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Nabataea, India, Gaul, and Carthage:
Reflections on Hellenistic and Roman Gold Vessels
and Red-Gloss Pottery

MICHAEL VICKERS

Abstract

The Nabataeans were as famous in antiquity for their
gold as they are today for their pottery. Their gold vessels
have disappeared, but their red-on-red painted pottery
survives in profusion. Both the forms and decoration of
much of this pottery have analogies in extant Parthian
silverware. Nabataean gold vessels may lie behind the
pottery (which should no longer be called "luxury" ware).
The same picture emerges from an examination of the
sources relating to India: gold vessels were imported in
quantity from the Roman world, but only red-gloss pottery
survives to suggest what the range of imported and local
goldware might have been. Judging from the evidence
relating to Gaul and Carthage, the same model may have
applied to Gaulish sigillata and African Red Slip ware,
and by extension to red-gloss ceramics throughout the
Mediterranean.*

"The Nabataeans are a sober and acquisitive people," says Strabo in his brief account. "So much so," indeed, "that they publicly fine anyone who has diminished his possessions and also confer honors on anyone who has increased them." The society described by Strabo ("one of the best ancient authorities on the Nabataeans") was an unusually egalitarian

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The following abbreviations are used:


Horsfield and Horsfield G. Horsfield and A. Horsfield, "Setapetra, the Rock of Eden and Nabatene IV: The Finds," QDAP 9 (1942) 105–204, pls. 6–49B.

Kanakasabhai V. Kanakasabhai, The Tamils Eighteen Hundred Years Ago? (Madras 1956).


3 On whose fundamental reliability, see J. Hornblower, Hieronymus of Cardia (Oxford 1981) 144–53; Negev 1–2.

4 Diod. 19.94.4–5.

5 Diod. 2.48, 19.94–100; Plut. Demetr. 7.1. There is an interesting symmetry about the quantities of goods involved: a camel can carry 450 lb (202.5 kg) of goods: G. Van Beek, "The Land of Sheba," in J.B. Pritchard ed., Solomon and Sheba (London 1974) 56. If the 500 talents of silver (12,950 kg) were carried on 64 camels, the remaining 636 camels would have been laden with nearly 129 tons of frankincense and myrrh.

6 Diod. 19.94.3–4.

7 McKenzie 110; for a different view, Negev 33–40 (who believes that urbanized Nabataeans lived in tents).
lifetime that Petra’s principal surviving antiquities, the impressive rock-cut tombs, began to be built. It seems that the richest inhabitants embraced the prevailing international style of architecture, a pattern that has been repeated by other wealthy societies.

The Nabataeans owed their wealth to the fact that they acted as middlemen in the trade in aromatics from the lands at the southern end of the Red Sea to the Mediterranean. These goods were carried from Leucê Cómê at the northern end of the Red Sea, overland by caravan via Petra and other Nabataean cities, before they reached the markets of the Levant. The Nabataeans had long been engaged in this trade (Diodorus mentions it in the context of the late fourth century B.C.), but were briefly punished by the Romans for disloyalty during an expedition led by Aelius Gallus, prefect of Egypt, in 25/4 B.C., when the trade route from the Gulf of Aqaba was diverted to the Nile and Alexandria. The Romans had shown an interest in Arabia because its inhabitants (who included the Nabataeans) were “very wealthy” on account of their trade in aromatics, spices, and gemstones. These they sold for “gold and silver,” materials that only seemed to go in one direction: into Arabia and never out again. The setback to Nabataean fortunes must have been only temporary, and relations between the Nabataeans and Rome seem to have been friendly throughout the first century A.D. Aretas IV Philopatris presented Germanicus with a “gold crown of great weight” (and Piso with a lighter one) in A.D. 19. The Nabataeans also derived “not a little revenue” from their monopoly of the bitumen supply from the Dead Sea.

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8 McKenzie.
11 Strab. 16.4.24; Sidebotham (supra n. 10) 120–30.
14 Tac. Ann. 2.57.4.
16 Pliny HN 12.41.84, 6.26.101.
17 C. Howgego, “The Supply and Use of Money in the Roman World 200 B.C. to A.D. 300,” JRS 82 (1992) 5–6; R.W. Goldsmith, Premodern Financial Systems: A Historical Comparative Study (Cambridge 1987) 47 estimates that this represented 0.5% of the empire’s national product, “not extraordinarily high” but for the fact that it may have been “approximately equal to . . . gold production within the empire.”
with water in the prevailing Hellenic manner), but the fact that a different (gold) cup (chureson ekphoma) was used each time made for an unusual level of luxury, and justifies Strabo’s view that such symposia were conducted “in magnificent style.” Since 13 guests were the norm, a royal drinking service would have consisted of $13 \times 11$ pieces: 145 gold cups in all. If Nabataean society was as egalitarian as Strabo suggests, this dining pattern will have been repeated throughout the upper levels of Nabataean society, and we can probably envisage many more gold vessels on Nabataean tables. There is no reason to doubt the existence of a profusion of gold; the metal was produced locally, and was only seen to come into Arabia and never to go out. And if the amount of extant gold from the Nabataean world is scanty in the extreme, amounting to a few scraps of jewelry, this can be attributed to the fact that Nabataean tombs are characterized by architectural elaboration rather than by deposited wealth.

An indication that the Nabataeans may have been extremely rich comes from an unexpected quarter: the Nabataeans did not, as far as we can tell, possess a gold coinage. This apparent lack was presumably met in part by Roman coinage and in part by their gold vessels, which, if contemporary practice elsewhere is any guide, would have been made to round figures in units of currency. This was the general pattern with both gold and silver vessels of the period; they were made up in round figures in terms of contemporary coinage, and served in effect as large denomination bank notes. This emerges from an examination of both the relevant epigraphic sources and the weights of extant examples. Gold and silver vessels not made to Attic weights in Athenian and Delian lists generally come out in round figures in Persian gold darics and silver sigloi, even after the fall of the Achaemenid Empire. While only three fragmentary gold vessels survive at all from the late Hellenistic–early Roman Imperial period (they were found together in the sea off Knidos in the 1890s, and are inscribed with their original weights), they once weighed 100, 230, and 80 darics, respectively.

