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Compositional Identification of Seville Majolica at Overseas Sites

ABSTRACT

This study reports compositional data for the first majolica ceramics excavated from a 16th-century kiln site in the Sevillian suburb of Triana. Instrumental neutron activation analysis (INAA) of 63 of the ceramics provides baseline data for documenting the growth and spread of Spanish majolica industries and networks of supply during the Spanish colonial period. In an initial comparison the kiln site data are shown to match majolica data from the North African Portuguese fort of Qsar es-Seghir (1458-1550) and the New World Spanish mission of Santa Catalina de Guale (1567-1680), confirming that Seville majolica was exported to both settlements. The Santa Catalina samples are from more than one source, however, and some are compositionally unrelated to any Spanish data. Two alternative hypotheses are offered to explain the difference in supply at the two colonies.

Introduction

Majolica, like faience and delft, is an earthenware ceramic, usually of a calcareous clay, covered with a tin-opacified lead glaze (Caiger-Smith 1973; Hamer 1975:190-193). It was produced by a technique of Middle Eastern origin that came to be used throughout Europe and the colonies. Its tin glaze creates an opaque white surface on which glaze painted designs are highlighted. Bluepainted majolica gave the effect of Oriental porcelain and was often used as a substitute for it (Caiger-Smith 1973:43, 87). Beginning in late-medieval times Spanish majolica tableware was exported to England (Hurst 1977:68-105), the Netherlands (Hurst 1986:347-351), Italy (Berti and Tongiorgi 1985), and North Africa (Boone 1984: 76-86), as well as to the Spanish colonies of the New World (Goggin 1968). Although it is found archaeologically in the western Mediterranean and

Northern Europe, common Spanish majolica export ware was in fact first intensively investigated by New World archaeologists. John Goggin began this research in the late 1940s, working at Spanish colonial sites in the Southeastern United States and the Caribbean. His comprehensive study of Spanish majolica in the Americas was published in 1968, and, with the modifications of the Listers (1974, 1982), Deagan (1987), and others, the work still stands today as the definitive typology of Spanish export majolica. More recently petrographic and chemical data have also played a role in the study of majolica of the Spanish colonial period (Olin et al. 1978; Maggetti et al. 1984; Olin and Blackman 1989).

The Morisco wares (Lister and Lister 1982:45-57), the primary focus of this paper, form a complex of plain and painted common tableware majolica types that probably account for the majority of the majolica exported from Spain to the New World from the late 15th through the 16th centuries. The Andalusian town of Seville was the administrative center for Spain's overseas activities, and its port of Triana is believed to have been the source of most of the majolica, including Morisco ware, exported to the New World through the 18th century. Nonetheless smaller quantities of majolica from Talavera and Manises appear to have been shipped to the New World as well (Lister and Lister 1982:68, 1987:160). For Morisco ware, the hypothesis of Sevillian origin was adopted by Goggin based on three lines of evidence: (1) its presence in the paintings of Sevillian artists, (2) its abundance in undocumented archaeological collections in Seville, and (3) documentary references to the shipment of tableware from Seville and Triana to the New World (Goggin 1968:124-126). Subsequent chemical analyses indicated a related source for Morisco wares found in the Caribbean and sherds of Sevillian type found at the Andalusian town of Jerez de la Frontera (Olin et al. 1978: 216). This evidence along with additional typological comparisons of Old and New World finds led to a further strengthening of the "Seville Hypothesis" in the literature (Lister and Lister 1982:45).

New archaeological and compositional data in this paper allow the characterization of Morisco ware sources in Seville. This, in turn, provides a basis for refining majolica typologies based on the correspondence of visual attributes of the ceramics with the compositional source groups being defined. The purpose of the larger project is to develop majolica typology as an archaeological tool for studying Spanish and Spanish colonial supply and commerce through the identification of majolica sources represented at different Spanish colonial sites.

Compositional Method for Characterizing Majolica Sources

This study employs instrumental neutron activation analysis (INAA), a sensitive technique of chemical analysis that requires relatively little sample preparation and provides precise data for up to 35 elements (Perlman and Asaro 1969; Harbottle 1976). The analyses for this project are being conducted at the Smithsonian Institution's facility at the National Institute of Standards and Technology following procedures described by Blackman et al. (1989). Only the fired clay portion of an artifact is sampled for analysis.

The method of data interpretation employs the elemental composition of the samples to define chemically homogeneous groups of artifacts, the assumption being that the differences between the groups are the result of different characteristic local clays and/or different treatment of clays during manufacture (Bishop et al. 1982; Harbottle 1982; Bishop and Neff 1989). This method often provides great interpretive value in the simple compositional grouping of artifacts, as is illustrated below. The geographical origin of a group, however, is most securely determined with data from archaeologically documented samples. Since compositional studies of Spanish majolica have suffered from a lack of data from excavated samples, a major focus of recent efforts has been the acquisition and analysis of excavated samples from majolica production sites.

In an earlier study Olin et al. (1978:216) found that concentrations of the trace elements lanthanum, cerium, and thorium distinguish majolica

types of presumed Spanish origin from Spanishstyle types of presumed New World origin, the Spanish types having significantly higher concentrations of all three elements. This discovery tended to confirm the value of the Goggin typology but provided a valuable refinement as well. A plain white majolica excavated in Mexico City was originally thought to have come from Seville and had been classified as Columbia Plain. On analysis its composition proved to be Mexican (Olin et al. 1978:207), providing a basis for its designation by the new type-name Mexico City White (Lister and Lister 1982:22).

More recently Olin and Blackman (1989) analyzed majolica samples from another New World Spanish site, that of Santa Catalina de Guale (Thomas 1988:73–146). The sampled sherds were classified by the site's excavators according to Goggin's (1968) and the Listers' (1982) criteria (Debra Peter 1986, pers. comm.), allowing them to be grouped according to presumed Old or New World origin as shown in Table 1. Data for the typologically Old World samples identified in the table are given in Appendix A. Data for all of the samples identified in Table 1 are published in Olin and Blackman (1989).

From the attributions of the types listed in Table 1, one would expect the two typological groups to have characteristically different lanthanum, cerium, and thorium concentrations. The bivariate plot of the concentrations of cerium and thorium in Figure 1 shows this to be so. The ellipses around each of the two clusters in the plot coincide with the 95 percent confidence limit for each of the two populations from which the samples were taken. Confidence limits are calculated with Mahalanobis distance and Hotelling's T2 statistic. The nonoverlapping ellipses and the small number of samples outside the ellipses (only two) represent an agreement of two independent means of ceramic classification, one visual and one compositional, further evidence for Olin's (Olin et al. 1978) compositional distinction between Old and New World majolica. As is evident in the spread of the data, however, there is significant chemical variability among the "Old World Types" shown in Figure 1.

Given the objective of verifying the provenance

TABLE 1
TYPOLOGY OF SAMPLES FROM SANTA
CATALINA DE GUALE

Туре	Quantity
New World Group	
San Luís Blue on White (Mexican variant)	17
Aucilla Polychrome	13
San Juan Polychrome	8
Mt. Royal Polychrome	4
Puebla Polychrome	2
Puebla Blue on White	1
Total	45
Old World Group	
Columbia Plain	14
Yayal Blue on White	5
San Luis Blue on White (Spanish variant)	3
Ichtucknee Blue on Blue	2
Santo Domingo Blue on White	2
Sevilla Blue on White	3
Santa Elena Mottled Blue on White	1
Unclassified Blue on White	1
Montelupo Polychrome	1
Total	32

of the Spanish export wares it is necessary to establish whether or not the products of majolica centers within Spain can also be distinguished compositionally. For this purpose majolica samples have been analyzed from the production centers of Seville, Talavera, and Manises shown on the map in Figure 2 (Jornet et al. 1985a, 1985b; Amores et al. 1988; McEwan 1988:120, 171). Sample selection could not be guided by rigorous criteria for all of these ceramics since the archaeology of Spanish colonial period Talavera and Manises is not yet well developed. Nevertheless, if the products of these centers can be distinguished by their chemical composition, then a trial grouping of the samples by find site should bear this out. Figure 3 illustrates the finding that there is in fact a compositional difference between the groups. A bivariate comparison using elements scandium and thorium readily differentiates the majolica found at the three centers. A similar pattern of separation

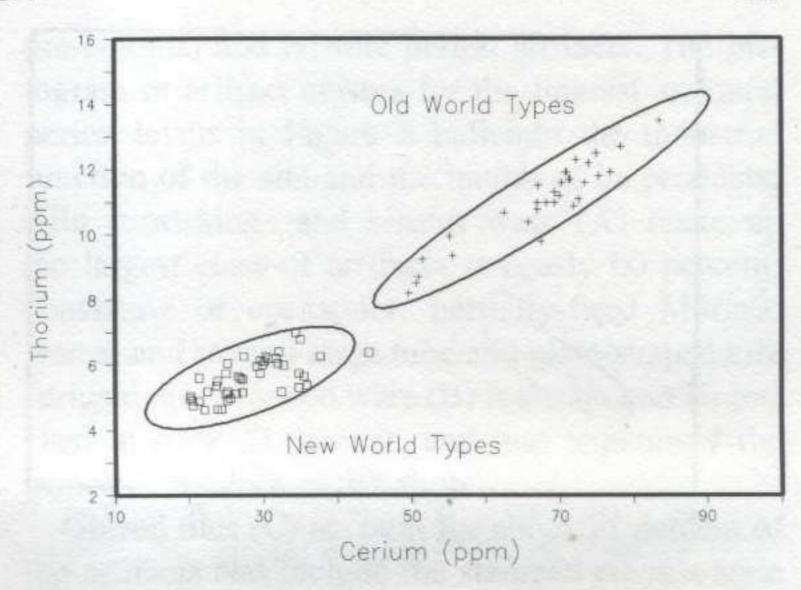


FIGURE 1. Thorium vs. cerium plot for typologically attributed Spanish and Mexican Majolica excavated at Santa Catalina de Guale (see Table 1).

