Supplementary Table 1. Annual increment measurements on Ziegler Reservoir proboscidean dentition and two mastodon tusks from the Great Lakes region.

*Increment* – numbered from earliest growth (distal) to latest growth (proximal); final increments marked “P. C.” are terminated by the pulp cavity surface.  
*L* – increment length measured half-way between axis and CDJ.  
*rmaj*– half the major diameter (usually dorsoventral) of the tusk at location of increment length measurement.  
*rmin* – half the minor diameter (usually mediolateral) of the tusk at location of increment length measurement.  
*EIV* – estimated increment volume, calculated from *EIV = L \* rmaj \* rmin \* π.*  
*Mean sensitivity* – mean sensitivity calculated from detrended sequence of thicknesses for complete increments (final increment is assumed to be incomplete and is excluded from the mean sensitivity calculation).  
*Fraction [of expected growth in] Final Year (1-3)* – the final increment (EIV where available, otherwise thickness) as a percentage of annual increment volume (or thickness) expected for a complete year (1 – based on measurement of last complete increment; 2 – based on average of last 2 complete measurements; 3 – based on the linear trend of logged values for the last 5 complete years).  
*Measurements in parentheses are estimates of internal features based on exterior measurements except where otherwise noted. Hyde Park mastodon tusk data from Fisher (2008) and North Java mastodon tusk data from Fisher et al. (2008).*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 30.017 | - | 1 | 4.9 | 18.6 | *(18.6)* | 5.34 | 4.53 |
|  |  | 2 | 4.7 | 18.6 | *(18.6)* | 5.11 | 4.41 |
|  |  | 3 | 4.8 | 18.7 | *(18.7)* | 5.28 | 4.88 |
|  |  | 4 | 4.7 | 19.0 | *(19.0)* | 5.36 | 4.41 |
|  |  | 5 | 5.5 | 19.3 | *(19.3)* | 6.36 | 4.46 |
|  |  | 6 | 5.0 | 19.4 | *(19.4)* | 5.91 | 4.24 |
|  |  | 7 | 4.8 | 19.5 | *(19.5)* | 5.75 | 4.61 |
|  |  | 8 | 4.9 | 19.6 | *(19.6)* | 5.91 | 4.49 |
|  |  | 9 | 4.8 | 18.9 | *(18.9)* | 5.37 | 5.74 |
|  |  | 10 | 4.8 | 18.2 | *(18.2)* | 4.95 | 4.66 |
|  |  | 11 | 7.0 | 18.6 | *(17.9)* | 7.30 | 4.41 |
|  |  | 12 | 7.1 | 19.1 | *(18.3)* | 7.84 | 3.55 |
|  |  | 13 | 5.9 | 20.3 | *(19.8)* | 7.49 | 3.77 |
|  |  | 14 | 7.5 | 21.0 | *(20.5)* | 10.14 | 3.85 |
|  |  | 15 | 7.0 | 21.6 | *(20.7)* | 9.83 | 3.68 |
|  |  | 16 | 7.7 | 21.8 | *(20.9)* | 11.03 | 4.39 |
|  |  | 17 (P. C.) | 3.5 | 21.8 | *(21.1)* | 5.09 | 1.99 |
|  |  |  |  |  |  |  |  |
| Average | 6.81 | 4.38 |
| Std Dev | 1.96 | 0.52 |
| 17 (P. C.) not included | | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | Mean sensitivity | 0.09 | | Fract. Final Year 1 | 46% | | Fract. Final Year 2 | 49% | | Fract. Final Year 3 | 42% | |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 30.076 | - | 1 | 11.5 | 17.5 | *(16.1)* | 10.72 | 4.14 |
