**The use of Celtic coinage in early Roman London: A re-interpretation of Bloomberg Tablet 31**

ONLINE SUPPLEMENTARY MATERIAL

**Supplementary material**

This supplementary information material includes further data which support assertions made in the main text. These data relate to *quinarius* wear rates, coin weights, assemblages and images of halved and quartered *denarii* recorded by the Portable Antiquities Scheme.

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[**1. Comparative Wear and Weight of *quinarii* Recorded by the Portable Antiquities Scheme** D2](#_Toc80268442)

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[**3. Weight Data and Distributions of ASIA RECEPTA and IMP CAESAR )( CAESAR DIVI F** D12](#_Toc80268444)

[**4. Weight Data and Distribution of Cunobelin “Victory Units”** D21](#_Toc80268445)

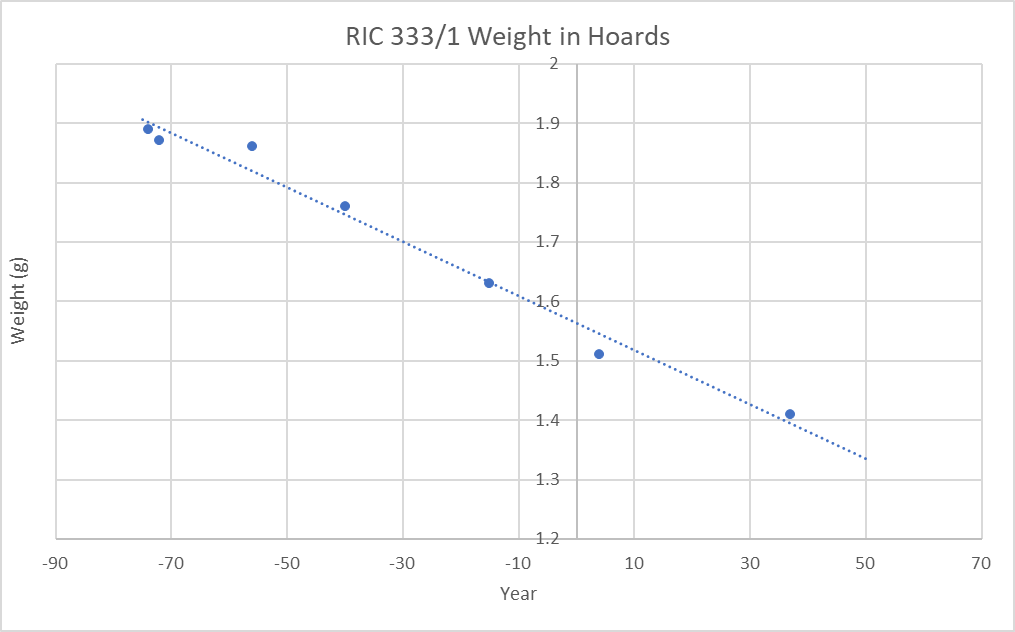
[**5. Weight Data of Epaticcus Silver Unit (VA 581)** D24](#_Toc80268446)

[**6. Assemblages** D26](#_Toc80268447)

# **1.** **Comparative Wear and Weight of *quinarii* Recorded by the Portable Antiquities Scheme**

**RRC 333/1 (C EGNATVLEI C F Q)**

|  |  |  |  |
| --- | --- | --- | --- |
| Hoard | Hoard Closing Date | Number in hoard | Average Weight (g) |
| Pontecorvo | 74 BC | 26 | 1.89 |
| Policoro | 72 BC | 36 | 1.87 |
| Sustinenza | 56 BC | 251 | 1.86 |
| Cisterna di Latina | 40 BC | 1 | 1.76 |
| Gallarate | 15 BC | 4 | 1.63 |
| Vico Pisano | AD 4 | 5 | 1.59 |
| Villeneuve-au-Chatelot | AD 4 | 17[[1]](#footnote-1) | 1.48 |
| Tenuta di Lungezzina | AD 37 | 2 | 1.41 |



**RRC 333/1 Recorded by PAS**

1) **LVPL-D19795**

Weight: Not Supplied



Courtesy of the Portable Antiquities Scheme

No weight data is provided by PAS but its condition clearly demonstrates that it did not remain in circulation for over 150 years. The similar wear of this coin to examples from the Sustinenza[[2]](#footnote-2) and Cisterna di Latina[[3]](#footnote-3) assemblages, with closing dates of 51 and 40 BC respectively suggests a similar date for this example to have left circulation.

2) **YORYM-5C6AA4**

Weight: 1.80g



Courtesy of the Portable Antiquities Scheme

3) **WMID-OAD9B8**

Weight: 1.1g



Courtesy of the Portable Antiquities Scheme

**RRC 341/3 (Q TITI)**

|  |  |  |  |
| --- | --- | --- | --- |
| Hoard | Hoard Closing Date | Number in hoard | Average Weight (g) |
| Pontecorvo | 74 BC | 38 | 2.11 |
| Policoro | 72 BC | 24 | 2.21 |
| Sustinenza | 56 BC | 61 | 1.93 |
| Gallarate | 15 BC | 1 | 1.78 |
| Port-Haliguen (I) | 3 BC | 1 | 1.97 |
| Casteggio | AD 4 | 1 | 1.71 |
| Villeneuve-au-Chatelot | AD 4 | 1 | 1.81 |

