

Second Level Pottery Analysis of Motul de San Jose

Part 1: All Polychromes

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2009

All Polychromes

Form Class: There were 2595 pieces of polychrome pottery found in MSJ that underwent second level analysis.

- Closed Vessels: There were **29 Drums** and **26 Jars**.
 - There were also 49 (1.9%) indeterminate closed vessels.
- Open Vessels: There were **397 (15.3%) tripod plates**, **134 (5.2%) cylinder vases**, **264 (10.2%) dishes or bowls with rounded sides** and **492 (19.0%) dishes or bowls with flared or outcurved sides**.
 - There were also 1117 (43.0%) open indeterminate pieces
- 83 (3.2%) pieces were completely indeterminate.

Lip: **854 (32.9%) had rounded lips**, **158 (6.1%) had square or flattened lips**, **176 (6.8%) had pointed lips**, **339 (13.1%) had beveled lips** and **2 (0.1%) had grooved lips**.

Rim: **1197 (46.1%) had direct rims** and **275 (10.6%) had slightly flaring to flaring rims**.

- 30 (1.2%) had everted rims, 3 (0.1%) had exteriorly thickened rims, 17 (0.7%) had interiorly thickened rims, 2 (0.1%) had exteriorly folded rims, 10 (0.4%) had slightly incurved rims that were exteriorly thickened and 10 (0.4%) had slightly outflaring rims that were exteriorly thickened.
- 1020 (39.3%) had absent rims.

Wall Type:

- Outflared: 665 (25.6%) had outflared walls. 4 (0.2%) had very outflared walls.
- Outcurved: 219 (8.4%) had slightly outcurved walls. 108 (4.2%) had outcurved to very outcurved walls.
- Rounded: 186 (7.2%) had open rounded walls. 83 (3.2%) had incurved rounded walls.
- 154 (5.9%) had vertical walls.
- 16 (0.6%) had recurved walls.
- 908 (35.0%) had absent walls or they were not applicable.
- 249 (9.6%) had indeterminate walls.

Special Body Sherd: 76 (2.9%) had plain ridges, 8 (0.3%) had notched ridges and 22 (0.8%) had otherwise modified ridges. 23 (0.9%) had angles and 30 (1.2%) had necks.

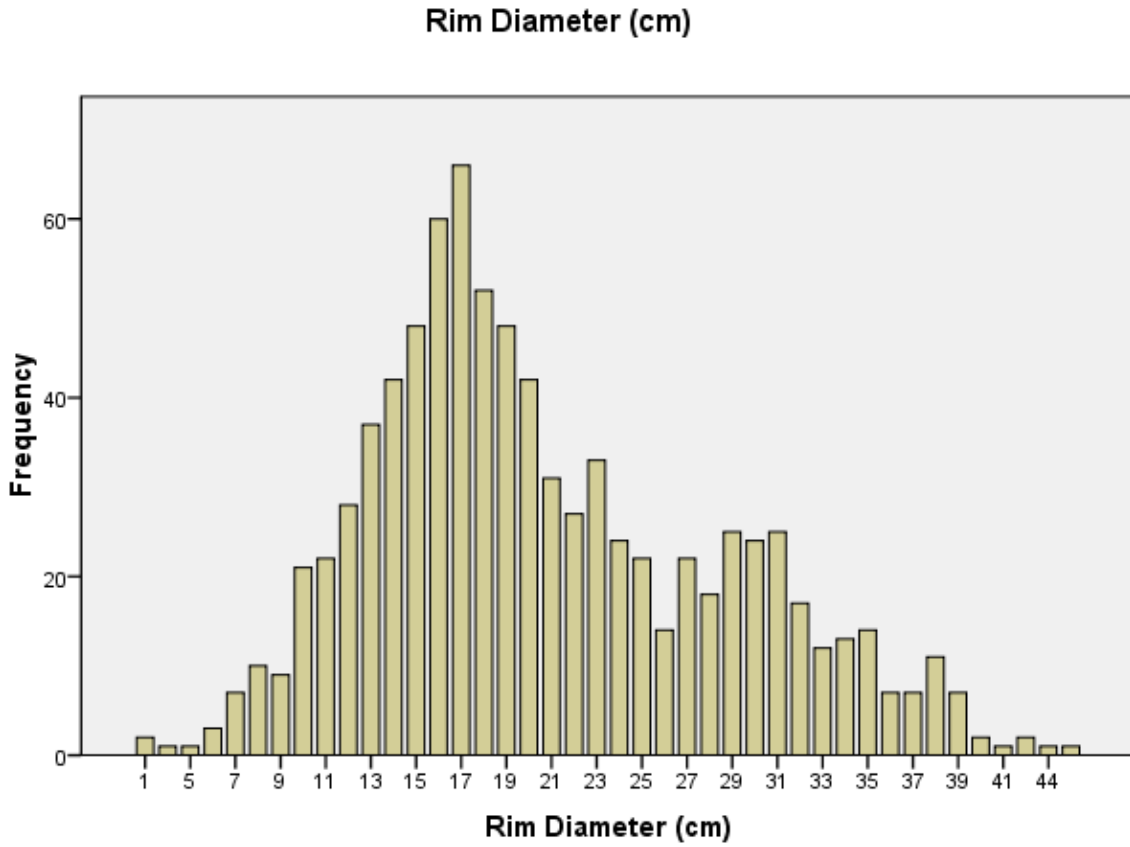
Base: 784 (30.2%) had open flat bases. 48 (1.8%) had open convex bases.