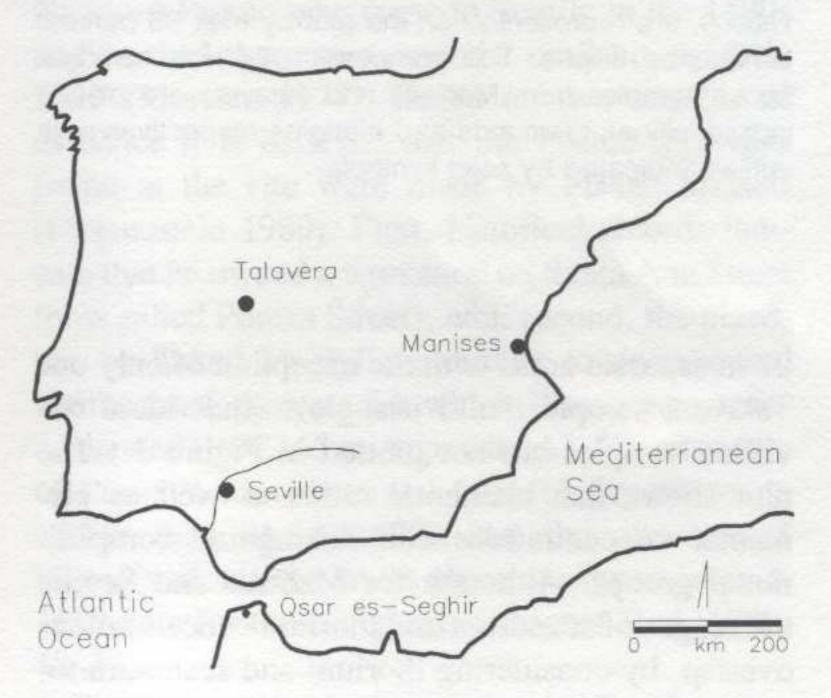


FIGURE 2. Map of western Mediterranean indicating locations of the three Spanish majolica production centers and the Moroccan site of Qsar es-Seghir.

was also seen in a variety of bivariate plots of the elements scandium, lanthanum, cerium, samarium, and thorium. The 95 percent confidence ellipse for the Seville group is based on 63 samples from the Pureza Street kiln site and 56 samples from a number of other 16th- and 17th-century sites in Seville. The ellipse excludes all other samples with the exception of one from Manises (solid diamond). Also the Manises and Talavera samples

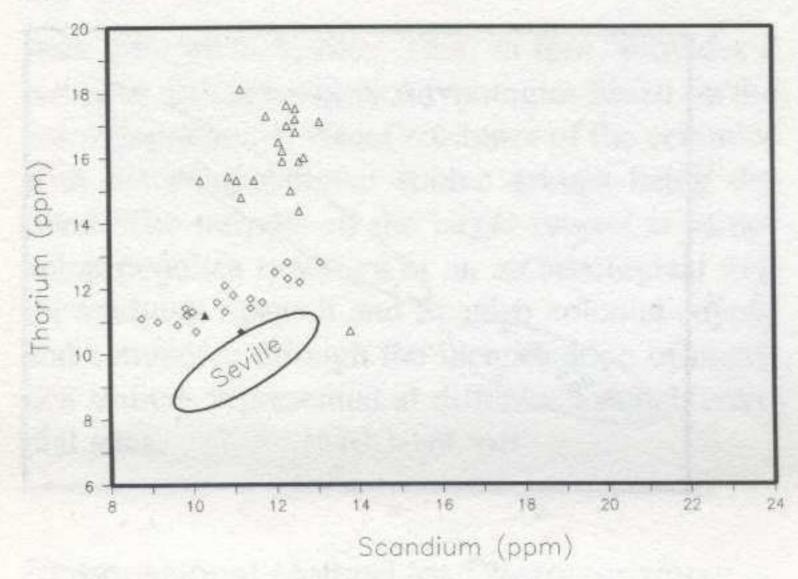


FIGURE 3. Thorium vs. scandium plot for samples of majolica found at the three Spanish production centers of Seville, Manises, and Talavera. The 119 Seville samples, which include artifacts from the kiln site and other excavations, are represented on the plot by their 95 percent confidence ellipse. The compositionally less homogeneous samples from Manises and Talavera are plotted individually as diamonds and triangles respectively with outliers indicated by solid symbols.

lie in separate areas with the exception of only one Talavera sample (solid triangle). (Individual Sevillian samples are not plotted in Figure 3.) The plot shows that elemental ratios as well as elemental concentrations can distinguish compositional groups. Although for Manises and Seville the ranges of scandium and thorium concentrations overlap, by considering thorium and scandium together the two groups can be separated. The bivariate separation is a consequence of the different patterns of scandium/thorium correlation within each of the two groups. The two groups of samples lie along different lines.

Comparison of production centers based on samples found at Seville, Manises, and Talavera has been useful in indicating that there are significant compositional differences between majolica presumed to have been made at these centers. Two issues remain however regarding the Talavera and Manises samples (Jornet et al. 1985a:238). First, it would be preferable to characterize the composition of the production centers based on artifacts from documented excavations. Second, in view of

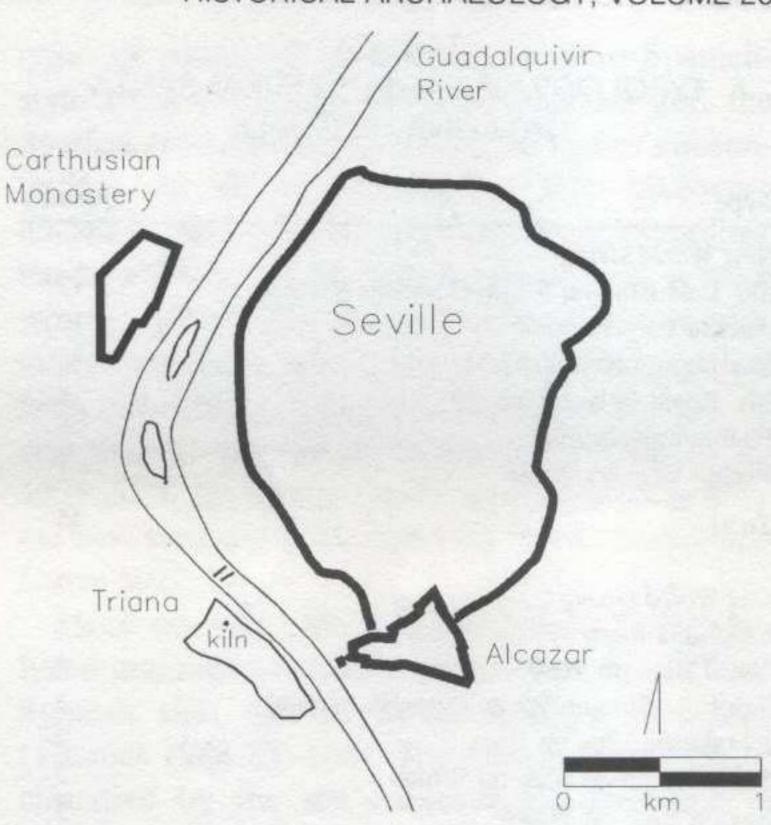


FIGURE 4. Map of 16th-century Seville indicating the locations of Triana and the kiln site.

the small sample size from these centers it is uncertain whether the outliers in Figure 3 represent other compositionally distinct groups from the presumed production centers, or imports from another source. Both issues await additional archaeological and compositional research on Manises and Talavera ceramics.

Archaeological Evidence of Seville Majolica Production

In the case of Seville, recent excavations have provided archaeological data on 16th-century majolica industries. The city currently maintains a program of rescue archaeology in its historic district, which has included the suburb of Triana since 1986 (Figure 4). As part of this program Lorenzo and Vera (1987:574–580) made the first excavations in Triana at the instigation of Amores in the winter of 1986. The excavations revealed part of a ceramic workshop and kiln at 44 Pureza Street, providing artifacts for a preliminary compositional

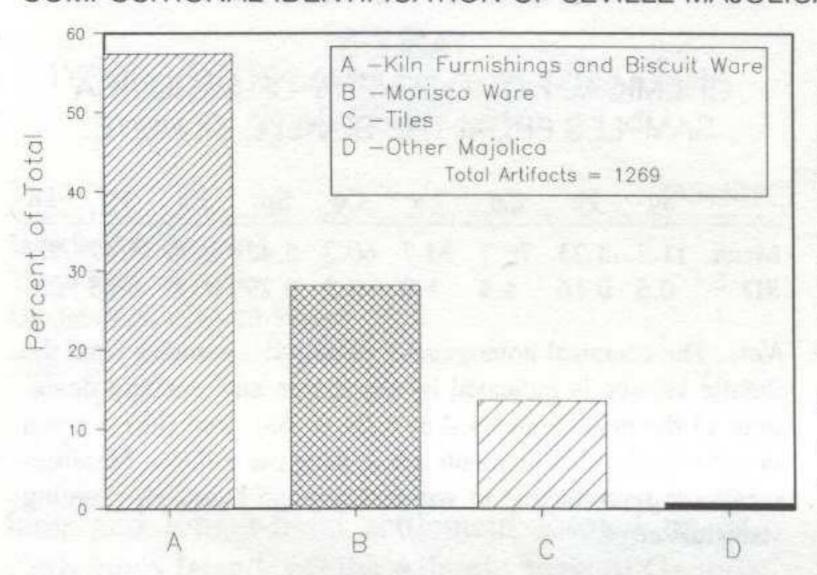


FIGURE 5. Frequency of four classes of ceramic artifacts excavated at the Pureza Street kiln site.

study (Amores et al. 1988). The largest component of the site dates to ca. 1500-1600 based on the ceramic types present (Amores et al. 1988:12-13). This component includes a layer of fill that was deposited over a much shorter period of time in the bottom of a ruined kiln. The deposit was most probably laid down in order to level the workshop area shortly after the kiln was dismantled. Based on stylistic parallels with ceramics found in the fill, the leveling operation took place some time in the first quarter of the 16th century. Sixteenthcentury Triana is known to have been a majolica production center with as many as 30 active kilns (Lister and Lister 1987:160). The kiln site found at 44 Pureza Street was thus only one of many such workshops. Property boundaries as well as street names and addresses in Triana have changed since the 16th century so it is probable that the excavated site does not correspond precisely to the shop to which the kiln belonged. Although no other kilns have been found, the kiln furnishings and early 16th-century pottery dumped into the kiln were not necessarily fired in it. The later 16th-century majolica and the 17th-through 18th-century majolica excavated at the site must have been fired elsewhere, probably in kilns that are now buried beneath adjacent modern buildings.