It has been noted that the silver content of Nabataean silver coinage went down in the first century B.C., and remained low throughout the first century A.D. This can hardly have been the result of a “change in the fortunes of the Nabataean spice trade,” for the period in question coincides with that in which the whited (as opposed to the “rose-red”) sepulchers of Petra’s aristocracy were constructed. This was not an age in which the Nabataeans suffered...
economic hardship, and another explanation must be sought. Perhaps the debasement of the silver content of their coins was a device to inhibit the export of precious metal, \(^{32}\) in keeping with the Nabataeans’ policy of not diminishing the general wealth of their state.

**NABATAEAN POTTERY**

No ancient source mentions Nabataean pottery, and yet Nabataean ceramics have come to play a prominent role in Nabataean studies. \(^{33}\) The distinctive painted pottery, thin-walled bowls and plates for the most part (fig. 1), \(^{34}\) made from the first half of the first century B.C. onward, \(^{35}\) is mostly found in the southern part of Nabataea: Petra, the Negev, and around the Dead Sea, but considerably less has been found in the north. \(^{36}\) This may be due to the fact that the Nabataean levels of continuously occupied northern cities such as Amman, Bosra, or Damascus lie rather deeper than those of Petra or Oboda, but comparatively little recognizable Nabataean pottery has been found “north of a line which may be drawn eastward approximately from the north end of the Dead Sea through the Mādēbā area to the desert,” \(^{37}\) and the conclusion has been drawn that “the typical Nabataean pottery was produced and used primarily only in the thickly settled, agricultural, part of the Nabataean kingdom in southern Transjordan, whose metropolis was Petra.” \(^{38}\) This “ceramic frontier”—as it has come to be known—is something of a puzzle, \(^{39}\) but there may be a relatively simple explanation (see below).

Another problem that has received less attention is the acute discrepancy between the circumstances in

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\(^{34}\) Schmitt-Korte 1989 (supra n. 33) 211, fig. 3.

\(^{35}\) Parr (supra n. 2) 370; Negev 22–25.


\(^{37}\) N. Glueck, “Nabataean Syria,” *BASOR* 85 (1942) 3; Philip Kenrick kindly informs me that none was found at Gadara (Umm Qas, north Jordan) in 1992; cf. n. 74 infra.


\(^{39}\) See Graf (supra n. 13) 787–89.
which Nabataean pottery is often found and its reception by scholars. The immense size of the rubbish dumps in which Nabataean painted ware is to be found is well known. The Horsfield's work on the Nabataean painted ware from Petra was based upon material found in a series of dumps. At Oboda, A. Negev collected "hundreds of thousands of pottery sherds from a rather small part of the dump." At Elusa, a Nabataean settlement between Petra and Gaza, Woolley and Lawrence observed "the vast size of the rubbish-heaps." And yet, the evident skill with which Nabataean pottery has been made has caused it to be classified as a "luxury" ware "evidently very popular with wealthy Nabataeans at Petra and other towns in the south." It has been maintained—quite correctly—that "the Nabataean potter was a member of a very wealthy and sophisticated society," but it is not enough to adduce as evidence "the repertoire of the locally produced pottery [and] the great quantity of imported wares."

There is clearly a problem that needs to be addressed. This is not the place to discuss the development of the privileged role of ceramics in archaeology. Thanks to its durability, pottery has its undoubted uses as an indication of the cultural status of the occupants of a site, an aid to the understanding of possible trade links, a chronological marker, or a guide to developments in other media, particularly metalwork. But it also has its pitfalls. This is especially the case when modern aesthetic criteria are brought to bear on archaeological finds. Pottery can never have been regarded as anything more than a useful craft product in antiquity; any aesthetic qualities apparent to us seem to have passed the ancients by.

**SKEUOMORPHISM**

Can the gulf between Strabo's picture of a very wealthy society enjoying a level of luxury second only to that of the Sabaeans and the profusion of hard, thin-walled, decorated red pottery be bridged? Only Abram Negev, to my knowledge, has ever brought Strabo's gold vessels into play in the context of Nabataean pottery, but then only to account for the enormous quantities of discarded pottery vessels in cemeteries and sanctuaries: "the unusual quantities of pottery found at Nabataean sites only emphasizes . . . the importance the Nabataeans attached to the solemn meal." It may, however, be possible to go somewhat further than this, and to regard the gold drinking cups as likely sources for Nabataean painted ware.

We may wait forever until a Nabataean gold cup actually turns up, but Strabo's testimony is sufficient to show that such vessels did once exist. These will not have been disposed of lightly, and we know in any case that there were strict regulations discouraging any diminution of personal wealth. They will not therefore have been placed in the tomb, but will have remained above ground for the use of the living, whose need was greater. I suspect that the last of them was used to pay land taxes in the early Muslim period, payments that were exacted in gold. Be that as it may, both the form and decoration of objects that presumably possessed a high status as markers of wealth in Nabataean society may well have influenced the more expendable and cheaper ceramic. Although the expression "trickle-down" has come to be applied to economics, it began as a term to describe the way in which elite fashions can influence taste lower down the social scale. Something similar may have occurred in Nabataea.

The precise date of the origin of Nabataean painted ware is as yet uncertain. P.J. Parr believes it began at some time in the first half of the first century B.C., and A. Negev that it was first produced ca. 25 B.C.

