ABSTRACT: This, Part III:2C of the publication of Bronze Age metal and amber finds in the Netherlands, is the third part of a catalogue and evaluation of the bronze socketed axes in the Netherlands. Here are classified, listed and mapped 45 complete socketed axes, 20 fragments, and one half of a bronze casting mould. Catalogued are several varieties of faceted socketed axes; socketed axes of Type Sompting and related types; South-East European socketed axes; and specimens of rare types. Attention is given to questions of importation and regional production.

KEYWORDS: the Netherlands, Late Bronze Age, Early Iron Age, socketed axe types, faceted socketed axes, Type Meldreth, Type Sompting, South-eastern (British) socketed axes, South-East European types, imports, regional production, distributions.

1. INTRODUCTION

Previous articles in the series ‘Bronze Age metal and amber in the Netherlands’ have appeared in *Palaeohistoria* 32, 37/38, 39/40, 41/42, 43/44 and 45/46. The last part of the series to appear (Part III:2B) began the catalogue of the bronze socketed axes, with emphasis on types current especially in the North-East of the Netherlands and neighbouring areas. This part (III:2C), adding 45 complete socketed axes, 20 fragments, and one half of a bronze casting mould, completes the socketed axe catalogue, dealing especially with ‘faceted’ socketed axes (with half a dozen variants), socketed axes of type Sompting, socketed axes of South-East European types, and, in addition, several types poorly represented in the Netherlands by only one or a few examples.

For the purposes of this paper we consider the North of the Netherlands to comprise the modern provinces of Flevoland, Groningen, Friesland, and Drenthe, and the north-east corner of the province Overijssel. To the middle-east of the country we reckon the provinces of Utrecht, Gelderland and most of Overijssel. The west of the country comprises Noord-Holland, Zuid-Holland and Zeeland; and the south the provinces of Noord-Brabant and Limburg (Map 18).

In general, the northern and western coastal parts of the Netherlands are extremely poor in socketed axes (*cf.* Butler & Steegstra, 2003/2004: p. 199, Map 9), as indeed in all other types of bronzes. Van Heeringen (1992: p. 322, table 57) has tabulated the finds of Late Bronze Age bronzes in the coastal area of the Netherlands; he could record only four socketed axes (add one more recent find), plus eight spear-heads, one socketed knife, one pin, one bronze sickle, one straight pin, one fibula. In part, this meager find list may be due to the loss of artefacts through geological factors such as dune and bog formation, erosion and marine transgressions. But the difference in find density between the two sections of the country is dramatic. Since there is evidence from excavations in both Noord-Holland (*e.g.* IJzereef, 1981) and Zuid-Holland (*e.g.* Van Heeringen, 1992) for occupation by agriculturalists in the Bronze Age, the causes of the scarcity of the bronzes in these areas surely require further investigation.

2. NOTES TO THE CATALOGUE

Besides the catalogue number heading the entry for each object, we cite in brackets a DB number, which identifies the object in our computer database. This will prove to be a convenience for cross-referencing.

The following ABC will explain the code as it is here employed. In Part II:1; II:2, III:1 and III:2A–B we have already used AXF for flat axe, AXI for low-flanged axe, AXR for high-flanged axe, AXS for stop-ridge axe, AXP for palstave, AXW for winged axe and L for looped, BM for bronze mould. AXT signifies a socketed axe with loop, AXTU a socketed axe without loop.

Further descriptive features or subdivisions are indicated by letters or punctuation characters added on the right: Fac = faceted; Lin = linear; Grv = groove; Ang = angles; ) ( = biconcave; ( ) = convex.

Geographical expressions here abbreviated with lower-case letters with reference to socketed axe types
are as follows: mel = Type Meldreth; somp = Type Sompting.

Abbreviations for museums and organisations: BAI = Biologisch-Archeologisch Instituut (now Groningen Institute of Archaeology); RMO = Rijksmuseum van Oudheden; ROB = Rijksdienst voor het Oudheidkundig Bodemonderzoek.

References to literature frequently include the term *Verslag* or *Jaarverslag*. This refers to the Annual Report of the museum concerned. For other literature citations see section 8 below.

A catalogue number preceded by Ki indicates a reference to the catalogue of Kibbert (1984).

3. FACETED, LINEAR-FACETED, ANGLE-FACETED AND RELATED SOCKETED AXES IN THE NETHERLANDS

Some 20 socketed axes with a polygonal body cross-section related to the British-Irish “faceted socketed axe” family are known in the Netherlands. This includes the few with unknown provenance (Cat.Nos 774, 777), vaguely known provenance (Cat.No. 778) or a suspect dealer’s provenance (Cat.No. 780).

The Netherlands examples are far from homogeneous. They are divisible into several categories: Cat. No. 772: the Havelte mould; 773: a related axe from Ane; 774–777: Meldreth-related; 778–779: Meldreth-related but with broader body; 780–781: linear-faceted; 782–783: Meldreth-related but unlooped; 784–786, faceted with grooved face; and 787–792: angle-faceted.

Since the number of socketed axes in these categories in the Netherlands is small, and the related material elsewhere is highly scattered, very heterogeneous, and in large measure unillustrated, we confine ourselves here to the minimum necessary search for parallels, in the hope that a fuller treatment in a broader context will some day be possible.

Literature concerning faceted and related socketed axes includes discussions or material contributions by Sprockhoff (1941), Hodges (1956) Butler (1963), Tackenberg (1971), Coombs (in Burgess & Coombs,

3.1. Faceted socketed axes in the Netherlands (AXT: Fac) Figs 107–108

3.1.1. Definition

O’Connor (1980-I): pp. 166–167, II: p. 526, List 127) has classified a number of socketed axes in Northern France, Brittany, Belgium and the Netherlands under the heading “faceted axes”. The only example in this list cited for the Netherlands is not an actual axe, but the half of a two piece bronze casting mould, a stray find (a peat-bog deposit, to judge from its patina and state of preservation) from Havelte, in southern Drenthe (our Cat.No. 772). The mould is not part of the presumably contemporary Late Bronze Age hoard from another site (‘het Lok’) at Havelte, south of the village. The one Belgian find in his list is from Waasmunster, Oost-Vlaanderen (Museum Antwerp, Inv. 2314, ex coll. Hasse; O’Connor, 1980-II, fig. 68:16). Other Continental examples he cites are contained in the West French hoards of Graville-Sainte-Honorine (Seine-Maritime, [O’Connor, 1980: No. 174]); and in the Somme area (subsequently illustrated by Blanchet, 1984: Dreuil [fig. 158], Amiens-St. Roch [fig. 157] and Marler [fig. 161]); O’Connor also cites some examples from Armorican hoards illustrated by Briard (1965: pp. 212–216, fig. 74:7, 11, 12).

O’Connor characterises the Continental faceted axes of his List 127 as related to British faceted axes, but not of British manufacture.

3.1.2. Catalogue of the faceted socketed axes in the Netherlands

CAT.NO. 772. HAVELTE, GEMEENTE HAVELTE, DRENTHE. L. 14, w. 6.8 cm. Half-mould for casting a socketed axe with l. 10.4, w. 5.2 cm. Cylindrical mouth, ribbed inside. Nine dowel holes, outside of which are vestigial traces of a keying groove. The exterior, which has a rough unpolished surface, has a thick, broad loop (93.8×2.5 cm) and ornamental ribbing. The cast from it would be of the octagonal-sectioned type (but with the angles of the facets rather softened), with a rounded bulging collar and a second, slighter moulding (broad neck rib) below it; from the neckrib springs a D-shaped loop. Patina: mottled, mainly blackish; perfect preservation; pointing to an origin in peat rather than sand. Found 1907 in the heath field on the Ruiterweg on the north side of Havelte (“het heideveld aan de Ruiterweg onder Havelte”). Museum: Assen, Inv. No. 1907/VII.3. Presented 31 July 1907 by Jan Tromp Meesters of Steenwijk. (DB 105) Documentation: letter Jan Tromp Meesters to Kymmel, 19 July 1907.

Map reference: Sheet 16H, c. 212/533.

The Havelte mould (strictly, one half of a two-piece casting mould) is the only bronze casting mould for socketed axes known from the north of the country. By coincidence or not, one of the very few Bronze Age casting by-products known in the Netherlands, a casting jet found stuffed into the socket of a socketed axe (Cat.No. 663), is from a hoard found at another site at Havelte, ‘Het Lok’ (Butler, 1961: pp. 207–212, Pl. IV; Butler & Steegstra, 2003/2004: p. 269, fig. 91A).

The Havelte casting mould itself has similarities to, but also differences from, the mould from Erkrath, Kr. Düsseldorf-Mettmann: the only socketed axe mould known from Middle West Germany (Kibbert, 1984: p. 128, Kat.Nr. 599 with detailed description, Taf. 73). See section 3.3 below.

Cat.No. 772A, a plaster cast taken from the Havelte bronze mould, made in 1932, is present in the Assen museum (Inv. No. 1932/II) (DB 870).

Classification of the socketed axe which could have been cast in the Havelte mould is not entirely simple. O’Connor listed it with his faceted axes; Kibbert associates it not with his *facettierte Tüllenbeile*, but with the axes of his *Form Wesseling, Var. Traben-Trarbach*; we could associate it with our Wesseling-related axes with trapeze-shaped face panel (Butler & Steegstra, 2003/2004: Cat.Nos 758–762); but it also has affinities with the linear-faceted socketed axes from Nijmegen (Cat.No. 780), Colmschate (Cat.No. 781), or Echt (Cat.No. 784).

On the Continent, very close analogies are not known (except a socketed axe from Waasmunster [East-Flanders, Belgium], cf. O’Connor, 1980: p. 116, fig. 68:16, though this specimen lacks the neck rib). For O’Connor the bulging collar sets these two specimens apart from British faceted axes, e.g. those of Meldreth type. But, in view of the scarcity of close parallels, we are not as confident as was O’Connor that the Havelte mould and its partial parallel at Erkrath demonstrate local production.

The only really good parallel for the Havelte cast in the Netherlands is an axe (Cat.No. 773) from Ane, *gemeente* Gramsbergen, near the eastern border of Overijssel, close to the river Vecht and the German border. Paradoxically, a Scottish axe, found at Rathmell, West Riding of Yorkshire (Schmidt & Burgess, 1981: No. 1593, attributed to Type Sompting [though undecorated, and rather atypical among their Sompting axes]) seems rather similar. Also similar is an axe from the hoard of Ferring, West Sussex, near the south coast just west of Worthing (Huth, 1997: Taf. 37:1).

So also is a slightly narrower example in the Marler hoard in the Somme area (Gaucher, 1981: fig. 159:H22). The Belgian specimen from Waasmunster, Oost-Vlaanderen, illustrated by O’Connor (1980: fig. 68:13), without a neck rib, could easily be grouped with the Wesseling axes, especially of the variety with trapeze-shaped facial panel (Butler & Steegstra, 2003/2004: fig. 101, Cat.Nos 758–762).