Over 3,000 ceramic artifacts were found at the Pureza Street site, including a sizeable quantity of

pre-colonial and Islamic period artifacts. The histogram of artifact classes for the Spanish colonial period levels in Figure 5 indicates the industrial function of the site and the nature of its products. Kiln furnishings and biscuit ware (A) make up the largest class of artifacts at nearly 60 percent, consisting of cockspurs, partially-fired Morisco wares, and several large tube and plate-shaped kiln furnishings. Morisco ware (B) is the second largest class at over 20 percent, and was apparently the principal product of the shop.

Glazed tiles (C) account for about 15 percent of the artifacts and include the stamped cuenca style and the flat painted Pisano style, with cuenca in the majority. Pisano tiles were first made in Spain in the first decade of the 16th century by Francisco Niculoso Pisano who came to Seville in the 1490s and worked there as a ceramist until his death in 1529 (Morales 1977). Based on two sources of evidence it is believed that the Pisano-type tiles found at the site were made by Pisano himself (Pleguezuelo 1989). First, historical records indicate that he owned a workshop on Santa Ana Street (now called Pureza Street), and, second, the pieces can be linked by stylistic criteria to documented architectural projects for which Pisano was commissioned (PUZ165 in Appendix A). The presence of Pisano's tiles dates the kiln fill deposit to no earlier than about 1509, and the absence of Pisano's tiles in the layers above it suggests a post-1529 date for those deposits (Amores et al. 1988: 12-13).

Finally, a mixed group of non-Morisco ware majolica types (D) accounts for the remaining 1 percent of the ceramics. Two of the artifacts are fused plates (PU0051 and PU0073) of the 17th-through 18th-century type called Seville Delft-like that were found very near the surface of the site (McEwan 1988:429; Solís 1988:130). Two others are tiles (PU1230 and PU1250) of Caparra Blue, and another is a glazed terra-cotta Christ figurine (PU2024).

To summarize, the workshop was functioning as a producer of Morisco ware majolica in the 16th century, and the same workshop, or a neighboring one, continued producing majolica until as late as the 18th century.

TABLE 2
TYPOLOGY OF SAMPLES FROM SEVILLE KILN
SITE AT 44 PUREZA STREET

Туре	Quantity
Isabela Polychrome	21
Columbia Plain	16
Yayal Blue on White	5
Santa Elena Mottled Blue on White	3
Santo Domingo Blue on White	3
Caparra Blue (tile)	2
Pisano Tile	1
Seville Delft-like	2
Unclassified Blue on White	3
White-glazed Figurine	1
Biscuitware Wasters	2
Cockspurs	4
Total	63

A Compositionally Defined Source for Seville Majolica

In order to establish a compositional baseline for comparisons with majolica from colonial sites, 63 ceramic samples from the Pureza Street site were analyzed. These include 16 samples from the early 16th-century fill layer of the kiln and 47 dating primarily from later 16th-century contexts. (Although other Seville samples were included along with the Pureza Street samples in Figure 3, they are from less controlled archaeological contexts.) Chemical data and typological identification of the 63 source samples are given in Appendix A, and a typological summary of the samples is given in Table 2.

Table 3 contains the group elemental concentrations of the Pureza Street artifacts, data that indicate a very consistent composition. One standard deviation is 6 percent of the mean or less for the nine elements, a degree of homogeneity that justifies considering the group as a compositional source. This uniformity of composition confirms that all members of the group, not just the wasters and kiln furnishings, belong to the same production source. As shown in Table 2 the Pureza Street group includes 15 samples of non-Morisco ware ceramics, indicating considerable typological vari-

TABLE 3
CHEMICAL HOMOGENEITY OF MAJOLICA
SAMPLES FROM THE SEVILLE KILNSITE

. Page	Sc	Fe	Zn	La	Ce	Sm	Eu	Hf	Th
Mean	11.2	3.23	76.7	34.7	60.2	5.42	1.06	5.47	9.7
SD	0.6	0.16	4.4	1.9	3.2	0.29	0.06	0.35	0.6

Note. The chemical homogeneity of majolica samples from the Seville kilnsite is indicated by the means and standard deviations of the nine elements shown (N = 63). Iron (Fe) is given in percent; all other elements are in parts per million. Measurements are reproducible to within 1 percent based on counting statistical error.

ation in the ceramics produced by the shop. Also, the 17th- to 18th-century date of the two Seville Delft-like pieces, which are compositionally indistinguishable from the Morisco wares and kiln furnishings, suggests that this source underwent little if any compositional change over time. If this pattern proves to be generally true for Seville's majolica production of the Spanish colonial period then the problem of identifying Seville and non-Seville majolica at overseas sites would be resolved. This potentially very significant finding will be examined in current research which includes the analysis of later Spanish colonial period majolica types from Sevillian archaeological contexts.

The Seville Source Compared with Majolica at Overseas Sites

Comparable chemical data for majolica exist for two overseas sites presumed to have been supplied from Spain. The first site is the North African Portuguese fort of Qsar es-Seghir (1458–1550). Documentary evidence indicates that the Portuguese soldiers at the fort were receiving supplies from Spanish ports (Boone 1980:121). The typology of the samples (Table 4) also indicates that the majority of the majolica used there was probably of Spanish origin (Boone 1984; Redman 1986; Sinopoli n.d.). The second site is the previously discussed mission of Santa Catalina de Guale (1567–1680), a

TABLE 4
TYPOLOGY OF SAMPLES ANALYZED FROM
QSAR ES-SEGHIR

Туре	Quantity
Isabela Polychrome	8
Yayal Blue on White	2
Unclassified Blue on White	1
Total	11

later and longer-lived settlement located on St. Catherines Island, off the Atlantic coast of Georgia (Thomas 1988:73–146). Although the Santa Catalina samples include both the Old and New World types in Figure 1 and Table 1, this article is concerned only with the presumed Old World types. More than half of these are Morisco ware including Columbia Plain and Yayal Blue on White, with the remainder consisting of later, related types.

Figure 6 illustrates the compositional relationship of the Qsar es-Seghir and Santa Catalina de Guale samples with the Seville source group. A similar pattern of separation was also seen in a variety of bivariate plots of the elements scandium, lanthanum, cerium, samarium, and thorium. Since Manises and Talavera were important majolica production centers, the ranges of values for those samples are indicated as well. In Figure 3 it was seen that the Manises and Talavera sources were distinct from each other and from Seville. In Figure 6 it can also be seen that the overseas samples are largely distinct from the Manises and Talavera sources. A total of three Santa Catalina de Guale and Qsar es-Seghir samples lie within the dashed area for Manises. More important is the fact that the majority of the Qsar es-Seghir samples fall within the Pureza Street confidence ellipse while only five of the 32 Santa Catalina Spanish samples do. Also, unlike the Santa Catalina samples that are close to the Seville source, the Qsar es-Seghir samples are evenly distributed in a cluster that stretches from the lower end of the ellipse to just outside its upper boundary. This pattern is further evidence of a much closer relationship between these Qsar es-Seghir majolica samples and the Seville source group.

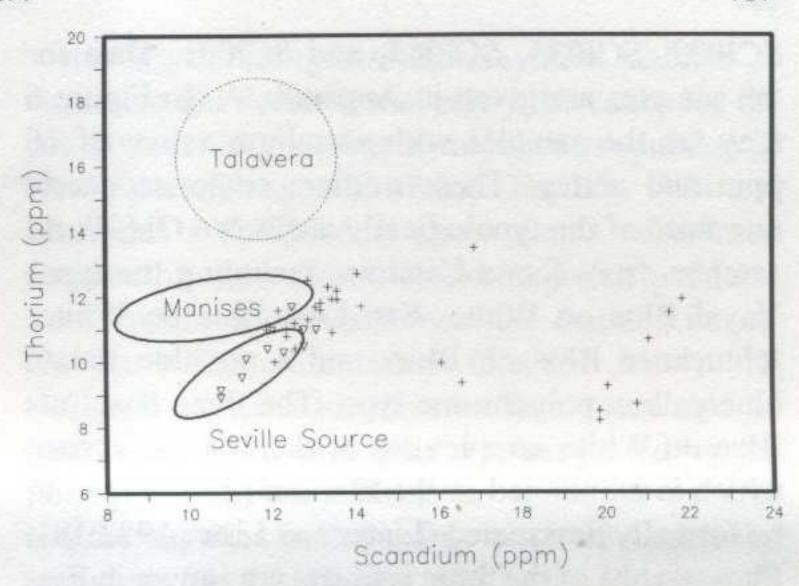


FIGURE 6. Thorium vs. scandium plot of majolica groups from Seville, Manises, and Talavera compared with Santa Catalina de Guale "Old World" samples (crosses) and Qsar es-Seghir samples (triangles). The solid enclosures mark the 95 percent confidence ellipses for the Seville and Manises sources. The dotted enclosure marks the extent and approximate shape of the distribution of the Talavera samples. Probability ellipses were not used for these samples due to the uncertainty of their context and inhomogeneity in their composition.