|  |  | 2 | 12.1 | 17.7 | *(16.2)* | 11.60 | 4.04 |
|  |  | 3 | 12.0 | 17.5 | *(16.1)* | 11.23 | 4.07 |
|  |  | 4 | 10.6 | 17.2 | *(16.5)* | 10.33 | 3.70 |
|  |  | 5 | 10.1 | 17.1 | *(16.4)* | 9.68 | 3.73 |
|  |  | 6 | 9.8 | 16.9 | *(16.2)* | 9.45 | 3.59 |
|  |  | 7 | 10.0 | 16.7 | *(16.0)* | 9.40 | 3.58 |
|  |  | 8 | 10.5 | 16.5 | *(16.9)* | 10.59 | 3.88 |
|  |  | 9 | 10.7 | 16.1 | *(16.5)* | 10.45 | 3.86 |
|  |  | 10 | 10.5 | 15.9 | *(16.3)* | 9.90 | 3.73 |
|  |  | 11 | 9.3 | 15.7 | *(16.0)* | 8.65 | 3.62 |
|  |  | 12 | 9.2 | 15.4 | *(14.9)* | 8.13 | 3.65 |
|  |  | 13 | 8.2 | 15.3 | *(14.8)* | 7.10 | 3.30 |
|  |  | 14 | 8.8 | 15.0 | *(14.5)* | 7.31 | 3.55 |
|  |  | 15 | 8.6 | 14.8 | *(14.3)* | 6.80 | 3.42 |
|  |  | 16 | 8.1 | 14.7 | *(13.9)* | 6.11 | 3.28 |
|  |  | 17 | 8.7 | 14.3 | *(13.5)* | 6.45 | 3.58 |
|  |  | 18 | 7.4 | 14.1 | *(13.3)* | 5.29 | 3.18 |
|  |  | 19 | 7.3 | 13.6 | *(12.9)* | 4.96 | 3.27 |
|  |  | 20 (P. C.) | 7.2 | 13.4 | *(12.3)* | 4.61 | 3.00 |
|  |  |  |  |  |  |  |  |
| Average | 8.64 | 3.64 |
| Std Dev | 2.07 | 0.28 |
| 20 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | 0.04 |
| Fract. Final Year 1 | 93% |
| Fract. Final Year 2 | 90% |
| Fract. Final Year 3 | 99% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 30.130 | - | 1 | 8.1 | 20.4 | *(15.9)* | 8.23 | 3.81 |
|  |  | 2 | 8.7 | 20.3 | *(15.9)* | 8.82 | 4.22 |
|  |  | 3 | 8.7 | 20.1 | *(15.9)* | 8.72 | 4.35 |
|  |  | 4 | 7.6 | 19.9 | *(15.7)* | 7.47 | 3.90 |
|  |  | 5 | 8.5 | 19.7 | *(15.4)* | 8.08 | 4.53 |
|  |  | 6 | 7.0 | 19.2 | *(15.1)* | 6.37 | 3.97 |
|  |  | 7 | 7.2 | 19.1 | *(15.5)* | 6.70 | 4.10 |
|  |  | 8 (P. C.) | 6.2 | 19.1 | *(15.5)* | 5.73 | 3.46 |
|  |  |  |  |  |  |  |  |
| Average | 7.77 | 4.12 |
| Std Dev | 0.96 | 0.26 |
| 8 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | 0.09 |
| Fract. Final Year 1 | 86% |
| Fract. Final Year 2 | 88% |
| Fract. Final Year 3 | 95% |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 33.238 | - | 1 | 6.8 | 19.3 | *(14.8)* | 6.12 | 4.34 |
|  |  | 2 | 6.4 | 19.5 | *(14.9)* | 5.88 | 3.92 |
|  |  | 3 | 6.9 | 19.8 | *(15.3)* | 6.51 | 3.87 |
|  |  | 4 | 7.5 | 20.2 | *(15.6)* | 7.48 | 3.85 |
|  |  | 5 | 6.5 | 20 | *(15.5)* | 6.28 | 3.42 |
|  |  | 6 | 6.1 | 20 | *(15.2)* | 5.87 | 3.37 |
|  |  | 7 | 5 | 19.8 | *(15.0)* | 4.71 | 3.23 |
|  |  | 8 | 6.4 | 19.7 | *(14.9)* | 5.90 | 4.03 |
|  |  | 9 | 4.9 | 19.7 | *(15.3)* | 4.60 | 3.21 |
|  |  | 10 | 4.8 | 20 | *(15.5)* | 4.72 | 3.48 |
|  |  | 11 | 5.3 | 19.2 | *(15.0)* | 4.78 | 4.01 |
|  |  | 12 | 4.6 | 18.8 | *(13.9)* | 3.77 | 3.54 |
|  |  | 13 | 5.1 | 18.9 | *(14.0)* | 4.27 | 3.97 |
|  |  | 14 (P. C.) | 3.3 | 19.9 | *(14.7)* | 2.99 | 2.31 |
|  |  |  |  |  |  |  |  |
| Average | 5.45 | 3.71 |