Chart, scatter chart

Description automatically generated

**RRC 341/3 Recorded by PAS**

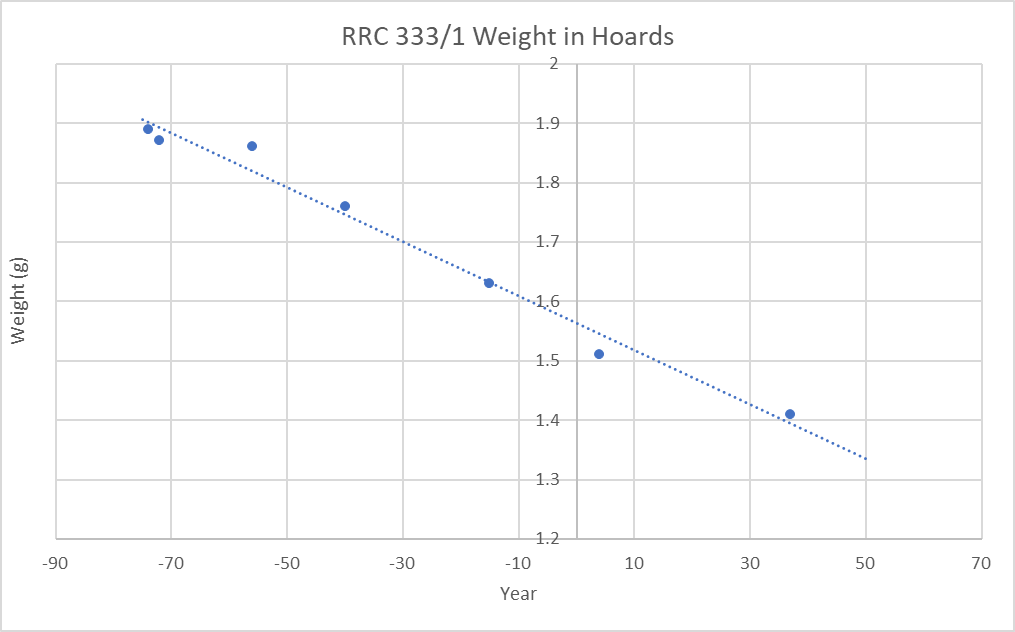
1) **FASAM-2FBEF7**

Weight: 1.06g



Courtesy of the Portable Antiquities Scheme

**RRC 343/2 (M CATO)**



|  |  |  |  |
| --- | --- | --- | --- |
| Hoard | Hoard Closing Date | Number in hoard | Average Weight (g) |
| Pontecorvo | 74 BC | 70 | 2.15 |
| Policoro | 72 BC | 47 | 2.12 |
| Sustinenza | 56 BC | 380 | 2.10 |
| Morgantina | 46 BC | 1 | 2.05 |
| Gallarate | 15 BC | 5 | 1.76 |
| Port-Haliguen (I) | 3 BC | 2 | 1.97[[4]](#footnote-4) |
| Vico Pisano | AD 4 | 7[[5]](#footnote-5) | 1.77 |
| Port-Haliguen (II) | AD 4 | 3 | 1.80 |
| Casteggio | AD 4 | 2 | 1.70 |
| Villeneuve-au-Chatelot | AD 4 | 22[[6]](#footnote-6) | 1.85 |

**RRC 343/2 Recorded by PAS**

1) **IARCW-63DAE1F18D**

Weight: 1.02g

No Image

2) **YORYM-5C3625**

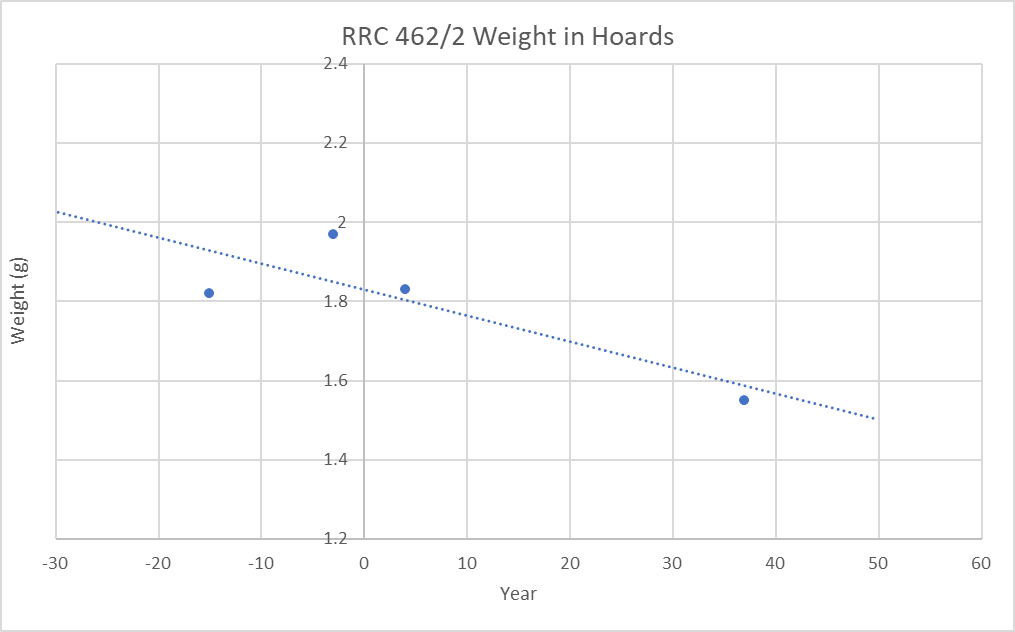
Weight: 1.9g



Courtesy of the Portable Antiquities Scheme

**RRC 462/2 (M CATO PROPR)**

|  |  |  |  |
| --- | --- | --- | --- |
| Hoard | Hoard Closing Date | Number in hoard | Average Weight (g) |
| Gallarate | 15 BC | 1 | 1.82 |
| Port-Haliguen (I) | 3 BC | 2[[7]](#footnote-7) | 1.97 |
| Vico Pisano | AD 4 | 1[[8]](#footnote-8) | 1.94 |
| Casteggio | AD 4 | 1 | 1.83 |
| Villeneuve-au-Chatelot | AD 4 | 7 | 1.81 |
| Tenuta di Lungezzina | AD 37 | 5 | 1.62 |
| Le Mans | AD 37 | 1 | 1.42 |
| Augst | AD 37 | 1 | 1.52 |



**RRC 462/2 Recorded by PAS**

1) **WMID-1DDD04**

Weight: 1.13g



Courtesy of the Portable Antiquities Scheme

2) **Example from Selby (N. Yorks.) (IARCH-6487B0)**

Weight: 1.19g (“broken”)[[9]](#footnote-9)

No Image

**RRC 489/6 (ANTONI IMP III VIR R P C XLI)[[10]](#footnote-10)**

|  |  |  |  |
| --- | --- | --- | --- |
| Hoard | Hoard Closing Date | Number in hoard | Average Weight (g) |
| Vico Pisano | AD 4 | 1 | 1.63 |
| Villeneuve-au-Chatelot | AD 4 | 1 | 1.57 |