**CAT.NO. 773. ANE, GEMEENTE GRAMSBERGEN, OVERIJSSEL. De Kiefte.**

L. 10.7; w. 5.6 cm. Weight 250 gr. Oval socket mouth (on one side slightly flattened), subrectangular socket. Mouth formula: 3.9×3.7; 3.0×2.6 cm. Bulging collar; one horizontal rib, from the base of which springs small D loop (1.7×0.6 cm). Body outline ) (, with widely expanded cutting edge; trapeze-shaped facial facet, with slightly rounded sides. Sharp casting seams, removed toward cutting edge. Cutting edge sharpened, but battered. Patina: malachite green, but partly removed, showing bronze colour. Surface much pitted. Inside socket, mostly light green, ochreous loamy encrustation. Found April 1987 by J. Bergsma on a towpath along a ditch, adjacent to a field de Kiefte, with metal detector. Museum: Zwolle, Inv.No. POM 7287; purchased from finder in 1989. On loan in Oudheidkamer Hardenberg. (DB 872)

**Map reference:** Sheet 22E, 241.1/515.7

3.2. Faceted socketed axes of or related to the British-Irish Type Meldreth in the Netherlands (AXT:mel) Figs 109–110

3.2.1. Definition

The Meldreth type embraces rather slender socketed axes with a body of biconcave outline, widening gradually toward a broad, curved cutting edge, and a polygonal cross-section of six to ten facets. Meldreth axes are very common in South-East England, but have not yet been comprehensively presented. For Northern Britain, Schmidt & Burgess (1981: pp. 204–211, their Nos 1230 ff.) illustrate some 40 examples. Eogan (2000: pp. 53ff) catalogues 100 examples as his Class 8A–8E in Ireland; he distinguishes five variants, chiefly on the basis of differences in the collar formation.

Typical examples of standard Type Meldreth (the “Meldreth itself” of Schmidt & Burgess, and Eogan’s Class 8B) have not been found in the Netherlands; although a single example occurred only one kilometer on the other side of the border with Belgium (there the river Meuse/Maas), in the large hoard (indeed, the largest Late Bronze Age hoard in the Low Countries and adjacent areas) of Heppeneert-Maaseik (Van Impe, 1994: pp. 12 and 33, No. 2). In the Heppeneert hoard the Meldreth axe occurred together with a considerable number of socketed axes of Plainseau type, a few socketed axes with Niedermaas affinities, and a single plain pegged spearhead.

The Meldreth axe in the Heppeneert hoard may well be an import from Britain or Ireland; similar examples are plentiful among the axes in Northern Britain of the Type “Meldreth itself” and its Variant Aylsham, and in Ireland among Eogan’s Class 8B. Whether it and other Meldreth axes from North Britain, the Somme area and other find-spots on the Continent were imports from England or locally made is perhaps far from settled (cf. O’Connor, 1980-1: pp. 166–7; Schmidt & Burgess, 1981: pp. 204–211; Eogan, 2000: under his Class 8B (pp. 55–57, 61–62). Eogan’s Cat.No. 317 is the only one, out of his 100 Class 8B examples, with a simple mouth moulding but without collar.

A few socketed axes in the Netherlands are of, or at least related to, the very few specimens grouped by Schmidt & Burgess (1981: pp. 208–211) under the heading of socketed axes of Type Meldreth, Var. Eaton (their Nos 1248, 1248A). These have the body form of the basic Meldreth axes, but have a simple bulging collar. A few similar axes are known on the Continent: Lobenhausen, Kr. Melsungen, Hessen (Sprockhoff, 1941: p. 90, Abb. 72:1), and possibly, because of damaged collar, Bokeloh, Kr. Meppen, in the Ems-Hase area, Niedersachsen (Sprockhoff, 1941: p. 90, Abb. 77:2).

This collar form is certainly extremely rare in the North British and Irish Meldreth axes, and if this also holds true for Southern England, the few Meldreth axes in the Netherlands would not be of British manufacture.

Our Cat.No. 774 (unprovenanced), is very similar to Schmidt & Burgess Nos 1248 and 1248A. These Type Meldreth, Var. Eaton axes are rare in North Britain and are presumably of southern British origin. But Cat.No. 774 came to the Netherlands Army Museum via the antiques trade, and is perhaps really a modern import.

A few possibly related specimens in the Netherlands – Cat.Nos 777 and 778 – unprovenanced or with a vague provenance, have non-British loop placement. Meldreth axes are rare in Middle West Germany (but cf. Ki 782 from Lobenhausen; Ki 783 is of unknown provenance).

While the Meldreth axes in the Picardy hoards and the single specimen in the Belgian Heppeneert-Maaseik hoard, just across the Meuse from the Netherlands, seem to be typical standard Meldreth axes, the four examples in the Netherlands are distinguishable from them; the Netherlands examples have higher-placed loops, three of which are high-placed mini-loops, i.e. loops such as occur frequently on the socketed axes of Type Wesseling and not on British socketed axes. None of the four in the Netherlands have a neck rib under the collar. Our specimens are perhaps best to be grouped with the “Type Meldreth variant Eaton” of Schmidt & Burgess (1981: p. 208, Nos 1248–1248B), rare in North Britain but more common in the south.

Kibbert has a few specimens rather similar to our Netherlands examples (his Nr 780 and 783, unprovenanced; 781 from Erle-Östricht, Kr. Recklinghausen in Nordrhein-Westfalen; 782 from Lobenhausen, Schwalm-Ederkreis, far off in eastern Hessen). These few Meldreth-related axes in the Netherlands and Western Germany are, perhaps, products of some secondary production centre(s), the locus of which, from the meagre distribution evidence, cannot be defined closely, but may have been in the south of the Netherlands or the Westphalian area.

In small numbers the “Meldreth itself” axes are known (especially in hoards) in the Somme area in France (Blanchet, 1984: p. 284, fig. 157 [St. Roch]; p. 285, fig. 158 [Dreuil]; p. 289, fig. 161 [Marlers]) and occur as occasional stray finds on the North European plain, even penetrating as far east as the Danzig area: the Górki (Gurki) hoard (Tackenberg, 1971: p. 42),
In the Netherlands, two of the four Meldreth-related axes are of unknown provenance (Cat.Nos 774 and 777). The provenanced examples (Cat.Nos 775–776) are both from Drenthe, thus from the north-east of the country.

**Dating:** the British Meldreth axes are dated by O’Connor to his LBA3; the Irish finds by Eogan to the Dowris phase. The Somme hoards are dated by Blanchet (1984) and by Gaucher (1981) to the corresponding *Bronze final IIIb*; the Górki hoard, according to Sprockhoff (1941), to Montelius V.

3.2.2. Catalogue of socketed axes related to the Type Meldreth in the Netherlands

**CAT.NO. 774. PROVENANCE UNKNOWN.**
L. 11 cm. W. 4.9 cm. Round/subrectangular mouth, bulging collar (formula: 3.4×3.4; 2.4×2.5 cm). Flattened D loop, 2.2×0.6 cm. Body with eight facets. Edges damaged, very asymmetric edge, asymmetrical casting seam. Patina: black. Museum: Delft, Nederlands Legermuseum: Inv.No. Caa-17, purchased 1952 from Van
Bronze Age metal and amber in the Netherlands (III:2C)

Stockum’s Antiek, Den Haag. (DB 1115)
Parallel: Kibbert, No. 782 (Lobenhausen, Schwalm-Ederkreis, but with different collar).

CAT.NO. 777. PROVENANCE UNKNOWN.
L. 9.15; w. 5.2 cm. Weight 120.6 gr. Round mouth opening. Single bulging collar (formula: 3.0×3.05; 2.3×2.25 cm) from which springs a small D-loop. Narrow body with eight facets, flat faces; casting seams present. Blade splays widely. Cutting edge sharp. Patina: black, partly removed. Surface somewhat pitted; otherwise well preserved. Collection: IPP, Amsterdam. (DB 2264)
Note: This specimen served as an ‘examination axe’, with which in his time Prof. Glasbergen confronted students during oral examinations.

3.2.2.1. Meldreth-related socketed axes with broader body in the Netherlands

Two Netherlands specimens – Cat.Nos 778 and 779 – may be related to the Irish broader version of the Meldreth axes, especially some of those grouped by Eogan under his Class 9E, and by Schmidt & Burgess under Type Gillespie.

The bulging collar and high-placed loop of our Cat. No. 778 distinguish it, however, from its British and Irish relatives.

Our Cat.No. 779, from Eindhoven, Noord-Brabant, rather resembles Eogan’s No. 555, a Class 9E axe (but with a largish loop, and internal ribs) belonging to a Dowris-phase hoard found at Trillick, Co. Tyrone (Eogan, 1983: p. 161-2, No. 142:1, Pl. 90:1). But our Eindhoven axe has an incomplete mini-loop, and is thus possibly of local manufacture.
3.3. Linear-faceted socketed axes in the Netherlands (AXT:Fac.Lin) Fig. 111–112.

3.3.1. **Definition**

O’Connor (1980) has singled out a group of socketed axes which he lists (his List 227), maps (his map 76) and discusses in detail (his pp. 231–233) under the heading “linear-faceted axes”.

“This distinctive group of socketed axes has” (he states) “facets bounded by ribs; these facets may be well-defined, flat or grooved, or merely be represented by the ribs on the angles of the axe”. O’Connor has, however, distinguished within this grouping a number of variants with a regional character, both in Britain and on the Continent.

The main occurrence of O’Connor’s linear-faceted axes is in Southern Britain. O’Connor catalogues some 30 finds in Britain, especially in Southern Britain; they have been found especially in Dorset and East Anglia, each of these regions with its own variant. Only small numbers occur in North England and Scotland (the three northern examples are classified as “Meldreth axes with embellished facets” by Schmidt & Burgess (1981: Nos 1256–1259). A few examples attributed, without detailed provenance, to “Ireland” have been added by Eogan (2000: Nos 1960–1963), constituting his Class 15 (his pp. 197–198).

For the Continent, O’Connor lists for North-West and North France four finds, for Belgium four finds, and for the Netherlands six finds (but he states explicitly that he does not regard these as a homogeneous group, nor as exports from Britain). For Germany, an unknown number have been found. These are not listed by O’Connor, but a few have been illustrated by Sprockhoff (1941; 1956), Tackenberg (1971) and most recently by Kibbert (1984).

Kibbert’s catalogue illustrates (within his more general category facettierte Tüllenbeile), a dozen examples, chiefly in Nordrhein-Westfalen (Ki 734–735 under “mit vertikalen Rippen und Rillen”; Ki 769–778 under “facettierte” and related), which can be taken as constituting a regional variant of the linear-faceted type, if we take as defining features the possession of a bulging collar, the fairly standardized form, and the presence of rib decoration on the face in the ‘drapery’ style. These axes can be with or without a neck rib; two of them have a pellet under the collar.

Some of the West German examples of Kibbert (1984), e.g. Ki 734 (the Wattenheim hoard) and Ki 735 (Dutenhofen, Kr. Wetzlar, Hessen) have considerable similarity to our Cat. Nos 780 (Nijmegen), 781 (Colmschate, Ov) and 784 (Annendaal, Li) with drapery ‘ribbing’ on the face though not strictly ‘faceted’.

O’Connor suggests for the Continental finds at least two sub-groups. The first is characteristic of the East of the Netherlands and the German area between the Rhine and the Weser. Their shape, he states, is not British. He couples this group with the bronze casting moulds from Havelte (Cat.No. 772) and Erkrath (more recently Kibbert, 1984: No. 599), and uses these moulds to support the case for Continental manufacture of the axes of this type.

