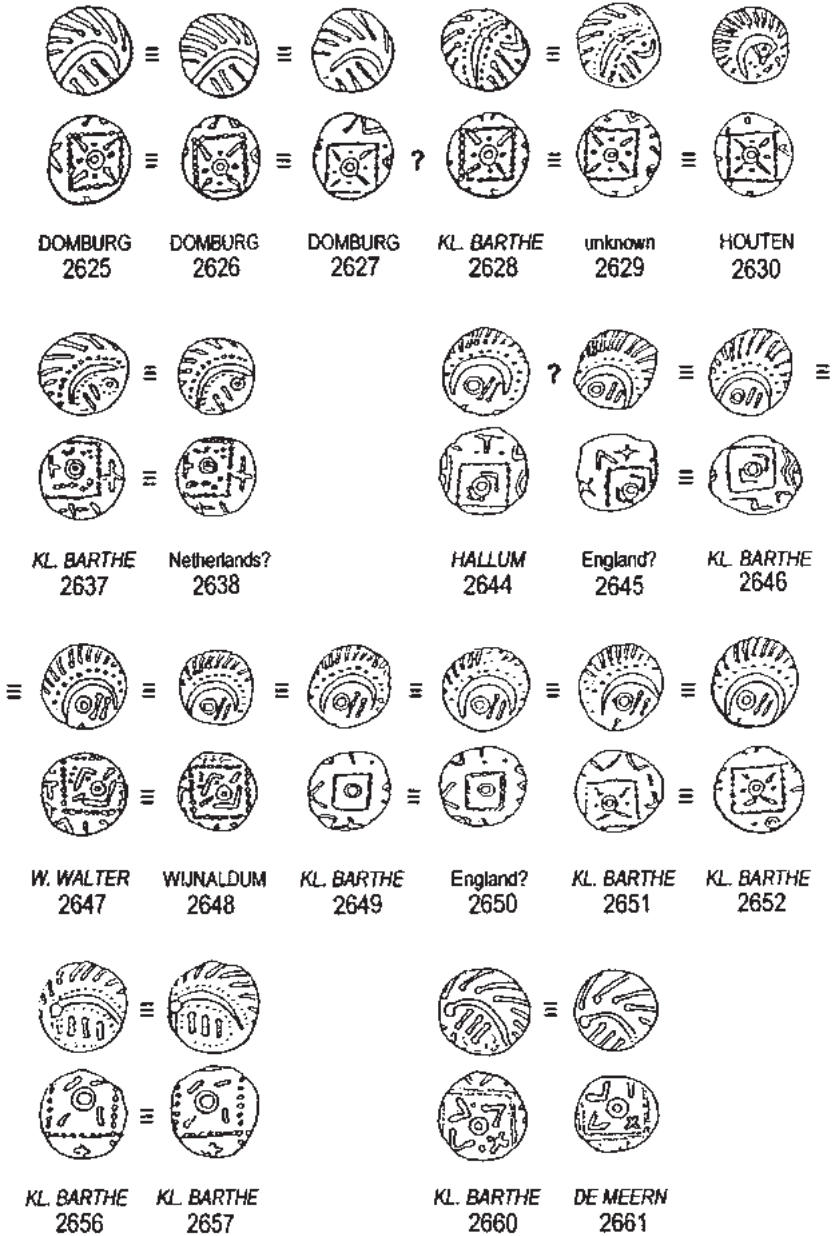


Plate 76. Die-linked coins of sub-variety k and Variety E

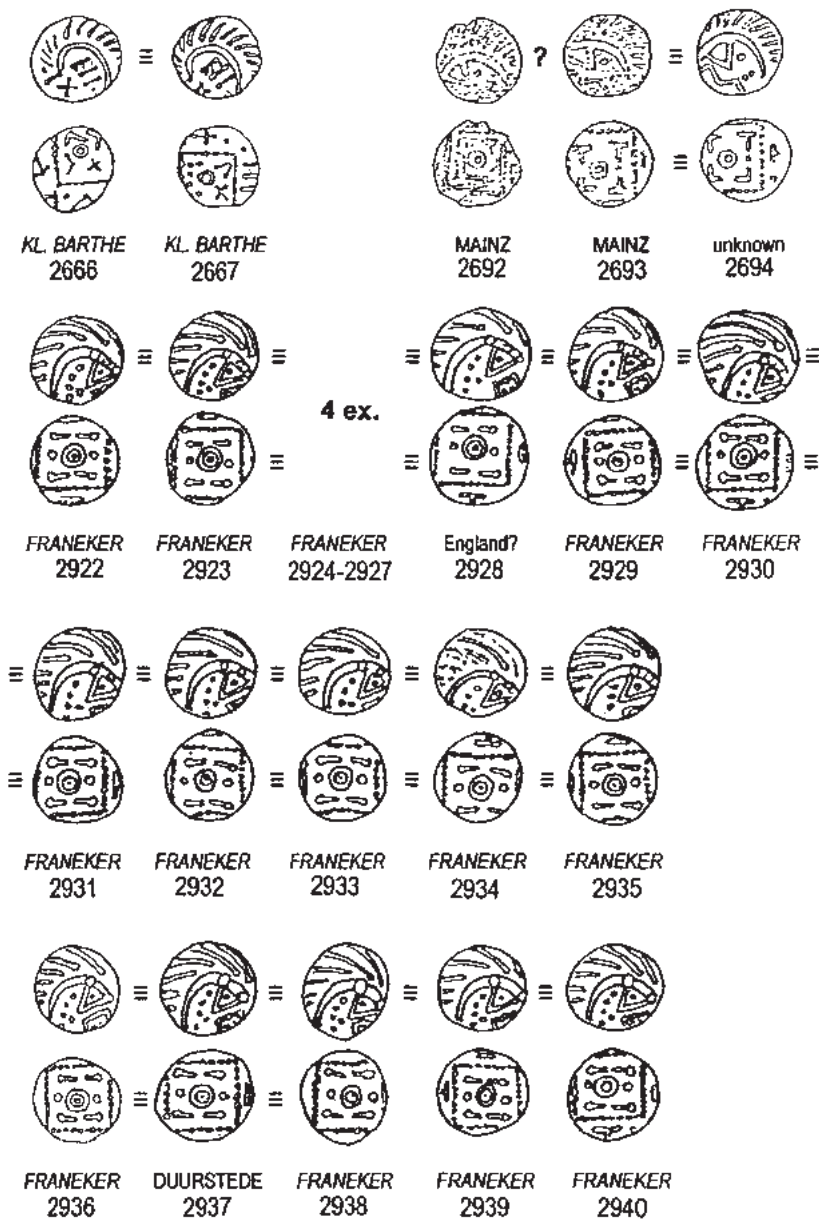