| Std Dev | 1.06 | 0.35 |
| 14 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | 0.10 |
| Fract. Final Year 1 | 70% |
| Fract. Final Year 2 | 74% |
| Fract. Final Year 3 | 76% |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | | Measurements | | | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | | L (mm) | rmaj (mm) | | | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 44.035 | - | 1 | | 9.9 | *(19.2)* | | | *(16.6)* | 9.89 | 3.52 |
|  |  | 2 | | 10.7 | *(18.2)* | | | *(15.8)* | 9.69 | 3.58 |
|  |  | 3 | | 10.6 | *(18.2)* | | | *(15.7)* | 9.50 | 3.99 |
|  |  | 4 | | 9.8 | 17.7 | | | 15.4 | 8.41 | 3.79 |
|  |  | 5 | | 9.2 | 18.0 | | | 15.1 | 7.90 | 4.03 |
|  |  | 6 | | 10.6 | 17.7 | | | 15.0 | 8.83 | 4.04 |
|  |  | 7 | | 9.2 | 17.2 | | | 14.1 | 7.05 | 3.85 |
|  |  | 8 | | 7.7 | 16.5 | | | 13.5 | 5.36 | 3.25 |
|  |  | 9 | | 8.4 | 16.6 | | | 13.0 | 5.70 | 3.32 |
|  |  | 10 | | 9.8 | 16.6 | | | 12.9 | 6.59 | 3.47 |
|  |  | 11 | | 9.9 | 16.5 | | | 12.5 | 6.41 | 3.34 |
|  |  | 12 | | 9.4 | 16.5 | | | 12.2 | 5.96 | 3.36 |
|  |  | 13 | | 9.8 | 15.9 | | | 12.3 | 6.06 | 3.16 |
|  |  | 14 | | 7.7 | 15.5 | | | 12.0 | 4.51 | 2.87 |
|  |  | 15 | | 9.1 | 15.4 | | | 11.9 | 5.25 | 3.04 |
|  |  | 16 | | 10.0 | 15.0 | | | 11.2 | 5.31 | 2.83 |
|  |  | 17 | | 10.1 | 14.6 | | | 10.8 | 4.98 | 3.09 |
|  |  | 18 | | 10.0 | 14.5 | | | 10.7 | 4.90 | 2.75 |
|  |  | 19 | | 8.6 | 14.5 | | | 10.2 | 4.01 | 2.63 |
|  |  | 20 | | 9.7 | 14.2 | | | 10.1 | 4.37 | 2.54 |
|  |  | 21 | | 7.0 | 14.7 | | | 9.8 | 3.14 | 2.31 |
|  |  | 22 | | 8.6 | 14.3 | | | 9.4 | 3.60 | 2.68 |
|  |  | 23 | | 7.5 | 14.3 | | | 9.0 | 3.05 | 2.17 |
|  |  | 24 | | 8.5 | 14.7 | | | 8.3 | 3.28 | 2.48 |
|  |  | 25 | | 8.3 | 14.7 | | | 7.6 | 2.92 | 2.42 |
|  |  | 26 | | *(8.3)* | - | | | - | - | - |
|  |  | 27 | | *(7.9)* | - | | | - | - | - |
|  |  | 28 (P. C.) | | *(4.9)* | - | | | - | - | - |
|  |  |  | |  |  | | |  |  |  |
| Average | 5.87 | 3.14 |
| Std Dev | 2.16 | 0.56 |
| Mean sensitivity | | | 0.07 |
| Fract. Final Year 1\* | | | 62% |
| Fract. Final Year 2\* | | | 61% |
| Fract. Final Year 3\* | | | 62% |
| \*based on thicknesses | | |  |
| Specimen | | Increment | | Measurements | | | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | | L (mm) | rmaj (mm) | | | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 45.015 | - | 1 | | 11.3 | 22.5 | | | *(21.8)* | 17.42 | 3.58 |
|  |  | 2 | | 12.2 | 22.4 | | | *(21.7)* | 18.73 | 3.70 |
|  |  | 3 | | 12.0 | 22.7 | | | *(23.2)* | 19.81 | 3.58 |
|  |  | 4 | | 13.7 | 22.8 | | | *(23.2)* | 22.71 | 4.40 |
|  |  | 5 | | 11.4 | 22.7 | | | *(23.1)* | 18.72 | 3.84 |
|  |  | 6 | | 10.1 | 22.4 | | | *(24.1)* | 17.07 | 3.57 |
|  |  | 7 | | 12.6 | 22.2 | | | *(23.9)* | 20.90 | 4.27 |
|  |  | 8 | | 10.1 | 22.0 | | | *(23.6)* | 16.37 | 3.65 |