**RRC 489/6 Recorded by PAS**

1) **PUBLIC-2EA3F1**

Weight: 1.4g



Courtesy of the Portable Antiquities Scheme

2) **HAMP-EE4687**

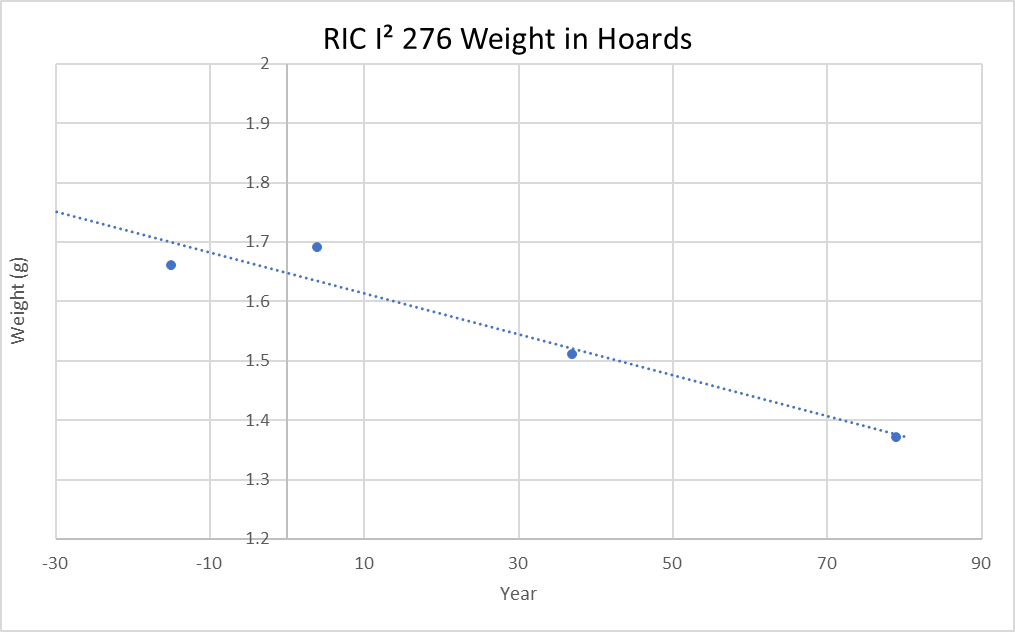
Weight: 1.51g



Courtesy of the Portable Antiquities Scheme

**RIC I² 276 (CAESAR IMP VII)**

|  |  |  |  |
| --- | --- | --- | --- |
| Hoard | Hoard Closing Date | Number in hoard | Average Weight (g) |
| Gallarate | 15 BC | 5 | 1.66 |
| Vico Pisano | AD 4 | 2 | 1.68 |
| Villeneuve-au-Chatelot | AD 4 | 2 | 1.70 |
| Tenuta di Lunghezzina | AD 37 | 2 | 1.51 |
| Pompeii (Regio VIII)[[11]](#footnote-11) | AD 79 | 1 | 1.37 |



**RIC I² 276 Recorded by PAS**

1) **SF6934**

Weight: 1.24g



Courtesy of the Portable Antiquities Scheme

**RIC I² 001 (AVGVST. P CARISI LEG)**

|  |  |  |  |
| --- | --- | --- | --- |
| Hoard | Hoard Closing Date | Number in hoard | Average Weight (g) |
| Port Haliguen (I) | 3 BC | 1 | 1.63 |
| Villeneuve-au-Chatelot | AD 10 | 3 | 1.60 |
| Tenuta di Lunghezzina | AD 37 | 1 | 1.57 |

**RIC I² 001 Recorded by PAS**

1) **HESH-9BE877**

Weight: 1.63g



Courtesy of the Portable Antiquities Scheme

2) **Example from Charlwood (Surrey) (IARCH-49F573)**

?RIC I² 001

Weight: 0.98g (chipped/incomplete)

No image

High Level of Wear

# **2. Halved and Quartered *Denarii* Recorded by the Portable Antiquities Scheme**

A picture containing ax

Description automatically generatedA group of rocks

Description automatically generated with low confidenceA picture containing ax, tool

Description automatically generatedA picture containing ax, tool

Description automatically generatedA picture containing ax

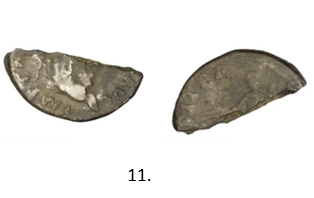
Description automatically generatedA picture containing coin

Description automatically generatedA picture containing coin, different, sliced, several

Description automatically generatedA picture containing ax

Description automatically generatedA picture containing ax, tool

Description automatically generatedA couple of coins

Description automatically generated with low confidenceA picture containing ax

Description automatically generatedA picture containing coin

Description automatically generatedA picture containing ax

Description automatically generatedA picture containing ax, tool

Description automatically generatedA picture containing ax, tool

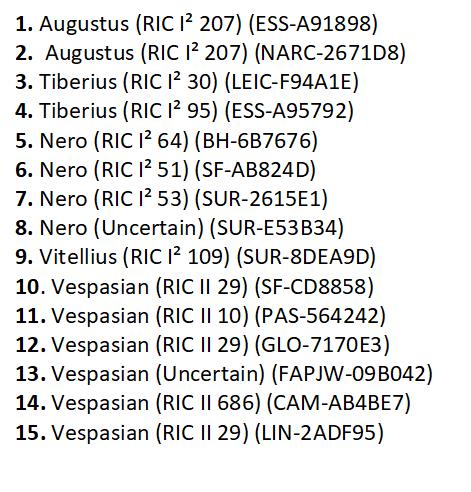
Description automatically generatedA picture containing ax, tool