All agree that it falls into two phases, the earlier with "flowing, naturalistic" decoration, and the later bearing another style of painting that is "heavier and more formal." It is also a commonplace to remark on the fact that a fabric of comparative sophistication suddenly began to be made by a people who had hitherto had no need of pottery. Negev claims that the nomadic Nabataeans "preferred the use of unbreakable waterskins and wooden bowls," but this sits ill with their reputation for brigandage and piracy, and with the

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40 Negev 92; Negev (supra n. 33) xxi.
42 Parr (supra n. 36) 205; cf. Hammond 1962 (supra n. 35) 173.
43 Negev (supra n. 33) xiv.
45 Negev 93.
46 Negev 129.
48 Parr (supra n. 36).
49 Negev 29; Negev (supra n. 33).
50 Parr (supra n. 36) 370.
51 Negev 30; cf. Diod. 3.43.4.
fact that even in the fourth century the Nabataeans were richer than their neighbors, when they were relieved of 500 talents of silver. One might guess that they were drinking their dairy products from precious metal already; metal bowls would have been as suitable as wood or skin for nomadic use. Whatever the precise date for the introduction of the pottery, its earlier phase corresponds with the likely period of construction of the earliest great tomb at Petra, the Khasneh, a recent study of which has concluded that it dates from before the beginning of the first century A.D. This was but one of a series of rich monuments
constructed “during a relatively short period in a land with no prior [architectural] tradition.”52 In the case of architecture, the Nabataeans clearly adopted styles that were currently fashionable (parallels survive at Alexandria and in Pompeian wall paintings).53 In the case of pottery, matters are rather more complex, in that there are no obvious immediate ceramic parallels for the distinctive eggshell ware.

J.H. Iliffe saw Nabataean painted ware as “a branch of local sigillata” (by which he meant the kind of red-gloss pottery ubiquitous on Near Eastern sites from the second century B.C. until the Byzantine period).54 He was surely correct in this, as are those scholars who have seen features in common with “West Slope” wares, Megarian bowls, and Eastern sigillata of one kind or another.55 The metallic origins of various features of sigillata and of its Hellenistic black (and subsequently red) forerunners have often been remarked upon;56 and the point was made—albeit in passing—by the Horsfields in the context of Nabataean sigillata.57 They also compared certain features of painted wares with motifs in both Eastern sigillata and work in precious metal.58 One parallel that was especially telling was a comparison made between a painted low bowl and “Achaemenid and Parthian silver shapes.”59 This is a profitable line of investigation to pursue, for it brings us closer to the gold vessels of which the Nabataeans had at one time so many.

The bowl illustrated in figure 2 is said to have come from Iran, although it may have been made further west and exported there.60 It is one of several such bowls found in Iran during the 1960s; another is illustrated in figure 3.61 They are characterized by concentric zones of floral decoration: ivy and vine leaves, grapes, acanthus, flowers, and quatrefoil decorations. The form is not unlike that of the most characteristic shape of Nabataean painted pottery, and the decorative motifs recur in various degrees of stylization,62 and—to be candid—of debasement (fig. 4). The extant silver examples have (or had) gilded decoration.63 On a hypothetical gold bowl, any decoration would be in low relief; and on a ceramic version the effect of such a relief might be achieved by means of two shades of red paint. The thin walls of such a ceramic evocation might also owe something to the thinness of the sheet of metal from which originals were made.

If the Nabataean potter did thus skeuomorphically64 base his wares on Nabataean gold bowls, he will have been behaving as potters of fine wares often did, whether in classical Greece (where, as has been argued elsewhere, the appearance of silver decorated with

52 McKenzie xv, 40–41.
53 McKenzie.
57 Horsfield and Horsfeld 126 (no. 69), 128 (no. 82), 138 (no. 135).
58 Horsfield and Horsfeld 142–43, 168, 173, 181.
59 Horsfield and Horsfeld 142–43, pl. 20, no. 153.
60 A. Oliver, Jr., Silver for the Gods (Toledo 1976) 80–81, no. 44 (= Hamburg, Museum für Kunst und Gewerbe 1969.113). Wt. 420 g; diam. 16 cm.
62 For the motifs on Nabataean pottery, see Horsfield and Horsfeld; Hammond 1959 (supra n. 33); Schmitt-Korte 1968 (supra n. 33) 502–504; Schmitt-Korte 1989 (supra n. 33).
63 The gilding on the British Museum example (fig. 3) is discussed by W.A. Oddy, “A Parthian Bowl: Study of the Gilding Technique,” MASCAJ 1 (1978) 5–6.
Fig. 3. Silver gilded bowl. London, British Museum WA 134303. (Courtesy Trustees of the British Museum)

gold figures was evoked by potters by means of red-figure decoration),65 or in China (where silverware was copied in porcelain).66 The traditional means of cleansing precious metal vessels by fumigation with sulphur67 would not only have created a (dark) layer of silver sulphide on silver, but would also have


67 If Homeric precedent was followed (as it seems to have been: R. Parker, Miasma: Pollution and Purification in Early Greek Religion [Oxford 1983] 227–28), both houses and storerooms might be cleansed by burning sulphur: cf. Hom. Od. 22.481–82, 493. Sulphur is also used to clean a vessel of precious metal, Hom. Il. 16.228. According to the Babylonian Talmud (I. Epstein, The Babylonian Talmud: Shabbath [London 1938] 74), one of the activities permitted on the Sabbath was to place sulphur under silver vessels that they might “undergo the process of sulphuring the whole day” (thanks are due to Jack Ogden for this reference).
brought about a reddening of the surface of gold.\textsuperscript{68} These are the surface effects that Mediterranean potters seem to have had in mind.