Actually, neither the Havelte mould or that from Erkrath conforms strictly to the stated definition of the type. The Havelte mould has no ribbing of the angles. Indeed, according to Kibbert (1984: p. 128), it is not certain that the irregular and atypical ribbing in one of the halves of the Erkrath mould, or indeed this half of the mould itself, is in fact original. The exterior of the other mould half does bear rib-and-circle ornament.
Four faceted socketed axes in the Netherlands (Cat. Nos 780–783) have ribbed ornament on the angles of the facets, bringing them into the “linear-faceted” category of O’Connor (1980-I: pp. 231–233; II: p. 586 List 227: Nos 42–47). Four of the Netherlands examples have a bulging collar (on Cat.No. 781 horizontally faceted). Three have a neck rib below the collar; two (Cat.Nos 780 and 781) with a loop springing from the neckrib; on the latter the loop is unperforated. Cat. Nos 781 and 783 have a straight cutting edge. Cat.Nos 782 and 783 are unlooped.

A few of the examples on O’Connor’s list require correction. His Nos 42 and 43, our Cat.No. 776, are really opposite sides of the same axe (wrongly labelled through JJB’s error as a proof-reader, which should have been caught in 1963, but wasn’t). O’Connor’s No. 44, our Cat.No. 775, we have placed in the “Meldreth-related” group above. His No. 45, our Cat.No. 795, with (according to recent information) a dealer’s provenance: the dune area at Monster, Zuid-Holland, is better classified as a Sompting axe of O’Connor’s Dorset variant (the Portland variant of Dorothee Bruns, as shown on her poster at the Bronze Age Forum 12–14 November 2004, in Southampton), with rib and pellet decoration (below, section 4). O’Connor assesses the Monster axe as a British product; it may well be a modern import from Britain.

Our four specimens, spread out from north to south in the east of the Netherlands, have evident affinities with some at least of the south-east English examples of O’Connor; but also with some of those in Middle West Germany (Kibbert, 1984: Kat. Nr. 769–775, 777–778; unlooped, 784; most these are from find-spots in Niedersachsen).

_Dating:_ O’Connor sees the origin of the linear-faceted axes in South England, and derives them from the narrow faceted socketed axes there current in his LBA 3 phase. The linear-faceted axes begin in his LBA3 phase, but flourish chiefly in his LBA 4 phase (which overlaps, at least partially, with his Early Iron Age 1).

### 3.3.2. Catalogue of the linear-faceted socketed axes in the Netherlands

| CAT.NO. 780. NIJMEGEN, GEMEENTE NIJMEGEN, GELDERLAND. River Waal (dealer’s provenance). L. 10.4; w. 5.3. Round socket-mouth (mouth formula: 3.75×3.75; 2.7×3.0 cm), Bulging collar + one thin neck rib, from which springs small D loop (1.9×0.7 cm). Body with ogival outline, widely expanding lower part; octagonal cross-section, with angles emphasized by ribs. The expanded cutting-edge is rounded and asymmetrical with respect to horizontal axis; mouth also lopsided. Patina: |

**Fig. 111. Linear faceted socketed axes. 780: “Nijmegen” Ge (dealer’s provenance); 781: Colmschate, Ov.**

(which is not matched on any of the Continental finds of the type, although this rib pattern occurs on British socketed axes from East Anglia: O’Connor, 1980: fig. 74:1,2; see also the hoard of Ferring, West Sussex: Huth, 1997: Taf. 36:1, containing axes of linear-faceted and Sompting types with variously rib- and rib-and-pellet ornament), and on occasional specimens of Armorican type (Briard, 1965).
blackish; reddish sand inside. Museum: RMO Leiden, Inv.No. e.1906/1.3; purchased from dealer J. Grandjean. (DB 372)

Map reference: Sheet 40C, e. 186/430

Reference: Butler, 1963: p. 90, fig. 24 (erroneously there ascribed to Wachtum, gemeente Dalen).

CAT.NO. 781. COLMSCATE, GEMEENTE DEVENTER, OVERIJSSEL.

L. 10; w. 4.9 cm. Circular mouth opening (mouth formula: 3.65×3.8, 2.6×2.75 cm). Weight: 248 gr. Bulging, horizontally faceted collar, from which springs D loop (1.8×0.8 cm); not actually perforated (or, possibly, a perforation is filled up by the secondary iron-pan deposit). Body outline ) ( with wide blade expansion. Single thin neck rib below collar. Upper part of the body is faceted; the vertical facets are hollowed, and run out in the course of the trapeze-shaped faces. Casting seams prominent, but toward the lower ends removed. The cutting edge is straight, and is sharp, with slight modern battering. Much of the axe is heavily coated with a hard ferruginous deposit, blisterly on faces and sides; partly dark brown, partly lighter ochreous brown in colour. The socket is partly filled with the lighter-coloured ironpan. Found October 1997 with metal detector, in low-lying field with much ironpan; depth 15–20 cm. Private possession. (DB 2364)

Map reference: Sheet 33F, 211.9/474.30.


3.3.2.1. Linear faceted socketed axes, unlooped, in the Netherlands (AXTU:Fac.Lin)

CAT.NO. 782. MAASTRICHT, GEMEENTE MAASTRICHT, LIMBURG.

L. 8.45; w. 3.95 cm. Subrectangular mouth opening (formula: 3.2×3.0, 2.2×2.3 cm). Weight 169 gr. (Jacobsen, 1904). Single bulging collar; loopless; no neck rib. Slightly convex faces and sides; four ribs on each face (two along sides, two diverging toward blade end). Patina: blackish, partly removed. Cutting edge has been drastically blunted recently. Museum: Brussels, Inv.No. B.822 (old No. 10101). Donated in 1893 by L. Cavens, ex coll. Melgers. Metal analysis: Jacobsen, 1904: p. 44, Anal. No. 52 (Sn 10.23, Pb 1.212, Fe 0.315, S trace). (DB 1879)

Map reference: Sheet 69A, c. 173/318


CAT.NO. 783. GEMEENTE ROERMOND, LIMBURG. Flood plain of the River Maas.

L. 10; w. 4.8 cm. Subrectangular mouth, formula: 3.0×2.8, 2.1×1.85 cm. Large rounded collar, with single rib below it; octagonal cross-section; the angles emphasized by fine ribs; straight cutting edge. No loop. Patina: partly brownish, partly grey-green. Cutting-edge blunted recently; otherwise well preserved. (Inside: sand, some orange, some green). Dredge find in the period c. 1950–1958; exact find-spot unknown, but surely in the neighbourhood of Roermond. Museum: RMO Leiden, Inv.No. 1.1971/11.6, ex coll. L.C. van der Pijl, chief dredge machinist for the firm N.V. Ballastmij. ‘de Merwede’ (dredged 1958); purchased in 1971, with other items from Van der Pijl’s collection, from his heirs (see also Cat.No 814). (DB 1796)

Map reference: Sheet 58D, c. 195/356

3.4. Faceted socketed axes with face grooves in the Netherlands (AXT:Fac.Grv) Fig. 113

3.4.1. Definition

A few socketed axes in the Netherlands (Cat.Nos 784–786), related to the faceted socket axe series, are characterised by vertical grooves on the face. The placing of the grooves suggests that they are an alternative rendition of the ribbing of the axes of the “linear-faceted” group. All three have a bulging collar (Cat. No. 784 with a neck rib and a small pellet beneath the collar). Cat.No. 785 has a miniature loop; it has a narrow neck flaring out to a wide skirt, its outline resembling Cat.No. 776 from Dalen which we have here placed in the “Meldreth-related” group, to which it is surely related. Cat.No. 784, from Echt, Limburg, rather resembles the (ungrooved) axe which could have been cast in the Havelte mould.

3.4.2. Catalogue of the faceted socketed axes with face grooves in the Netherlands

CAT.NO. 784. ANNENDAAL, GEMEENTE ECHT, LIMBURG.
L. 10.9; w. 5.1 cm. Circular mouth opening (formula: 4.1×3.90; 3.15×3.0 cm). Bulging collar. Single neck rib, from which springs small, narrow D loop with ) ( outline; below which is a small, rather faint pellet. Body outline strongly ), but tips slightly S. Faces flat, with a vertical groove at each edge. Sides slightly ridged, with casting seams preserved. Cutting edge sharp. Patina: dark brown to dull green to bluish green; in places ochreous. Modern file marks. Inside: ochreous sand. Private possession; for a time on loan to Museum Echt, where it had the inventory No. B.5; later returned to the heirs of the collector. (DB 1006)
Map reference: Sheet 68E, c. 199/346
Parallels: The slightly ogival outline of the Annendaal axe is matched on the (dealer) specimen from Nijmegen (Cat.No. 780) cf. also near Compiegne, River Oise (O’Connor, 1980: p. 585, fig. 74:8, No. 35; Blanchet & Lambot, 1975: p. 42, fig. 30).
Note: The pellet is unusual in the ‘faceted’ series, though common on socketed axes of Type Plainseau. The wide loop is also a Plainseau feature.

CAT.NO. 785. SAASVELD, GEMEENTE WEERSELO, OVER-IJssel. (Hondeveld).
L. 8.9; w. 5.2 cm. Subrectangular mouth, single bulging collar, formula: 2.85×2.8; 2.15×2.1 cm, from which depends small loop: 1.7×0.4 cm. Narrow body with eight facets, round faces, casting seams present. Blade splays widely. Edge damaged. Patina: dark brown. Museum Enschede, Inv.No. 565 (old No. 500–231). (DB 1054)
Documentation: Ter Kuile in his copy of Pleyte: p. 36.

CAT.NO. 786. PROVENANCE UNKNOWN.
L. 10.75; w. 4.95 cm. Round mouth opening (formula: 4.2×4.2; 2.95×3 cm). Small loop, 2×0.6 cm. Body cross-section subrectangular, but with a shallow vertical groove on each side of the face. Prominent casting seam vestiges. Cutting edge tips slightly expanded. Patina: dark bronze, traces of black. Museum: Delft,
3.5. Angle-faceted socketed axes in the Netherlands

3.5.1. Definition

A half-dozen socketed axes in the Netherlands (Cat. Nos 787–792) are of basically subrectangular cross-section, but the angles between faces and sides are chamfered. All have a more or less bulging collar (in two cases horizontally faceted); two (Cat. Nos 791 and 792) have a neck rib below the collar. The loop varies in size and placement: Cat. Nos 787, 788 and 789 have small, Wesseling-type loops, one (Cat. No. 790) a rather large loop; Cat. Nos 791 and 792 have an unusual loop placement; namely the loop springs from the collar, and overbridges a neck rib.

“Angle-faceted” socketed axes have not been generally recognized as a distinct group; axes with this feature are usually divided up among other types. We preserve an open mind for suggestions as to their relationships. Ki 779 (= Tackenberg’s Taf.17:2) from Hagen, Kr. Paderborn in Nordrhein-Westfalen is angle-faceted rather than linear-faceted, but in form is evidently related to the linear-faceted axes. Ki 587, from Velmeden, Werra-Meissner Kr. Hessen, is also angle-faceted.