Description automatically generatedA picture containing ax, tool

Description automatically generated

A picture containing ax

Description automatically generated

****A picture containing ax

Description automatically generatedA picture containing ax

Description automatically generated

All images Courtesy of the Portable Antiquities Scheme

# **3.** **Weight Data and Distributions of ASIA RECEPTA and IMP CAESAR )( CAESAR DIVI F**

**RIC I² 276 (ASIA RECEPTA)**

|  |  |  |
| --- | --- | --- |
| **Museum ID** | **Weight (g)** |  |
| BM 2002,0102.5020 | 1.81 | \* |
| BM R.6174 | 1.75 | \* |
| BM R.6173 | 1.92 | \* |
| BM R.348 | 1.42 |  |
| BM 2002,0102.5425 | 1.65 |  |
| BM 1866,1201.4182 | 1.81 | \* |
| SMB 18204721 | 1.71 | \* |
| SMB 18202447 | 1.69 | \* |
| SMB 18207825 | 1.76 | \* |
| SMB 18207827 | 1.52 | \* |
| SMB 18207828 | 1.57 | \* |
| SMB 18207829 | 1.54 |  |
| SMB 18207830 | 1.82 | \* |
| SMB 18207831 | 1.52 |  |
| ANS 1944.100.39162 | 1.57 | \* |
| ANS 1978.64.390 | 1.58 | \* |
| ANS 1944.100.39161 | 1.76 | \* |
| ANS 1995.11.1644 | 1.61 | \* |
| ANS 1963.237.58 | 1.66 | \* |
| ANS 1937.158.450 | 1.86 | \* |
| ANS 1984.88.14 | 1.45 |  |
| ANS 1931.119.2 | 1.73 | \* |
| ANS 1944.100.39160 | 1.74 | \* |
| ANS 1896.8.2 | 1.59 |  |
| ANS 1909.78.23 | 1.78 | \* |
| ANS 1984.88.13 | 1.66 | \* |
| ANS 1978.64.389 | 1.13 |  |
| ANS 1974.26.6180 | 1.833 |  |
| Mainz ID266 | 1.79 |  |
| Gottingen UK-00198 | 1.776 | \* |
| Gottingen AS-00640 | 1.628 | \* |
| Gottingen AS-00642 | 1.618 |  |
| Gottingen AN-0132 | 1.638 |  |
| Gottingen AS-00641 | 1.481 |  |
| Gottingen UK-00199 | 1.706 |  |
| Boston 01.5086 | 1.55 | \* |
| Boston 32.560 | 1.8 | \* |
| ASH 237 | 1.45 |  |
| ASH 238 | 1.91 |  |
| ASH 239 | 1.55 |  |
| ASH 240 | 1.65 |  |
| ASH 241 | 1.62 | \* |
| ASH 242 | 1.75 |  |
| ASH 244 | 1.71 |  |
| ASH 245 | 1.51 |  |
| ASH 246 | 1.54 |  |
| ASH 247 | 1.51 |  |
| ASH 248 | 1.45 | \* |
| ASH 251 | 1.48 |  |
| ASH 252 | 1.53 | \* |
| ASH 254 | 1.43 |  |
| Hunterian C 3637 | 1.66 | \* |
| Hunterian 270 | 1.64 | \* |
| Paris 899 | 1.81 | \* |
| Paris 900 | 1.72 |  |
| Paris 901 | 1.51 | \* |
| Paris 902 | 1.8 | \* |
| Paris 903 | 1.64 | \* |
| Paris 904 | 1.6 |  |
| HRV 1942.176.60 | 1.56 |  |
| HRV 1976.79.1050 | 1.66 |  |
| HRV 1977.216.3445.18 | 1.74 |  |
| HRV 1986.528.241 | 1.67 |  |
| Bochum M 2439 | 1.55 |  |
| Bochum M 2440 | 1.55 | \* |
| Ingolstadt 353 | 1.69 |  |
| Erlangen H 296 | 1.57 |  |
| Frankfurt 65a | 2 |  |
| Freiburg 00438 | 1.48 |  |
| Freiburg 00439 | 1.44 |  |
| Freiburg 00440 | 1.45 |  |
|  |  |  |
| **Mean** | **1.64** |  |
| **Median** | **1.64** |  |
| **Mean (Finest)** | **1.69** |  |
| **Median (Finest)** | **1.7** |  |

