|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Unit X** | |  | **Unit V** | | | | | | | | | |
|  | **Xb** | |  | **V-24** | | | | | | **TOTAL V-24** | | **V-25** | |
|  | **S3** | |  | **S9** | | **S8** | | **S7** | | **-** | |
| **Manganese** | **MNE (86)** | **%** |  | **MNE (78)** | **%** | **MNE (34)** | **%** | **MNE (34)** | **%** | **MNE (113)** | **%** | **MNE (33)** | **%** |
| **0 (0-5%)** | 13 | 15.12% |  | 16 | 20.51% | 10 | 29.41% | 7 | 20.59% | 33 | 22.60% | 9 | 27.27% |
| **1 (5-10%)** | 8 | 9.30% |  | 40 | 51.28% | 13 | 38.24% | 16 | 47.06% | 69 | 47.26% | 22 | 66.67% |
| **2 (10-25%)** | 32 | 37.21% |  | 17 | 21.79% | 9 | 26.47% | 8 | 23.53% | 34 | 23.29% | 2 | 6.06% |
| **3 (25-50%)** | 23 | 26.74% |  | 3 | 3.85% | 1 | 2.94% | 2 | 5.88% | 6 | 4.11% | 0 | 0.00% |
| **4 (50-75%)** | 9 | 10.47% |  | 2 | 2.56% | 1 | 2.94% | 1 | 2.94% | 4 | 2.74% | 0 | 0.00% |
| **5 (75-100%)** | 1 | 1.16% |  | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| **Total Manganese** | **73** | **84.88%** |  | **62** | **79.49%** | **24** | **70.59%** | **27** | **79.41%** | **113** | **77.40%** | **24** | **72.73%** |
| **Root-marks** | **MNE** | **%** |  | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** |
| **0 (0-5%)** | 8 | 9.30% |  | 70 | 89.74% | 30 | 88.24% | 30 | 88.24% | 130 | 89.04% | 21 | 63.64% |
| **1 (5-10%)** | 4 | 4.65% |  | 7 | 8.97% | 4 | 11.76% | 4 | 11.76% | 15 | 10.27% | 11 | 33.33% |
| **2 (10-25%)** | 22 | 25.58% |  | 1 | 1.28% | 0 | 0.00% | 0 | 0.00% | 1 | 0.68% | 1 | 3.03% |
| **3 (25-50%)** | 33 | 38.37% |  | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| **4 (50-75%)** | 15 | 17.44% |  | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| **5 (75-100%)** | 4 | 4.65% |  | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| **Total Roots** | **78** | **90.70%** |  | **8** | **10.26%** | **4** | **11.76%** | **4** | **11.76%** | **16** | **10.96%** | **12** | **36.36%** |
| **Cementation** | **MNE** | **%** |  | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** |
| **0 (0-5%)** | 56 | 65.12% |  | 67 | 85.90% | 30 | 88.24% | 22 | 64.71% | 119 | 81.51% | 22 | 66.67% |
| **1 (5-10%)** | 16 | 18.60% |  | 8 | 10.26% | 2 | 5.88% | 11 | 32.35% | 21 | 14.38% | 10 | 30.30% |
| **2 (10-25%)** | 7 | 8.14% |  | 2 | 2.56% | 2 | 5.88% | 0 | 0.00% | 4 | 2.74% | 1 | 3.03% |
| **3 (25-50%)** | 6 | 6.98% |  | 1 | 1.28% | 0 | 0.00% | 0 | 0.00% | 1 | 0.68% | 0 | 0.00% |
| **4 (50-75%)** | 1 | 1.16% |  | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| **5 (75-100%)** | 0 | 0.00% |  | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| **Total Cementation** | **30** | **34.88%** |  | **11** | **14.10%** | **4** | **11.76%** | **11** | **32.35%** | **26** | **17.93%** | **11** | **33.33%** |
| **Weathering** | **MNE** | **%** |  | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** |
| **absent** | 84 | 97.67% |  | 78 | 100.00% | 34 | 100.00% | 34 | 100.00% | 146 | 100.00% | 33 | 100.00% |
| **present** | 2 | 2.33% |  | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| **Total weathering** | **2** | **2.33%** |  | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| **Cracking** | **MNE** | **%** |  | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** |
| **absent** | 79 | 91.86 |  | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| **present** | 7 | 8.14 |  | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| **Total cracking** | **7** | **8.14** |  | **0** | **0.00%** | **0** | **0.00%** | **0** | **0.00%** | **0** | **0.00%** | **0** | **0.00%** |
| **Abrasion** | **MNE** | **%** |  | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** |
| **absent** | 85 | 98.84% |  | 78 | 100.00% | 34 | 100.00% | 34 | 100.00% | 146 | 100.00% | 33 | 100.00% |
| **rounding** | 1 | 1.16% |  | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| **polishing** | 0 | 0.00% |  | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| **Total abraded** | **1** | **1.16%** |  | **0** | **0.00%** | **0** | **0.00%** | **0** | **0.00%** | **0** | **0.00%** | **0** | **0.00%** |
| **Burnt** | **MNE** | **%** |  | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** | **MNE** | **%** |
| **absent** | 79 | 91.86% |  | 78 | 100.00% | 34 | 100.00% | 34 | 100.00% | 146 | 100.00% | 33 | 100.00% |
| **brown** | 4 | 4.65% |  | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| **black** | 3 | 3.49% |  | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% |
| **Total burned** | **7** | 8.14% |  | **0** | **0.00%** | **0** | **0.00%** | **0** | **0.00%** | **0** | **0.00%** | **0** | **0.00%** |