3.5.2. Catalogue of the angle-faceted socketed axes in the Netherlands

CAT.NO. 785. STONEHUYSDEN, GEMEENTE AMERSFOORT, IJssel. L. 10.2; w. 4.75 cm. Mouth: 4.23×4.06 cm. Mouth opening oval internally (formula: 3.75×4;2.7×3 cm). Horizontally faceted, bulging collar, with hammer marks and stumps of casting jets. Body outline slightly \( \vdash \); body section octagonal, but all faces gently convex; side angles emphasized by thin ribs, sides near cutting edge slightly S-curved; cutting edge nearly straight. Small low-placed loop, 1.4×0.7/0.4/0.75 cm. Prominent casting seams. Patina: black (partly removed). Very well preserved; but cutting edge filed recently. The finder sharpened the cutting edge, provided the axe with a haft, and experimented with it. He found the bronze too soft in comparison with modern axe-heads. The damage to the bronze axe was therefore confined to the file marks on the cutting edge, and is otherwise well preserved. Found c. 1938 by De Brouwer, stream-sweeper of Hilvarenbeek, during the sweeping of the stream de Poppelse Lei between Alphen and Goirle, at the level of St. Jansbrug (bridge), where the Poppelse Lei forms the boundary between Belgium and the Netherlands between Alphen and Goirle [door de Brouwer, stroomveger te Hilvarenbeek, bij het stroomvagen van de Poppelse Ley tussen Alphen en Goirle, ter hoogte van St.Jansbrug, waar de Poppelse Lei de Belgisch-Nederlandse grens vormt tussen Alphen en Poppel]. Presented by De Brouwer to museum Hilvarenbeek in 1965. Museum: Hilvarenbeek, Inv.No. H.26. (DB 1099)


CAT.NO. 787. GEMEENTE ALPHEN, NOORD-BRABANT. ST. JANSBURG, POPPELSE LEY. L. 11.1; w. 4.75 cm. Oval socket-mouth externally, sub-rectangular internally (formula: 3.75×4;2.7×3 cm). Horizontally faceted, bulging collar, with hammer marks and stumps of casting jets. Body outline slightly \( \vdash \); body section octagonal, but all faces gently convex; side angles emphasized by thin ribs, sides near cutting edge slightly S-curved; cutting edge nearly straight. Small low-placed loop, 1.4×0.7/0.4/0.75 cm. Prominent casting seams. Patina: black (partly removed). Very well preserved; but cutting edge filed recently. The finder sharpened the cutting edge, provided the axe with a haft, and experimented with it. He found the bronze too soft in comparison with modern axe-heads. The damage to the bronze axe was therefore confined to the file marks on the cutting edge, and is otherwise well preserved. Found c. 1938 by De Brouwer, stream-sweeper of Hilvarenbeek, during the sweeping of the stream de Poppelse Lei between Alphen and Goirle, at the level of St. Jansbrug (bridge), where the Poppelse Lei forms the boundary between Belgium and the Netherlands between Alphen and Goirle [door de Brouwer, stroomveger te Hilvarenbeek, bij het stroomvagen van de Poppelse Ley tussen Alphen en Goirle, ter hoogte van St.Jansbrug, waar de Poppelse Lei de Belgisch-Nederlandse grens vormt tussen Alphen en Poppel]. Presented by De Brouwer to museum Hilvarenbeek in 1965. Museum: Hilvarenbeek, Inv.No. H.26. (DB 1099)


CAT.NO. 788. GEMEENTE DOETINCHEN, GELDERLAND. L. 11.7; w. 5.5 cm. Weight 391.7 gr. Oval socket mouth, but subrectangular socket inside. Bulging collar, with faint horizontal faceting (formula: 4.1×4;0.0; 3.1×2.8 cm). From base of collar springs a small D loop (1.2×0.6 cm); the casting seams inside the loop have been imperfectly removed. Body outline \( \vdash \), gradually expanding toward a rather wide cutting edge. The faces are a large trapeze-shaped facet, the angles of which are also faintly faceted; the sides are rounded in section. Four casting jet stumps. Casting seams unusually prominent, and somewhat irregularly flattened by hammering.

Cutting edge well sharpened; its tips have been slightly hammered down. Surface slightly corroded, with tiny pits, but very well preserved. Patina: grey-green. Found in the canalisation of the Oude IJssel. Museum: Kasteel Berg, ’s-Heerenberg, Inv.No. 1186 (formerly private possession: Mrs Van Heek; old No. in black ink inside socket: B2). (DB 1738)

Map reference: Sheet 40F, c. 213/443
CAT. NO. 791. WEERDINGE, GEMEENTE EMLEN, DRENTHE.
L. 7.1; w. 3.5 cm. Oval mouth opening. Bulging, nearly biconical mouth moulding (formula: 3.8×3.2; 2.9×2.35 cm) from which sprung the loop (2.5 cm; which was, however, anciently broken off and is missing). The loop bridged a single neck rib, which is somewhat wider than the usual thin neck-rib. The sides are slightly nearly parallel, with very slight blade-tip expansion. Blade cross-section ( ), but with the angles slightly faceted. Prominent casting seams. Patina: part dark glossy green; damaged parts light green.

Fig. 114. Angle-faceted socketed axes. 787: Stevensweert, Li; 788: gemeente Doetinchem, Ge; 789: Poppelse Ley at St. Jansbrug, N-B; 790: Veluwezoom, Ge; 791: Weerdinge, Dr; 792: Milsbeek/Ven-Zelderheide peat-bog reclamation, Li. (787, 790: drawing HS)
Private possession (owner’s inventory number: 17F52). (DB 2258)

Map reference: Sheet 17F, e. 257.8/532.2.

CAT.NO. 792. MILSBEEK/VEN-ZELDERHEIDÉ, GEMEENTE OTTERSUM (NOW GEMEENTE GENNEP), LIMBURG.
L. 8.0; w. 3.8 cm. Round mouth opening (formula: 2.8×2.6; 2.3×2.2 cm). Bulging collar, from which springs thin D loop (2.2×0.5 cm); one thin neck rib. Body with ( ) outline, ( _ ) section, with faceted angles. Sides are faintly faceted. Irregular hole on one side; also dent (modern damage). Very thin-walled and light. Blade tips hollow. Faint casting seam on loop side. Sharpening facet on face. Patina: now very dark brown, but traces of green under the loop; inside also greenish. Well preserved. Found 1933–1935 during peat-bog reclamation in employment relief project; was in possession of Ir. W.B. Kuhn, the project director; after his death offered by his widow to the local museum in Gennep. (DB 2409)

Map reference: Sheet 46B, c. 196/417.


4. SOCKETED AXES OF TYPE SOMPTING AND RELATED IN THE NETHERLANDS (AXT:sompt) Fig. 115–116

4.1. Definition

The socketed axes of Type Sompting were defined by Burgess (1969, pp. 267–272; cf. Schmidt & Burgess, 1981: pp. 241–247). Very briefly, the axes of the basic type are large and heavy, with a somewhat trapeze-shaped body (see op cit. for the full details). Many or most examples have on the face more or less vertical rib, rib-and-pellet, or rib-and roundel ornament. Small examples and unornamented examples also appear. But, as Burgess emphasized, similar ornament often occurs, on other, non-Sompting types of socketed axes, including some small axes in the German Rhineland attributed by Kibbert to his Form Wesseling (Ki 581–585), identifiable with the Rhineland “linear-faceted” group mentioned above (one similar piece is present in the Netherlands: Butler & Steegstra, 2003/2004: Cat.No. 771, from Emmen, gemeente Dalfsen in Overijssel); on two longer rib-and-pellet-ornamented axes, Ki 615 and 616; and on some Armorican socketed axes.

Although Burgess warned (in 1969) that the form and the decoration on Sompting and related socketed axes needed to be considered separately, map-makers (including Burgess himself) have tended to concentrate on the ornament (Burgess, 1969: fig. 2 “Distribution of (Sompting and related) socketed axes); mostly in South-East and North-East England; Tackenberg (1979: p. 260, Liste 21, adding to Sprockhoff, 1956:2, p. 24ff, Karte 11) shows very few axes with Uhrpendelmuster in North-West Germany (cf. Kibbert, 1984: pp. 154–158) and rather more in central North Germany, spreading to the Baltic coastal area. Examples, in so far as illustrated, are not evidently British, except apparently the specimens from Heringsdorf auf Usedom (Sprockhoff, 1941: Taf. 39:1) and in the Bergen auf Rügen hoard (Sprockhoff, 1941: Taf. 53:9,10).

Recent studies (Coombs, 1979a, 1979b; Cunliffe & O’Connor, 1979; Eogan, 2000: his Class 14, p. 97; Northover, 2003 (a,b); Dorothee Bruns (information via e-mail from her forthcoming thesis) have increased the number of variants recognized in Britain and Ireland.

Very few socketed axes in the Netherlands are attributable to the Type Sompting (main or variants), and even these few are subject to reservations as to reliability.

Cat.No. 796 is severely battered, and its typological placement here is uncertain. Cat.No. 793 and Cat. No. 795 are typologically acceptable Sompting axes, but are acquisitions via the antique trade.

Cat.No. 794, attributed to Hunsel, Netherlands Limburg, is in form also very similar to the socketed axes in the hoard of Portland, Dorset, recently declared by Dorothee Bruns to consist of Sompting axes of a “Variant Portland”. The Museum Liege (Luik) acquired it in 1924 from Mme. H. Schuermans-Sleegers; how she acquired it is unknown.

Cat.No. 793, allegedly from Overasselt, Gelderland, is undoubtedly a Sompting axe, but came to the Leiden museum in 1949 via the dealer Groneman of Nijmegen.

Cat.No. 795, also undoubtedly a Sompting axe, like Cat.No. 794 of the Variant Portland (Pearce, 1983: No. 433 a-j), is allegedly from a dune location at Monster, Zuid-Holland. It was acquired by the Hague museum via the dealer Peterse (information from V. Kersing, Gemeentelijke Archeologische Dienst, the Hague, July 2005).

Cat.No. 506 is an unornamented Sompting axe, with unperforated loop. It was acquired from the collector G.J. Olst of Ressen, as having been found in the Gemeente Nijmegen, but without exact find-spot, by the Gelders Archeologische Stichting (GAS) in 1958.

We have already catalogued this axe as Cat.No. 506 in Part III:2A as a Planeau axe, but on reconsideration it agrees well with, for example, Schmidt & Burgess No. 1578 from “the Ingleton area”, W.R. Yorkshire and No. 1602 from Castle Hill, Burton Agnes, E.R. Yorkshire; also Tower Hill hoard, Ashbury, Wiltshire (Coombs, 2003; Coombs et al., 2003) and others.
Dating: developed Sompting axes are dated in Britain to LBA3 (Ewart Park phase) and LBA4 (Llyn Fawr phase); in Ireland to the Dowris phase (O'Connor, 1980: p. 234; Eogan, 2000: p. 197).