\* Least worn examples

**IMP CAESAR )( CAESAR DIVI F Museum Weights**

|  |  |  |
| --- | --- | --- |
| **RIC I²** | **Museum ID** | **Weight (g)** |
| **250a** | SMB 18207003 | 3.7 |
|  | BM R.6153 | 3.56 |
|  | BM R.6154 | 3.25 |
|  | BM 2002,0102.5001 | 3.65 |
|  | Bochum M 3006 | 3.65 |
|  | ASH 197 | 3.67 |
|  | ASH 198 | 3.79 |
| **250b** |  |  |
|  | MUN 16-00003 | 3.54 |
|  | SMB 18207004 | 3.53 |
|  | BM R.6155 | 3.65 |
|  | ASH 199 | 3.74 |
| **251** |  |  |
|  | ANS 1944.100.39143 | 3.99 |
|  | ANS 1948.19.1036 | 3.85 |
|  | Mainz ID218 | 3.54 |
|  | SMB 18202444 | 4.02 |
|  | SMB 18207007 | 3.82 |
|  | SMB 18202445 | 3.88 |
|  | BM 2002,0102.5004 | 3.73 |
|  | BM R.6161 | 3.71 |
|  | BM 2002,0102.5003 | 3.87 |
|  | BM 1866,1201.4185 | 3.74 |
|  | Freiburg ID1366 | 3.68 |
|  | ASH 196 | 3.58 |
| **252** |  |  |
|  | ANS 1944.100.39140 | 3.8 |
|  | ANS 1944.100.39141 | 3.85 |
|  | ANS 1996.4.1 | 3.52 |
|  | ANS 1937.158.437 | 3.89 |
|  | ANS 1947.2.411 | 3.79 |
|  | ANS 1944.100.39142 | 3.57 |
|  | Graz 212 | 3.79 |
|  | SMB 18206999 | 3.66 |
|  | SMB 18206998 | 3.9 |
|  | BM 1868,0514.62 | 3.92 |
|  | BM R.6160 | 3.34 |
|  | BM 1901,0407.456 | 4.02 |
|  | BM R.6159 | 3.72 |
|  | BM 2002,0102.5002 | 3.91 |
|  | Freiburg ID1367 | 3.76 |
|  | Wien ID 567 | 3.68 |
|  | ASH 194 | 3.79 |
| **253** |  |  |
|  | ANS 1937.158.438 | 3.76 |
|  | ANS 1985.140.24 | 3.6 |
|  | ANS 1967.153.108 | 3.85 |
|  | Fitz CM.576-1960 | 3.53 |
|  | Graz 977 | 3.98 |
|  | SMB 18207006 | 3.76 |
|  | SMB 18207005 | 3.45 |
|  | BM 1866,1201.4184 | 3.88 |
|  | BM 1866,1201.4188 | 4.06 |
|  | BM 1841,0916.15 | 3.61 |
|  | BM 1860,0328.112 | 3.98 |
|  | BM 2002,1012.5005 | 3.93 |
|  | Bochum ID347 | 3.77 |
| **254a** |  |  |
|  | MUN 16-00004 | 3.61 |
|  | SMB 18206997 | 3.44 |
|  | BM R.6156 | 3.72 |
|  | Wien ID568 | 3.76 |
|  | ASH 191 | 3.54 |
| **254b** |  |  |
|  | Mainz ID426 | 3.78 |
|  | Wien ID56587 | 3.93 |
|  | SMB 18202353 | 3.95 |
|  | SMB 18206995 | 3.71 |
|  | SMB 18206993 | 3.76 |
|  | SMB 18206994 | 3.92 |
|  | WWU ID497 | 3.8 |
|  | ASH 192 | 3.66 |
| **255** |  |  |
|  | ANS 1948.19.1035 | 3.86 |
|  | SMB 18202355 | 3.91 |
|  | BM R.6158 | 3.93 |
| **256** |  |  |
|  | ANS 1944.100.39145 | 3.91 |
|  | ANS 1937.158.439 | 3.73 |
|  | ANS 1944.100.39144 | 3.28 |
|  | SMB 18207002 | 3.77 |
|  | SMB 18202371 | 3.65 |
|  | BM R.6162 | 3.67 |
|  | BM 2002,0102.5006 | 3.6 |
|  | WWU ID149 | 3.71 |
|  | ASH 190 | 3.92 |
| **257** |  |  |
|  | ANS 1944.100.39137 | 3.85 |
|  | ANS 1911.105.423 | 3.73 |
|  | ANS 1957.172.1498 | 3.91 |
|  | ANS 1905.57.283 | 3.44 |
|  | ANS 1941.131.679 | 3.88 |
|  | Graz 311 | 3.61 |
|  | SMB 18206991 | 3.8 |
|  | SMB 18206989 | 3.22 |
|  | BM 1984,0222.1 | 3.54 |
|  | BM 1866,1201.4178 | 3.06 |
|  | BM R.6152 | 3.65 |
|  | BM 2002,0102.5000 | 3.6 |
|  | BM R.6151 | 3.71 |
|  | BM 1994,0915.242 | 3.7 |
|  | Bochum ID348 | 3.44 |
|  | Freiburg ID1368 | 3.6 |
|  | ASH 201 | 4.01 |
|  | ASH 202 | 3.82 |
|  | ASH 203 | 3.69 |
|  | ASH 204 | 3.44 |
|  | ASH 205 | 3.51 |
| **263** |  |  |
|  | HAR 1942.176.59 | 3.62 |
|  | BM R.6163 | 3.78 |
| **264** |  |  |
|  | ANS 1937.158.441 | 3.74 |
|  | ANS 1941.131.680 | 3.08 |
|  | ANS 1937.158.440 | 3.99 |
|  | ANS 1944.100.39146 | 3.88 |
|  | Mainz ID223 | 3.88 |
|  | Gottingen AS-00635 | 3.76 |
|  | SMB 18207258 | 3.98 |
|  | SMB 18207256 | 4 |
|  | SMB 18207257 | 4.17 |
|  | SMB 18207259 | 3.72 |
|  | BM 1901,0407.459 | 3.98 |
|  | BM 1848,0126.8 | 4 |
|  | BM 1901,0407.458 | 3.84 |
|  | BM R.6164 | 3.69 |
|  | BM 1844,0425.426 | 3.83 |
|  | BM 2002,0102.5007 | 3.79 |
|  | Bochum ID349 | 3.99 |
|  | Freiburg ID8209 | 3.76 |
|  | Kiel ID202 | 2.81 |
|  | Wien ID569 | 3.83 |
| **265a** |  |  |
|  | ANS 1937.158.443 | 3.98 |
|  | ANS 1948.19.1037 | 3.36 |
|  | ANS 1995.11.1643 | 3.58 |
|  | ANS 1937.158.444 | 3.84 |
|  | ANS 1944.100.39149 | 3.9 |
|  | ANS 1941.131.681 | 3.57 |
|  | AMS 1957.172.1502 | 3.94 |
|  | Mainz ID220 | 3.79 |
|  | Gottingen AS-00636 | 3.48 |
|  | SMB 18202360 | 3.87 |
|  | SMB 18207260 | 3.91 |
|  | SMB 18202361 | 3.72 |
|  | NYM 08.170.89 | 3.8 |
|  | BM R.6165 | 3.97 |
|  | BM 2002,0102.5009 | 3.99 |
|  | Freiburg ID1356 | 3.55 |
|  | Kiel ID5 | 3.45 |
| **265b** |  |  |
|  | ANS 1957.172.1503 | 3.75 |
|  | SMB 18207264 | 3.57 |
|  | SMB 18207265 | 3.36 |
|  | BM 1901,0407.460 | 3.69 |
|  | BM 2002,0102.5010 | 3.83 |
|  | BM 1844,0425.423 | 3.6 |
| **266** |  |  |
|  | ANS 1960.170.201 | 3.71 |
|  | ANS 1937.158.446 | 4.02 |
|  | ANS 1953.171.396 | 3.37 |
|  | ANS 1944.100.39151 | 3.92 |
|  | ANS 1944.100.39152 | 3.87 |
|  | ANS 1957.172.1505 | 3.68 |
|  | ANS 1935.117.355 | 3.73 |
|  | Mainz ID224 | 3.73 |
|  | SMB 18207251 | 3.75 |
|  | SMB 18207252 | 3.61 |
|  | SMB 18207250 | 3.72 |
|  | SMB 18202364 | 3.81 |
|  | BM 1904,0203.1 | 3.65 |
|  | BM R.6167 | 3.95 |
|  | BM 2002,0102.5013 | 3.91 |
|  | Wien ID570 | 3.69 |
|  | Wien ID571 | 3.61 |
| **267** |  |  |
|  | ANS 1957.172.1500 | 3.68 |
|  | ANS 1957.172.1501 | 3.61 |
|  | ANS 1923.150.72 | 3.52 |
|  | ANS 1944.100.39148 | 3.85 |
|  | ANS 1937.158.442 | 3.45 |
|  | Mainz ID427 | 3.54 |
|  | Gottingen AS-00637 | 3.85 |
|  | Gottingen UK-00197 | 3.98 |
|  | SMB 18202359 | 3.9 |
|  | SMB 18207268 | 3.98 |
|  | SMB 18207281 | 3.62 |
|  | SMB 18207280 | 3.73 |
|  | SMB 18202358 | 3.72 |
|  | SMB 18207267 | 3.83 |
|  | NYM 08.170.88 | 3.9 |
|  | BM 1988,0627.1033 | 2.75 |
|  | BM 1843,1024.244 | 3.78 |
|  | BM 2002,0102.5008 | 3.65 |
|  | BM 1843,1024.244 | 2.87 |
|  | BM 1843,1024.244 | 3.78 |
|  | Bochum ID350 | 3.65 |
|  | Freiburg ID1371 | 3.7 |
| **269a** |  |  |
|  | ANS 1944.100.39150 | 3.67 |
|  | ANS 1985.140.26 | 3.58 |
|  | ANS 1957.172.1504 | 3.84 |
|  | ANS 1937.158.445 | 3.66 |
|  | SMB 18207289 | 3.31 |
|  | SMB 18207288 | 3.63 |
|  | SMB 18207285 | 3.71 |
|  | SMB 18207287 | 3.5 |
|  | SMB 18207286 | 3.46 |
|  | BM R.6166 | 3.8 |
|  | BM 1915,0407.17 | 3.79 |
|  | BM 2002,0102.5011 | 3.9 |
| **269b** |  |  |
|  | BM 1901,0407.457 | 3.54 |
|  | BM 2002,0102.5012 | 3.79 |
| **270** |  |  |
|  | ANS 1944.100.39155 | 3.85 |
|  | ANS 1954.203.150 | 3.69 |
|  | ANS 1957.172.1507 | 3.73 |
|  | SMB 18207283 | 3.54 |
|  | SMB 18202368 | 3.72 |
|  | BM 2002,0102.5016 | 3.92 |
|  | Freiburg ID1372 | 3.39 |
| **271** |  |  |
|  | ANS 1944.100.39153 | 3.62 |
|  | ANS 1957.172.1506 | 3.83 |
|  | ANS 1937.158.448 | 3.83 |
|  | ANS 1948.19.1039 | 3.91 |
|  | ANS 1947.2.412 | 3.57 |
|  | ANS 1937.158.447 | 3.97 |
|  | Mainz ID221 | 3.31 |
|  | SMB 18207254 | 3.04 |
|  | SMB 18202362 | 3.8 |
|  | SMB 18207253 | 3.4 |
|  | BM 1867,0101.1274 | 3.56 |
|  | BM R.6168 | 4.1 |
|  | BM 2002,0102.5014 | 3.93 |
|  | BM 1866,1201.4181 | 4.1 |
|  | BM R.6169 | 3.56 |
|  | BM 2002,0102.5015 | 3.85 |
|  | BM 1994,0915.243 | 3.72 |
|  | Freiburg ID1373 | 3.54 |
| **272** |  |  |
|  | ANS 1973.999.49 | 3.76 |
|  | ANS 1944.100.39156 | 3.92 |
|  | ANS 1937.158.449 | 3.88 |
|  | ANS 1944.100.39157 | 3.68 |
|  | ANS 1948.19.1038 | 3.92 |
|  | ANS 1947.2.413 | 3.64 |
|  | Mainz ID222 | 3.87 |
|  | Gottingen AS-00639 | 3.80 |
|  | SMB 18202443 | 3.74 |
|  | SMB 18207282 | 3.77 |
|  | BM 1866,1201.4183 | 3.88 |
|  | BM 2002,0102.5017 | 4.01 |
|  | BM 1988,0627.1027 | 3.34 |
|  | BM R.6171 | 3.8 |
|  | BM 1904,0204.82 | 3.66 |
|  | BM 1904,0204.83 | 3.75 |
|  | BM 1860,0328.110 | 3.84 |
|  | Freiburg ID8211 | 3.63 |
|  | Wien ID572 | 3.63 |
| **274** |  |  |
|  | ANS 1944.100.39158 | 3.81 |
|  | ANS 1893.5.11 | 3.56 |
|  | ANS 1947.2.414 | 3.51 |
|  | SMB 18207291 | 3.89 |
|  | SMB 18207292 | 3.8 |
|  | SMB 18207293 | 3.17 |
|  | SMB 18207294 | 3.62 |
|  | BM 1841,0726.1086 | 3.41 |
|  | BM 1946,1004.82 | 3.7 |
|  | BM 2002,0102.5018 | 3.76 |
|  | BM R.6172 | 3.73 |
|  | BM 2002,1012.5019 | 3.92 |
|  | BM 1841,0916.5 | 3.88 |
|  | BM 1985,0421.26 | 3.7 |
|  | Freiburg 8212 | 3.66 |
|  | Wien ID573 | 3.57 |
|  |  |  |
|  | **Mean** | **3.67** |
|  | **Median** | **3.73** |