- Tripod Feet: 199 (7.7%) were open, flat and had tripod feet. 16 (0.6%) were open, rounded and had tripod feet.
- 4 (0.2%) were open with a ring. 8 (0.3%) had closed, direct bases. 16 (0.6%) had closed constructed bases.
- 150 (5.8%) were indeterminate and 1367 (52.7%) were absent.

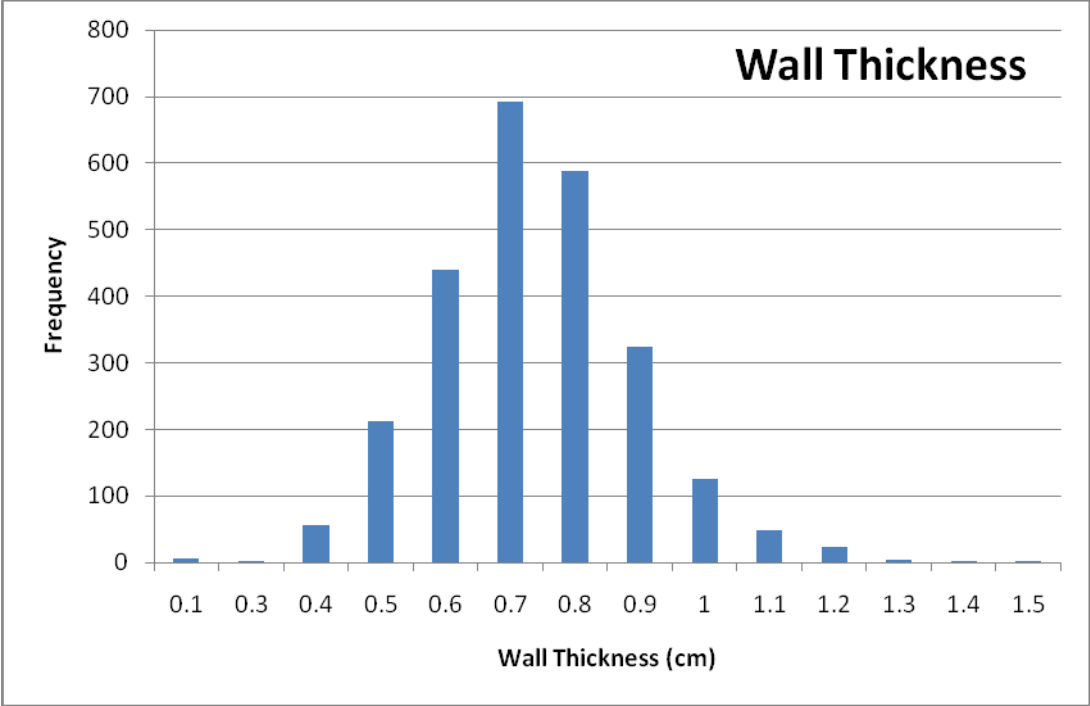
Foot Form: 20 (0.8%) were hollow oven feet that were missing the bottom, 43 (1.7%) were hollow oven feet with flat bottoms and 12 (0.5%) were hollow oven feet with rounded-bottoms.