|  |  | 9 | | 9.3 | 21.9 | | | *(24.8)* | 15.80 | 3.60 |
|  |  | 10 | | 10.4 | 21.5 | | | *(24.3)* | 17.12 | 4.25 |
|  |  | 11 (P. C.) | | 9.0 | 21.6 | | | *(24.4)* | 14.91 | 3.56 |
|  |  |  | |  |  | | |  |  |  |
| Average | 18.47 | 3.84 |
| Std Dev | 2.17 | 0.33 |
| 11 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | 0.11 |
| Fract. Final Year 1 | 87% |
| Fract. Final Year 2 | 91% |
| Fract. Final Year 3 | 93% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 48.530 | - | 1 | 13.4 | 19.6 | *(18.2)* | 14.96 | 4.22 |
|  |  | 2 | 11.8 | 20.1 | *(18.7)* | 13.93 | 3.83 |
|  |  | 3 | 15.5 | 20.8 | *(19.4)* | 19.58 | 4.44 |
|  |  | 4 | 12.7 | 21.3 | *(20.4)* | 17.26 | 4.13 |
|  |  | 5 | 15.4 | 22.3 | *(21.3)* | 22.99 | 4.44 |
|  |  | 6 | 12.9 | 23.0 | *(22.0)* | 20.52 | 4.01 |
|  |  | 7 | 12.9 | 23.4 | *(21.8)* | 20.58 | 4.38 |
|  |  | 8 | 14.2 | 23.8 | *(22.2)* | 23.47 | 4.06 |
|  |  | 9 | 12.5 | 24.0 | *(22.4)* | 21.03 | 4.16 |
|  |  | 10 | 11.6 | 24.4 | *(23.0)* | 20.33 | 3.89 |
|  |  | 11 | 11.4 | 24.3 | *(22.9)* | 19.92 | 3.90 |
|  |  | 12 | 13.3 | 23.9 | *(22.5)* | 22.34 | 3.98 |
|  |  | 13 | 11.7 | 23.7 | *(22.8)* | 19.77 | 4.21 |
|  |  | 14 | 9.6 | 23.3 | *(22.4)* | 15.82 | 3.75 |
|  |  | 15 | 9.2 | 23.3 | *(22.5)* | 15.14 | 3.68 |
|  |  | 16 | 11.1 | 23.1 | *(22.4)* | 18.04 | 4.53 |
|  |  | 17 | 8.5 | 22.9 | *(22.2)* | 13.51 | 3.95 |
|  |  | 18 (P. C.) | 8.5 | 22.4 | *(21.7)* | 12.99 | 3.84 |
|  |  |  |  |  |  |  |  |
| Average | 18.78 | 4.09 |
| Std Dev | 3.16 | 0.25 |
| 18 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | 0.08 |
| Fract. Final Year 1 | 96% |
| Fract. Final Year 2 | 82% |
| Fract. Final Year 3 | 96% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 48.594 | - | 1 | 13.0 | 18.8 | *(15.0)* | 11.51 | *(3.7)* |
|  |  | 2 | 10.0 | 19.4 | 15.5 | 9.43 | *(3.3)* |
|  |  | 3 | 12.6 | 19.7 | 15.5 | 12.10 | *(4.2)* |
|  |  | 4 | 14.7 | 19.8 | 16.4 | 14.91 | 4.25 |
|  |  | 5 | 11.8 | 20.7 | 16.5 | 12.63 | 3.59 |
|  |  | 6 | 13.8 | 21.2 | 17.5 | 16.13 | 4.21 |
|  |  | 7 | 11.9 | 22.0 | 17.8 | 14.63 | 3.59 |
|  |  | 8 | 12.2 | 22.4 | 18.2 | 15.64 | 4.03 |
|  |  | 9 | 12.1 | 22.7 | 18.7 | 16.05 | 3.87 |
|  |  | 10 | 11.7 | 23.1 | 19.1 | 16.25 | 3.96 |
|  |  | 11 | 11.322 | 23.5 | 19.5 | 16.33 | 3.96 |
|  |  | 12 | 10.127 | 23.7 | 19.9 | 15.02 | 3.55 |
|  |  | 13 | 12.926 | 23.8 | 20.5 | 19.85 | 4.53 |
|  |  | 14 (P. C.) | 10.819 | 24.3 | 21.1 | 17.39 | 3.90 |
|  |  |  |  |  |  |  |  |
| Average | 14.65 | 3.91 |
| Std Dev | 2.67 | 0.35 |
| 14 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | 0.11 |
| Fract. Final Year 1 | 88% |
| Fract. Final Year 2 | 100% |
| Fract. Final Year 3 | 94% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 48.595 | - | 1 | 13.6 | 14.8 | 12.7 | 8.05 | 3.65 |