Plate 77. Die-linked coins of Variety E

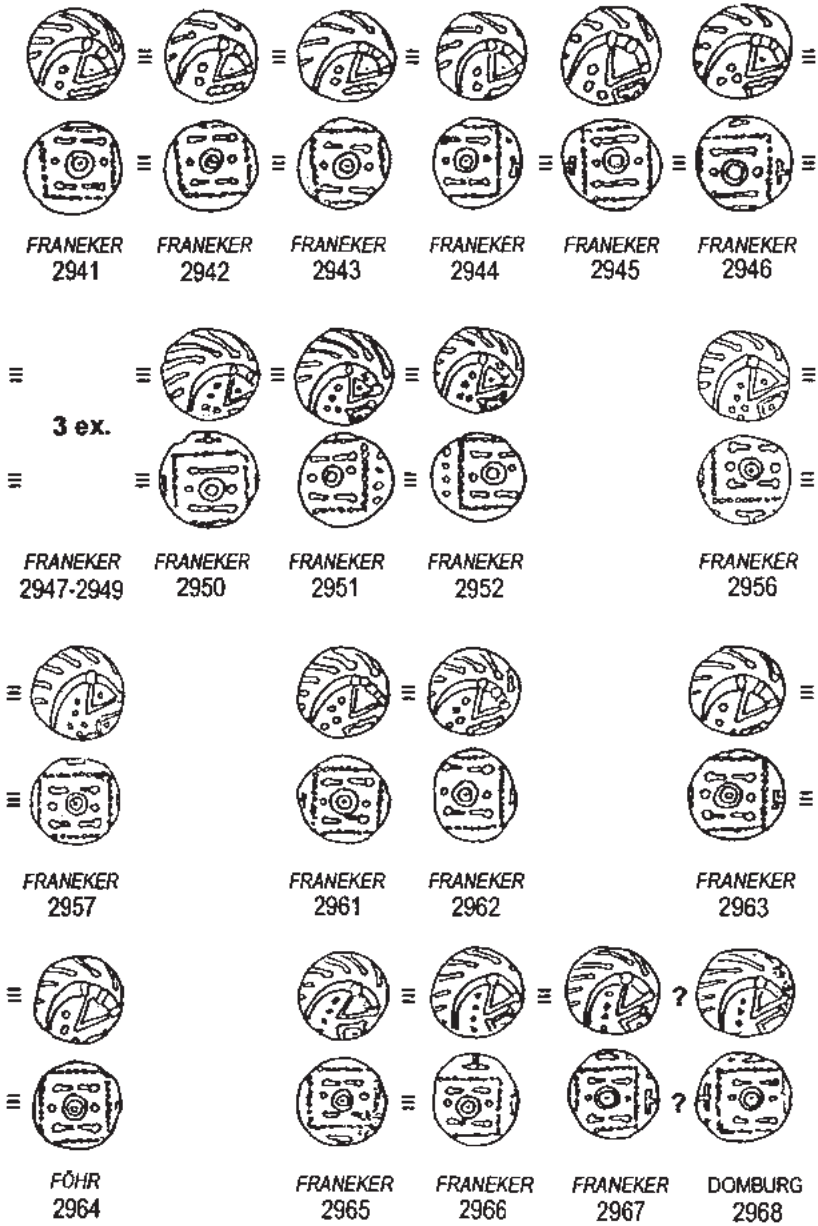
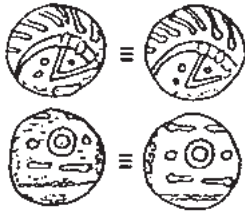
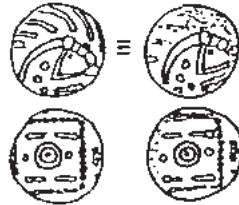