Nabataean pottery was first made after the time between 150 and 125 B.C. when black or gray mold-made pottery gave way to red ware in the eastern Mediterranean.\textsuperscript{69} A similar change took place in Italy in the mid-first century B.C.\textsuperscript{70} It has been suggested that the change was "determined by taste rather than technology,"\textsuperscript{71} but there may have been elements of both. In the first place, the change from black to red may have reflected the greater amount of gold available in the eastern Mediterranean as a result of Alexander's conquests, and the Italian transition the sudden arrival of booty in the triumph of Lucullus in 63 B.C., the general who "was the first to introduce luxury to Rome."\textsuperscript{72} From the potter's point of view, it was easier and probably cheaper to make red pottery than black, for a black pot would have been fired red first, before being turned black by means of reduc-

\begin{itemize}
  \item \textsuperscript{69} E.g., Weinberg (supra n. 56).
  \item \textsuperscript{70} J.-P. Morel, Céramique à vernis noir du Forum Romain et du Palatin (Paris 1965); M. Schindler, Die "schwarze Sig-
  \item \textsuperscript{71} K. Greene, The Archaeology of the Roman Economy (London 1986) 158.
  \item \textsuperscript{72} Ath. 6.274f; cf. 12.543a.
\end{itemize}
tion. If the potter dropped the latter stage, not only might there be economies of fuel, but the manufacturing process could be carried out more quickly, and with fewer risks of misfiring. If so, at some time in the third quarter of the second century B.C., potters in Antioch (or at least somewhere in Syria) began to see the advantages of evoking a nobler material than silver with less outlay of fuel, time, and effort. Nabataean potters fitted into this pattern, and produced their idiosyncratic versions of the goldwares locally in use.

A useful result of the statistical work on Nabataean pottery undertaken by P.C. Hammond is the discovery that there may have been roughly standard diameters clustering in the ranges of 16–17 cm, 17–19 cm, and 19–22 cm. Although the sample was a small one, there is an apparent standardization of sizes. This relative standardization has been attributed to the skill of the potter alone, but it may ultimately be the result of the goldsmith’s need to achieve standard weights (and, a fortiori, roughly standard dimensions). The bowl in figure 2 was probably made to weigh 10 drachmas, and happens to have a diameter of 16 cm. The Nabataeans struck silver coins on the Phoenician standard, and they may well have made their gold vessels according to the same standard. Cups of 50 half-shekels apiece would produce a Nabataean royal dinner service of nearly 50 kg, and of 100 half-shekels of nearly 100 kg, and this apart from the mixing bowl, sieve, and ladle that would have been de rigueur at the kind of symposium Strabo described.

THE “CERAMIC FRONTIER”

If gold vessels underlie Nabataean painted pottery, it may be possible to explain the problem of the paucity of Nabataean painted wares in Nabataean territory north of the Dead Sea. The clue lies in Nelson Glueck’s account of Umm el-Jemāl:

This site, as others in this region, came under the control of the Nabataeans, the northern extension of whose kingdom reached into Haurān and Jebel Drūz, in southern Syria, with Damascus as the seat of government. To judge from the originally predominant Nabataean influence at Umm el-Jemāl, one would have expected to have found large quantities of typical Nabataean pottery there. However, despite repeated visits to the site and the most careful examination of its very considerable pottery remains, not a single scrap of the characteristic, fine, thin, painted Nabataean ware was found there. There were, to be sure, pieces of fine, rouletted ware, and some pieces of fine thin ware baked a buff color all the way through, and others of the same type with a drab core between buff surfaces. If these latter pieces had been found with other unquestionable Nabataean wares, they too might have been considered as being Nabataean. As it is, they can be identified only as belonging to fine types of Roman period pottery of the first two centuries A.D.

Eastern sigillata is usually to be found wherever Nabataean painted ware occurs, and there was perhaps also a locally made version of it. If the hypothesis is correct that painted ware reflected gold vessels in use at the symposia of Nabataean kings and merchants, the same will hold good for other kinds of pottery: the other red wares will have evoked other, less provincial, kinds of gold plate on the tables of the rich at Petra and other Nabataean centers. Damascene plate of the period is beyond reconstruction, but it is likely that it will have been more fashionable, even—perhaps especially—in the eyes of a Nabataean official posted to the big city, than the somewhat monotonous bowls in use back home. Goldsmiths in the more sophisticated centers were presumably producing vessels more in keeping with the international style than the products of craftsmen in the Nabataean homeland.

We might even read the ceramic evidence as an indication that the Nabataeans lived at the point where two overlapping kinds of gold plate existed: vessels made in the Hellenistic style, and those that looked to the Sabaeans for inspiration. The finds not so much of Nabataean pottery but of supposed imitations of Nabataean pottery in the Arabian peninsula

76 Hammond 1964 (supra n. 33) 207; cf. Hammond 1962 (supra n. 33) 172; Hammond (supra n. 23) 69.
77 The average weight of the half-shek el is 6.61 g: Y. Meshorer, Nabataean Coins (Jerusalem 1975) 18.
78 Glueck 1951 (supra n. 38) 10–13.
79 Iliffe (supra n. 33) 134; Negev (supra n. 33).
80 Cf. Negev (supra n. 33); but disputed by J.W. Hayes in EAA, At/ante delle forme ceramiche 2 (1985) 10, s.v. sigillate orientali.
suggest that this may have been the case. “Supposed imitations,” because it is widely believed that potters went around influencing potters in antiquity; this, however, is a by-product of the privileged position of the potter and his (or her) products in the eyes of modern students. If instead we can see the real stimulus for ceramic change in work in nobler materials than clay, and view different kinds of red ware as reflections of a goldworking aesthetic, then both Nabataean proper and “imitation Nabataean,” such as the bowls from Thaj,81 Qaryet el-Fa’w,82 and Kuwait,83 might all be evocations of locally fashionable gold vessels. Their idiosyncratic pottery may thus help to explain why the Nabataeans fit somewhat awkwardly within the more general picture of Hellenistic civilization;84 they found themselves at the interface of two dominant cultures, and their surviving artifacts display characteristics of both.