- 12 (0.5%) had IK feet
- 2 (0.1%) had solid conical feet, 4 (0.2%) had solid slab feet, 1 had hollow conical feet.
- 121 (4.7%) had indeterminate feet.

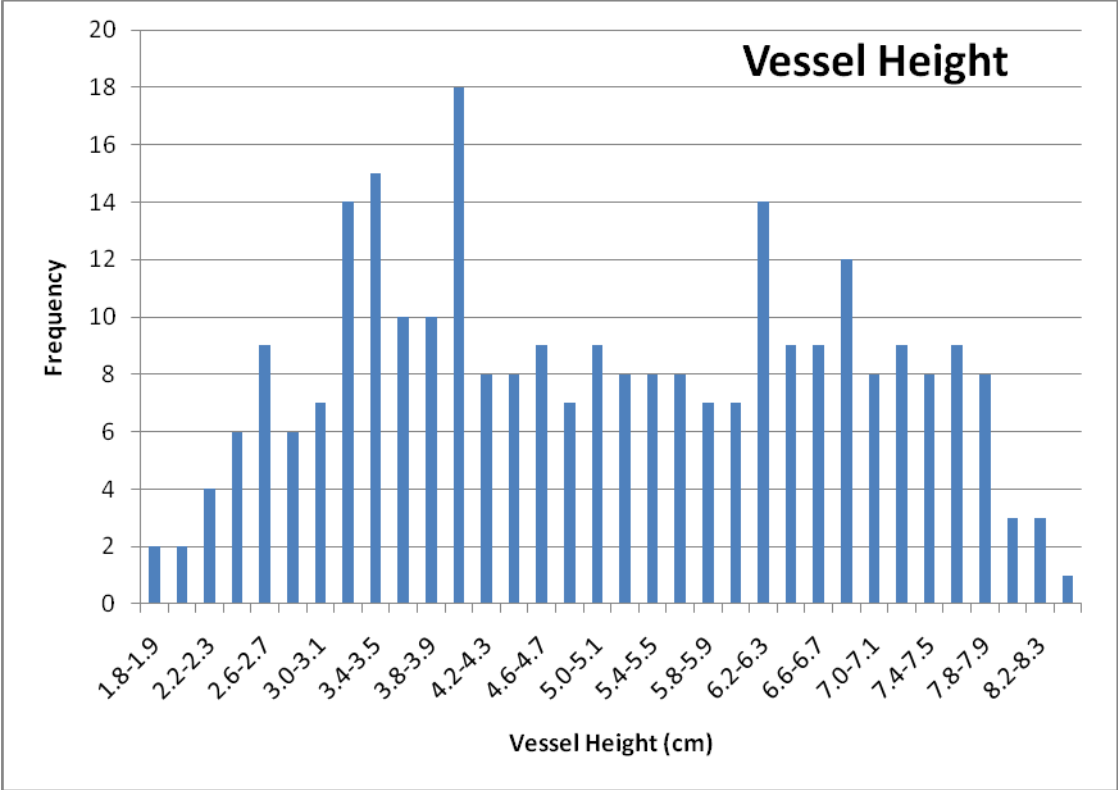
Rim Diameter: There were 859 total entries for rim diameter. The mean was 20.7 cm with a standard deviation of 7.8 cm.