|  |  | 2 | 13.4 | 14.9 | 13.4 | 8.46 | 3.53 |
|  |  | 3 | 12.3 | 15.5 | 13.7 | 8.18 | 3.28 |
|  |  | 4 | 13.3 | 16.4 | 14.0 | 9.61 | 3.63 |
|  |  | 5 | 10.2 | 17.3 | 14.6 | 8.11 | 3.24 |
|  |  | 6 | 10.8 | 17.9 | 15.0 | 9.13 | 3.30 |
|  |  | 7 | 12.5 | 18.4 | 15.9 | 11.54 | 3.88 |
|  |  | 8 | 12.8 | 19.3 | 16.7 | 12.95 | 3.76 |
|  |  | 9 | 11.8 | 20.0 | 17.0 | 12.54 | 3.63 |
|  |  | 10 | 11.7 | 20.5 | 17.5 | 13.13 | 3.76 |
|  |  |  |  |  |  |  |  |
| Average | 10.17 | 3.57 |
| Std Dev | 2.13 | 0.22 |

|  |  |
| --- | --- |
| Mean sensitivity | 0.07 |
| Fract. Final Year 1 | - |
| Fract. Final Year 2 | - |
| Fract. Final Year 3 | - |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 56.015 | - | 1 | 4.3 | 15.4 | *(11.5)* | 2.39 | 3.29 |
|  |  | 2 | 5.6 | 15.6 | *(11.7)* | 3.19 | 4.37 |
|  |  | 3 | 5.9 | 16.0 | *(11.9)* | 3.54 | 4.53 |
|  |  | 4 | 5.8 | 16.0 | *(12.0)* | 3.47 | 4.41 |
|  |  | 5 | 6.0 | 16.6 | *(12.4)* | 3.88 | 4.43 |
|  |  | 6 | 6.5 | 16.9 | *(12.6)* | 4.38 | 4.52 |
|  |  | 7 | 7.1 | 17.3 | *(13.0)* | 5.02 | 4.76 |
|  |  | 8 | 5.6 | 17.3 | *(13.0)* | 3.94 | 3.89 |
|  |  | 9 | 5.7 | 17.6 | *(13.2)* | 4.18 | 3.63 |
|  |  | 10 | 7.0 | 17.5 | *(13.2)* | 5.07 | 3.98 |
|  |  | 11 | 6.7 | 17.4 | *(13.1)* | 4.80 | 3.93 |
|  |  | 12 | 7.2 | 17.6 | *(13.2)* | 5.24 | 4.32 |
|  |  | 13 | 7.1 | 17.4 | *(13.6)* | 5.30 | 4.38 |
|  |  | 14 | 6.2 | 17.2 | *(13.5)* | 4.51 | 4.04 |
|  |  | 15 | 6.2 | 16.8 | *(13.2)* | 4.29 | 3.90 |
|  |  | 16 | 6.5 | 16.7 | *(13.1)* | 4.47 | 3.80 |
|  |  | 17 | 6.0 | 16.8 | *(13.2)* | 4.19 | 3.33 |
|  |  | 18 | 6.7 | 16.9 | *(13.3)* | 4.69 | 3.66 |
|  |  | 19 | 7.4 | 16.9 | *(13.3)* | 5.21 | 4.02 |
|  |  | 20 | 6.8 | 16.9 | *(13.2)* | 4.76 | 4.05 |
|  |  | 21 | 6.3 | 17.0 | *(13.3)* | 4.48 | 3.78 |
|  |  | 22 | 7.4 | 16.9 | *(13.2)* | 5.15 | 4.32 |
|  |  | 23 | 5.7 | 16.9 | *(13.3)* | 4.02 | 3.78 |
|  |  | 24 | 5.4 | 16.8 | *(13.1)* | 3.76 | 3.62 |
|  |  | 25 | 5.4 | 16.6 | *(13.8)* | 3.86 | 3.74 |
|  |  | 26 | 5.2 | 16.6 | *(13.8)* | 3.74 | 3.78 |
|  |  | 27 | 5.7 | 16.3 | *(13.6)* | 3.98 | 3.84 |
|  |  | 28 | 5.1 | 16.0 | *(13.3)* | 3.39 | 3.48 |
|  |  | 29 (P. C.) | 5.7 | 15.8 | *(13.2)* | 3.70 | 3.92 |
|  |  |  |  |  |  |  |  |
| Average | 4.25 | 3.98 |
| Std Dev | 0.71 | 0.38 |
| 29 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | 0.07 |
| Fract. Final Year 1 | 109% |
| Fract. Final Year 2 | 101% |
| Fract. Final Year 3 | 104% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 56.127 | - | 1 | - | - | - | - | 2.81 |
|  |  | 2 | 29.8 | 8.5 | *(7.6)* | 6.03 | 6.14 |
|  |  | 3 | 21.0 | 9.3 | *(7.8)* | 4.75 | 5.70 |
|  |  | 4 | 17.8 | 10.4 | *(9.2)* | 5.35 | 4.88 |
|  |  | 5 (P. C.) | 12.7 | 10.4 | *(8.9)* | 3.68 | 3.63 |
|  |  |  |  |  |  |  |  |
| Average | 5.37 | 5.57 |
| Std Dev | 0.64 | 0.64 |