The motifs on Nabataean pottery may be the results of the potters’ free invention, but there is no way to be sure that they do not instead reflect designs on Nabataean goldware, themselves considerably debased by comparison with their classical originals. The principle involved can be observed in the way, for example, images on gold “Philips” were copied by Celtic tribes, and became more and more debased, but erratically so with respect to the distance in time and space they were from the original center of production.85 A similar phenomenon can be observed in the Hellenistic coinage of northeastern Arabia, where the seated divinities on the reverses of imitations of Seleucid coinage become barbarized and geometrically stylized.86 Nabataean gold vessels, themselves de facto large denomination coins, may have displayed similar signs of graphic debasement. If so, the particular center of which Nabataean goldwork stood on the periphery may well have been the Sabaeans realm. Pottery was not common there, perhaps, as has been suggested, because there was “an abundant supply of fine and costly vessels for use in wealthy households.”87 The perennial links between Nabataea and the Sabaeans are well attested, but it is interesting to see them confirmed by the discovery of Nabataean painted pottery in Marib,88 and evident stylistic links between the geometric alabaster “face plaques” from Timna,89 the schematized faces on stelae from Hegra and Dedan (El-Ola) on the caravan route,90 and the one carved on a plinth in the Lion-Griffin Temple at Petra.91

SOCIAL IMPLICATIONS

While the vast amounts of painted ware found in the rubbish dumps of Petra and elsewhere in Nabataea can no longer serve as direct witnesses to the wealth and sophistication of the Nabataeans, they do have an important indirect bearing on the nature of Nabataean society. The very fact that there were easily available skeuomorphs of precious metal vessels at all is itself significant. To put matters into perspective: high-quality skeuomorphs of vessels of the kind that were made (in gold) for use on the tables of the Persian kings are unusual,92 whereas our museums are full of evocations of plate made (in silver) at democratic Athens. This ties in nicely with Strabo’s

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81 T.G. Bibby, Preliminary Survey in East Arabia 1968 (Copenhagen 1973) 21, 23, fig. 16, type 3; considered by L. Hannestad, Ikaros. The Hellenistic Settlements 2.1: The Hellenistic Pottery from Failaka, with a Survey of Hellenistic Pottery in the Near East; 2.2: The Hellenistic Pottery, Catalogue and Plates (Aarhus 1983) 52 to be “imitations of Nabataean.”
83 Hannestad (supra n. 81) 51–52; “Nabataean or local imitations of it,” pl. 43, nos. 419–26; Amr (supra n. 33) 11; D.T. Potts, The Arabian Gulf in Antiquity (Oxford 1990) 2.169. Examples of real Nabataean pottery have been found at Thaj: Potts, “An Urban Center in Pre-Islamic Arabia,” in R. Boucharlat and J.-F. Salles eds., Arabe orientale, Mésopotamie et Iran méridional de l’âge du fer au début de la période islamique (Paris 1984) 104; Potts 1990 (supra n. 199).
86 Potts 1990 (supra n. 83) 58–69, pl. 4.
88 Stucky (supra n. 18) 7, figs. 10–11, and 11, fig. 24.
89 Van Beek (supra n. 5) fig. 20; Patrich 1990 (supra n. 22) 85, n. 84.
90 F. Zayadine, “Die Göter der Nabatäer,” in Lindner (supra n. 33) 120, fig. 9; Patrich 1990 (supra n. 22) 84, fig. 28.
91 Zayadine (supra n. 90) 120.
92 For some examples, see, e.g., D. Stronach, Pasargadae (Oxford 1978) 242–43, fig. 106, no. 11, 258–59, fig. 114, no. 6; P.R.S. Moorey, in Cambridge History of Iran 2 (1985) 860–61.
picture of the Nabataeans as rather more egalitarian than most in the ancient Near East, with few slaves, and even the kings normally serving each other at meals. What the finds of pottery tell us is that it was a society that included a sufficiently large number of people who wanted to imitate the drinking patterns of the richest in town. It was a society whose equivalents of our throwaway paper cups were made to resemble the luxury objects we hear about in Strabo. The immense quantity of broken pots do attest to the wealth of the Nabataeans, but only indirectly.

THE INDIAN DIMENSION

“The Indians... have an enormous amount of...” according to Pausanias the Periegete, writing in the second century A.D. 93 They had local supplies, but a major source was the Roman Empire. While half of the money expended on Oriental luxuries by the Romans may have remained in Arabia, the rest went to India, 94 a land that has been said to possess “an almost magical capacity to soak up precious metals.” 95 The drain on Roman resources was remarked upon by Tiberius in a speech to the Senate in A.D. 22. 96 Across the Indian Ocean, the Tamil poet Nakkirar made a fulsome address to the Pandyan prince Nan-maran: “Spend thy days joyously drinking daily of cool and fragrant wine brought by the Yavanas in their good ships which thy handmaiden, who wear shining bracelets on their arms, present to thee in handsome cups of gold.” 97 Yavana was a word applied exclusively to Greeks and Romans, 98 and we even know which types of wine were imported: “Italian [was] preferred, but also Laodician and Arabian.” 99

This information occurs in the context of the northwest Indian port of Barygaza, whose very name, “Heavy with Treasure,” is redolent of wealth. Here the Roman merchants paid for spices, gems, ivory, and cloth with an assortment of goods that included “gold and silver coin, on which there is a profit when exchanged for the money of the country.” They would present to the king “very costly vessels of silver.” The coins were traded as bullion, as is indicated by the fact that the issues actually found in India do not form a cross section of Roman gold and silver coinage, but appear to have been carefully selected with respect to the purity of the metal. 100 Any plate, however, presumably attracted a premium beyond its bullion value; Pliny’s remark that “we have made gold and silver dearer by the art of engraving” 101 suggests that artistry might have enhanced the value of traded goods. 102 It was probably for this reason that “vessels of gold and polished silver” and “wrought gold and silver plate” were presented to the kings of Puza and Cana in South Arabia as part of the Romans’ Indian Ocean trading pattern. 103 Goods from Barbaricum at the mouth of the Indus were also paid for with “silver and gold plate.” 104