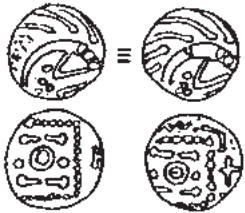
Plate 78. Die-linked coins of Variety E



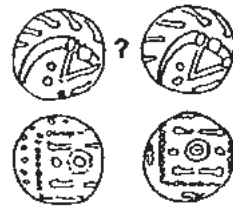
SEXBIERUM 2973 DUURSTEDE 2974



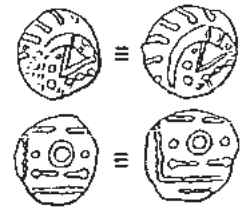
FRANEKER 2976 FRANEKER 2977



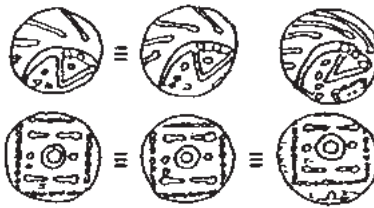
Friesland 2982 FÖHR 2983



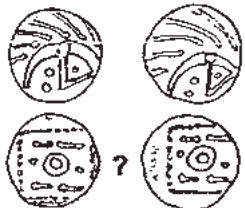
DUURSTEDE 2984 FRANEKER 2985



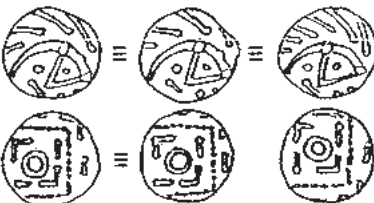
DOMBURG 2993 DOMBURG 2994



SLAPPETERP 3000 FÖHR 3001 FÖHR 3002



FRANEKER 3010 FRANEKER 3011



FRANEKER 3012 FRANEKER 3013 FRANEKER 3014

Plate 79. Die-linked coins of Variety E

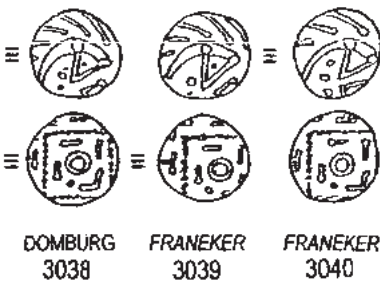
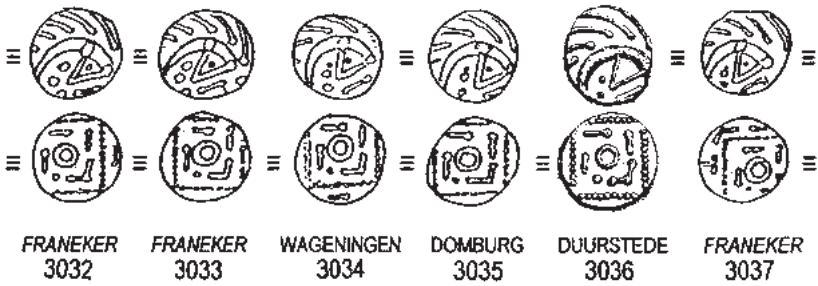
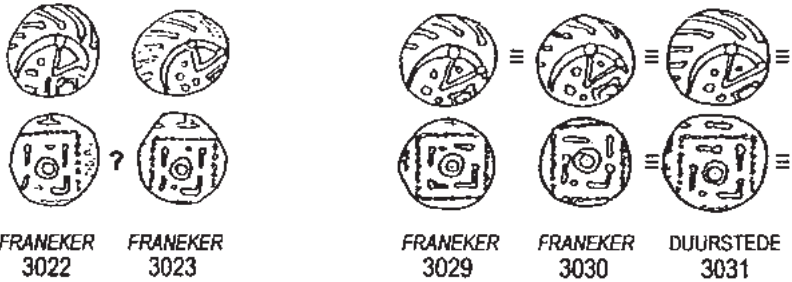
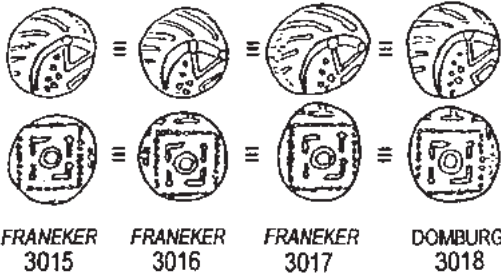
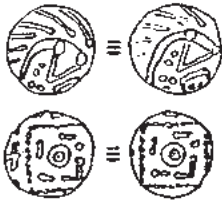
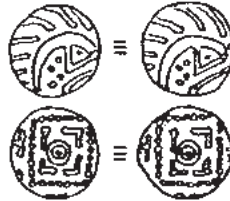


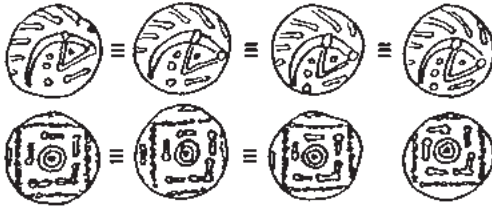
Plate 80. Die-linked coins of Variety E



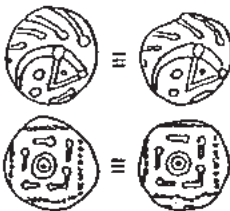
FRANEKER 3042 FRANEKER 3043



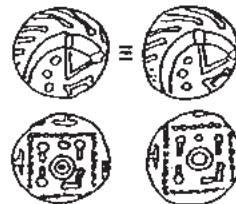
FRANEKER 3044 DOMBURG 3045



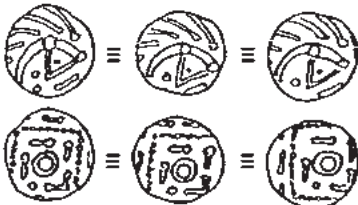
DOMBURG 3050 FÖHR 3051 FRANEKER 3052 FRANEKER 3053



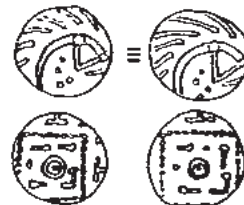
FRANEKER 3054 DOMBURG 3055



FRANEKER 3056 FRANEKER 3057



FRANEKER 3060 FRANEKER 3061 FRANEKER 3062



FRANEKER 3063 FRANEKER 3064

Plate 81. Die-linked coins of Variety E

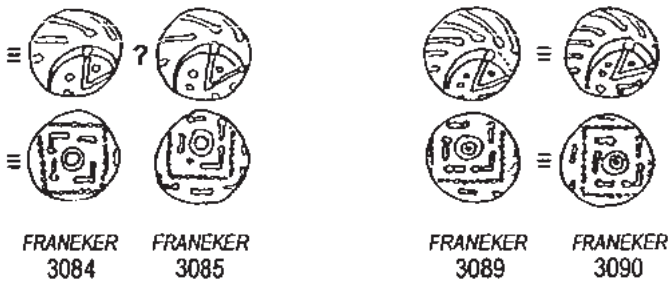
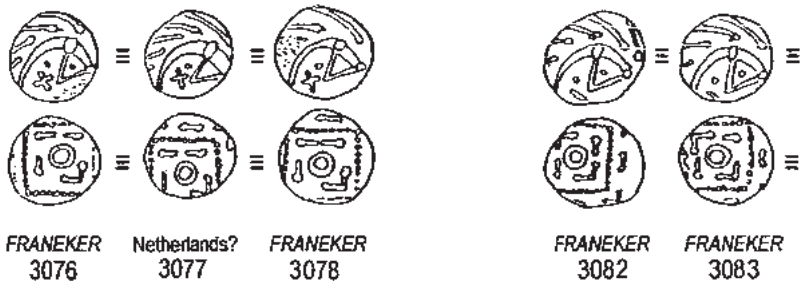
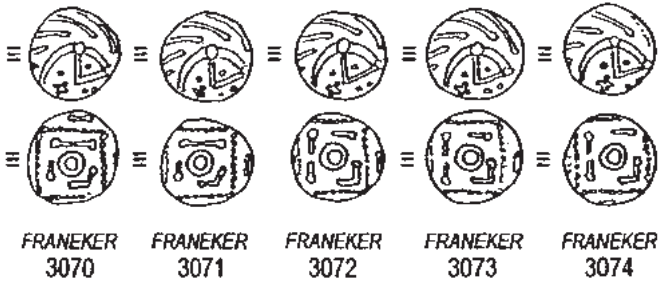