The 20 Santa Catalina samples closest to the Seville source group straddle the upper boundary of the ellipse with some inside it and most outside of it. Nearly all, however, have scandium/thorium ratios similar to the Seville group. A number of factors could contribute to such differences among ceramics from a single locale, one possibility being the blending of clays. It is known that a blend of clays has been used in Seville both from descriptions of the clays used for majolica in recent times (Gonzales and Garcia 1966) and from petrographic examination of archaeological majolica from the region (Jornet et al. 1985a). Although it is not apparent precisely how the observed differences could have been produced by blending, it is believed that these Santa Catalina sherds are related to the Seville source.

In view of the expectation that the Spanish colonies received the majority of their tableware from Sevillian industries, the 10 Santa Catalina ceramics that lie well away from the Seville group are particularly interesting. They are samples SCI042, SCI052, SCI075, SCI002, SCI003, SCI004,

SCI007, SCI033, SCI065, and SCI061. Data for the samples are given in Appendix A. In Figure 6 they are the samples with scandium values of 16 ppm and above. These outliers comprise nearly one-third of the typologically attributed Old World samples from Santa Catalina, including the types Yayal Blue on White, San Luís Blue on White, Ichtucknee Blue on Blue, and a possible Italian blue/yellow polychrome type. The three San Luís Blue on White samples are of the Spanish variant which is mentioned in the literature but has yet to be formally designated (Lister and Lister 1982:18). Photographs of the three artifacts are shown in Figure 2 in Olin and Blackman (1989). The three do not match any of the other Spanish groups in this database. The probability that these apparently non-Spanish ceramics found at Santa Catalina de Guale are simply 17th-century Sevillian wares is diminished by the fact that two post-16th-century sherds (PU0051 and PU0073) excavated at the Pureza Street kiln site have compositions that are not significantly different from the 16th-century samples from the kiln site. There are four Yayal Blue on White samples among the outliers (SCI002, SCI003, SCI004, and SCI007), and these likewise cannot be matched with the Seville source group or with any of the other Old World sources. A published whole vessel found in Seville and identified as a 16th-century Triana product is stylistically very similar to the small Yayal Blue on White sherds in question (Pleguezuelo 1985:73, #20). The rim decoration on the sherds, however, is also similar to that of a vessel shown in a photograph by Deagan (1987:111,p1.5,h) as an example of the 17th- and 18th-century Blue-Green Basin type which is thought to be of New World origin. Whichever of these two majolica types is the closest parallel for these samples, the uncertainty underscores the looseness of the visual criteria for Yayal Blue on White (cf. Deagan 1987: 58). Even the simple-design variant of this type shows a wide variation in line thickness, in the shade of blue and white color, and in vessel shape and thickness. When sources of these and other variants are compositionally identified, an additional basis will exist for refining the criteria and possibly designating type variants.

One of the two Ichtucknee Blue on Blue samples (SCI033) from among the Santa Catalina de Guale outliers raises questions about the existing typology for blue on blue majolica of the Spanish colonial period. The sample matches very closely the composition of two blue on blue samples (SB30 and SB31) from the Metro excavations in Mexico City (Olin et al. 1978) and also matches the composition of two majolica sherds from Albisola, Italy, analyzed by the British Museum (Michael Hughes 1986, pers. comm.). Initial classification and a re-examination of the two Mexico City blue on blue finds (SB30 and SB31) indicate that they fit the visual characteristics of the Listers' (1982: 72-74) Italian variant of Ichtucknee Blue on Blue (Goggin 1968:135). Not so for the blue on blue sherd (SCI033) in question from Santa Catalina which, despite its Italian composition, is Spanish in appearance (Lister and Lister 1982:44,P; Deagan 1987:108,p1.2,D-G). (The composition of this sherd (SCI033) is also similar to another one of the Santa Catalina outliers (SCI061) which is classified as Montelupo Polychrome, an Italian type.) The other Santa Catalina Ichtucknee Blue on Blue sherd (SCI065) appears to be an example of the Spanish variant as well. Its composition is, however, similar to neither the Seville group nor to SCI033. From these inconsistencies, it is concluded that the defining criteria for the two blue on blue types are in need of any refinement that additional compositional research could bring.

To summarize the source comparisons, the Qsar es-Seghir samples are indistinguishable from the Seville source group while a substantial number of the Santa Catalina de Guale samples are not closely related to any known source. Still, nearly two-thirds of the Santa Catalina samples are from a source that is probably related to this Seville source group. The nature of this relationship, which we suspect is depositionally influenced, will be investigated further in a later article.

Discussion

A major historical trend accompanying the development of production and distribution systems for Spanish export majolica was the European

overseas expansion that began in the 15th century. A continuing objective of the current majolica research is to gather new archaeological and compositional data to document the systems of majolica production and distribution that developed and changed as a result of the expansion of the Spanish empire. It is appropriate now to consider this broader question in the light of the new chemical data presented in this article.

These chemical data indicate that majolica supply systems for the two overseas colonial sites, one in North Africa and one in North America, were different. Qsar es-Seghir's Morisco wares were from a single source that is essentially indistinguishable from the Seville reference group. Santa Catalina de Guale's majolica came from multiple sources which, with the exception of one source, are clearly distinct from the Seville source. The existence of multiple majolica sources for Santa Catalina de Guale is potentially very significant. One hypothetical explanation for the later occurrence of multiple sources is that there was a change over time in the organization of Seville's majolica industry. Qsar es-Seghir (1458-1550) was established nearly 50 years before Columbus' first voyage, and Santa Catalina de Guale (1567-1680) was established over 100 years later, after an economic and administrative apparatus for Spain's New World holdings was already in place. The data from the two sites may therefore be a compositional approximation of Seville majolica production at two different stages in its development.

Perhaps the export majolica industry consisted at first of a small number of Triana shops that used a single source of clay. Then as a consequence of expanded demand in Seville and the New World the industry came to include many more shops, some of which may have been outside of Triana and perhaps even outside of Seville. This would explain the increased number of sources evident in the chemical data. The hypothesis is also consistent with documentary records that indicate a major expansion of Seville's ceramic industry (Lister and Lister 1987:160), an expansion that increased the need for raw materials to the point that legal disputes resulted over access to potting clay (Lister and Lister 1987:334, note 362).

It is worth noting here that Seville's inability to meet colonial demand was partly the cause for the late 16th-century advent of majolica production in New Spain (Deagan 1987:20). Further, Olin and Blackman's (1989) data show that a substantial number of these New World majolica products from Puebla also helped meet the demand for tableware at Santa Catalina de Guale.

Supply systems for the two sites must also be considered. Qsar es-Seghir was supported by the Portuguese Crown with direct subsidies used to acquire supplies in the nearby ports of Andalusia, including Seville (Boone 1980:45). In addition, the Portuguese had dealings with suppliers in the ports of Cádiz, Jerez del la Frontera, Malaga, and Puerto Santa Maria. Whatever the cause for the multiple sources at Santa Catalina de Guale may be, the existence of a single source at Qsar es-Seghir provides significant information on the history of the majolica industries of Andalusia. The finding that the Qsar samples came only from Seville, the furthest of the possible supply ports, is evidence that there were no majolica industries at or near these other ports in the late 15th and early 16th centuries.

Logistics and administration determined that Spanish colonial supply systems for the circum-Caribbean region would never be so straightforward as for the Portuguese in North Africa (Andrews 1978). In general, officials followed the principles of mercantilism rather than cost when dealing with the Spanish colonies. In 1503 the Crown established the Casa de Contratacion in Seville to regulate import and export trade with the New World (Andrews 1978:55), and by the mid-16th century, trans-Atlantic shipping had been organized into two yearly convoys or flotas that supplied European goods to the colonies and transported precious metals from New Spain and Central and South America back to Spain (Haring 1947:304). Trade within the colonies was, in theory, also highly regulated. These strict commercial policies were responsible, at least in part, for the shortages of imported Spanish goods in the colonies attested to by both historical and archaeological data (Andrews 1978; Deagan 1983; South et al. 1988). Contraband trade, however, apparently

augmented the legal trade in some cases, as numerous reports of Caribbean smuggling reached Spain in the 16th century (Andrews 1978:54). The question of contraband ceramics is now being investigated by Skowronek (1989) and must be considered more fully in future compositional research.

More specifically, the settlements of the colony of La Florida, including Santa Catalina de Guale, were supplied by a situado or yearly supply allowance which after 1574 came via St. Augustine from Mexico (Bushnell 1981:63–74; Sluiter 1985: Table 1). Shipments of European-made goods that came with the situado would have been assembled in Spain (most often in Seville) and sent from licensed ports there (McAlister 1984:245). While this arrangement did not rule out the official supply of non-Sevillian or even non-Spanish ceramics, it probably did exclude ceramics from European countries such as England and France that did not have friendly relations with the Spanish empire.

Thomas (1989) and Reitz (1989) on the other hand report evidence that the mission's Franciscan friars may have been engaged in unofficial com-

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mercial activity, which would have brought them into contact with suppliers of illicit European goods. French and English traders in the area cannot therefore be ruled out as suppliers of glazed tableware.

Still, the current compositional data are consistent with the interpretation that all of the Santa Catalina de Guale majolica, including the Mexican material from Puebla (Olin and Blackman 1989: 87-112), came from St. Augustine's situado. If this is true, then the multiple sources resulted from a changing organization of the Spanish industries supplying the colonies. The Santa Catalina samples, however, are also consistent with a combination of situado majolica and illicit majolica. Since St. Augustine and Santa Elena both relied on the situado, data from both sites will be useful for addressing this question, and it will also be necessary to determine the origin of the Old World majolica that does not match the Seville source. Until these additional data are available, both explanations for Santa Catalina de Guale's multiple sources remain as working hypotheses.