The picture can sometimes be corroborated by early Tamil literary sources. 105 The Periplus describes Muziris, at the mouth of the Periyar River in southwest India, as “abounding in ships sent there with cargoes from Arabia, and by the Greeks.” 106 A Tamil poet calls it “the thriving town of Muziris, where the beautiful large ships of the Yavanas bringing gold, come splashing the white foam on the waters of the Periyar... and return laden with pepper.” 107 Another de-

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93 Paus. 3.12.4.
94 Pliny HN 12.41.84, 6.26.101.
97 Kanakasabhai 87; he notes, however (p. 37), that an old commentator interprets the relevant line as “brought by Yavanas in bottles,” rather than “ships.” If so, perhaps the allusion is to clay amphoras; cf. those discussed by E.L. Will, “The Mediterranean Shipping Amphorae from Arikamedu,” and K.W. Slane, “Observations on Mediterranean Amphoras and Tablewares Found in India,” in Begley and De Puma, 151–56 and 204–205, respectively. Meile 105–106 suggests there may have been a pun.
98 Meile 99–102; Sidebotham (supra n. 10) 92–93.
99 Peripl. M. Rubr. 49; cf. 56.
101 Pliny HN 33.1.4–5.
102 Cf. Vickers and Gill (supra n. 75).
103 Peripl. M. Rubr. 28.
104 Peripl. M. Rubr. 59.
105 Investigated in depth by Meile, who considers them (p. 123) to be “dignes de foi.”
106 Peripl. M. Rubr. 54.
107 Kanakasabhai 16; cf. Meile 90–92.
scribes how “sacks of pepper are brought from the houses to the market; the gold received from the ships, in exchange for articles sold, is brought to shore in barges, at Muziris, where the music of the surging sea never ceases, and where Kudduvan [the king] presents to visitors the rare products of the seas and mountains.” It was in the hinterland of Muziris that Nan-Maran was enjoined to drink his (presumably) Italian wine daily from golden cups. It was in the hinterland of Muziris that Nan-Maran was enjoined to drink his (presumably) Italian wine daily from golden cups.109

There are other indications in local Indian sources that the account of Roman trade with the subcontinent in the *Periplus* (probably written in the second half of the first century A.D.)110 is not exaggerated. “Singing boys and beautiful maidens for the harem” are among the presents made to the ruler of Barygaza; further south, Tamil sources describe Yavana soldiers “whose stern looks strike terror into every beholder” employed as bodyguards,111 (although these may be mercenaries from eastern Hellenistic cities).112 Yavana carpenters were employed in the construction of a palace for a Chola king,113 and “Yavana vessels and Yavana lamps with the figure of a swan on top of each, or lamps in the shape of a female statue in a standing posture, holding with both hands the receptacle for oil and wick appear to have been common in Tamil country.”114 A few Roman bronze articles survive in India,115 but the only precious metal is in the form of coins116 and jewelry.117 Given the emphasis in contemporary Indian texts on gold, silver, and precious stones,118 as well as the references in the *Periplus* to gifts of plate, many of such Yavana vessels and lamps were probably of gold.

An indication that such may have been the case is provided by a recently published papyrus fragment that discusses the insurance and customs dues relating to a consignment of nard, ivory, and textiles sent from Muziris to Alexandria.119 It has been estimated that not only would the total value (some 131 talents) have been enough to buy almost 2,400 acres of Egypt’s best farmland, but that judging from the likely size of the ships that undertook the voyage to India, there were probably 150 such consignments in each vessel.120

No gold vessels survive from this period, but it would not be surprising if they figured as large in the dining arrangements of the Romans’ Indian trading partners as they did on those of the Sabaeans—or of the Nabataeans. And just as with the Nabataeans, all that remains are evocations in ceramic that are usually red in color. The closest to classical metalwork are the red moldmade wares of northwest India, and it has been well observed that the fact that they are made in two-piece molds might be because they were originally taken from metal vessels.121 Analogies have been made with silver vessels of so-called “Acha-
menid" shape known from the fourth- or third-century B.C. Mediterranean, 122 Ptolemaic Egypt 123 may have played a role in the transmission of such shapes, or alternatively the less well documented, but equally certain 124 trading links with the Gulf may have done so. Red "rouletted ware" from the southeastern coast of India and the interior of Tamil Nadu 125 shares its most notable decorative feature, tondos of "chattered" circles, with Mediterranean black and red pottery of the Hellenistic and Roman periods, much of which, however, is easy to see as an evocation in clay of silver and gold shapes. "Rouletting" was a quick and easy way to achieve the effect that would be more laboriously, and usually more carefully, achieved in metal by means of punched decoration.

