**Table 1**

Artifact counts by Industry, site, and analytic category.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Industry | Site | Age (Ma) | Flaked Cobble | Flaked Flake | Flaked Indet. | Unmodified Large Flake |
| Acheulean | BSN17 | 1.3 | 19 | 2 | 0 | 5 |
| DAN5 | 1.5-1.6 | 19 | 17 | 4 | 1 |
| OGS5 | 1.5-1.6 | 11 | 25 | 5 | 23 |
| OGS12 | 1.5-1.6 | 24 | 28 | 0 | 6 |
| Oldowan | EG10 | 2.5 | 19 | 3 | 1 | 0 |
| OGS7 | 2.6 | 8 | 4 | 2 | 0 |
| total |  | | 100 | 79 | 12 | 35 |

**Table 2**

Scaled component loadings for linear metric PCs calculated from the scanned sample.

|  |  |  |
| --- | --- | --- |
| Linear metrics (GM-transformed) | Linear-PC1 | Linear-PC2 |
| Length | 0.993 | -0.045 |
| W1 | 0.214 | 0.352 |
| W2 | 0.242 | 0.813 |
| W3 | -0.227 | 0.772 |
| T1 | 0.010 | -0.677 |
| T2 | -0.253 | -0.616 |
| T3 | -0.538 | -0.292 |

Abbreviations: PC = principal component; GM = geometric morphometrics. Width (W1, W2, W3) and thickness (T1, T2, T3) measures were then collected at 25%, 50%, and 75% of Length, with the piece oriented so that width at 25% length > width at 75% length.

**Table 3**

Scaled component loadings for linear metric PCs in the full sample.

|  |  |  |
| --- | --- | --- |
| Linear metrics (GM-transformed) | PC1 | PC2 |
| Length | 0.901 | -0.422 |
| W1 | 0.634 | 0.296 |
| W2 | 0.681 | 0.569 |
| W3 | 0.477 | 0.756 |
| T1 | -0.504 | -0.529 |
| T2 | -0.688 | -0.515 |
| T3 | -0.714 | 0.034 |

Abbreviations: PC = principal component; GM = geometric morphometrics. Width (W1, W2, W3) and thickness (T1, T2, T3) measures were then collected at 25%, 50%, and 75% of Length, with the piece oriented so that width at 25% length > width at 75% length.

**Table 4**

Discriminant function analysis (DFA) classification results for Acheulean tool types.

|  |  |  |  |
| --- | --- | --- | --- |
| Assigned type | Predicted type | | |
| Pick | Handaxe | Knife |
| Pick | 82.9% | 9.8% | 7.3% |
| Handaxe | 19.5% | 53.7% | 26.8% |
| Knife | 5.6% | 8.3% | 86.1% |

**Table 5**

Summary statistics by artifact category.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Artifact  category | *n* | Weight | Max  dimension | L/W | W/T | Scar count | Average scar length er artifact | cSDI | FAI |
| Mode 1 flaked piece, Oldowan context | 37 | = 172.2  SD = 118.6  Min = 25  Max = 518 | = 71.5  SD = 15.7  Min = 41  Max = 105 | = 1.36  SD = 0.20  Min = 1.02  Max = 1.81 | = 1.38  SD = 0.29  Min = 1.00  Max = 2.13 | = 8.30  SD = 2.53  Min = 4  Max = 15 | = 29.7  SD = 9.1  Min = 10.2  Max = 52.8 | = 0.11  SD = 0.04  Min = 0.03  Max = 0.23 | = 46.4  SD = 18.2  Min = 20  Max = 95 |
| Mode 1 flaked piece, Acheulean context | 36 | = 480.6  SD = 325.6  Min = 58  Max = 1374 | = 95.8  SD = 23.6  Min = 47  Max = 158 | = 1.36  SD = 0.20  Min = 1.02  Max = 1.81 | = 1.30  SD = 0.23  Min = 1.00  Max = 1.97 | = 7.25  SD = 3.81  Min = 1  Max = 15 | = 50.26  SD = 16.0  Min = 26.2  Max = 92.7 | = 0.06  SD = .06  Min = 0.003  Max = 0.23 | = 52.4  SD = 27.1  Min = 5  Max = 100 |
| Unmodified large flake | 35 | = 543.9  SD = 302.3  Min = 118  Max = 1572 | = 134.2  SD = 21.9  Min = 105.4  Max = 196 | = 1.45  SD = 0.22  Min = 1.03  Max = 1.99 | = 2.19  SD = 0.53  Min = 1.53  Max = 3.59 | 0 | 0 | 0 | 0 |
| Flaked large flake | 72 | = 672.3  SD = 317.1  Min = 202  Max = 2172 | = 142.8  SD = 26.7  Min = 92.8  Max = 255 | = 1.50  SD = 0.26  Min = 0.79  Max = 2.07 | = 2.00  SD = 0.45  Min = 1.12  Max = 3.16 | = 6.92  SD = 3.39  Min = 2  Max = 17 | = 48.9  SD = 16.3  Min = 19.5  Max = 115.2 | = 0.03  SD = 0.02  Min = 0.004  Max = 0.08 | = 27.6  SD = 23.0  Min = 5  Max = 95 |
| Mode 2 flaked cobble | 37 | = 811.6  SD = 373.7  Min = 228  Max = 1866 | = 152.9  SD = 31.4  Min = 103  Max = 237 | = 1.68  SD = 0.24  Min = 1.20  Max = 2.28 | = 1.46  SD = 0.34  Min = 1.00  Max = 2.70 | = 11.46  SD = 4.60  Min = 6  Max = 31 | = 57.1  SD = 23.5  Min = 22.3  Max = 118.4 | = 0.04  SD = 0.02  Min = 0.02  Max = 0.11 | = 61.0  SD = 22.5  Min = 5  Max = 90 |
| Mode 2  Flaked Indet. base | 9 | = 678.0  SD = 456.0  Min = 178  Max = 1514 | = 145.0  SD = 37.3  Min = 100  Max = 216 | = 1.83  SD = 0.23  Min = 1.58  Max = 2.26 | = 1.31  SD = 0.23  Min = 1.02  Max = 1.69 | = 16.3  SD = 2.0  Min = 13  Max = 20 | = 55.1  SD = 22.2  Min = 33.1  Max = 87.6 | = 0.08  SD = 0.05  Min = 0.03  Max = 0.18 | = 89.0  SD = 15.8  Min = 65  Max = 100 |

Abbreviations: L/W: Length width ratio; W/T: Width Thickness ratio; cSDI: corrected scar density index; FAI: Flaked area index.