4.1.2. Catalogue of the socketed axes of Type Sompting or related in the Netherlands

4.1.2.1. Undecorated Sompting axe (fig. 115a)

CAT.NO. 506. NEAR NIJMEGEN, GELDERLAND.
L. 12.0; w. 4.8 cm. Round to subrectangular mouth opening (formula: 3.9×4.25; 3.05×3.05 cm). Slightly biconical collar + rib; low loop (1.9×0.6 cm) not open; subrectangular cross-section. Edge sharp. Patina: blackish glossy. Gravel and yellowish loam under loop; ochreous coloured, loam inside socket. Museum: Museum Het Valkhof, Inv.No. GAS 1958-9-31, ex coll. G.J. Olst of Ressen (on loan in museum Ede). (DB 45)


4.1.2.2. Decorated Sompting axes (fig. 115b)

CAT.NO. 793. OVERASSEL, GEMEENTE OVERASSEL, (NOW GEMEENTE HEUMEN, GELDERLAND (dealer’s provenance).
L. 13.5; w. 5.1 cm. Round mouth; inverted-cone collar (formula: 4.1×4.5; 3.4×3.4 cm). Neck rib, from which depends small but broad ribbon loop (2.5×0.9 cm). Body of rectangular section, concave−\_\_ outline; five vertical ribs on each face. Cutting edge sharp. Interior partly filled with bronze-impregnated wood. Patina: mottled. According to the Inventarisboek purchased 8 June 1949 from dealer Groneman (Nijmegen), but in the Museum cardfile dealer Esser is mentioned. Museum: RMO Leiden, Inv.No. e.1949/6.1. (DB 524)
Map reference: Sheet 46A, c. 183/419


A similarly shaped heavy inverted cone collar is uncommon, but present on a 3-ribbed axe in the Plainsseau hoard (O’Connor, 1980: fig. 65B5) and some of the axes of Schmidt & Burgess, 1981: Type Welby (Pl. 88–89).

In W. Germany, Kibbert, 1984: Nos 730 (Hangen-Weisheim, Kr. Alzey-Worms, Rheinland-Pfalz), 731 (Geseke, Kreis Lipstadt, NRW), 732 (without neck rib: Mutterstadt, Kreis Ludwigshafen, RPf). Possibly 733, “Bingen?” and 745 (Kamp-Bornhofen) though these may considered to be Plainsseau axes. In Belgium 1 ex. from East-Flanders (in museum Gent), but with broader ribs.

CAT.NO. 794. HUNSEL, GEMEENTE HUNSEL, LIMBURG. Near ‘the Schans’?
L. 10.6; w. 5.1cm. Round mouth, biconical collar (mouth formula: 3.15×3.15; 2.2×2.2 cm); from which depends small loop (1.95×0.6/0.4/0.6 cm; actually unpierced). Narrow body, widening gradually to broad cutting edge; faces and sides flat; cross-section rectangular. Four vertical ribs with pellets, slightly diverging, on each face. Adjacent to loop, two blowholes; casting seam eccentric. Patina: glossy brownish (where damaged, greenish): peat find? Museum Liège, Inv.No. 24/2; donated (1924) by Mme. H. Schuermans-Sleegers. Plaster cast in Museum Brussels (KMKG): Inv.No. B.1018. Metal analysis (Jacobsen, 1904): Sn 12.84, Pb 1.84. (DB 650)
Map reference: Sheet 58C, 183.92/356.01
Documentation: e-mail H. Heijmans with coordinates to authors.

Parallels: very similar to specimens in the South English axe hoard from Portland, Dorset (“possibly Verne Fort area”, 1857) (Pearce, 1983: Cat.No. 433a–433j).

CAT.NO. 795. MONSTER, GEMEENTE MONSTER, ZUID-HOLLAND. (near the Watertower). Dealer’s provenance.
L. 10.2; w. 5.3 cm. Circular socket-mouth; biconical collar with cylindrical neck, offset from body; from the base of which springs a small loop (2.2×0.5/0.85 cm). Body with octagonal cross-section, widely expanding blade, with rib-and-pellet ornament (five ribs) on each face. Cutting edge sharp. Patina: blackish. Found 1953 30
cm deep “in de grond derde strandwal” (in the earth of the third dune ridge). Museum: Den Haag. Inv.No. pchhm90.00012.953; purchased from the dealer Peterse (information from V. Kersing, Gemeentelijke Archeologische Dienst, the Hague, July 2005). (DB 1354)

Map reference: Sheet 37B, c. 71/449.


Parallel: O’Connor, 1980: linear faceted No. 45.

Note: The collar, single neck rib and low-placed loop would not be out of place in the British series of Sompting axes, to which the Monster axe undoubtedly belongs. The provenance is, however, a dealer’s provenance.

4.1.2.3. Uncertain type because of severe damage (fig. 116)

CAT.NO. 796. HOUT, GEMEENTE KESSEL, LIMBURG.

L. 10.5; w. +3.5 cm. Round socket-mouth; double collar, formula: 3.7×3.5; 2.3×2.15 cm; pointed oval cross-section; 6 ribs on each face. Stump of low loop, 1.85×0.6 cm. Severely damaged and abraded. Patina: leathery brown. Museum: RMO Leiden, Inv.No. 1.1938/6.55, acquired from collector L.D. Keus of Venlo. (DB 473)

Map reference: Sheet 58E, c. 203/369

Fig. 116. Uncertain type because of severe damage. 797: Hout, Li.
5. MISCELLANEOUS SOCKETED AXES

In this section we catalogue socketed axes of types scarce in the Netherlands and socketed axes of uncertain classification.

Included are a number of specimens that are, certainly or probably, modern imports to the Netherlands, via dealers or collectors. In accordance with current international practice we register such specimens for the sake of completeness, or because of uncertainty as to their status, for whatever research value they may have as genuine prehistoric objects with unknown or doubtful provenance.

We do not wish categorically to cast aspersions on the integrity of the dealers and collectors who have purchased or sold prehistoric objects in good faith. But, alas, not all buyers and sellers are equally innocent. Bronze socketed axes, like other bronzes, are mostly small, easily portable objects, which in the past were for the most part inexpensive items, worth only a few guilders on the market. It was not the responsibility for the most part inexpensive items, worth only a few guilders on the market. It was not the responsibility of an antiques dealer to investigate the alleged find-spots of such articles, even assuming that a find-spot was named; nor would it have been worth his while to devote time to the purpose. A local find-spot attributed to a find-spot by him at an exhibition. Private possession. (DB 2518)

5.1.1. Definition

“South-eastern” socketed axes were first defined by one of the present writers (Butler, 1963: pp. 82–86, fig. 21–22, Map VI) to give a name to what then appeared (thanks an exploratory study in the Bronze Age Card Catalogue, later National Bronze Implements Index, housed in the British Museum) to be the most common type of socketed axe present, in overwhelm-
Parallels: For example, Schmidt & Burgess, 1981: No. 1279, from Sproatly, East Riding, Yorkshire (in a hoard, for details referring to p. 160 under No. 916), attributed by them to Type South-eastern, Variety Bilton (p. 214) but (on another page) also to Variant Worthing (their Pl. 85:1279 and Pl. 140 E).

CAT.NO. 798. PROVENANCE UNKNOWN.
L. 9.45; w. 5.35 cm. Weight: 329.8 g. Mouth formula: 4.25×4.15; 3.05×3.1 cm. Collar, one neck rib, from which band loop (2.15×1.15 cm). Ring-punch marks on loop side (4×), one on opposite side. J tips with pouches. Cutting edge sharpened, but battered anciently. Vertical rib on each inside face of socket. Mass of lead in lower part of socket. Casting seams prominent. Resharpening of the axe is indicated by facial facets and by the dimples on the sides of the cutting edge. Patina: dark bronze with light green patches. Private possession. The father of the present owner of this axe purchased it from a (now unknown) dealer as a birthday present for his daughter. (DB 2523)

Parallel: A strikingly similar axe is (for example) from a hoard found at Eldwick, W.R. Yorkshire (Schmidt & Burgess, 1981: No. 1272 (their Pl. 85), assigned by them to their Type “[British] South-eastern, Variant Shoebury”, which they cite as “one of the commonest South-eastern forms”.

5.1.2.1. Possible variant of the South-eastern type, without neck rib (fig. 117b)

CAT.NO. 799. HEES, GEMEENTE NIJMEGEN, GELDERLAND.
L. 10.3; w. 4.6 cm. Single, bulging collar (ext. 3.8×3.5 cm); round socket opening; low loop (1.6 cm); body of rectangular cross-section, with expanded, somewhat asymmetrical cutting edge. Patina: reddish-brown to brown. Surface rough. Museum Liège, inventory number unknown, ex coll. Georges Cumont. Sketch: Butler. (DB 649)

Map reference: Sheet 40C, c. 185/428.
Parallels: Similar socketed axes occur in North Britain (Smith & Burgess, 1981: pp. 217–218, Nos 1295–1303, there under the heading “Miscellaneous slender socketed axes with rectangular sectioned bodies”. According to them, such axes also occur sporadically elsewhere in Britain, “where they may be regarded as variants of the South-eastern type”, cf. e.g. Nottingham, the Great Freeman Street hoard (M.A. Smith, 1957: Card 2 [1]: No. 7). Examples are also present in the “Plainseau” hoards in Picardy (Blanchet, 1984: pp. 281, 284), and elsewhere.

5.2. Socketed axe of “Type Jersey” in the Netherlands (fig. 118)

CAT.NO. 800. HENGSTBERG, GEMEENTE UBBERGEN, (NOW: ST. MAARTENSKLINIEK, GEMEENTE NIJMEGEN), GELDERLAND. Part of two-axe hoard (with Cat.No. 509).
L. 12.5; w. 3.9 cm. Square mouth; rectangular cross-section; biconical collar (formula: 3.3×3.6; 2.45×2.5 cm) from the base of which springs a D-shaped loop (2.4×0.6 cm). 3 converging ribs on face. Edge abraded. Patina: glossy dark green, with dark brown encrustation. Found 1821 at the ‘Oliemolen’ (oil mill) while constructing a garden with footpaths [toen men daar een tuin met wandelpaden wilde gaan aanleggen]. Museum: Het Valkhof, Nijmegen, Inv.No. AC 12 (old No. E III No.8), presented 1865 by A.L. Post, owner of the ‘Oliemolen’. (DB 1482)
Map reference: Sheet 40D, c. 190.5/427.3.

Associations: socketed axe Cat.No. 509; of Type Plainseau with large, bulging collar and single neck rib (in museum Het Valkhof, Inv.No. E.III.No.6, ex coll. Guyot).

Documentation: Reuvens ‘notebook’: p. 190, with sketch by him at unnumbered page (in museum RMO Leiden).


Parallels: Briard, 1965: fig. 98:3, illustrates a similar socketed axe, with a large V rib on the face, which he discusses in connection with his petit “Type Couville”, from Miniac-Morvan (dep. Ille et Vilaine), or (p. 262) to Champ-Houguet en Couville, Manche; which location is intended is not clear. The Type Couville consists of very small socketed axes, while our Cat.No. 800 is, with 12.5 cm length, rather on the long side. In 1836 a hoard was found near Saint-Hélier containing both large and small examples of the type. The British archaeologists called it the ‘Type Jersey’ (see Crawford, 1913: pp. 641–649). How farther to the west, how larger the axes Briard, 1965: p. 263). Probably related is our Cat.No. 622, of unknown provenance, with a similar size and outline, but with face decoration of rib ‘wings’.

A few related socketed axes from the German Rhineland are similar in form but with slightly more bulging collar and different ornament: Ki 614 from “Rhein bei Mainz” with a pattern of pellets; Ki 615 from the “Rhein bei Niederdollendorf”; and Ki 616, with rib-and-pellet ornament; the latter from a possible hoard with roughcastings for Gündlingen bronze swords of the Early Iron Age. (Kibbert, 1984: Taf. 100A:1–3, with further references).