It is not even necessary to postulate a widespread taste for Western vessel shapes in gold; there will have been strong local traditions of work in precious metal. Techniques of pottery manufacture may have been adopted from further west, but shapes and decorative motifs were unaffected. 126 This will help to resolve the problem of Red-Polished ware, which bears a slip similar to that of many sigillata wares, but whose forms seem not to have been influenced by contact with Roman traders calling at Barygaza. 127 The sigillata of Mediterranean origin found at Arikamedu, the principal Roman trading station on the Coromandel coast, 128 may by contrast reflect a taste for Roman shapes on the tables of the expatriate community. The skeuomorphic status of sigillata is in any case clear from the existence of marbled wares—made to look like vessels carved from marble. Fragments of marbled sigillata have been found at Arikamedu, 129 and in the west are found side-by-side with the ordinary red version. 130

Some Indian moldmade ware may have been made in imitation of yet another exotic material, and one that the Romans came to India to buy. A white version of red moldmade ware made from kaolin 131 may have

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122 Begley (supra n. 121) 167, 191, n. 36.
124 D. Whitehouse, "Epilogue: Roman Trade in Perspective," in Begley and De Puma 216–18; cf. Potts 1990 (supra n. 83) 292 (on Indian Red-Polished ware found at Sohar in Oman, where a "great number" of gold coins of Tiberius were found in 1601).
125 Begley (supra n. 121) 176–82.
126 Cf. the Red-Polished ware fragment from Mantai, Sri Lanka with a monkey sitting on a crocodile's back, an early rendition of a folktale well known in the medieval Middle East: J. Raby, "Between Sogdia and the Mamluks: A Note on the Earliest Illustrations to Kalila wa Dimna," Oriental Art 33 (1987–1988) 391–92, 394, fig. 21; J. Carswell, "The Port of Mantai, Sri Lanka," in Begley and De Puma 202, fig. 11.3. The "sprinkler bottle" from which it came probably had 12 such panels, perhaps with a whole narrative cycle (Raby [supra] 392).
127 N.P. Orton, "Red Polished Ware in Gujarat: A Catalogue of Twelve Sites," in Begley and De Puma 47.
130 Cf. Comfort (supra n. 128) 139, citing examples from Mainz and southern Gaul.
131 Begley (supra n. 121) 157.
been intended to evoke ivory, and the fact that the same medium was also used for figurines tends to confirm this hypothesis. If so, it both recalls the way Athenian potters used a white slip to evoke the appearance of ivory lekythoi, and anticipates the use of blanc de Chine for vessels as a means for making inexpensive, down-market versions of Foukien ivory carvings. The black and gray wares that also occur probably evoked silver.

**THE ROMAN DIMENSION**

The essential unity of Roman-period red wares is a commonplace. Whether they are called Arretine, Samian, terra sigillata, North African Slip ware, or Color-coated ware, such pottery was widespread throughout the Mediterranean and beyond from the first century B.C. to the Byzantine period. “However diverse, all varieties were loosely bound together by a tradition of red surface called Glanztonfilm [and] by two leading techniques of molded exterior decoration or of wheel-made tableware.” Nabataean painted pottery (“by Sigillata out of Hellenistic Painted Wares”) and the various Indian moldmade, rouletted, and Red-Polished wares share many of the same characteristics. The last-mentioned, as we have seen, were developed in societies whose aristocracies had their “best plate” in gold. It is also probably the case that the red pottery that was the source of much of the gold that found its way to Nabataea and India was made as an evocation of the goldwares available within the Roman Empire itself.

As with Nabataean, ancient texts attest to the widespread existence of gold, whereas all that survives in practical terms is a vast quantity of pottery. Again, the case to be made is circumstantial, but there is a distinct overlap between the occurrence of gold at certain levels of Roman society and the production of red ceramics. The surviving gold from the late Hellenistic–early Roman period has parallels in pottery, as a comparison of the fragmentary (the handles are missing) gold “Harewood Vase” (fig. 5) and a sigillata vessel from Cyprus now in Oxford (fig. 6) shows. Even the moldings on the undersides of the feet are close, and the pottery version includes an evocation of the central punch mark of the kind regularly made by workers in precious metal (figs. 7–8).

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133 D. Gilman, in exhibition catalogue, Chinese Ivories from the Shang to the Qing (London 1984).

134 Comfort (supra n. 128) 134; Greene (supra n. 71) 158. For bibliographies, see EAA, Atlante delle forme ceramiche 1 and 2 (Rome 1981 and 1985).

135 IIiffe (supra n. 54) 15; cf. Parr (supra n. 36) 205: “obviously correct.”

136 Slane (supra n. 97) has an excellent discussion of the difficulties involved in distinguishing imported from local fabrics. Cf. K. V. Raman, “Further Evidence of Roman Trade from Coastal Sites in Tamil Nadu,” in Begley and De Puma 128.

137 Cf. supra n. 27. Ht. 28 cm; diam. of base 7.7 cm.

138 Ht. 35.2 cm; diam. of base 10.9 cm.

139 Such punch marks result from the preliminary measurement of a sheet of metal used for hammer-raised silver: “The point at which the lines cross . . . is then marked with a centre punch and a hammer. The point . . . is left on the outside, bottom of the finished piece. Leaving this mark intact is a tradition among holloware craftsmen” (O. Untracht, Metal Techniques for Craftsmen: A Basic Manual for Craftsmen on the Methods of Forming and Decorating Metals [Garden City, N.Y. 1968] 240).
Fig. 7. The underside of the "Harewood Vase" shown in figure 5

The principal Western centers of red-gloss pottery were Italy, Gaul, and North Africa. We have already noted how the change from black Arretine to red took place shortly after Lucullus's triumphal return from the East laden with rich booty. It may be relevant to note that extremely large examples of so-called "Pompeian-red" ware were made in Italy and widely exported in the Augustan and Tiberian periods, the very time at which great quantities of gold were being sent to the East. The inhabitants of Gaul were famous for their gold during the pre-Roman period, and Julius Caesar doubtless won not a little as the result of his campaign. It is an interesting fact that the principal gold-bearing regions in Gaul in Roman times were the "Cévennes/Rhône" area in southern Gaul, the "central Plateau" in central Gaul, and the "Rheingold" area in eastern Gaul, and that the principal production centers of sigillata ware at La Graufesenque, Lezoux, Vichy, Clermont-Ferrand, and Martes de Veyre lay within the first two, with Luxeuil close to the "central Plateau," and that Luxeuil, Chémery, Blickweiler, and Trier were not far away from the "Rheingold" area (fig. 9). It will, however, have been the existence of the major urban centers at Marseilles, Arles, Nîmes, Narbonne, Vienne, Lyons, Metz, and Trier (fig. 9), and the consequent need for inexpensive but respectable tableware, that generated such production. The export of surplus pottery will always have been "parasitic" upon trade in more valuable commodities. The general commercial success of Carthage, now known to have been a major production center of African Red Slip ware, rather than the entrepreneurial skills of its potters alone, led to "enormous quantities of ARS being shipped to Mediterranean"