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	0.791	1.31	15.60	11.5	80.2	3.21			4 11.40		-	0 5.40			_							6.6
	.587	1.85	15.49	12.0	73.6	3.26																10.0
	.714	1.33	15.31	11.9	77.8	3.26					-											10.2
	.468	1.83	15.49	11.5	74.5	3.37																8.6
	.643	1.32	14.79	10.8	75.0	3.16																9.7
	929	1.45	23.60	11.9	82.4	3.36																10.0
	.527	1.77	17.50	11.11	70.5	3.11																8.6
	.548	1.24	16.22	10.2	70.5	2.92																8.6
	604	1.49	15.49	11.11	77.1	3.23									-							9.1
	472	1.58	17.70	10.5	62.7	3.06																9.4
	493	1.51	15.70	11.2	76.9	3.15					- Commercial Commercia											9.5
	505	19.1	15.00	11.3	73.3	3.18																9.6
	515	1.49	18.28	11.3	78.2	3.26																6.6
	543	1.49	15.89	11.0	77.4	3.19					-											9.7
	538	1.96	15.49	11.9	77.8	3.35		6.97 7	ATTE													10.3
	209	1.52	17.70	11.3	73.1	3.21					-											10.3
	594	1.75	15.42	11.7	78.9	3.35			1000													10.0
	575	69.1	15.70	11.6	83.4	3.35																10.0
	718	1.29	14.09	11.8	83.4	3.41																10.1
	526	1.44	16.60	11.4	76.7	3.18					-							× .				10.5
	574	1.73	13.90	12.0	77.1	3.29	12.1			91.8	8 500		382	36.3	8 62.7	5.66	1.11	2.57	0.377	5.58	1.06	10.2
									Ÿ	olumbia	Plain	Type-										
	0.565	1.44	14.69	12.2	84.7	3.61			4 16.41	94.						5.69			0.381	5	1.08	10.0
	0.600		12.11	11.7	75.7	3.35	13.5	5 79.4		88.9	9 440	5.07	556	35.1	62.2	5.51	1.08	2.49	0.353	5.81	1.00	9.7
	0.507	1570	14.59	10.0	68.1	3.03			-							4.80			0.313	5	96.0	8.6
	0.425	1.70	14.39	10.5	59.6	3.17			1 11.40						-	5.13			0.336	5.	1.02	9.0
	655		14.59	11.0	72.4	3.13			-							5.13			0.329	5.	1.23	8.9
	492		13.21	10.9	74.8	3.22			-		53/271				-	5.04			0.370	5.	0.99	9.4
	592		22.39	11.7	77.6	3.29			-							5.14			0.335	4	0.75	9.2
	561		20.51	11.3	75.2	3.31			-		120					5.32			0.348	S	0.92	9.6
	468		19.32	11.5	76.2	3.31			1							5.60			0.413	5	1.10	10.2
	352		22.39	11.1	58.9	3.29			1		1000			12		5.20			0.385	4	0.85	9.2
	612		14.00	11.1	79.8	3.23			1						-	5.38			0.324	5.	0.94	6.6
	668		13.21	12.1	86.7	3.52			-							5.52			0.363	5	1.09	10.0
	643		12.19	11.9	82.2	3.49			1		7-11-11					5.65			0.348	S	1.15	10.4
	504		21.28	9.01	8.79	3.02			_							5.14			0.312	5.	0.99	9.0
PUR004 0.	0.695		13.09	11.1	9.91		13.		-		77/20			310		5.14			0.339	5.	0.97	9.7
PU1080 0.	574	1.38	17.99	11.6	81.5	3.35	13.0		4 13.90							5.45			0.310	5.	1.05	10.1
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3.06 11.6 74.1 14.19 71.8 460 4.63 416 32.8 56.4 5.11 0.98 2.32 0.321 5.02 0.91 3.37 16.4 78.3 14.59 109.9 610 5.61 793 33.1 57.1 5.16 1.05 2.53 0.403 5.06 1.24 3.55 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 —Santo Domingo Blue on White Type— Santo Ling 1 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00	3.06 11.6 74.1 14.19 71.8 460 4.63 416 32.8 56.4 5.11 0.98 2.32 0.321 5.02 0.91 3.37 16.4 78.3 14.59 109.9 610 5.61 793 33.1 57.1 5.16 1.05 2.53 0.403 5.06 1.24 3.55 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 2.32 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 2.32 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 2.32 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 2.38 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 3.27 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 3.16 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09	3.75 13.1 13.10 13.1 1	11.6 74.1 14.19 71.8 460 4.63 416 32.8 56.4 5.11 0.98 2.32 0.321 5.02 0.91 16.4 78.3 14.59 109.9 610 5.61 793 33.1 57.1 5.16 1.05 2.53 0.403 5.06 1.24 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.403 5.06 1.24 14.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 -Santa Elena Mottled Blue on White Type- 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09 -Caparra Blue Type- -Caparra Blue Type- 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92	3.7 16.4 78.3 14.59 109.9 610 5.61 793 33.1 57.1 5.16 10.8 2.53 0.403 5.06 1.24 3.5 11.9 71.8 460 4.63 14.8 37.5 6.5 5.92 1.15 2.53 0.321 5.02 0.99 3.5 13.1 72.1 10.21 88.1 580 4.97 428 37.5 6.5 5.92 1.15 2.53 0.332 6.05 0.92 3.3 16.4 78.3 14.59 10.99 10.9 640 2.94 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.3 1.2 12.2 79.8 11.91 115.1 570 6.40 2.94 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.0 14.1 7.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 3.24 12.4 76.6 11.69 96.4 630 6.55 373 345 38.1 65.5 5.96 1.16 2.36 0.371 5.65 0.89 3.27 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 3.27 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.00 2.46 0.365 5.25 1.09 2.86 1.20 2.48 0.352 5.25 1.09 2.86 1.20 2.48 0.352 5.25 1.09 2.48 0.352 5.25 1.09 2.86 1.20 2.48 0.352 5.25 1.09 2.86 1.20 2.48 0.352 5.25 1.09 2.86 1.20 2.48 0.352 5.25 1.09 2.88 1.39 2.48 0.350 5.75 2.43 34.7 59.0 5.38 1.00 2.49 0.366 5.37 0.95 2.86 1.20 2.49 0.366 5.37 0.95 2.86 1.20 2.40 0.366 5.37 0.95 2.86 1.20 2.34 5.00 1.00 2.39 2.35 5.25 1.08 2.94 0.395 5.35 5.35 5.35 5.35 5.35 5.35 5.35	3.7 16.4 78.3 14.59 109.9 610 5.61 793 33.1 57.1 5.16 10.8 2.53 0.321 5.02 0.97 3.1 16.4 78.3 14.59 109.9 610 5.61 793 33.1 57.1 5.16 10.8 2.53 0.403 5.06 1.24 3.55 13.1 72.1 10.21 88.1 580 4.97 428 77.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 0.92 3.25 13.1 72.1 10.21 88.1 580 4.97 428 77.5 66.5 5.92 1.15 2.53 0.331 5.05 0.92 0.92 3.2 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.2 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.2 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.315 5.62 0.89 3.24 12.4 76.6 11.69 90.4 6.30 6.55 373 346 38.1 6.5 5.96 1.16 2.53 0.406 5.06 0.96 3.27 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.02 2.24 1.07 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09 2.86 12.2 6.22 1.24 70.6 11.0 7.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.00 2.49 0.365 5.37 0.95 2.86 12.2 6.22 6.22 1.24 3.3 5.2 5.2 1.08 2.48 1.00 2.17 0.291 5.27 0.89 2.36 1.24 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.00 2.17 0.291 5.27 0.99 2.36 1.25 6.25 1.29 2.39 1.05 0.98 2.38 1.00 5.30 3.83 40.8 30.3 5.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3	0.736 1.29 22.08 11.6 78	22.08 11.6		7	6.3	3.35	12.6	76.7	12.11	80.8	570	4.83	373	36.0	62.5	5.65	1.08		0.346	5.70	0.92	10.0
3.37 16.4 78.3 14.59 109.9 610 5.61 793 33.1 57.1 5.16 1.05 2.53 0.403 5.06 1.24 3.55 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 4.55 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 4.52 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00	3.55 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.403 5.06 1.24 3.55 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 -Santo Domingo Blue on White Type- 3.22 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 -Santa Elena Mottled Blue on White Type- 3.33 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 3.27 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 3.16 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09	3.37 16.4 78.3 14.59 109.9 610 5.61 793 33.1 57.1 5.16 1.05 2.53 0.403 5.06 1.24 3.55 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 -Santo Domingo Blue on White Type- 3.22 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 -Santa Elena Mottled Blue on White Type- 3.33 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 3.27 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 3.16 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09	16.4 78.3 14.59 109.9 610 5.61 793 33.1 57.1 5.16 1.05 2.53 0.403 5.06 1.24 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 -Santo Domingo Blue on White Type— 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 -Santa Elena Mottled Blue on White Type— 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09 -Caparra Blue Type— -Caparra Blue Type— 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92	3.37 16.4 78.3 14.59 109.9 610 5.61 793 33.1 57.1 5.16 1.05 2.53 0.403 5.06 1.24 3.55 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 -Santo Domingo Blue on White Type- -Santa Elena Mottled Blue on White Type- -Caparra Blue Type- -Caparra Blue Type- -Seville Delft-like Blue on White Type- -Seville Delft-like Blue on White- -Drolassified Blue on White- -Drolassified Blue on White- -Drolassified Blue on White- -Nhite Glazed Figurine- -White Glazed Figurine- -White Glazed Figurine- -White Glazed Figurine- -White Glazed Figurine- -Nhite Glazed Figurine- -Respective Alice Ali	3.37 16.4 78.3 14.59 109.9 610 5.61 793 33.1 57.1 5.16 1.05 2.53 0.403 5.06 1.24 3.55 13.1 72.1 10.21 88.1 580 4.97 428 77.5 65.5 5.92 1.15 2.53 0.332 6.05 0.92 -Santo Domingo Blue on White Type— Santa Elena Mortled Blue on White Type— -Santa Elena Mortled Blue on White Type— 3.31 13.3 83.2 10.89 86.1 580 5.33 346 38.1 65.5 5.96 1.16 2.38 0.311 5.65 0.89 3.27 14.0 70.3 13.49 87.7 580 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 3.28 1.09 1.050 100.0 550 5.75 243 34.7 50.0 5.38 1.00 2.48 0.352 5.25 1.22 3.28 1.10 74.1 9.38 10.00 5.00 5.75 243 34.7 50.0 5.38 1.00 2.48 0.352 5.25 1.22 3.28 1.10 74.1 9.38 10.00 5.00 5.00 5.00 5.00 5.38 4.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	1.32 20.00 10.5	20.00 10.5		1.	0 10	3.06	11.6	74.1	14.19	71.8	460	4.63	416	32.8	56.4	5.11	0.98		0.321	5.02	0.91	9.2
3.55 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 -Santo Domingo Blue on White Type- 3.22 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00	3.55 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 -Santo Domingo Blue on White Type— 3.22 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 -Santa Elena Mottled Blue on White Type— -Santa Elena Mottled Blue on White Type— 3.33 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 3.27 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 3.16 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09	3.55 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 -Santo Domingo Blue on White Type— 3.22 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 -Santa Elena Mottled Blue on White Type— 3.33 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 3.27 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 -Caparra Blue Type—	13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 —Santo Domingo Blue on White Type— 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 —Santa Elena Mottled Blue on White Type— 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09 —Caparra Blue Type— 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92	3.55 13.1 72.1 10.21 88.1 580 4.97 428 37.5 66.5 5.92 1.15 2.53 0.332 6.05 0.92 -Santo Domingo Blue on White Type- -Santa Elena Mottled Blue on White Type- 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.65 0.89 3.25 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.315 5.62 1.00 -Santa Elena Mottled Blue on White Type- -Caparra Blue Type- -Caparra Blue Type- -Seville Delft-like Blue on White Type- -Seville Delft-like Blue on White Type- -Seville Delft-like Blue on White- 3.07 12.6 77.0 70.3 13.9 97.3 550 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 -Caparra Blue Type- -Seville Delft-like Blue on White- -Thelassified Blue on White- -Drisano Tile- -White Glazed Figurine- -White Glazed Figurine- -White Glazed Figurine- -Cookspur- -Cookspur- -Seville 15.31 48.0 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5	-Santo Domingo Blue on White Type- -Santa Elena Mottled Blue on White Type- -Caparra Blue Type- -Caparra Blue Type- -Cackspur- -Santa Elena Mottled Blue on White Type- -Cackspur- -Carta Class Fig. 8 5.47 1.06 2.38 0.316 5.37 1.02 -Santa Elena Mottled Blue on White Type- -Caparra Blue Type- -Cackspur- -Carta Class Fig. 8 5.47 1.06 2.38 0.316 5.37 1.02 -Caparra Blue Type- -Cackspur- -Carta Class Fig. 8 5.47 1.06 2.38 0.31 5.62 1.00 -Caparra Blue Type- -Cackspur- -Carta Class Fig. 8 5.47 1.06 2.36 0.374 5.00 1.00 -Caparra Blue Type- -Cackspur- -Carta Class Fig. 8 5.47 1.06 2.30 0.374 5.00 1.00 -Caparra Blue Type- -Cackspur- -Carta Class Fig. 8 5.45 1.08 2.49 0.366 5.37 0.38 -Cackspur- -Cathara Class Fig. 8 5.40 3.37 3.37 3.37 4.72 0.94 2.19 0.344 5.07 0.30 -Cackspur- -Carta Class Fig. 8 5.00 3.83 408 30.3 5.3.3 4.72 0.94 2.19 0.344 5.07 0.30 -Cackspur- -Ca	1.45 16.60 11.4	16.60 11.4		72	6	3.37	16.4	78.3	14.59	109.9	019	5.61	793	33.1	57.1	5.16	1.05		0.403	5.06	1.24	9.1
-Santo Domingo Blue on White Type- 3.22 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00	-Santo Domingo Blue on White Type- 3.22 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 -Santa Elena Mottled Blue on White Type- 3.33 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 3.27 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 3.16 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09	-Santo Domingo Blue on White Type- 3.22 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 -Santa Elena Mottled Blue on White Type- 3.33 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 3.27 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 3.16 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09 -Caparra Blue Type-	-Santo Domingo Blue on White Type- 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 -Santa Elena Mottled Blue on White Type- 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09 -Caparra Blue Type- 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92	-Santo Domingo Blue on White Type— 3.22 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 736 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.53 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 -Santa Elena Montled Blue on White Type— 3.33 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 3.72 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.00 2.48 0.352 5.25 1.22 3.24 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.48 0.352 5.25 1.20 2.86 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.48 0.396 5.37 0.95 2.86 11.2 4.29 7.82 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 2.86 11.6 80.5 10.50 94.8 510 5.81 385 35.1 5.55 5.0 0.94 2.19 0.345 5.0 0.94 2.86 11.2 4.70 70.3 13.49 87.1 580 5.81 385 35.0 61.5 5.50 1.00 2.94 0.396 5.37 0.95 3.17 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 2.94 7.0 5.20 1.00 2.94 0.396 5.43 0.97 2.99 2.39 0.378 5.36 0.95 3.31 3.3 84.3 12.39 93.3 52.0 4.53 35.0 61.5 5.56 1.09 2.99 0.366 5.43 0.97 4.94 403 33.6 5.70 5.70 1.02 2.29 0.366 5.43 0.97 4.94 403 33.6 5.70 5.70 1.02 2.29 0.366 5.43 0.97 4.94 403 33.6 5.71 1.07 2.18 0.36 5.94 0.98 4.94 4.94 4.94 4.94 4.94 4.94 4.94 4	-Santo Domingo Blue on White Type- -Santa Elena Mottled Blue on White Type- 3.27 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 73.6 13.6 73.6 4.60 3.72 378 33.3 88.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 -2 mata Elena Mottled Blue on White Type- -Caparra Blue Type- -Caparra Blue Type- -Seville Dellt-like Blue on White Type- -Drolassified Blue on White- -Unclassified Blue on White- -White Glazed Figurine- -White Glazed	14.69 12.1	14.69 12.1		82.	9	3.55	13.1	72.1	10.21	88.1	280	4.97	428	37.5	66.5	5.92	1.15		0.332	6.05	0.92	10.9