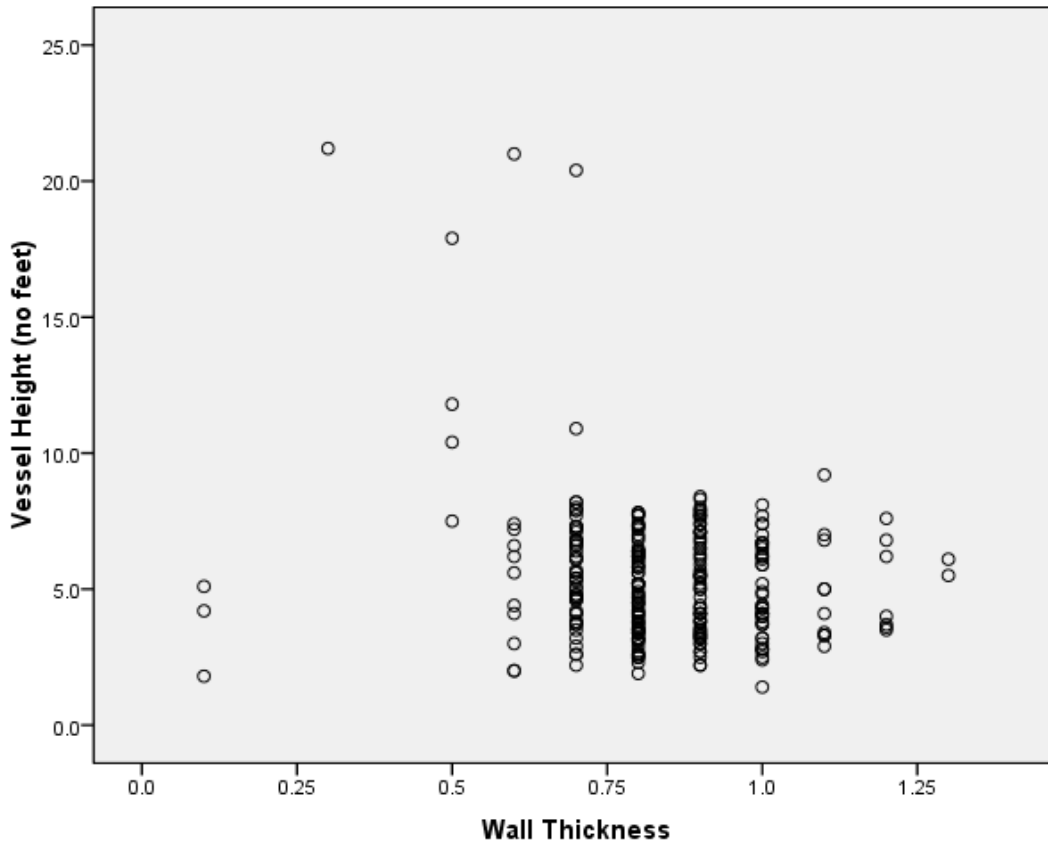


Wall Thickness: The mean wall thickness was 0.735 cm with a standard deviation of 0.16 cm.



Vessel Height: The mean vessel height is 5.4 cm with a standard deviation of 2.5 cm. The standard deviation is as large as it is because there are several cylinder vases that are between 9 and 22 cm.





We also wanted to explore if there was a correlation between height and wall thickness, and so plotted there above. The data does not show a linear relationship between wall thickness and height of a vessel.

Feet Height: Mean was 3.54 with a standard deviation of 2.05. The range was between 1 cm to 7.7 cm.

Paste Color:

- In 2.5Y, there was 3 light olive brown, 1 light brownish gray, 1 light yellowish brown, 1 olive yellow and 5 pale yellow, with a total of 11 (<0.1%) pieces.
- There were 68 (2.6%) instances of 2.5YR. 1 dusky red, 30 red, 19 light red, 3 weak red, 1 between red and reddish brown, 9 light reddish brown, 1 pink and 4 between weak red and reddish brown.
 - 47 were in category A
- There were 382 (14.8%) instances of 5.0YR. There were 212 yellowish red, 151 reddish yellow, 1 dark reddish brown, 7 reddish brown, 7 light reddish brown, 1 reddish gray, 1 dark gray and 2 that were between reddish brown and yellowish red.

- 151 were in category B
- There were 1263 (48.9%) instances of 7.5YR, the most common hue. There were 666 reddish yellow, 413 strong brown, 70 brown, 33 light brown, 26 between brown and dark brown, 1 dark brown, 3 between brown and strong brown, 1 black, 44 pink, 2 between pink and reddish yellow, 1 between light brown and reddish yellow, 1 between pinkish gray and light brown, one between gray and pinkish gray and 1 between light gray and pinkish gray.
 - 177 were in category C
 - There were 861 (33.3%) instances of 10YR. 150 very pale brown, 142 yellow, 251 brownish yellow, 121 light yellowish brown, 89 yellowish brown, 4 light gray, 10 pale brown, 3 light brownish gray, 6 grayish brown, 22 brown, 2 dark grayish brown, 6 very dark grayish brown, 5 very dark gray, 4 dark brown, 15 dark yellowish brown, 1 black, 1 very dark brown, 20 between brown and dark brown, 2 between light gray and gray, 1 between light yellowish brown and brownish yellow, and 6 between very pale brown and yellow.
 - 298 were in category E.