5.3. Socketed axe of Lausitz type (Var. Lenzersilge) (fig. 119)

5.3.1. Definition


The distribution of Lenzersilge axes is, thus, mainly in the Elbe-Oder area, with very few finds farther to the west. They are very scarce in Middle West Germany; Kibbert has a few examples (Ki 750–755), only one of which (Ki 752, from a Late Bronze-Age-Early Iron Age settlement site at Recklinghausen-Süd) is in Nordrhein-Westfalen; but none are in Niedersachsen.

The only example of a Lausitz socketed axe recorded in the Netherlands is Cat.No. 801, a stray find from Achterberg, gemeente Rhenen. It is similar to the Recklinghausen specimen, which Kibbert
lists under the heading "resembling the Middle Elbe form Lenzersilge-Darsekau". With its simple mouth moulding without neck ribs, long thin midrib, and plastic arches on the sides, our Cat.No. 801 most resembles the socketed axes of the variety Lenzersilge. East of the Oder, in Western Poland, Kusniierz (1998: pp. 76–77, Nos 622–626, Taf. 45 triangles) has five examples under the “Lenzersilge-Darsekau” heading, though of these, only one is “Lenzersilge”-like (along with some others he illustrates that are similar-looking but for various reasons are assigned to other types) as against four specimens with neck ribs, and thus “Darsekau” axes.

CAT.NO. 801. ACHTERBERG, GEMEENTE RHENEN, UTRECHT. L.8.3; w. (3.0). Weight 133.5 gr. Nearly circular mouth. Bulging collar (formula: 3.5×3.3; 2.4×2.35 cm), from which springs small D loop (1.4×0.5 cm), bridging a very short neck of round section. Narrow body of ) ( outline. On each face a prominent narrow vertical rib; on each side a prominent arch ornament, the edges of which form side flanges on the face. Casting seams present. Cutting edge sharpened, but anciently battered; one blade tip broken off. Patina glossy dark brown; c. 50% of which is peeled off, showing light green. Found c. 1962. Museum: Amersfoort, Inv.No. Ca 103). (DB 1159)


Note: According to the Amersfoort museum it was found around 1962; how it came to the museum is unrecorded, thanks to a gap in the finds registration around that time (information from the conservator, B. Raven, to authors, in e-mail 12 January 2006). It is therefore difficult to judge whether it may be an ancient or modern import.

Dating: If an ancient import, it would be remarkably isolated as a Lausitz axe in West Germany and the Netherlands. On the other hand, the very reliable Drouwenerveld hoard in Drenthe (Butler, 1986: pp. 137–149; contains a remarkable group of import bronzes, partly of types characteristic of the Middle Elbe area, possibly datable to the same period (HaB1/Northern Period IV) as the axe Cat.No. 801.

5.4. Socketed axes of South-East European types in the Netherlands (figs 120–122)

Nine socketed axes present in collections in the Netherlands are of types especially frequent in the Late Bronze Age (more or less parallel with Central European BzD-HaB3) in South-Eastern Europe, but rare outside that area. They are here presented for the sake of the record; some are certainly, and others probably, modern import. Four examples (Cat.Nos 802, 804, 808, 809) are without recorded provenance. Five specimens are attributed to specific find-places in the Netherlands; four of these have a dealer’s provenance. It is seldom possible now to determine whether these attributions are reliable. We present such evidence as may be available, so that the reader may judge for himself.

5.4.1. Socketed axes with asymmetrical saddle-shaped mouth in the Netherlands (fig. 120)

These, known in the literature variously as Schnabeltüllenbeile, or as “Thracian” or “East Carpathian” socketed axes, or as “mitteldonauländische Tüllenbeile mit ausgeschnittenem Tüllenrand”, are represented by only two examples in the Netherlands (Cat.Nos 802–803). Both have an asymmetric mouth. One of these, Cat.No. 802, is certainly modern import; it was presented to the BAI Groningen by the Hungarian National Museum in 1920 as an unlocalized find. The other specimen, Cat.No. 803, is attributed to Katwijk aan de Maas; it came into the collection of the Rijksmuseum van Oudheden, Leiden, by purchase from the antiques dealer Esser in 1923.

CAT.NO. 802. PROVENANCE UNKNOWN. L. 10.7; w. 5.6 cm. Oval mouth opening, with asymmetrically saddle-shaped, bevelled and everted rim, from which springs a D-shaped loop. Body with strongly concave outline; faces and sides
convex in section; the angles are grooved. The lower part of the blade has on each face broad sharpening facet. The cutting edge, sharpened, is markedly asymmetrical and strongly curved. Patina: glossy green. The face has been coarsely filed leaving many scratches; preservation otherwise excellent. There is a crack c. 1 cm long descending from the rim on one face. Dark brown earthy encrustation inside the socket. BAI 1920/V.59, presented by the Hungarian National Museum; stolen from BAI c. 1960, thereafter in private possession. (DB 2560)

CAT.NO. 803. KATWIJK A/D MAAS, GEMEENTE CUYK EN ST.AGATHA, NOORD-BRABANT. Dealer’s provenance. L. 11.5; w. 5.1 cm. Simple, slight bulging collar, without neck ribs. The mouth opening is saddle shaped and markedly asymmetrical. The loop is broken off. The body outline is somewhat ogival; its cross-section is subrectangular, the angles are grooved. Casting seams present; cutting edge sharp. Museum: RMO, Inv.No. k.1949/5.2, purchased from dealer Esser.


Known finds of Schnabeltüllenbeile in adjacent German territory include none at all in the two Länder adjacent to the Netherlands, i.e. Niedersachsen and Nordrhein-Westfalen. The nine examples catalogued by Kibbert for Middle West Germany are at a greater distance: two examples attributed to Hessen, three to Rheinland-Pfalz, while four are unprovenanced. Some of the “provenanced” examples are indeed attributed to a general area rather than a specific place. Kibbert evidently regards his whole group of Schnabeltüllenbeile in Middle West Germany as requiring a warning sign: he sets all the place attributions in his area, whether specific or general, between quotation marks.

\textit{Dating:} similar socketed axes occur in many hoards in South-East Europe \textit{e.g.} for Rumania: Říhovský, 1972 (under Tüllenbeile Gruppe II to VI, Taf. 43–45); for Austria: Mayer, 1977: pp. 184–185, Kat. Nr. 970–984. Some of the Rumanian hoards are dated by Říhovský (1972: p. 101 and \textit{infra}) to the erste Jungbronzezeitstufe (hoard horizon Uriu-Domânești), but others are dated throughout the Late Bronze Age.

5.4.2. \textit{South-East European socketed axes with ribbed V, Y or related motifs (fig. 121)}

Another large series of South-East European Late Bronze Age socketed axes is characterised by ribbed ornament on the faces, usually with varied V and/or Y-shaped patterns. Numerous examples, with many variations, are illustrated in PBF volumes concerned with
axes generally, socketed axes in particular, or hoards of a country or area (see Kibbert, 1984; König, 2004; Kušnierz, 1998; Mayer, 1977; Petrescu-Dîmboviţa, 1978; Říhovský, 1992; Vulpe, 1970).

Seven socketed axes of types, subtypes or variants within this broad category are present in collections in the Netherlands (Cat.Nos 804–810; including two loopless specimens: Cat.Nos 809 and 810). Cat.Nos 804, 808 and 809 are however unprovenanced, and Cat. Nos 805, 806 and 810 have a dealer’s provenance.

However frequent such socketed axes may be in Eastern Europe, they are scarce in the West. No socketed axes in this category have previously been recorded from Niedersachsen. For Middle West Germany, Kibbert catalogues eight examples, varying considerably among themselves in details. Of these, only one or two are from the nearby Nordrhein-Westfalen (the axe from Batenhorst Kr. Wiedenbrück in Tackenberg, 1971: Taf. 23:2, Liste 38:2; Kr. Gütersloh in Ki 1984: Kat. 575) is, according to Tackenberg (but erroneously) a Lauzitzer Tüllenbeil. Ki 573, attributed to Erwitte (SE of Paderborn), was acquired “aus dem Handel”. Three (Ki 571, 576A, 577) are from Rheinland-Pfalz (Ki 571 acquired at an auction sale) and two are of unknown provenance. It would thus seem that the only example with a reliable find-spot in Kibbert’s area is his Nr. 577 (Kibbert, 1984: p. 72 and 176, Taf. 90: D7), from the Hillesheim hoard, Kr. Mainz-Bingen in Rheinland-Pfalz. This hoard is dated by Kibbert to his Stufe Obernbeck, equated by him with the later Central European jüngere Urnenfelder and the Northern earlier Period V.

**Dating:** socketed axes in this equivalent are, broadly, dated to regional counterparts of the Central European Urnfield period (BzD-HaB3).

### 5.4.2.1. Catalogue of South-East European socketed axes with ribbed V, Y or related motifs in the Netherlands

**Cat.No. 804. PROVENANCE UNKNOWN**

L. 9.0; w. 3.9 cm. Subrectangular mouth opening. Broad bulging collar (formula: 3.15×2.85; 1.8×1.8 cm), from which springs D loop (2.1×0.3 cm). Four widely spaced neck ribs, from the lowermost of which depends a double-V rib motif. Body with parallel sides, with ogival expansion of lower blade part, which is no longer hollow. Cross-section subrectangular, with slightly convex faces and sides. Cutting edge nearly straight, sharp, with slight battering. Casting seams present on upper half of sides. Small irregular blowhole under the collar on the non-looped side. Patina dark brown. Private possession; obtained by exchange from another private possessor. (DB 688)


**Cat.No. 805. SLIJK-EWIJK, GEMEENTE VALBURG, GELDERLAND.** (Dealer’s provenance).

L. 11.8; w. 4.9 cm. Oval socket mouth (formula 4.2×3.0; 3.2×2.2); moulding with a broad rib, from which springs a narrow, flattened-D loop (3.0×0.4 cm). Single thin neck rib, from which depends a thin-rib ornament consisting of a Y flanked by long rib ‘wings’. In outline, sides nearly parallel; cross-section hexagonal; pointed arches on the sides. Patina: glossy dark brown, with green patches. Purchased by present private owner from a postage stamp dealer in Nijmegen, who in turn had acquired it from a metal-detector enthusiast from Wijchen. The latter said that he had found it with the detector in 1997, but did not wish to have revealed his name or the exact find-spot. Private possession. (DB 2443)

**Documentation:** verbal communication to Butler 23 March 1999.

**Parallel:** Mayer, 1977: p. 192, Nos. 1056 (no provenance), 1057 (Salzburg, Bürgstein, with facial arch), Taf. 76,77; Eogan, 2000: No. 2026 “Ireland” (but much smaller).

**Cat.No. 806. DRIE, GEMEENTE ELST, GELDERLAND.** Dealer’s provenance.

L. 10.3; w. 4.6. Oval to rectangular mouth, small biconical collar (formula: 3.9×3.7; 2.85×2.4 cm), with 2 ribs; high loop, 3.1×0.45/0.8 cm; subrectangular section (has peculiar seam surrounding mouth opening). Patina: mottled green. Extensive private collection: heirs Brasem-Hansen. (DB 14)

**Parallel:** Kibbert, 1984: No. 704 (Grüningen, Kr. Giessen).

**Note:** Brasem was a barber and collector, resident in Arnhem and Apeldoorn. The Brasem-Hansen collection consisted of c. 260 heterogeneous archaeological objects, purchased in the Netherlands and elsewhere; none of the objects had a recorded provenance. The collection was placed on loan in the then Gemeentemuseum Arnhem in 1935. Some of the objects were lost during World War II. The collection was returned to the owners at the end of 1990s (information in a note by former curator and provincial archaeologist G. Elzinga, dated 28 August 1961, and telephone message from the former curator R. Borman to H. Steegstra 5 January 2006).