Plate 82. Die-linked coins of Variety E and AF

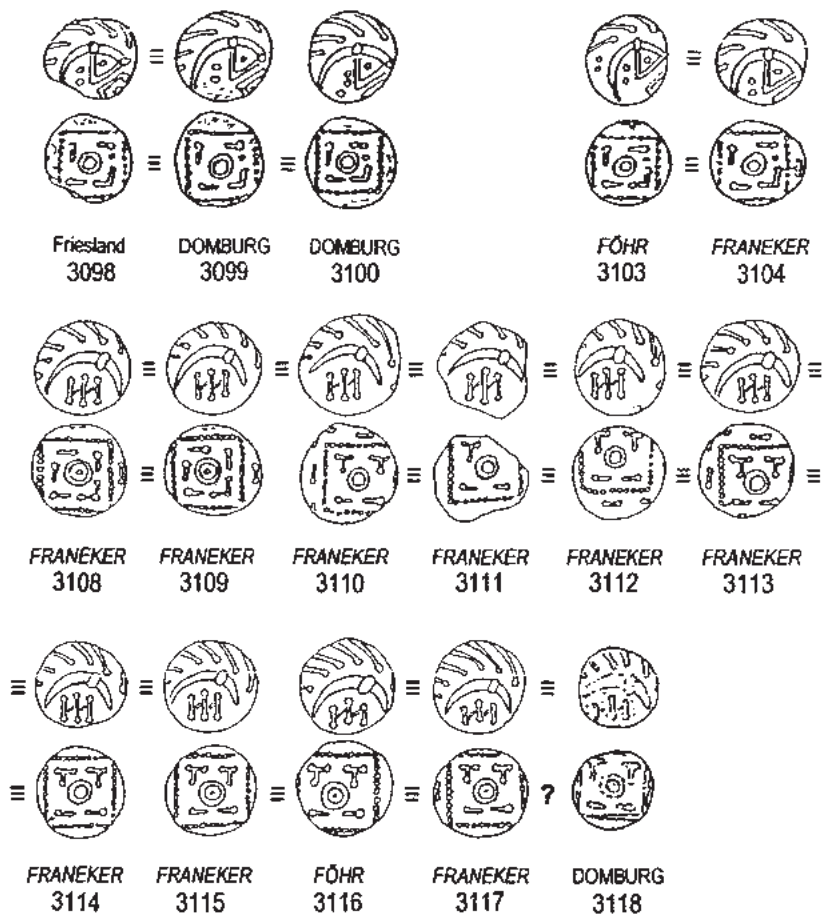


Plate 83. Die-linked coins of Variety B

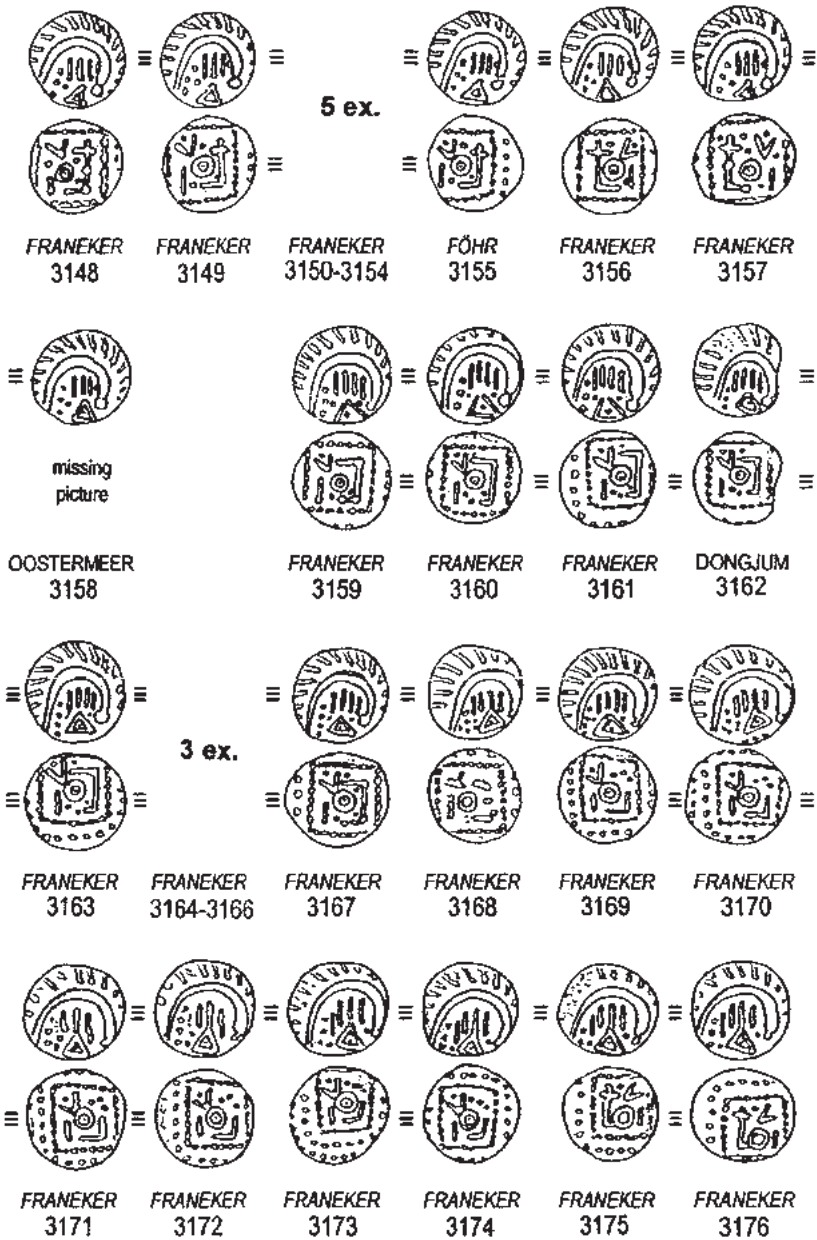


Plate 84. Die-linked coins of Variety B

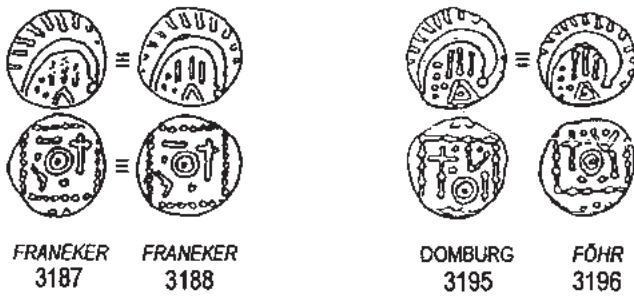
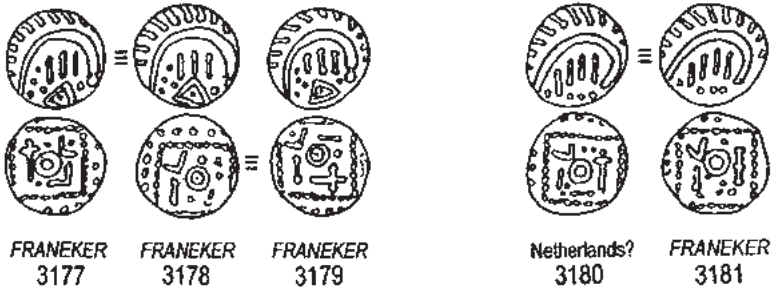