**ANS**: American Numismatic Society

**ASH**: Ashmolean Museum, Oxford

**Bochum**: Coin Collection of Ruhr-Universitat Bochum

**BM**: British Museum, London

**Boston**: Museum of Fine Arts, Boston

**Erlangen:** Coin collections of the Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)

**Frankfurt:** Coin Collections of the Goethe University, Frankfurt am Main

**Freiburg:** Münzsammlung des Seminars für Alte Geschichte der Albert-Ludwigs-Universität

**Gottingen**: Münzkabinett der Universität Göttingen

**HRV**: Harvard Art Museums

**Hunterian**: The Hunterian Museum, Glasgow

**Ingolstadt**: Coin Collection of the Professorship for Ancient History at the University of Eichstaett-Ingolstadt

**Mainz:** Johannes Gutenberg-Universitat

**MUN:** Staatliche Munzsammlung Munchen

**NYM**: Metropolitan Museum of Art, New York

**Paris**: Biblioteque Nationale de France, Paris

**SMB**: Staatlichen Museen zu Berlin

**Wien:** Institut für Numismatik und Geldgeschichte

**WWU:** Archäologisches Museum der Westfälischen Wilhelms-Universität, Munster

# **4.** **Weight Data and Distribution of Cunobelin “Victory Units”[[12]](#footnote-12)**

**VA 2045**

|  |  |
| --- | --- |
| **PAS ID** | **Weight (g)** |
| ESS-3A1970 | 1.3 |
| ESS-42A011 | N/A |
| NMGW-F3F776 | 1.2 |
| CCI-93001 | 1.19 |
| CCI-00886 | 1.26 |
| CCI-30137 | 1.15 |
| CCI-30472 | N/A |
| CCI-40742 | 1.11 |
| CCI-40987 | N/A |
| CCI-670172 | 1.18 |
| CCI-680399 | 1.24 |
| CCI-690389 | 1.29 |
| CCI-720124 | 0.79 |
| CCI-920996 | 1.22 |
| CCI-930012 | 1.22 |
| CCI-930925 | 1.32 |
| CCI-940804 | 1.21 |
| CCI-941235 | 1.26 |
| CCI-962595 | N/A |
| CCI-963315 | 1.21 |
| CCI-810074 | 1.35 |
| CCI-982185 | 1.24 |
| CCI-982326 | N/A |
| CCI-990317 | 1.2 |
| CCI-981157 | 1.2 |
| CCI-982004 | 1.24 |
| **De Jersey (2001) ID** | **Weight (g)** |
| 67.0172 | 1.18 |
| 68.0399 | 1.24 |
| 68.04 | 1.28 |
| 68.0401 | 1.18 |
| 69.0389 | 1.29 |
| 81.0074 | 1.35 |
| 92.0996 | 1.22 |
| 93.0010 | 1.19 |
| 93.0012 | 1.22 |
| 93.0925 | 1.32 |
| 94.0804 | 1.21 |
| 96.3315 | 1.21 |
| 98.1157 | 1.2 |
| 98.2004 | 1.24 |
| 98.2185 | 1.24 |