**Cat.No. 807. BEESEL, GEMEENTE BEESEL, LIMBURG. ’t Haselt.

L. 7.0; w. 3.3 cm. Oval mouth opening; single bulging collar (formula: 3.45×2.4; 2.3×2.0 cm), from which springs a small, thin flattened-D loop with irregular perforation. On neck, thin ribs in \_\_\_\_ pattern, the horizontal ribs continuing onto the sides, plus three vertical thin ribs on face. Blade outline slightly / \ shaped, with \_\_ section. Casting seams prominent. Cutting edge nearly straight, sharp. Patina grey-green, with lighter patches. Excellent preservation. Sandy encrustation inside. Found by owner 1998, with metal detector. (DB 2433)

**Map reference:** Sheet 58E, 201.90/364.80.
CAT. NO. 809. PROVENANCE UNKNOWN.  
L. 8.8 cm (butt end broken off and missing, break patinated). Weight 250.4 gr. Mouth opening oval, formula 5.1×3.8; 3.25×2.3 cm. Bulging collar with three horizontal furrows, overhangs slightly. Body outline (as far as preserved. Body section oval, with prominent casting seam between two furrowed ridges. On face below collar a pellet enclosed by three concentric V ribs. Patina: dark glossy green. BAI 1923/X.38, purchased from coll. Hinterstoisser, Salzburg (according to the BAI Inventory Book probably from Hungary) stolen from BAI c. 1960; thereby passed into private possession. (DB 2561)

Parallel: example from Girişu-Roman hoard with 3 neckribs and no facetted collar (Petrescu-Dimboviţa, 1978: Taf. 266:2).

5.4.2.2. Unlooped South-East European socketed axes

a. with ribbed V decoration (fig. 122 left)
dark green, semi-glossy. Private possession; bought at market in Utrecht. (DB 2519)

**Documentation:** letter (and photograph) owner to Butler, 3 November 2000. From a private collection with various bronzes of unknown provenance (cf. here DB 2518).

**Parallels:** Poland: Kuśnierz, 1998: Nos 31, 34, 36; similar ornament: O’Connor, 1980-II: fig. 51:12, attributed to the Thames at London.

b. with teardrop ribbed ornament (fig. 122 right)

**CAT.NO. 810. LITH, GEMEENTE LITH, NOORD-BRABANT.**

River Maas (dealer’s provenance).  
L. 7.8; w. 3.7 cm. Oval socket mouth. Mouth formula: 3.3×2.5; 2.3×1.8 cm. Bulging collar, with rectangular projection on each side. Neck with oval cross-section; arch-facets on face; also two concentric tear-drop shaped ribs on face. No loop. Cutting edge sharp. Patina: mottled green. Museum: RMO Leiden, Inv.No. k.1938/11.1. Purchased from A. Sprik (Zaltbommel); according to him, found during excavation of canal lock. (DB 482)

**Reference:** Heemskerk Düker & Felix, 1942: pl.II

**Parallels and dating:** Related socketed axes appear in Late Bronze Age hoards in Rumania, such as Nicolae Bălescu (Petrescu-Dimboviţa, 1978: hoard 109, Taf. 76 and others). The socketed axes in these hoards have varied rib ornament surrounding a perforation in the face of the axe; but despite this and other difference a relationship seems undeniable.

5.5. “Nordic” socketed axe, Baudou Type VIIC2a (fig. 123)

**CAT.NO. 811. PROVENANCE UNKNOWN.**

L. 9 cm; w. 7.3. Looped socketed axe with round mouth opening, body of hexagonal section, widely splayed blade. Purchased 1884 (for 1 guilder) at a public sale in Amsterdam [aangekocht December 1884 op een openbare verkoping te Amsterdam. Gekocht voor f 1,00]. Museum: RMO, Leiden: Inv.No. B.A.m., but not now present. Drawing: sketch in museum archive kindly made available by dr. L. Verhart, conservator RMO Leiden. (DB 280)

**Documentation:** RMO Leiden, letter 1884, Reg. No. 212.

**Parallels:** Very common “Nordic” type (Baudou, 1960: pp. 23–24, 181–186, Karte VI, under Type VIIC2a. Baudou’s presentation does not distinguish between specimens with an arch-shaped facial facet and those, like the present example, with a facial panel; together he lists 680 examples in the “Nordic” area (not counting loopless examples, those with a larger collar, and those with neck ribs). Tackenberg’s Taf. 8 and 9, Liste 7 and Karte 7 and Kibbert’s Nr. 760–768 and 1005 and Taf. 89 (triangles) may require further sorting out. All the variants are rare outside the North European cultural area.

**Dating:** Mostly Northern Period V; occasionally Period VI (Baudou, 1960; Tackenberg, 1971).

5.6. Italian 2-looped socketed axe with widened, spade-like blade part (Kibbert, 1984: Schaufelblatt Tüllenbeile) (fig. 124)

**Definition:** One- or two looped socketed axes with spade-like blade, often with various ribs patterns (Carancini, 1984: pp. 175–186).

**Dating:** Most of the examples listed by Carancini are from the very large hoard (14,800 objects and fragments!) found at Bologna-San Francesco in 1887; dated by Carancini to Bologna II, VIII Century BC; he dates an example from a pozzo grave in Tuscany, from Montebradoni, to Tarquinia II, also VIII Century. Kibbert has two examples without loops
(Ki 580, 580A), but both with unknown provenance. Otherwise, very rare north of the Alps.

CAT.NO. 812. ECHT, GEMEENTE ECHT, LIMBURG.
L. 12.8; w. 5.6; th. rim 3.4, top of blade part 0.9 cm. Single bulging collar + 1 neck rib; small loop at each side connecting collar and neck rib. Body of rectangular section, expanding into wider blade part, with lugs at junction of body and blade parts. Patina: dark green; upper part corroded. Loamy encrustation inside. Museum Brussels, Inv.No. B.591 (old No. 3577). Acquired 1875, ex coll. Franssen. Metal analysis: Jacobsen An47. (DB 1876)

Map reference: Sheet 60a, 188/346.


Comment: Findspot given as Bee(r)sel, Ned. Limburg by Comhaire.

Parallels: Socketed axes classified by Carancini (1984, pp. 175–177) as asce a cannone con larga spalla spargente tipo San Francesco; especially Variante C: hanno due costolature all’imboccatura e due occhiali laterali (his Cat.Nos 4002–4018, distribution map his Tavola 140).

5.8. Unclassifiable socketed axes (fig. 126–127)

5.8.1. Looped (fig. 126)

CAT.NO. 814. NOORDWOLDE, GEMEENTE WESTSTELLING-WERF, FRIESLAND. In a loop of the (canalised) stream “De Linde”.
Butt part broken off and missing. Present l. 13.3 cm; w. 9 cm. Narrow socket opening, oval/angular in shape. The body widens out greatly. One face is convex, the other convex with side facets. The crescentic cutting edge has recently been re-sharpened. Patina mottled black/dark bronze. The break surface is patinated. Found August-September 1991 with metal detector, 50 cm under grassy surface, by A. Lankman. Private possession, purchased from finder. (DB 908)

Map reference: Sheet 16E, 205.6/548.7.

Parallels and dating: Socketed axes of the Indonesian Bronze-Iron Age (Van Heekeren, 1958: pp. 8–9, Pl. I). Kibbert (Kat.Nr. 920, 921) records a pair of related axes attributed to “Waldalgesheim”, Kr. Mainz-Bingen, Rheinland-Pfalz; he regards the alleged find-spot as very probably false. The Noordwolde specimen is presumably modern import, perhaps by an East India Company employee; how it came to be buried in the ground at its find-spot is unexplained.
Fig. 125. Socketed axe of Indonesian type. 813. Noordwolde, Fr. (drawing HS)

Fig. 126. Unclassifiable socketed axes. 814: Roermond area, Li; 815: Nuenen, N-B (drawing HS).
CAT.NO. 816. HOLST, GEMEENTE POSTERHOLT (NOW GEMEENTE AMBT MONTFORT), LIMBURG.
Documentation: Notebook van der Noordaa, with drawing (1:1?), kindly made available by L. Verhart, conservator RMO Leiden. Below the drawing of the axe, “opening [ ] achtig” (opening rectangular-like).
Map reference: Sheet 68F, c. 200/349.5

CAT.NO. 817. NO PROVENANCE
L. 9.0; w. 4.3 cm. Round mouth opening, formula: 3.5×3.6; 2.7×2.6 cm. Biconical collar, asymmetrical, one neck rib (on one face); body with (_) section, ) ( outline with slightly expanding blade. Prominent casting seams. Cutting edge sharp. Patina: bronze colour, blackish in pits. Museum: Weert, no inv. number, no further information available. (DB 739)

5.9. Fragments of socketed axes, classifiable

CAT.NOS 818–823. DROUWENERVELD, GEMEENTE BORGER, DRENTHE. Parts of 1984 hoard.
The socketed axe fragment Cat.No. 819 has flat-bottomed grooves on the face, which suggest, despite the small size of the fragment, that it belongs to the Tüllenbeile mit geraden Blenden (Baudou, 1960: Type VIIA1, pp. 17–18, Karte 8). The distribution is practically limited to the Danish Islands and Skåne. Fragment Cat.No. 820 apparently comes from one of Baudou’s Tüllenbeile mit Y-förmig verzweigten Blenden (his type VIIA2, pp. 18–19, Karte 9), with a similar distribution. Both of these are very common and characteristic Scandinavian types.
The other socketed axe fragments (Cat.Nos 818, 821–823) are not closely definable as to type. (DB 764–769)

5.9.2. Unclassifiable fragments (fig. 129)

CAT.NO. 824. ELSENERVEEN, GEMEENTE MARKELO, OVERIJssel (from the hoard).
L. (3.4); w. +(4.8) cm. Fragment; expanded blade; vertical hammer fluting on sides. Part of hoard, found March 1846, with a lock-ring, a twisted ring, a ring of thin wire of oval section, and a bracelet.

Note 1: only the fragment of the axe was purchased by the RMO; the other objects were presented to museum Enschede around 1930 by Mr and Mrs Van Dam, who had purchased them from the son of W.K. Louff.

Map reference: Sheet 28D, c. 233/499

Associations: two rings (museum Enschede, Inv.Nos 386, 387) and two bracelets (museum Enschede, Inv.Nos 400, 401).


Note 2: the entire hoard will be discussed in Part IV.

CAT.NO. 825. LINNE, GEMEENTE LINNE, LIMBURG.

Map reference: Sheet 58D, c. 196.05/356.8.


CAT.NO. 826. KRAANVENSCHHE HEIDE, GEMEENTE LOON OP ZAND, NOORD-BRABANT.
L. (2.8); w. 5 cm. Lower fragment (cutting edge) from settlement. We have not seen this fragment. Drawing IPP. (DB 2356)

Map reference: Sheet 44H, c. 132/405

Reference: Roymans & Hiddink, 1991: p. 125, fig. 16.