3.22 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00	3.22 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00	3.22 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 2.34 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 3.33 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 3.27 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 3.16 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09 1.09 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09	12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 14.1 73.6 13.61 73.6 460 3.72 378 33.3 58.2 5.28 1.04 2.37 0.371 5.65 0.89 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 -Santa Elena Mottled Blue on White Type- 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09 -Caparra Blue Type- 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92	3.22 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 14.1 73.6 13.6 73.6 460 3.72 378 33.3 88.2 5.28 1.04 2.37 0.371 5.65 0.89 3.24 12.4 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 3.33 13.3 83.2 0.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 3.27 14.0 70.3 19.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 3.28 12.7 75.9 10.50 10.00 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.00 1.09 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.95 3.16 11.6 80.5 10.50 94.8 510 5.81 385 35.1 5.85 1.08 2.49 0.366 5.37 0.95 3.17 12.4 77.6 9.33 95.1 550 5.98 284 35.7 1.07 2.21 0.382 5.86 1.12 3.33 13.3 84.3 12.39 93.3 520 4.63 305 35.5 6.18 5.56 1.09 2.39 0.378 5.36 0.95 3.25 13.2 80.5 11.51 98.9 44.9 40.3 35.5 5.71 1.07 2.21 0.382 5.94 0.95 3.27 11.6 84.3 15.10 95.1 500 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.43 0.97 3.27 11.6 84.3 15.10 95.1 570 5.62 470 37.7 65.3 577 1.09 2.24 0.320 5.51 0.98 3.27 12.6 84.3 15.11 490 6.22 406 37.2 64.7 57.9 1.14 2.59 0.328 5.50 1.17 3.27 15.4 88.1 15.31 12.11 490 6.22 406 37.2 64.7 57.9 1.14 2.59 0.328 5.50 1.17 3.29 15.4 88.1 15.31 12.11 490 6.22 40.5 77.5	3.22 12.2 79.8 11.91 115.1 570 6.40 294 35.5 61.8 5.47 1.06 2.38 0.316 5.37 1.02 3.10 41.1 736 1169 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 3.24 76.6 11.69 96.4 630 6.55 375 35.9 63.0 5.48 1.09 2.36 0.331 5.62 1.00 3.33 3.34 38.1 65.6 5.33 3.46 38.1 65.6 5.96 1.16 2.53 0.406 5.00 5.00 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.00 5.								-San	to Dom	ingo Bl		White 7	-ype-									
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3.33 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 3.27 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 3.16 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09			11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92	3.24 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 2.86 11.2 1.8 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.94 0.366 5.37 0.95 3.17 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 2.07 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 1.3 3.3 13.3 84.3 12.39 93.3 520 4.63 305 5.09 5.70 1.02 2.29 0.366 5.43 0.97 2.20 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.20 1.02 2.29 0.366 5.43 0.97 2.20 13.2 80.5 11.51 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.94 0.98 1.05 11.6 84.3 15.10 95.1 570 5.62 470 37.7 65.3 5.77 1.09 2.24 0.320 5.51 0.98 1.20 2.20 15.31 86.3 15.10 95.1 570 5.62 470 37.7 65.3 5.77 1.09 2.24 0.320 5.51 0.98 1.20 2.24 1.20 1.20 2.25 1.20 1.20 2.25 1.20 1.20 2.25 1.20 1.20 2.25 2.25 1.20 2.25 2.25 2.25 2.25 2.25 2.25 2.25 2	3.24 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 2.86 12.2 65.2 14.29 78.2 50 3.83 40.8 30.3 53.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 3.17 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 3.07 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 1.33 3.3 13.3 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.56 1.09 2.39 0.378 5.36 0.95 3.19 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.20 1.02 2.29 0.366 5.43 0.97 2.21 12.6 69.0 15.31 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.94 0.98 1.22 13.2 80.5 11.51 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.14 0.320 5.51 0.98 1.20 2.94 15.31 121.1 490 6.22 406 37.2 64.7 5.79 1.14 2.59 0.328 5.50 1.17 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3									P.	рагта В	lue Ty	be-										
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13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09 1.09 12.7 75.9 10.50 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 -Seville Delft-like Blue on White Type- -Seville Delft-like Blue on White Type- 11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95	-Caparra Blue Type- 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 -Seville Delft-like Blue on White Type- 11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95	-Seville Delft-like Blue on White Type- 11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95	11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95	-Unclassified Blue on White- 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 13.3 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.56 1.09 2.39 0.378 5.36 0.95 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.20 1.02 2.29 0.366 5.43 0.97 -Pisano Tile- 13.2 80.5 11.51 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.94 0.98 -White Glazed Figurine- 11.6 84.3 15.10 95.1 570 5.62 470 37.7 65.3 5.77 1.09 2.24 0.320 5.51 0.98 -Cockspur- 15.4 88.1 15.31 121.1 490 6.22 406 37.2 64.7 5.79 1.14 2.59 0.328 5.50 1.17	-Unclassified Blue on White- 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 13.3 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.56 1.09 2.39 0.378 5.36 0.95 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.20 1.02 2.29 0.366 5.43 0.97 -Pisano Tile- 13.2 80.5 11.51 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.94 0.98 -White Glazed Figurine- 11.6 84.3 15.10 95.1 570 5.62 470 37.7 65.3 5.77 1.09 2.24 0.320 5.51 0.98 -Cockspur- 15.4 88.1 15.31 121.1 490 6.22 406 37.2 64.7 5.79 1.14 2.59 0.328 5.50 1.17 12.2 75.9 10.89 84.5 460 3.36 358 33.0 58.1 5.24 1.02 2.62 0.361 5.61 0.99	15.60 11.3	11.3		80.0		3.17	12.4	9.77	9.33	95.1	550	5.98	284	35.7	61.2	5.52	1.08	2.94	0.299	5.73	0.98	8.6
13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09 12.7 75.9 10.50 100.0 350 3.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 12.2 65.2 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98	-Caparra Blue Type- 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 -Seville Delft-like Blue on White Type- 11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98	-Seville Delft-like Blue on White Type- 11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98	11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98	12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 13.3 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.56 1.09 2.39 0.378 5.36 0.95 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.20 1.02 2.29 0.366 5.43 0.97 —Pisano Tile— 13.2 80.5 11.51 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.94 0.98 11.6 84.3 15.10 95.1 570 5.62 470 37.7 65.3 5.77 1.09 2.24 0.320 5.51 0.98 —Cockspur— 15.4 88.1 15.31 121.1 490 6.22 406 37.2 64.7 5.79 1.14 2.59 0.328 5.50 1.17	12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 13.3 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.56 1.09 2.39 0.378 5.36 0.95 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.20 1.02 2.29 0.366 5.43 0.97 13.2 80.5 11.51 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.94 0.98 -White Glazed Figurine- 11.6 84.3 15.10 95.1 570 5.62 470 37.7 65.3 5.77 1.09 2.24 0.320 5.51 0.98 -Cockspur- 15.4 88.1 15.31 121.1 490 6.22 406 37.2 64.7 5.79 1.14 2.59 0.328 5.50 1.17 12.2 75.9 10.89 84.5 460 3.36 358 33.0 58.1 5.24 1.02 2.62 0.361 5.61 0.99										sified B	lue on	White										
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13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09 12.7 75.9 10.50 100.0 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12	-Caparra Blue Type- 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 -Seville Delft-like Blue on White Type- 11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 -Unclassified Blue on White- 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 1	-Seville Delft-like Blue on White Type- 11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 -Unclassified Blue on White- 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 1	11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 —Unclassified Blue on White— 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 1	-Pisano Tile- 13.2 80.5 11.51 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.94 0.97 -White Glazed Figurine- 15.4 88.1 15.31 121.1 490 6.22 406 37.2 64.7 5.79 1.14 2.59 0.328 5.50 1.17	-Pisano TileWhite Glazed FigurineCockspurCocks	0.491 1.92 12.11 11.1 71.8	11.1		71.8		3.33	13.3	84.3	12.39	93.3	520	4.63	305	35.0	61.5	5.56	1.09	2.39	0.378	5.36	0.95	9.5
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3.31 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 3.27 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 3.16 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09 2.48 0.352 5.25 1.22 3.24 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 2.86 11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.94 0.366 5.37 0.95 3.17 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.396 5.73 0.98 3.3 13.3 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.56 1.09 2.39 0.378 5.36 0.95 3.19 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.00 1.02 2.29 0.366 5.43 0.97 3.22 13.2 80.5 11.51 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.94 0.98	-Caparra Blue Type- 3.24 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 -Seville Delft-like Blue on White Type- 3.16 11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 3.17 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 -Unclassified Blue on White- 3.07 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 1 3.19 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.20 1.02 2.29 0.366 5.43 0.97 -Pisano Tile- 3.22 13.2 80.5 11.51 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.94 0.98	-Seville Delft-like Blue on White Type- 3.16 11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 3.17 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 -Unclassified Blue on White- 3.07 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 1 3.33 13.3 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.56 1.09 2.39 0.378 5.36 0.95 3.19 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.20 1.02 2.29 0.366 5.43 0.97 -Pisano Tile- 3.22 13.2 80.5 11.51 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.94 0.98	11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 13.3 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.56 1.09 2.39 0.378 5.36 0.95 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.20 1.02 2.29 0.366 5.43 0.97 13.2 80.5 11.51 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.94 0.98	3.27 11.6 84.3 15.10 95.1 570 5.62 470 37.7 65.3 5.77 1.09 2.24 0.320 5.51 0.98 -Cockspur- 3.57 15.4 88.1 15.31 121.1 490 6.22 406 37.2 64.7 5.79 1.14 2.59 0.328 5.50 1.17	3.27 11.6 84.3 15.10 95.1 570 5.62 470 37.7 65.3 5.77 1.09 2.24 0.320 5.51 0.98 -Cockspur- 3.57 15.4 88.1 15.31 121.1 490 6.22 406 37.2 64.7 5.79 1.14 2.59 0.328 5.50 1.17 2.94 12.2 75.9 10.89 84.5 460 3.36 358 33.0 58.1 5.24 1.02 2.62 0.361 5.61 0.99									-Whit		ed Figu	rine-										
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3.33 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 3.2 13.0 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 3.1 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 3.1 14.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.345 5.07 0.92 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.345 5.07 0.92 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.345 5.07 0.92 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 5.1 59.8 5.45 1.08 2.94 0.299 5.73 0.98 3.17 12.4 77.6 9.33 95.1 550 5.88 35.1 55.5 1.08 2.94 0.299 5.73 0.98 3.33 13.3 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.56 1.09 2.39 0.378 5.36 0.95 3.33 13.3 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.6 1.02 2.29 0.366 5.94 0.99 2.3 2.20 1.511 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.94 0.98 2.70 1.16 84.3 15.10 95.1 570 5.62 470 37.7 65.3 5.77 1.09 2.24 0.320 5.51 0.98	3.24 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 3.11 11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.94 0.299 5.73 0.95 3.17 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 3.17 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 3.17 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 1.33 3.33 13.3 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.56 1.09 2.39 0.378 5.36 0.95 3.19 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.20 1.02 2.29 0.366 5.43 0.97 -Pisano Tile- -Pisano TileWhite Glazed FigurineWhite Glazed FigurineWhite Glazed Figurine-	Seville Delft-like Blue on White Type- 3.16 11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 3.17 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 -Unclassified Blue on White- 3.07 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 1 3.33 13.3 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.56 1.09 2.39 0.378 5.36 0.95 3.19 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.20 1.02 2.29 0.366 5.43 0.97 -Pisano Tile- 3.27 11.6 84.3 15.10 95.1 570 5.62 470 37.7 65.3 5.77 1.09 2.24 0.320 5.51 0.98 1	11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 —Unclassified Blue on White— 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 1 13.3 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.56 1.09 2.39 0.378 5.36 0.95 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.20 1.02 2.29 0.366 5.43 0.97 —Pisano Tile— 13.2 80.5 11.51 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.94 0.98 1 11.6 84.3 15.10 95.1 570 5.62 470 37.7 65.3 5.77 1.09 2.24 0.320 5.51 0.98 1	3.57 15.4 88.1 15.31 121.1 490 6.22 406 37.2 64.7 5.79 1.14 2.59 0.328 5.50 1.17	3.57 15.4 88.1 15.31 121.1 490 6.22 406 37.2 64.7 5.79 1.14 2.59 0.328 5.50 1.17 2.94 12.2 75.9 10.89 84.5 460 3.36 358 33.0 58.1 5.24 1.02 2.62 0.361 5.61 0.99										-Cock	-ınds											
3.31 13.3 83.2 10.89 86.1 560 5.33 346 38.1 65.6 5.96 1.16 2.53 0.406 5.06 0.96 3.7 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 3.1 14.0 70.3 13.49 87.7 580 4.42 441 35.6 60.8 5.48 1.09 2.48 0.352 5.25 1.22 3.16 12.7 75.9 10.50 100.0 550 5.75 243 34.7 59.0 5.38 1.06 2.50 0.374 5.20 1.09 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.95 3.16 11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 3.17 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 3.07 12.6 74.8 11.19 70.1 520 4.55 353 36.1 5.50 61.5 5.56 1.09 2.39 0.378 5.36 0.95 3.31 33 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.56 1.09 2.39 0.378 5.36 0.95 3.19 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.20 1.02 2.29 0.366 5.43 0.97Pisano Tile	-Caparra Blue Type- 3.24 11.0 74.1 9.38 100.9 410 5.20 299 31.5 55.5 4.84 1.00 2.17 0.291 5.27 0.89 2.86 12.2 65.2 14.29 78.2 500 3.83 408 30.3 53.3 4.72 0.94 2.19 0.344 5.07 0.92 -Seville Delft-like Blue on White Type- 3.16 11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.94 0.299 5.73 0.95 3.17 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 -Unclassified Blue on White- -Unclassified Blue on White- 3.07 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 1 -Unclassified Blue on White- -Unclassified Blue on	-Seville Delft-like Blue on White Type- 3.16 11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 3.17 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 -Unclassified Blue on White- 3.07 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 1.33 13.3 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.56 1.09 2.39 0.378 5.36 0.95 3.19 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.20 1.02 2.29 0.366 5.43 0.97 -Pisano Tile- 3.22 13.2 80.5 11.51 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.94 0.98 -White Glazed Figurine- -Cockspur- -Cockspur-	11.6 80.5 10.50 94.8 510 5.81 385 35.1 59.8 5.45 1.08 2.49 0.366 5.37 0.95 12.4 77.6 9.33 95.1 550 5.98 284 35.7 61.2 5.52 1.08 2.94 0.299 5.73 0.98 -Unclassified Blue on White- 12.6 74.8 11.19 70.1 520 4.55 353 36.3 61.2 5.71 1.07 2.21 0.382 5.86 1.12 1.33 84.3 12.39 93.3 520 4.63 305 35.0 61.5 5.56 1.09 2.39 0.378 5.36 0.95 12.6 69.0 15.31 86.9 540 4.94 403 33.6 57.9 5.20 1.02 2.29 0.366 5.43 0.97 -Pisano Tile- 13.2 80.5 11.51 98.9 450 5.62 231 35.2 60.8 5.48 1.05 2.18 0.366 5.94 0.98 -White Glazed Figurine- 11.6 84.3 15.10 95.1 570 5.62 470 37.7 65.3 5.77 1.09 2.24 0.320 5.51 0.98 1		2.94 12.2 75.9 10.89 84.5 460 3.36 358 33.0 58.1 5.24 1.02 2.62 0.361 5.61 0.99	0.628 1.87 15.60 12.4 83.6	12.4		83.	9	3.57	15.4		15.31	121.1		6.22	406	37.2	64.7	5.79	1.14	2.59	0.328	5.50	1.17	10.2