| 5 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | - |
| Fract. Final Year 1 | 69% |
| Fract. Final Year 2 | 73% |
| Fract. Final Year 3 | 77% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 56.266 | - | 1 | - | 15.0 | - | - | 5.97 |
|  |  | 2 | - | 17.1 | - | - | 5.29 |
|  |  | 3 (P. C.) | - | 17.3 | - | - | 0.87 |
|  |  |  |  |  |  |  |  |
| Average | - | 5.63 |
| Std Dev | - | 0.48 |
| 3 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | - |
| Fract. Final Year 1\* | 16% |
| Fract. Final Year 2\* | 15% |
| Fract. Final Year 3 | - |

\*based on thicknesses

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 58.025 | - | 1 | 13.4 | 18.6 | *(16.2)* | 12.69 | 4.55 |
|  |  | 2 | 13.5 | 19.3 | *(16.9)* | 13.80 | 4.64 |
|  |  | 3 | 11.8 | 19.8 | *(16.9)* | 12.42 | 4.15 |
|  |  | 4 | 13.4 | 20.4 | *(17.4)* | 14.92 | 4.85 |
|  |  | 5 | 10.0 | 20.9 | *(17.8)* | 11.73 | 3.86 |
|  |  | 6 | 11.7 | 21.4 | *(19.3)* | 15.19 | 4.40 |
|  |  | 7 | 9.7 | 22.0 | *(19.8)* | 13.16 | 4.05 |
|  |  | 8 | 10.6 | 22.2 | *(20.0)* | 14.79 | 4.42 |
|  |  | 9 | 11.4 | 22.5 | *(20.5)* | 16.53 | 4.69 |
|  |  | 10 | 10.3 | 22.7 | *(20.7)* | 15.19 | 4.59 |
|  |  | 11 | 10.9 | 22.8 | *(20.8)* | 16.15 | 4.83 |
|  |  | 12 | 10.9 | 23.1 | *(21.8)* | 17.24 | 4.01 |
|  |  | 13 | 9.9 | 23.2 | *(21.9)* | 15.80 | 4.76 |
|  |  | 14 | 8.5 | 23.4 | *(22.1)* | 13.84 | 4.25 |
|  |  | 15 | 8.6 | 23.3 | *(22.7)* | 14.30 | 3.82 |
|  |  | 16 | 9.0 | 23.3 | *(22.7)* | 14.91 | 4.69 |
|  |  | 17 | 9.4 | 23.4 | *(22.8)* | 15.73 | 4.31 |
|  |  | 18 | 8.4 | 23.3 | *(22.8)* | 13.98 | 4.20 |
|  |  | 19 | 8.4 | 23.3 | *(22.8)* | 14.02 | 4.24 |
|  |  | 20 | 9.5 | 23.3 | *(22.8)* | 15.88 | 4.56 |
|  |  | 21 | 8.8 | 23.1 | *(22.6)* | 14.41 | 4.29 |
|  |  | 22 | 7.9 | 23.0 | *(22.5)* | 12.80 | 4.22 |
|  |  | 23 (P. C.) | 8.8 | 22.9 | *(22.3)* | 14.16 | 4.52 |
|  |  |  |  |  |  |  |  |
| Average | 14.52 | 4.38 |
| Std Dev | 1.42 | 0.30 |
| 23 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | 0.09 |
| Fract. Final Year 1 | 111% |
| Fract. Final Year 2 | 104% |
| Fract. Final Year 3 | 104% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 58.032 | - | 1 | - | - | - | - | 3.97 |
|  |  | 2 | - | - | - | - | 4.24 |
|  |  | 3 | 14.4 | 19.3 | 18.0 | 15.73 | 4.22 |
|  |  | 4 | 12.9 | 19.6 | 18.0 | 14.29 | 4.50 |
|  |  | 5 | 13.6 | 19.9 | 17.9 | 15.16 | 3.91 |
|  |  | 6 | 11.3 | 20.2 | 18.2 | 13.06 | 3.85 |
|  |  | 7 | 10.7 | 20.9 | 18.7 | 13.11 | 4.18 |
|  |  | 8 | 11.7 | 21.0 | 18.9 | 14.60 | 4.54 |
|  |  | 9 | 11.8 | 21.8 | 19.2 | 15.50 | 4.34 |
|  |  | 10 | 11.1 | 22.2 | 19.9 | 15.35 | 4.30 |
|  |  | 11 | 10.5 | 22.5 | 20.5 | 15.19 | 4.62 |
|  |  | 12 | 11.0 | 22.9 | 20.8 | 16.39 | 4.83 |
|  |  | 13 | 10.9 | 23.2 | 21.5 | 17.11 | 4.67 |
|  |  | 14 | 10.1 | 23.6 | 22.1 | 16.48 | 5.18 |