**BMC 1883**

|  |  |
| --- | --- |
| **PAS ID** | **Weight (g)** |
| BM-E58BCF | 1.18 |
| OXON-411B63 | 1.35 |
| PAS-167156 | 1.2 |
| BUC-12DA24 | 1.3 |
| BERK-85E093 | 1.3 |
| CCI-01418 | N/A |
| CCI-10732 | 1.28 |
| CCI-2012 | 1.04 |
| CCI21142 | 1.31 |
| CCI-30709 | 1.16 |
| CCI-31318 | 1.35 |
| CCI-40005 | 1.31 |
| CCI-920155 | 1.04 |
| CCI-930929 | 1.27 |
| CCI-941427 | 1.18 |
| CCI-950949 | 1.23 |
| CCI-952923 | N/A |
| CCI-963154 | 1.17 |
| CCI-963283 | 0.96 |
| CCI-963454 | 1.25 |
| CCI-96362 | 1.09 |
| CCI-970042 | 1.25 |
| CCI-830272 | 1.21 |
| CCI-860072 | 1.34 |
| CCI-860404 | 1.24 |
| CCI-890017 | 1.24 |
| CCI-930652 | 1.28 |
| CCI-991379 | 1.28 |
| CCI-980713 | 1.16 |
| CCI-981261 | 1.29 |
| CCI-982061 | N/A |
| CAM-B48C02 | 1.2 |
| LEIC-5E9416 | 1.19 |
| BUC-B8075D | 1.31 |
| NARC-3B2460 | N/A |
| BERK-223811 | 1.13 |
| **De Jersey (2001) ID** | **Weight (g)** |
| 83.0272 | 1.21 |
| 86.0072 | 1.34 |
| 86.0404 | 1.24 |
| 89.0017 | 1.24 |
| 92.0155 | 1.04 |
| 93.0652 | 1.28 |
| 93.0929 | 1.27 |
| 94.0718 | 1.26 |
| 94.1427 | 1.18 |
| 95.0949 | 1.23 |
| 95.3332 | 1.32 |
| 96.3154 | 1.17 |
| 96.3283 | 0.96 |
| 96.3454 | 1.25 |
| 96.362 | 1.09 |
| 97.0042 | 1.25 |
| 98.1261 | 1.29 |

# 

# **5.** **Weight Data of Epaticcus Silver Unit (VA 581)**

|  |  |
| --- | --- |
| Identification Number | Weight (g) |
| BM 1988,0627.778 | 1.33 |
| BM 1988,0627.88 | 1.15 |
| BM 1988,0627.795 | 1.34 |
| BM 1988,0627.794 | 1.23 |
| BM 1988,0627.782 | 1.27 |
| BM 1978,0108.168 | 1.02 |
| BM 1978,0108.165 | 1.08 |
| BM 1978,0108.161 | 1.17 |
| BM 1978,0108.166 | 1.04 |
| BM 1988,0627.791 | 1.15 |
| BM 1978,0108.162 | 1.13 |
| BM 1978,0108.167 | 1.25 |
| BM 1978,0108.158 | 1.01 |
| BM 1978,0108.163 | 1.17 |
| BM 1954,0703.1 | 1.22 |
| BM 1978,0108.160 | 0.84 |
| BM 1988,0627.789 | 1.31 |
| BM 1988,0627.786 | 1.1 |
| BM 1988,0627.790 | 1.2 |
| BM 1988,0627.777 | 0.86 |
| BM 1988,0627.775 | 1.01 |
| BM 1988,0627.783 | 1.27 |
| BM 1978,0108.164 | 1.1 |
| BM 1988,0627.779 | 1.14 |
| BM 1988,0627.774 | 1.01 |
| BM 1978,0108.159 | 1.23 |
| BM 1988,0627.785 | 1.15 |
| BM 1988,0627.787 | 1.43 |
| BM 1988,0627.781 | 1.31 |
| BM 1988,0627.793 | 1.14 |
| BM 1988,0627.780 | 1.09 |
| BM 1988,0627.784 | 1.12 |
| BM 1973,0803.1 | 1.13 |
| BM 1988,0627.792 | 1.25 |
| NORTH C345 | 1.28 |
| NORTH AGA53 | 1.3 |
| NMW 80.4H/5 | 1.19 |
| NMW 77.18H/1 | 1.28 |
| PAS GLO-53715E | 1.21 |
| PAS HAMP-BD27C2 | 1.08 |
| PAS SUR-F30F51 | 1.15 |
| PAS SUR-FE6330 | 1.25 |
| PAS BERK-F60BE4 | 1.2 |
| PAS BUC-63E7D3 | 1.4 |
| CCI-00141 | 1.24 |
| CCI-00518 | 1.15 |
| CCI-11982 | 1.26 |
| CCI-20445 | 1.25 |
| CCI-30312 | 1.3 |
| CCI-30395 | 1.23 |
| CCI-31069 | 0.91 |
| CCI-42401 | 1.2 |
| CCI-640048 | 1.1 |
| CCI-690333 | 1.22 |
| CCI-780017 | 1.13 |
| CCI-780018 | 1.13 |
| CCI-810044 | 1.22 |
| CCI-810045 | 1.08 |
| CCI-810046 | 1.23 |
| CCI-810047 | 1.08 |
| CCI-820199 | 0.92 |
| CCI-870004 | 0.98 |
| CCI-870709 | 1.25 |
| CCI-87071 | 1.17 |
| CCI-900738 | 1.3 |
| CCI-963037 | 1.27 |
| CCI-970822 | 1.23 |
| CCI-970823 | 1.24 |
| CCI-930732 | 1.25 |
| CCI-940071 | 1.26 |
| CCI-940968 | 1.3 |
| CCI-950635 | 0.95 |
| CCI-951284 | 1.09 |
| CCI-971625 | 1.27 |
| CCI-980729 | 1.2 |
| CCI-982095 | 1.3 |
| CCI-990655 | 1.21 |
| CCI-991202 | 1.09 |
| PAS BERK-123197 | 1.3 |
| **Mean** | **1.18** |

BM – British Museum

NMW – National Museum of Wales

NORTH – Northover 1992

CCI – Celtic Coin Index

PAS – Portable Antiquities Scheme

# **6. Assemblages**

1) Pontecorvo (1923) (Frosinone, Italy)

Contents: 942 AR *denarii,* 1 AR *victoriatus,* 290 AR *quinarii*.

Closing Date: 74 BC[[13]](#footnote-13)

Reference: Pozzi 1962

2) Policoro (1968) (Matera, Italy)

Contents: 302 AR *denarii*, 232 AR *quinarii*

Closing Date: 72 BC

Reference: Siciliano 1974–1975.

3) Sustinenza, Casaleone (1888) (Mantova, Italy)

Contents: 65 AR *denarii,* 1052 AR *quinarii,*1 AE *as* (?stopper)

Closing Date: 56 BC

Reference: Modonesi 2001; with additional information from T.R. Volk.

4) Sustinenza, Casaleone (1901) (Mantova, Italy)

Contents: 714 AR *denarii*, 315 AR *quinarii*, 1 AE *as* (?stopper)

Closing Date: 51 BC

Reference: Modonesi 2001[[14]](#footnote-14); with additional information from T.R. Volk.