	0	08	66	6	60	69	69	10	0	0	0/	11		61	50	51	7.1	25	00	66		30
9.1	9.0	11.30	10.99	11.19	10.99	11.5	11.5	2.11	10.7	10.40	11.7	12.7		12.19	8.7	8.5	8.7	9.2	10.01	10.99		1.21 12.30 (continued)
1.00	0.84	1.04	1.09	1.08	1.09	1.00	1.10	1.17	1 12	0.98	1.15	1.06		1.07	0.65	0.67	0.72	0.63	00 0	1.02		1.21
5.93	4.75	7.05	6.89	7.35	6.67	6.53	6.62	6.03	7.48	6.78	6.52	6.87		6.73	4.06	4.06	4.54	4.25	6.67	7.40		7.24
0.367	0.320	0.433	0.457	0.470	0.447	0.383	0.427	0.451	0.454	0.486	0.495	0.461		0.421	0.296	0.386	0.362	0.284	0 305	0.436		0.521
2.63	2.24	2.81	2.88	2.96	2.72	3.15	2.93	3.19	2.07	2.53	3.18	2.84		2.82	2.26	2.03	2.56	2.17	000	2.74		3.48
1.09	0.95	1.21	1.22	1.26	1.22	1.21	1.29	1.28	17.1	1.22	1.30	1.36		1.26	0.99	1.00	1.03	0.99	71.1	1.17		1.22
5.38	4.76	6.31	6.22	6.38	6.28	6.41	6.59	6.44	6.18	6.03	6.75	7.03		6.73	4.55	4.73	4.83	4.73	70 9	6.21		6.38
59.2	54.3	69.3	68.2	70.0	69.3	70.3	73.5	71.0	0/.0	65.8	71.5	78.3		74.0	49.7	50.7	51.1	51.5	0.13	68.2		72.3
34.4	31.3	40.1	39.4	40.5	42.7	8.04	42.5	41.0	39.4	37.8	40.9	44.6		42.9	27.2	27.9	28.1	28.2	30 0	39.0		40.5
304	385 243		509	446	402	443	518	428	481	447	491	394		412	265	348	326	389	-pe-	332	Type	238
3.62	F- 4.90 5.28	JALE 6-87	5.89	6.93	5.53	6.71	7.15	6.44	7.46	5.68	5.72	7.87	Type-	6.70	3.66	2.80	2.82	2.92	on White Type-	6.90	White	5.77
460 540	Waste 470 510	DE GU	500	550	430	470	470	470	430	540	540	390	White 7	470	1520	1750	2070	1840		550		420
93.1	96.2 96.2	LINA [mbia Pla	102.1	121.1	83.0	117.0	127.9	103.0	114.0	102.1	96.2	119.1	ayal Blue on	121.9	56.2	58.3	58.7	54.2	-Santo Domingo Blue	121.1	Santa Elena Mottled Blue on	43.2
13.61	-Bisc 12.50 10.99		10.21	10.21	13.00	10.69	10.50	12.59	11.91	17.50	14.79	12.39	Yayal B	80.6	3.10	9.75	6.05	6.70	o Domir	10.99	Elena Mo	34.20
81.3	76.4	SANTA 68.4	86.1	88.3	97.9	83.6	100.0	0.06	8.06	0.000	89.5	92.5		90.4	157.0	158.1	127.1	136.1	-Sant	85.1	-Santa F	65.3
14.6	16.1	3 4	15.5	12.8	13.9	12.1	13.6	13.5	13.5	13.8	14.1	14.4		14.2	16.9	20.8	18.8	17.8	2	13.6		23.2
3.14	2.94	3,66	3.49	3.61	3.79	3.50	3.73	3.70	3.74	3 57	3.66	4.04		3.86	4.73	4.78	4.80	4.98	,	3.52		3.71
65.5	62.7	90.4	80.4	88.5	86.5	84.1	88.5	93.5	84.7	81.1	88.7	99.1		81.7	130.0	130.0	130.0	132.1	-	82.2		89.5
10.9	10.2	12.0	12.4	12.6	13.6	12.2	13.2	13.5	12.4	17.6	13.1	14.1		13.6	19.9	19.9	20.8	20.1	:	12.1		13.4
15.70	22.91	10 30		11.80	9.84	12.79	10.99	13.61	14.79	9.18	13.21	9.29		9.31	11.99	10.21	10.30	10.99	3	11.40		11.99
1.95	1.67	0 55	1.42	1.02	1.39	0.82	1.26	1.00	1.07	1.13	1.30	0.92		2.04	1.17	1.18	1.17	1.26		1.29		0.70
0.485	0.601	0 801	0.543	0.796	0.755		81/	992.0	0.667	0.615	0.614	0.782		0.385	1.271	1.099	1.259	1.130	02.0	0.652		0.506
PU0002 PU3069	PU3135 PUR003	SCI013	SCI013	SCI015	SCI016	SCI020	SCI021	SCI022	SCI023	SCI025	SCI023	SCI035		SCI001	SCI002	SCI003	SCI004	SCI007) OOLOG	SCI010		SCI066