Plate 85. Die-linked coins of Variety B and F

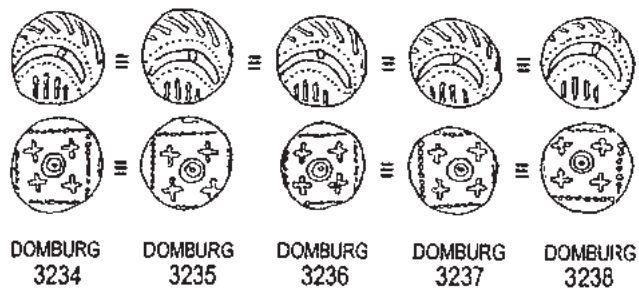
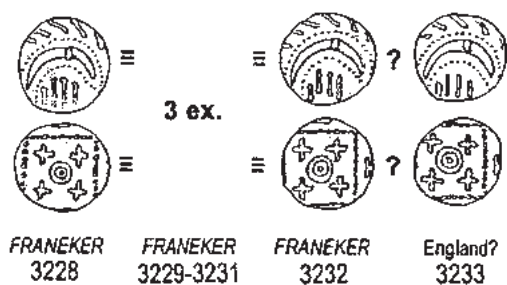
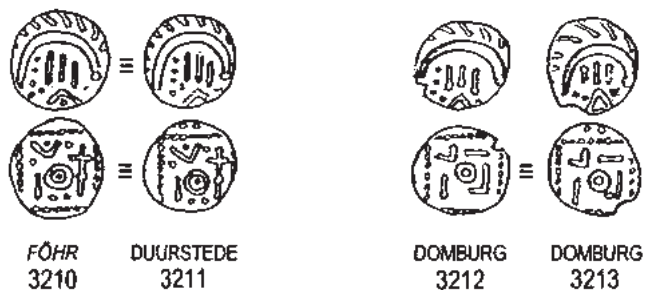
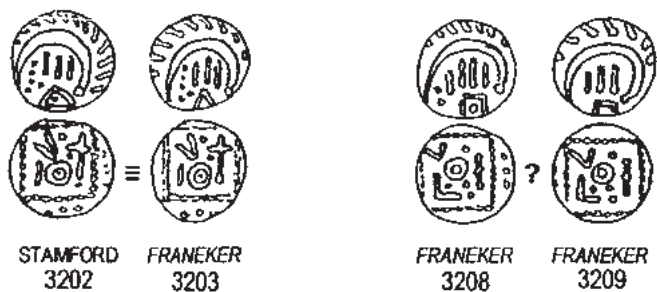


Plate 86. Die-linked coins of Variety F

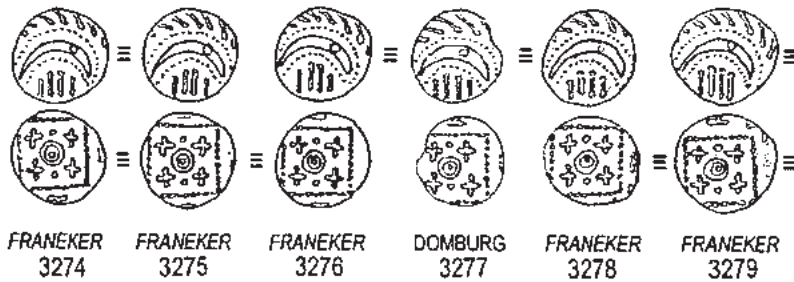
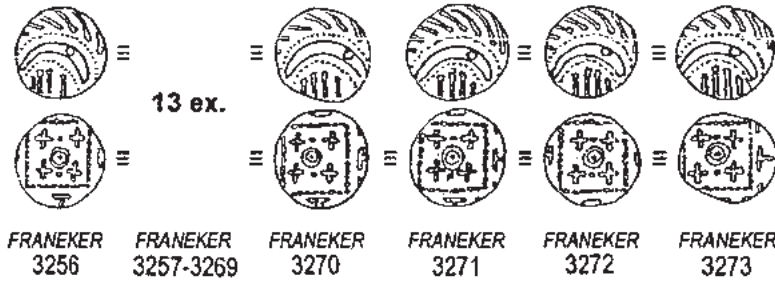
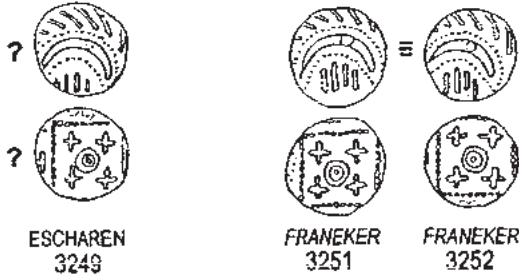
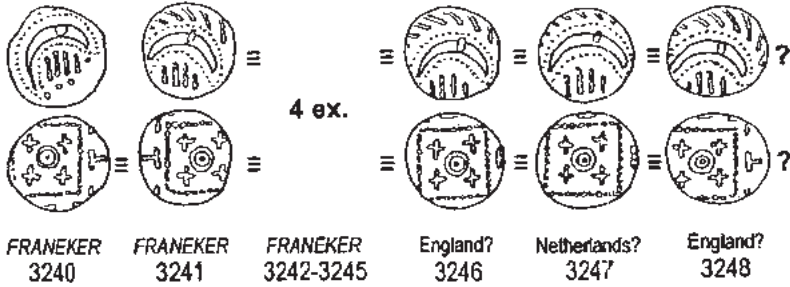