Paste Type:

	Frequency	Percent
mixed calcite and quartz medium	159	6.1
calcite-tempered, fine	1121	43.2
calcite-tempered, medium	57	2.2
calcite-tempered, coarse	160	6.2
sand/quartz-tempered, fine	51	2.0
sand/quartz-tempered, medium	33	1.3
mixed volcanic and quartz medium	367	14.1
volcanic ash-tempered medium	640	24.7
sand/quartz tempered, coarse	1	.0
Total	2589	100.0

Inclusions: **1082 (41.7%) had ferruginous** as inclusions, **291 (11.2%) had carbon** and **156 (6.0%) had both ferruginous and carbon.**

- 33 (1.3%) had mica, 7 (0.3%) had concha, 6 (0.2%) had volcanic ash, 5 (0.2%) had volcanic ash and ferruginous.

Presence of a Core: **342 (13.2%) had narrow cores, 643 (24.8%) had wide cores.**

- Half of the interior was dark on 55 (2.1%) of them. Half of the exterior was dark on 80 (3.1%) of them.
- 1463 (56.4%) had no core.

Fireclouds: **355 (13.7%) had fireclouds**, 408 (15.7%) were indeterminate and 956 (36.8%) had no fireclouds.

Underslip Color: **1449 (55.8%) had white or cream underslips**, 251 (9.7%) had orange underslips.

- 626 (24.1%) had no underslip and 265 (10.2%) were indeterminate.

Background Slip Color: **1299 (50.0%) had orange backgrounds, 611 (23.5%) had red backgrounds, 312 (12.0%) had cream backgrounds.**

- 238 (9.2%) were indeterminate.

Additional Slips: **671 (25.8%) had red and black slips, 500 (19.3%) had red slips and 353 (13.6%) had black slips.**

- 12 (0.5%) had orange slips, 33 (1.3%) had orange and red slips, 25 (1.0%) had orange and black slips, 91 (3.5%) had orange, red and black slips, 71 (2.7%) had slips that were red, black and another color and 15 (0.6%) had slips that were just other colors.
- 819 (31.5%) had no additional slips.

Designs Present:

- Geometric: There were **323 (12.4%) with a general** geometric pattern, **101 (3.9%) with a simple** geometric pattern, 16 (0.6%) with a complex geometric pattern, 2 (0.1%) with both a geometric pattern and figural animals, plants or insects and 5 (0.2%) with a geometric pattern and a figural human, 27 (1.0%) with both a geometric pattern and pseudoglyphs and 16 (0.6%) with a geometric pattern and glyphs.
- Figures: There were 11 (0.4%) with a general figural design, 4 (0.2%) with just a human or deity figure, 3 (0.1%) with both a human figure and pseudoglyphs and 7 (0.3%) with human figures and glyphs. There was 1 with figures of animals, humans and glyphs. There were 11 (0.4%) with general glyphs only.
- There were 106 that were indeterminate.

- 1953 (75.2%) had no design or the piece was too eroded to see any.

Additional Decoration: 27 (1.0%) had incisions, 4 (0.2%) had fluting, 2 (0.1%) had modeling, 10 (0.4%) had negative or resist painting and 2 (0.1%) had grooving.

- 2542 (97.9%) had no additional decoration.
- 5 (0.2%) had addition decoration that was indeterminate.

Location of Designs: **143 (5.5%) of the designs were on the main interior with none on the exterior. 495 (19.1%) pieces had the design on the exterior with none on the interior.** 42 (1.6%) had a primary design on the interior and a secondary design on the exterior. 46 (1.8%) had the primary design on the exterior and a secondary design on the interior. 105 (4.0%) had the main design on the interior but the exterior was too eroded to tell if a design was present. 99 (3.8%) had a design on the exterior but was too eroded on the interior to determine if there was a design there.

- There were 696 (26.8%) with designs but the position could not be located.

Rim/Lip Slip: **721 (27.8%) were red, 212 (8.2%) were black,** 94 (3.6%) had a black lip to a red rim, 36 (1.4%) were orange and 4 (0.2%) were black and orange.

- 1504 (57.9%) were absent and 14 (0.5%) were indeterminate.