|  |  |  |  |  |  |  |  |
| Average | 15.16 | 4.38 |
| Std Dev | 1.25 | 0.37 |

|  |  |
| --- | --- |
| Mean sensitivity | 0.06 |
| Fract. Final Year 1 | - |
| Fract. Final Year 2 | - |
| Fract. Final Year 3 | - |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 58.360 | - | 1 | 14.7 | *(13.2)* | *(12.2)* | 7.46 | 4.17 |
|  |  | 2 | 15.2 | *(14.1)* | *(13.1)* | 8.81 | 5.02 |
|  |  | 3 | 12.4 | *(15.4)* | *(13.8)* | 8.30 | 4.39 |
|  |  | 4 | 13.8 | *(16.4)* | *(14.6)* | 10.36 | 4.55 |
|  |  | 5 | 13.4 | *(17.4)* | *(15.8)* | 11.53 | 4.47 |
|  |  | 6 | 14.0 | *(17.8)* | *(16.3)* | 12.75 | 4.24 |
|  |  | 7 | 13.7 | *(18.5)* | *(16.9)* | 13.45 | 4.29 |
|  |  | 8 | 14.3 | *(19.3)* | *(17.8)* | 15.38 | 4.45 |
|  |  | 9 | 13.3 | *(20.2)* | *(18.5)* | 15.60 | 4.32 |
|  |  | 10 | 13.3 | *(20.5)* | *(19.0)* | 16.23 | 4.35 |
|  |  | 11 | 12.2 | *(21.0)* | *(19.6)* | 15.65 | 4.13 |
|  |  | 12 | 12.6 | *(21.3)* | *(19.8)* | 16.74 | 4.37 |
|  |  | 13 | 11.8 | *(21.6)* | *(20.2)* | 16.09 | 4.05 |
|  |  | 14 (P. C.) | 10.8 | *(21.5)* | *(20.0)* | 14.59 | 4.24 |
|  |  |  |  |  |  |  |  |
| Average | 12.95 | 4.37 |
| Std Dev | 3.33 | 0.24 |
| 14 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | 0.05 |
| Fract. Final Year 1 | 91% |
| Fract. Final Year 2 | 89% |
| Fract. Final Year 3 | 88% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 60.057 | - | 1 | 6.8 | 19.0 | *(15.2)* | 6.17 | 4.28 |
|  |  | 2 | 6.8 | 19.4 | *(15.5)* | 6.39 | 4.14 |
|  |  | 3 | 6.6 | 19.5 | *(15.0)* | 6.08 | 4.10 |
|  |  | 4 | 6.5 | 19.8 | *(15.2)* | 6.11 | 3.75 |
|  |  | 5 | 6.6 | 19.7 | *(14.7)* | 5.97 | 4.05 |
|  |  | 6 | 6.5 | 19.7 | *(14.7)* | 5.89 | 4.08 |
|  |  | 7 | 6.3 | 19.8 | *(14.9)* | 5.86 | 4.07 |
|  |  | 8 | 6.5 | 20.0 | *(14.6)* | 5.94 | 4.31 |
|  |  | 9 | 5.5 | 20.3 | *(14.8)* | 5.17 | 3.82 |
|  |  | 10 (P. C.) | 3.9 | 20.2 | *(14.7)* | 3.60 | 2.62 |
|  |  |  |  |  |  |  |  |
| Average | 5.95 | 4.07 |
| Std Dev | 0.34 | 0.18 |
| 10 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | 0.05 |
| Fract. Final Year 1 | 70% |
| Fract. Final Year 2 | 65% |
| Fract. Final Year 3 | 68% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | Volumes measured directly from CT (cm3) | | |
| 3 | | 6.16 | | |
| 4 | | 5.49 | | |
| 5 | | 5.98 | | |
| 6 | | 5.60 | | |
| 7 | | 5.29 | | |
| 8 | | 5.58 | | |
| 9 | | 5.11 | | |
| 10 (P. C.) | | 3.22 | | |
|  | |  | | |
| Average | | 5.60 | | |
| Std Dev | | 0.37 | | |
| 10 (P. C.) not included | | | | |
| Mean sensitivity | | - |
| Fract. Final Year 1 | | 63% |
| Fract. Final Year 2 | | 60% |
| Fract. Final Year 3 | | 64% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 63.125 | - | 1 | *(10.9)* | *(16.1)* | *(14.1)* | 7.75 | - |
|  |  | 2 | *(8.2)* | *(16.6)* | *(14.8)* | 6.27 | - |