Plate 87. Die-linked coins of Variety F

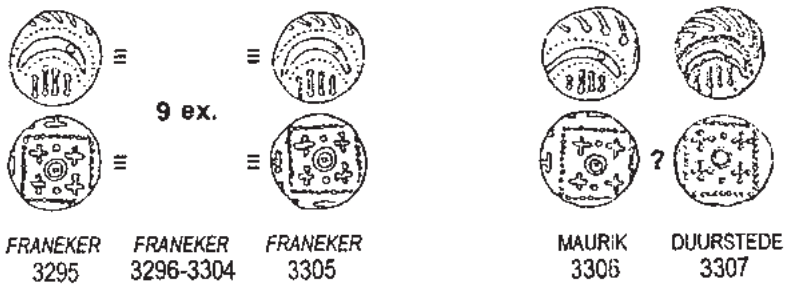
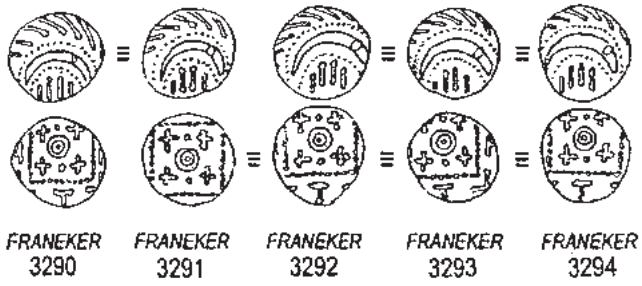
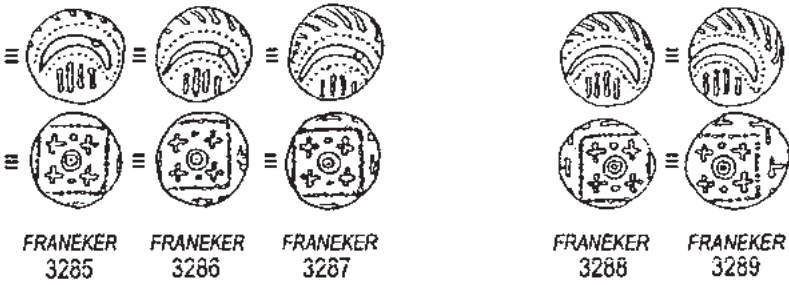
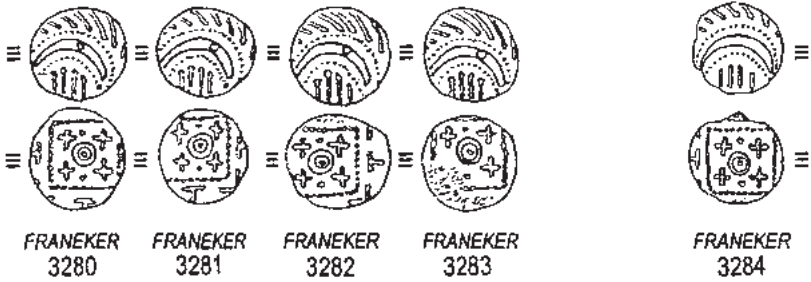
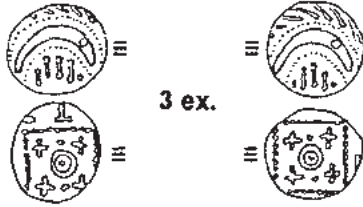


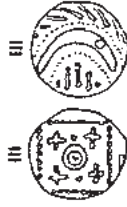
Plate 88. Die-linked coins of Variety F



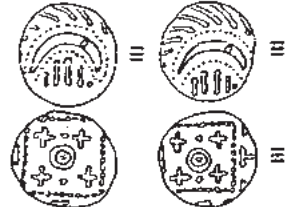
FRANEKER
3308

3 ex.

FRANEKER
3309-3311

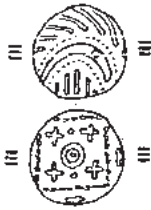


FRANEKER
3312



FRANEKER
3313

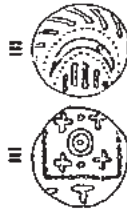
FRANEKER
3314



FRANEKER
3315

7 ex.

FRANEKER
3316-3322



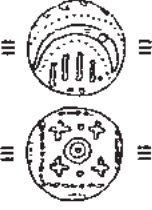
FRANEKER
3323



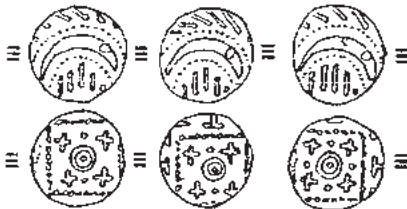
FRANEKER
3324



FRANEKER
3325



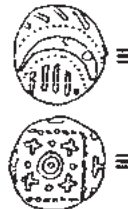
FRANEKER
3326



FRANEKER
3327



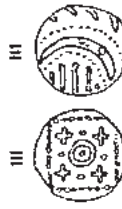
FRANEKER
3328



FRANEKER
3329

18 ex.

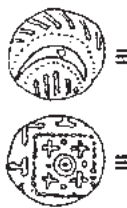
FRANEKER
3330-3347



FRANEKER
3348



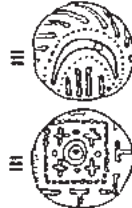
FRANEKER
3349



FRANEKER
3350

15 ex.

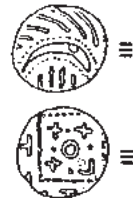
FRANEKER
3351-3364



FRANEKER
3365



FRANEKER
3267



FRANEKER
3268

Plate 89. Die-linked coins of Variety F

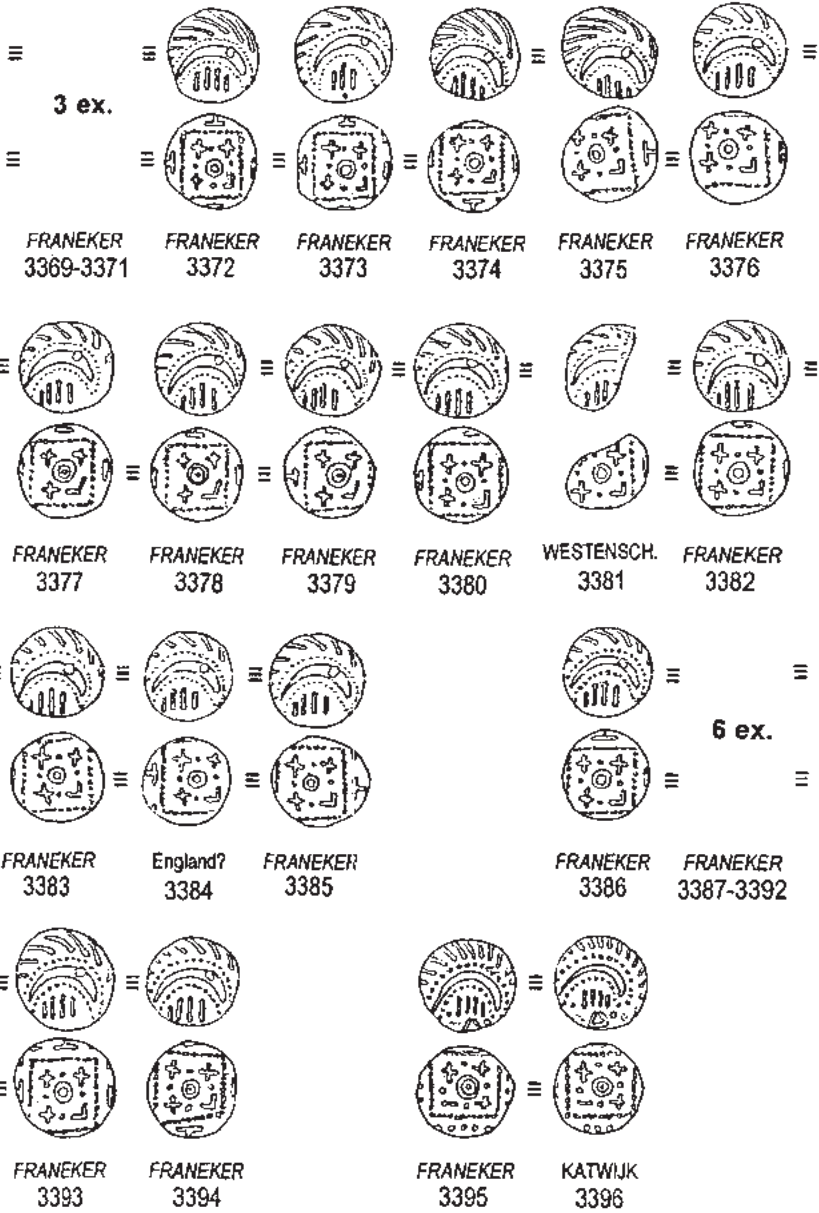
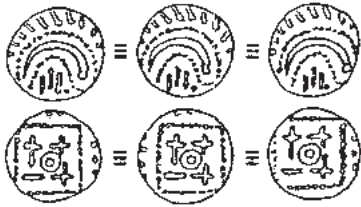
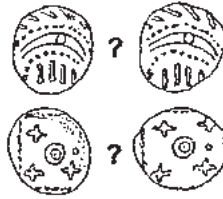