141 Diod. 5.27, Strab. 4.191.
142 See Dio Cass. 43.19; App. BCiv 2.101 for Caesar's Gallic triumph.
143 H. Quiring, Geschichte des Goldes (Stuttgart 1948) 114–19, esp. 115, fig. 56 (on which fig. 9 is partially based).
144 Cf. J.A. Stanfield and G. Simpson, Les potiers de la Gaule centrale (Revue archéologique Sites 1990) fig. 1 (on which fig. 9 is partially based).
markets and beyond."147 One result of the recent excavations at Carthage has been the discovery of "a whole range of ARS shapes, apparently belonging to the Vandal period, which do not fit neatly into [existing typologies], and which were rarely exported."148 It so happens that we are comparatively well informed regarding the wealth of the city during this period, and gold figures large in the relevant testimonia.

Fig. 9. Map showing the relationship between areas producing gold and red-gloss pottery in Roman Gaul. (After H. Quiring, Geschichte des Goldes [Stuttgart 1948] 115, fig. 56; and J.A. Stanfield and G. Simpson, Les potiers de la Gaule centrale [1990] fig. 1)

The Vandals arrived in Africa in A.D. 430 and took Carthage in 439. They found it a wealthy city, "in the African context, the equivalent of Rome,"149 and enjoyed its amenities until they were overthrown by Belisarius in 534.150 The Vandals were unpopular with orthodox Christians, not least because soon after their arrival, they tried to make the clergy "give up any gold or silver belonging to themselves or the


149 Salvian 7.67.

churches,”151 and on taking Carthage, their king published a decree that each person was to bring forward whatever gold, silver, gems, and items of costly clothing he had” so that the king “was able . . . to carry away property that had been handed down from fathers and grandfathers.”152 Even then there must have been a lot of gold left in private hands, judging by the fines of “10 pounds of gold” for those involved in the ordination of priests,153 or the penalties for other transgressions: 50 pounds of gold for illustres, 40 pounds of gold for spectabiles, 30 pounds of gold for senators, 20 pounds of gold for “leading men,” 30 pounds of gold for priests, and five pounds of gold for decurions, merchants, and “common people.”154 While such fines must have been punitive, their very existence on the statute book suggests that gold might once have found a place on the tables of some, at least, of the indigenous population.

The Vandals themselves, however, were not content with the riches they had seized from their North African subjects, but in A.D. 455 captured “an exceedingly great amount of gold and other imperial treasure” from the palace at Rome, as well as the “exceedingly thick” layer of gold from the bronze tiles on the roof of the Capitol.155 Thanks to Procopius’s account of Belisarius’s victory procession in 534, we are well informed concerning the use to which this gold was put: the booty included “whatever articles are customarily set apart for the imperial service—thrones of gold and carriages in which the emperor’s wife is wont to ride, and much jewelry made of precious stones, and gold drinking vessels, and everything else that is useful for the imperial banquet.” This was in addition to “silver weighing many thousand talents.”156

None of this gold has survived, at least in its original form, but gold vessels are once again present on the tables of a trendsetting elite.157 All that survives is a reflection in the shape of the distinctive version of African Red Slip ware made during the period of Vandal occupation. While gold vessels appear in ancient accounts of holdings of precious metal,158 they rarely occur in hoards; but this is only to be expected in that silver was less valuable and rather more cumbersome.159 Silver does, however, provide a useful bridge between Roman gold and Roman red-gloss pottery, in that if there are similar extant forms in both silver and ceramic, a gold prototype for the latter can be safely postulated. Moreover, the apparent fact that “ARS did not evolve directly from the red-gloss tradition elaborated in Europe by Roman potters making Samian ware”160 supports the view that similarities between one fabric and another might best be seen not so much as the result of interplay between potters, but rather as a reflection of prevailing fashions in different places and at different times of wares made of gold. What holds good for the red pottery of Nabataea, India, Italy, Gaul, and North Africa probably applies to other kinds of sigillata around the Mediterranean: all were made in the shadow of urban elite dining practices that involved the use of gold vessels. The hierarchy of crafts was thus in step with the hierarchy of materials.

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151 Victor of Vita 1.5.
152 Victor of Vita 1.12, trans. J. Moorhead, Victor of Vita (Liverpool 1992) 7; Carthage had traditionally been a Mediterranean outlet for West African gold: Hdt. 4.196; G.K. Jenkins and R.S. Lewis, Carthaginian Gold and Electrum Coins (London 1963). It is interesting that there is no physical evidence for gold production in West Africa before the medieval period: D. Gréhénart, Les premiers métallurgistes en Afrique occidentale (Abidjan 1990) 257. For trans-Saharan trade routes in antiquity, see D.W. Phillipson, African Archaeology (Cambridge 1985) 150–51, fig. 7.3.
153 Victor of Vita 3.8.
154 Victor of Vita 3.10.
155 Procop. Vand. 1.4.5.1–5. The gilding of the Capitol had cost Domitian 12,000 talents: Plut. Publ. 15.3.
156 Procop. Vand. 2.4.4.
157 Rosenblum (supra n. 150) 27: “The Vandals had become soft and yielded to the charms of a more refined life: Carthage seemed to live again.”
160 Gallagher (supra n. 146) 251.