5) Morgantina (1959) (Enna, Sicily)

Contents: 8 AR *denarii* (including one of Juba I)*,* 1 AR *quinarius*, 1 AE of Massalia

Closing Date: 46 BC

Reference: Walthall 2013

6) Cisterna di Latina (1952) (Latina, Italy)

Contents: 506 AR *denarii,* 1 AR *quinarius*

Closing Date: 40 BC

Reference: Nicolai 2000

7) Warminster (1994-5) (Wiltshire, England)

Contents: 12 AR *denarii*

Closing Date: 31 BC

Reference: Meadows and Robinson 1997

8) Raydon (1995) (Suffolk, England)

Contents: 5 AR *denarii*

Closing Date: 6 BC

Reference: Newman 1997

9) Port Haliguen (I), Quiberon (1951) (Bretagne, France)

Contents: 4 AR *denarii*, 10 AR *quinarii,* 8 Republican AE *asses,* 359 Augustan *asses*, 38 Nemausus *asses,* 27 halved *asses*, 4 AR Gallic

Closing Date: 3 BC

Reference: Giard 1967

10) Port-Haliguen (II), Quiberon (1985) (Morbihan, France)

Contents: 2 AR *denarii,* 5 AR *quinarii,* 102 AE *asses*, 2 AV Gallic staters , 1 AR Gallic “quinarius"

Closing Date: AD 4[[15]](#footnote-15)

Reference: Goulpeau 1985

11) Vico Pisano (1913) (Pisa, Italy)

Contents: 170 AR *denarii,* 25 AR *quinarii*

Closing Date: AD 4

Reference: Sorge, Catalli, and Catalli 2008

12) Gallarate (1929) (Varese, Italy)

Contents: 27 AR *denarii,* 24 AR *quinarii*

Closing Date: AD 4

Reference: Dibernardi 2013

13) Casteggio (1930) (Pavia, Italy)

Contents: 36 AR *denarii* (of which three halved)*,* 13 AR *quinarii*

Closing Date: AD 4

Reference: Vismara 2002

14) Villeneuve-au-Chatelot (1973) (Aube, France)

Contents: 141 AR *denarii*, 93 AR *quinarii*, 9 AE Rome, 558 AE Lugdunum *asses*, 11 Lugdunum *quadrantes,* 5 AE provincial *dupondii/asses*, 366 AE Nemausus *asses* (including halved issues), 41 AR Gallic, 14 AE Gallic.

Closing Date: AD 4

Reference: Zehnacker, Richard and Barrandon 1984

15) Lakenheath (1959) (Suffolk, England)

Contents: 76 AR *denarii*, 3 AV Celtic, 412 AR Celtic

Closing Date: AD 34

Reference: Bristow *et al.* 1959

16) Le Mans (1985) (Sarthe, France)

Contents: 5 AV *aurei,* 45 AR *denarii*, 3 AR *quinarii*, 1 AR *drachm* (Apollonia, Illyria)

Closing Date: AD 37

Reference: Amandry and Aubin 1993

17) Tenuta di Lunghezzina (1995) (Roma, Italy)

Contents: 1 AV *aureus,* 1 AV *quinarius,* 77 AR *denarii,* 12 AR *quinarii*, 1 AR *victoriatus*

Closing Date: AD 37

Reference: Bufalini 2005

18) Woolland (1993) (Dorset, England)

Contents: 16 AR *denarii*

Closing Date: AD 37

Reference: Bland 1997

19) Membury (1988) (Wiltshire, England)

Contents: 252 AR *denarii*

Closing Date: AD 37

Reference: Howgego and King 1992; Orna-Ornstein 1997b

20) Woodham Mortimer (1991) (Essex, England)

Contents: 189 AR *denarii*

Closing Date: AD 37

Reference: Hobbs 1992

21) Norton Subcourse (1982-1986) (Norfolk, England)

Contents: 97 AR *denarii*, 3 AR Celtic

Closing Date: AD 42

Reference: Burnett and Gregory 1988

22) Old Buckenham (1994) (Norfolk, England)

Contents: 14 AR *denarii*

Closing Date: AD 45

Reference: Davies 1997a

23) Wanborough Temple (1983) (Surrey, England)

Contents: 978 Celtic, 63 AR *denarii*

Closing Date: c. AD 50

Reference: Cheeseman 1994

24) Augst (1989) (Basel, Switzerland)

Contents: 3 AR *denarii*, 1 AR *quinarius*, 1 AE *dupondius*, 1 AE *as* (imitation)

Closing date: AD 54 (although imitation may be later)

Reference: Peter 1990

25) Scole (1982-3) (Norfolk, England)

Contents: 87 AR *denarii*, 202 AR Celtic

Closing Date: AD 61

Reference: Burnett 1986a

26) Needham (1992) (Norfolk, England)

Contents: 29 *denarii*

Closing Date: AD 64

Reference: Davies, Meadows and Williams 1997

27) Selby (1997) (North Yorkshire, England)

Contents: 8 AR *denarii*, 6 AE

Closing Date: AD 68

Reference: Barclay 2001

28) Skellow (1994) (South Yorkshire, England)

Contents: 267 AR *denarii*

Closing Date: AD 81

Reference: Crawley and Meadows 1997

29) Howe (1982) (Norfolk, England)

Contents: 14 AV *aurei*, 121 AR *denarii*

Closing Date: AD 87

Reference: Burnett 1986b;1988; Davies 1997b

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1. Weights used only from 12 complete examples. [↑](#footnote-ref-1)
2. C.f. no. 740; Modonesi 2001. [↑](#footnote-ref-2)
3. C.f. no. 110; Nicolai 2000, 47. [↑](#footnote-ref-3)
4. The two issues from Port-Haliguen I have not been included in the graph. Their high weights suggest that they may well be issues of M. CATO PROPR (462/2) and there is a lack of images to corroborate their attribution. [↑](#footnote-ref-4)
5. Vico Pisano no. 25 has not been included due to the likelihood that it is not an issue of M. CATO (RRC 343/2) but of M. CATO PROPR (RRC 462/2). [↑](#footnote-ref-5)
6. Average of 21 complete examples given. [↑](#footnote-ref-6)
7. These are suspected examples of 462/2 due to their high weight but are recorded as 343/2. As there are no images to confirm this, they are not included on the graph. [↑](#footnote-ref-7)
8. Vico Pisano no.25 is included here since it appears to be an issue of RRC 462/2 and not, as recorded, 343/2. [↑](#footnote-ref-8)
9. Barclay 2001, 58. [↑](#footnote-ref-9)
10. Graphs not included where there are data for fewer than four closing dates. [↑](#footnote-ref-10)
11. Pardini 2017, 95. [↑](#footnote-ref-11)
12. Weight data from PAS, British Museum, and de Jersey 2001. [↑](#footnote-ref-12)
13. Dates given by *RRC* unless otherwise stated. [↑](#footnote-ref-13)
14. Believed by Modonesi 2001 to be part of a single deposit with the 1888 find from the same site. [↑](#footnote-ref-14)
15. For the closing dates of Port Haliguen (II), Vico Pisano, Gallarate, Casteggio, and La Villeneuve see footnote 17 in main text. [↑](#footnote-ref-15)