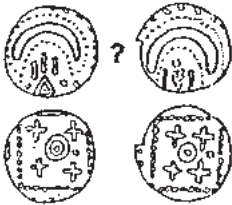
Plate 90. Die-linked coins of Variety F



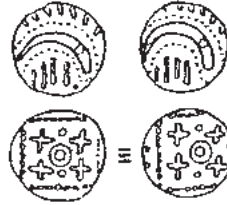
FRANEKER 3397 FRANEKER 3398 FRANEKER 3399



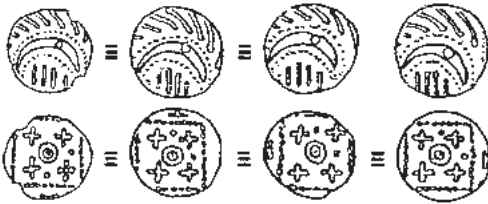
DOMBURG 3401 WESTENSCH. 3402



HOUTEN 3403 unknown 3404



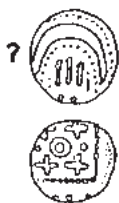
DUURSTEDE 3405 DUURSTEDE 3406



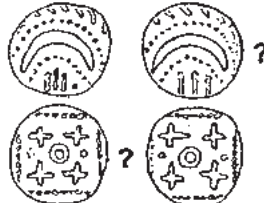
FRANEKER 3407 WAGENINGEN 3408 DOMBURG 3409 SPALDING 3410



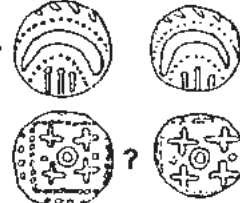
OOSTERBIE. 3411



KATWIJK 3412



WESTENSCH. 3414 BIDFORD 3415



England? 3416 DUURSTEDE 3417

Plate 91. Die-linked coins of VERNVS variety

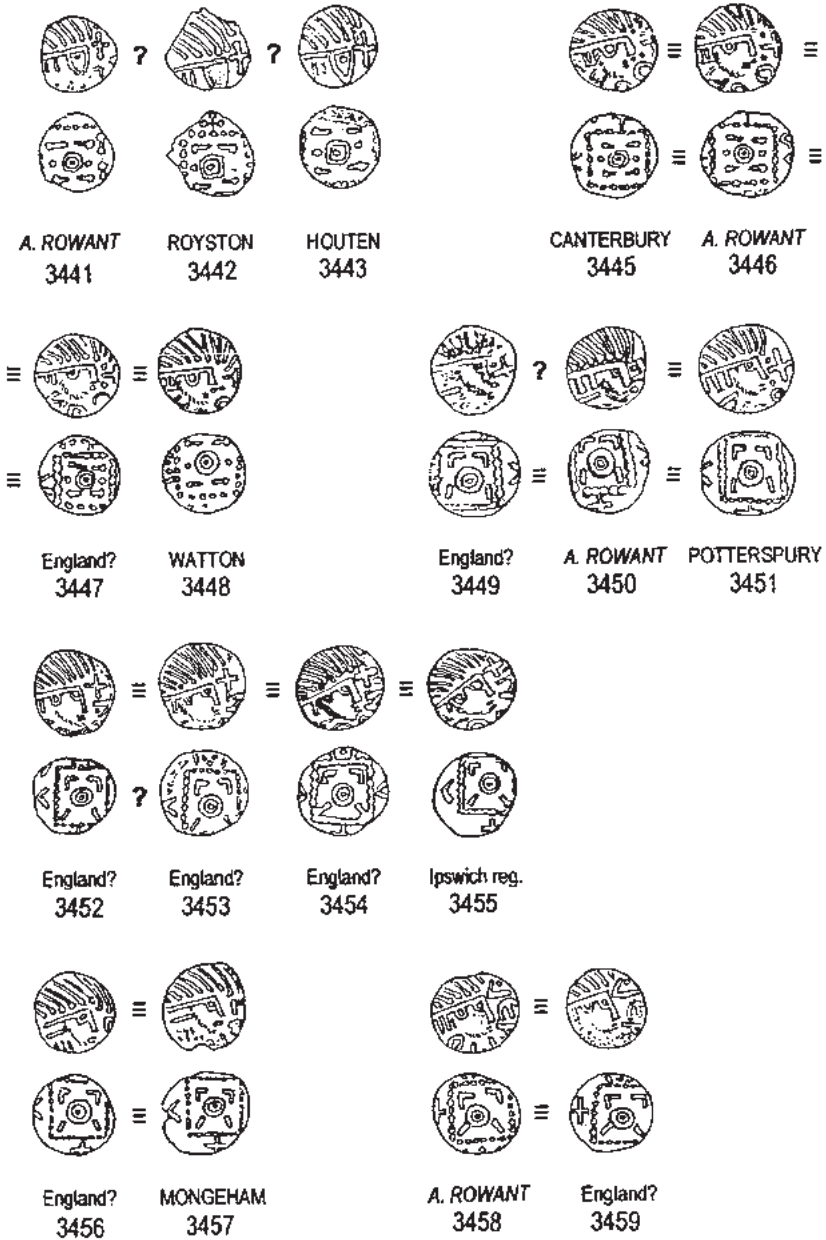
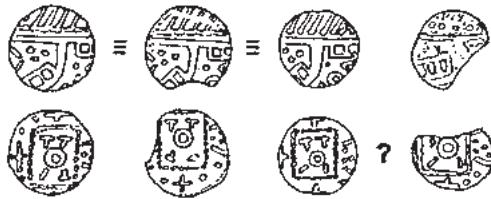