CAT.NO. 827. MIDDELRODE, GEMEENTE BERLICUM, NOORD-BRABANT.
L. (3.5); w. (3.7); th. (1.6) cm. Fragment socketed axe, blade sharpned. Patina: glossy dark light brown, partly removed; light green in some damaged places. Brown loamy encrustation. Found with metal detector in September 1992. Private possession. (DB 2155)


CAT.NO. 828. GEMEENTE ST.-ODILIËNBERG, LIMBURG.
L. (3.9); w. (1.4) cm. Fragment of socketed axe, cutting edge. Rectangular section; cutting edge sharp. Break patinated. Patina: glossy green. Found in Linne, gemeente Maasbracht, but in ground from St. Odiliënberg. Museum: St. Odiliënberg, Inv.No. 421-1. (DB 2301)

CAT.NO. 829. BEESEL, GEMEENTE BEESEL, LIMBURG. ’t Haselt.
L. (3.2); w. 3.65 cm. Fragment of blade of socketed axe; the base of the socket is present in the break surface. Cutting edge sharp. Patina: light green, corroded. Found with metal detector. Private possession. (DB 2314)

Map reference: Sheet 58E, 201.90/364.80.

CAT.NO. 830. HOOGELOON, GEMEENTE BLADEL, NOORD-BRABANT.
L. + 6.1; w. 5.0 cm. Lower part of socketed axe, rectangular section. Faces and sides slightly convex, cutting edge sharp. Outline faintly ogival. Patina: dark green to blackish. Found with metal detector on a field. Private possession. (DB 2622)


CAT.NO. 831. OOSTEIND, GEMEENTE OOSTERHOUT, NOORD-BRABANT.
L. (6.7); w. 4.55cm. Upper part missing; full break (fully patinated). Body trapeze shaped; rectangular cross section. Cutting edge blunt, slightly damaged. Heavily corroded. Patina: grey greeny and brown. Surface partly peeled off. Heavy scratches. Found with metal detector 25 February 1989 on a ploughed maize field along the border of the stream the Donge, by owner. (DB 897)


CAT.NO. 832. WELL, GEMEENTE WELL, LIMBURG.
L. + 4.1 cm. Lower fragment with vague mid-rib. Found with metal detector along the Maas, on a field at a depth of 25–30 cm, 100 m S. of the bridge to Wanssum. Private possession. (DB 2557)

Map reference: Sheet 52E, 204.3/395.5

Fig. 128. Socketed axe fragments of South Scandinavian origin. 818–823: from the hoard of Drouwenerveld (Dr.).

CAT.NO. 828. GEMEENTE ST.-ODILIËNBERG, LIMBURG.
L. (3.9); w. (1.4) cm. Fragment of socketed axe, cutting edge. Rectangular section; cutting edge sharp. Break patinated. Patina: glossy green. Found in Linne, gemeente Maasbracht, but in ground from St. Odiliënberg. Museum: St. Odiliënberg, Inv.No. 421-1. (DB 2301)

CAT.NO. 829. BEESEL, GEMEENTE BEESEL, LIMBURG. ’t Haselt.
L. (3.2); w. 3.65 cm. Fragment of blade of socketed axe; the base of the socket is present in the break surface. Cutting edge sharp. Patina: light green, corroded. Found with metal detector. Private possession. (DB 2314)

Map reference: Sheet 58E, 201.90/364.80.

CAT.NO. 830. HOOGELOON, GEMEENTE BLADEL, NOORD-BRABANT.
L. + 6.1; w. 5.0 cm. Lower part of socketed axe, rectangular section. Faces and sides slightly convex, cutting edge sharp. Outline faintly ogival. Patina: dark green to blackish. Found with metal detector on a field. Private possession. (DB 2622)


CAT.NO. 831. OOSTEIND, GEMEENTE OOSTERHOUT, NOORD-BRABANT.
L. (6.7); w. 4.55cm. Upper part missing; full break (fully patinated). Body trapeze shaped; rectangular cross section. Cutting edge blunt, slightly damaged. Heavily corroded. Patina: grey greeny and brown. Surface partly peeled off. Heavy scratches. Found with metal detector 25 February 1989 on a ploughed maize field along the border of the stream the Donge, by owner. (DB 897)


CAT.NO. 832. WELL, GEMEENTE WELL, LIMBURG.
L. + 4.1 cm. Lower fragment with vague mid-rib. Found with metal detector along the Maas, on a field at a depth of 25–30 cm, 100 m S. of the bridge to Wanssum. Private possession. (DB 2557)

Map reference: Sheet 52E, 204.3/395.5
Fig. 129. Socketed axe fragments, unclassifiable. 824: Elsenvoorde, Ov; 825: Linne, Li; 826: Kraanvorsche Heide, N-B; 827: Middelrode, N-B; 828: gemeente St.-Odiliënberg, Li; 829: Beesel, Li; 830: Hoogeloon, N-B; 831: Oosteind, N-B; 832: Well, Li; 833: Neer, Li; 834: St.-Joost, Li; 835: de Waatselaar, N-B. (826: drawing IPP; 830–832, 834 drawing HS).
CAT.NO. 833. NEER, GEMEENTE NEER (NOW GEMEENTE HALEN), LIMBURG
L. +8.2; w. 3.6 cm. Lower part of socketed axe, rectangular section. Patina: light green. Private possession. (DB 1941)

CAT.NO. 834. St.-Joost, GEMEENTE ECHT, LIMBURG
Map reference: 109.3/347.2

CAT.NO. 835. DE WAATSELAAR, GEMEENTE BERGHEM, NOORD-BRABANT.
L. (3.3) cm. Fragment socketed axe with loop. In collection Provinciaal Depot Noord-Brabant. Drawing: ROB. (DB 2030)
Map reference: Sheet 45E, c. 167/419

CAT.NO. 836. WESTERLAND, GEMEENTE WIERINGEN, NOORD-HOLLAND. Lutjeland.
Fragment found by owner. We have not seen this fragment. Private possession. No drawing. (DB 2148)
Map reference: Sheet 14E, 123.28/544.87.

5.10. Socketed axes only known from literature

ACHTERBERG, GEMEENTE RHENEN, UTRECHT. De Meent.

POSTERHOLT, GEMEENTE AMBT MONTFORT, LIMBURG

BIEZENMORTEL, GEMEENTE UDENHOUT, NOORD-BRABANT. Grave-hoard.
L. ± 11 cm. Grave or hoard. Three socketed axes found in an urn, 1906. J. v.d. Ven of Udenhout dug up, on the Grote Akkerweide behind the Slijkhoef at Biezenmortel, a large, round brown-coloured urn, at the bottom of which were three metal axes of a length of c. 11 cm and of the type bronze socketed axe. The urn was completely destroyed. The axes were of Beex’s type II (Brabants Heem IV: pp. 96–97). Shortly after finding, the find was turned over to the master of the School, and since then is lost. “Dhr. J. v.d. Ven te Udenhout, groef op de Grote Akkerweide achter de Slijkhoef op Biezenmortel een grote ronde bruinekleurde urn op, waarin zich op de bodem drie metalen bijltjes van c. 11 cm. lang en van het type bronsen kokerbijl bevonden. De urn werd totaal vernietigd bij het uitgraven; de bijltjes waren van Beex’s type II (Beex, Brabants Heem IV: pp. 96–97). De bijlen zijn kort na de vondst overhandigd aan de ‘meester van de school’ en sindsdien verdwenen.” (DB 747–749)

Documentation: Brabants Heem IV, pp. 96097.

EIBERGEN, GEMEENTE EIBERGEN, GELDERLAND
L. 12.5; w. 4.2. According to museum record with profiled mouth mouldings, Lappen, and loop; no further details except the dimensions here cited; no drawing. Found 1884 by a farmer named Nijenhuis at location Vesting or Blenkegoor. Museum: Enschede, Inv.No. 0 371; but unfindable 1998. No drawing. (DB 939)
Documentation: letter A. Verlinde to JJB, 8 June 1998

WEERT, GEMEENTE WEERT, LIMBURG
Desittere (1976: p. 91) states that this axe is a Plainseau-South-eastern axe. Neither further information nor a drawing are available. (DB 962)

VLAGTWEDDERVELDHIRS, GEMEENTE VLAGTWEDDE, GRONINGEN
L. 9.1; w. 5.2 cm. Well preserved looped socketed axe. Found by S. Swarts along a recently ploughed farm land, on the edge of a depression that was always pasture. According to E. Knol (curator of the Groninger Museum) lost since 1963. Description is vague. “Fraaie gave kokerbijl met staand oortje voor extra bevestiging aan de steel. Rand op doorsnede afgerond driehoekig. Hals min of meer bol hexagonaal, met duidelijke gietnaad. Snede waaiervormig uitlopend. Gevonden door S. Swarts langs een laan op pas geploegd bouwland, aan de rand van een laagte, die altijd in groenland lag”, Museum: Groningen, Inv.No. 1949/IX.1. No drawing. (DB 1386)

NIJMEGEN, GEMEENTE NIJMEGEN, GELDERLAND. From River Waal. Socketed axe with imitation wing-ornament according to info from R. Hulst, December 1970. Found in or soon after WWII. No drawing. (DB 2145)

GENNENP, GEMEENTE GENNEP, LIMBURG
Socketed axe recorded in the Archis database of the Rijksdienst voor het Oudheidkundig Bodemonderzoek. One of their informants (Ort) states that on 7 June 1887 Mr Houba purchased a socketed axe in Blerick (”die dhr. Houba in Blerick kocht”). Present locus unknown. (DB 2105)

VENRAY, GEMEENTE VENRAY LIMBURG. Venrayse Brook.
Socketed axe without loop. Found 1910 SW of Smakter Spurkt by someone named Relouw while digging peat. Somehow it came in into the collection of J.A. Donker Duyvis, an artist and collector. Before his death he divided his collection among his interested acquaintances. Present locus unknown. (DB 2106)
Document in the Netherlands (III:2C)

6. CONCLUSIONS

Our study of the most frequent category of bronzes in the Netherlands, the socketed axes, has shown the existence of a strong regional differentiation in the axe production in the eastern half of the Netherlands and neighbouring areas. In the south-east of the country, Niedermaas, Plainseau, Helmeroth and Geistingen socketed axes predominate. In the north-east, types with face arches and with plastic ‘wings’, with multiple neck ribs, and/or with plastic VVV ornament prevail (Maps 10–15). There seems to have been hardly any interchange between the axe products of these two regions, except perhaps in the case of the ‘basic Wesseling’ axes common to both areas (Map 16).

Noteworthy is the scarcity of hard evidence for contact between Britain and the Netherlands in the realm of socketed axe production, if our present assessment of the Plainseau axes in Northern France, Belgium and the South-East of the Netherlands is correct and the scarcity of other British types in the North-East of the Netherlands is taken into account. Only fuller publication of the southern British socketed axes can provide an answer to this question.

Note: Regrettably, the PBF volume of Friedrich Laux, Die Äxte und Beile in Niedersachsen II (Stuttgart, Steiner Verlag, 2006), cataloguing all the socketed axes known in that Land, became available only after the completion of the present study, and could not here be taken into account.

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will be evident from the frequency of our citations of their work on the socketed axes from Britain and Middle West Germany.

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