Appendix A: Chemical Composition of Samples as Determined by Instrumental Neutron Activation Analysis (Continued)

Na K Ca
0.989 1.36 10.89 16.6 428.5 4.55 0.499 0.89 10.59 16.9 105.0 4.65
0.785 1.28 18.20 12.0 99.8 3.40 0.785 1.27 14.49 12.1 91.6 3.44 0.716 1.11 12.11 13.5 105.9 3.78
0.995 1.55 3.96 21.6 136.1 5.20 1.030 1.24 5.69 21.9 134.9 5.30 1.130 1.56 3.91 21.1 150.0 5.21
0.646 0.80 13.30 16.1 375.8 4.45 23.3
0.750 0.94 9.62 12.9 90.8 3.84 13.0
1.55 14.79 10.8 72.9
1.47 12.11 12.8 87.7 3.69
1.69 12.91 12.8 80.4 5.62
1.79 11.69 11.9 /4.8 5.0/
1.04 11.31 12.3 63.7 3.01
13.1 84.5 3.64
1.38 13.61 11.9 75.9 3.30
13.21 11.4 73.6
0.659 1.05 15.60 10.8 76.4 3.18
0.497 1.70 14.59 11.3 70.8 3.24

ACKNOWLEDGMENTS

Assistance in the research came from Richard Ahlborn, Charlotte Andersen, James Blackman, Kathleen Deagan, Michael Hughes, Anna Moore, Bonnie McEwan, Debra Peter, Mercedes Rueda, and David Hurst Thomas. Charles Redman and David Hurst Thomas allowed the sampling of ceramics from the sites of Qsar es-Seghir and Santa Catalina de Guale, respectively. Additional Seville samples were provided by Bonnie McEwan of the San Luis Archaeological and Historic Site. Data from Talavera and Manises and some of the Seville samples were selected and analyzed by Albert Jornet for a research project he conducted while a Postdoctoral Fellow in Materials Analysis at the Conservation Analytical Laboratory (Jornet et al. 1985a, 1985b). Funding and material support came from the U.S.-Spain Joint Committee for Cultural and Educational Cooperation and the Smithsonian Institution's Conservation Analytical Laboratory and Research Opportunities Fund. Indirect but substantial support also came from the University of Seville's Department of Archaeology and Prehistory and the Moroccan Archaeological Service. The data analysis employed programs available from the Smithsonian Institution's Archaeological Research Collection and Records (SARCAR), where the data are archived as well. The project received substantial assistance from the personnel of the Nuclear Methods Group, Division of Inorganic Analytical Chemistry and the Reactor Operation Division of the National Institute of Standards and Technology (formerly the National Bureau of Standards). The support of all of these institutions and individuals is gratefully acknowledged.

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