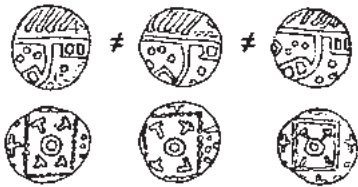
Plate 93. Die-linked coins of VERNVS variety



SWINESHEAD 3477 England? 3478 England? 3479

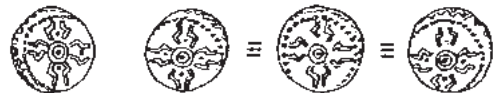
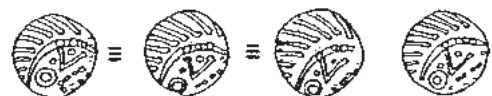


DOVER 3480 BARHAM 3481 FRECKENHAM 3482 SPRINGFIELD 3483

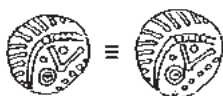


L STRATTON 3458 REMMERDEN 3459 SULLINGTON 3460

Plate 94. Die-linked coins of the stepped cross variety



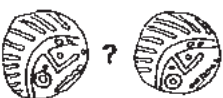
RECVLVER 3492 CAISTOR 3493 COTHEN 3494 England? 3495



Yorkshire 3498 N. CIMIEZ 3499



England? 3500 England? 3501 Cambridge 3502



W. FIRLE 3503 WITTERING 3504



England? 3506 SLEDMERE 3507 CODDENHAM 3508



DORCHESTER 3509



SOUTHAMP. 3512



HAVERSHAM 3513



THETFORD 3514



France? 3515

Plate 95. Die-linked coins of the stepped cross variety

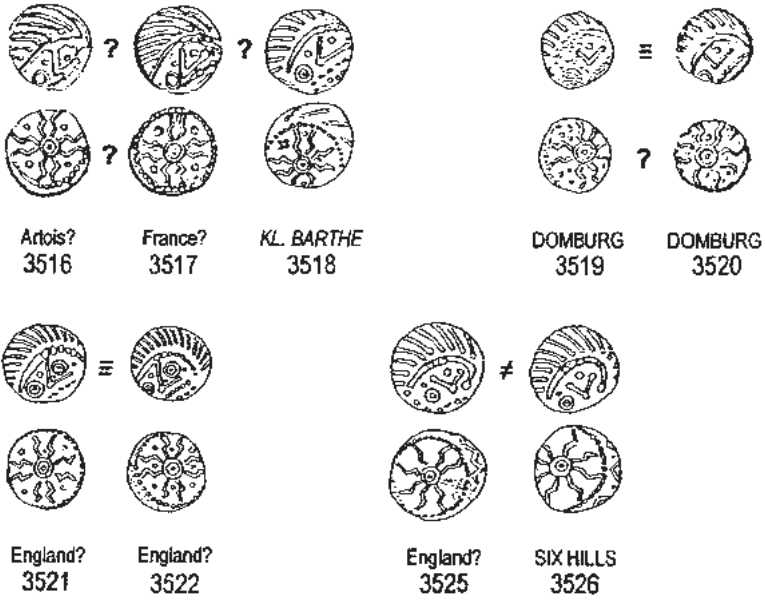


Plate 96. Die-linked coins of the *ÆTHILIRÆD* variety

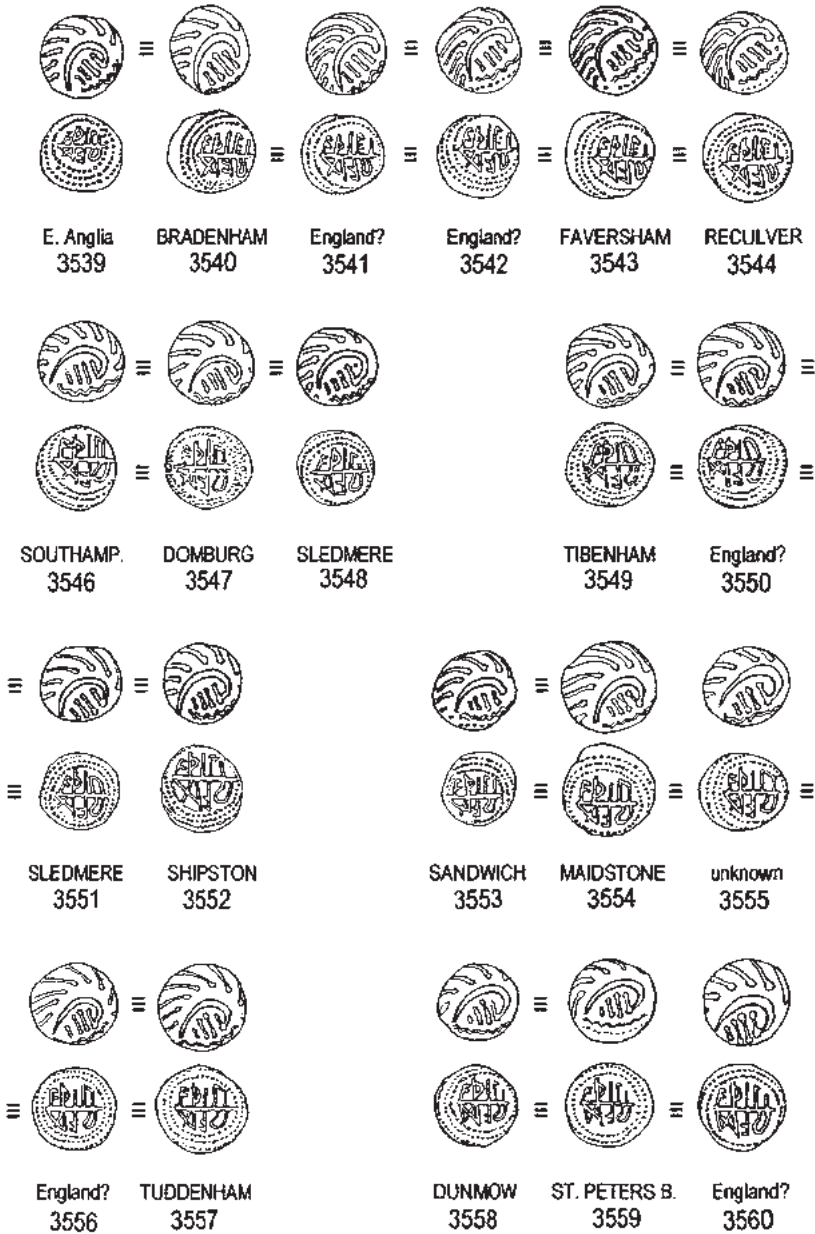


Plate 97. Die-linked coins of the *ÆTHILIRÆD* variety