|  |  | 3 | *(5.4)* | *(16.0)* | *(14.0)* | 3.77 | - |
|  |  | 4 | *(6.3)* | *(15.7)* | *(13.8)* | 4.25 | - |
|  |  | 5 | *(6.3)* | *(15.7)* | *(14.4)* | 4.42 | - |
|  |  | 6 | *(6.1)* | *(15.8)* | *(14.5)* | 4.38 | - |
|  |  | 7 | *(9.7)* | *(16.0)* | *(14.8)* | 7.20 | - |
|  |  | 8 | *(9.7)* | *(16.0)* | *(15.5)* | 7.58 | - |
|  |  | 9 | *(7.8)* | *(15.4)* | *(14.9)* | 5.58 | - |
|  |  | 10 | *(7.2)* | *(15.1)* | *(15.5)* | 5.29 | - |
|  |  | 11 | *(6.2)* | *(15.1)* | *(15.6)* | 4.59 | - |
|  |  | 12 | *(5.0)* | *(15.1)* | *(15.2)* | 3.58 | - |
|  |  | 13 (P. C.) | *(4.6)* | *(15.0)* | *(15.6)* | 3.36 | - |
|  |  |  | Increments not clear |  |  |  |  |
| Average | 5.39 | - |
| Std Dev | 1.49 | - |
| 13 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | - |
| Fract. Final Year 1 | 94% |
| Fract. Final Year 2 | 82% |
| Fract. Final Year 3 | 108% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 63.170 | - | 1 | 15.2 | 18.6 | 15.7 | 13.86 | 3.90 |
|  |  | 2 | 13.1 | 18.8 | 15.9 | 12.34 | 3.63 |
|  |  | 3 | 14.2 | 19.1 | 16.2 | 13.78 | 4.31 |
|  |  | 4 | 15.7 | 19.5 | 16.7 | 16.10 | 5.48 |
|  |  | 5 | 13.1 | 19.9 | 17.2 | 14.10 | 5.21 |
|  |  | 6 | 13.9 | 20.8 | 17.7 | 16.07 | 5.94 |
|  |  |  |  |  |  |  |  |
| Average | 14.37 | 4.74 |
| Std Dev | 1.46 | 0.93 |

|  |  |
| --- | --- |
| Mean sensitivity | 0.12 |
| Fract. Final Year 1 | - |
| Fract. Final Year 2 | - |
| Fract. Final Year 3 | - |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 64.013 | - | 1 | 15.4 | 20.5 | *(17.6)* | 17.36 | 4.24 |
|  |  | 2 | 15.7 | 20.8 | *(17.9)* | 18.38 | 4.72 |
|  |  | 3 | 12.3 | 21.7 | 18.6 | 15.53 | 4.61 |
|  |  | 4 | 13.5 | 22.0 | 19.1 | 17.89 | 5.14 |
|  |  | 5 | 12.2 | 22.6 | 19.3 | 16.80 | 4.46 |
|  |  | 6 | 11.4 | 22.8 | 19.8 | 16.12 | 4.30 |
|  |  | 7 | 11.0 | 23.3 | 20.0 | 16.09 | 4.11 |
|  |  | 8 | 12.3 | 23.5 | 20.5 | 18.60 | 4.30 |
|  |  | 9 | 12.5 | 24.0 | 20.6 | 19.39 | 4.16 |
|  |  | 10 | 12.3 | 24.4 | 21.0 | 19.74 | 4.91 |
|  |  |  |  |  |  |  |  |
| Average | 17.59 | 4.49 |
| Std Dev | 1.45 | 0.34 |

|  |  |
| --- | --- |
| Mean sensitivity | 0.08 |
| Fract. Final Year 1 | - |
| Fract. Final Year 2 | - |
| Fract. Final Year 3 | - |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (\*) |
| 70.018 | - | 1 | - | - | - | - | 82 |
|  |  | 2 | - | - | - | - | 82 |
|  |  | 3 | - | - | - | - | 87 |
|  |  | 4 | - | - | - | - | 95 |
|  |  | 5 | - | - | - | - | 90 |
|  |  | 6 (P. C.) | - | - | - | - | 28 |
|  |  |  |  |  |  |  | \* pixels - unscaled |
| Average | - | 87.10 |
| Std Dev | - | 5.38 |
| 6 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | 0.05 |
| Fract. Final Year 1\* | 31% |
| Fract. Final Year 2\* | 30% |
| Fract. Final Year 3\* | 29% |

\*based on thicknesses

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 76.064 | - | 1 | 14.3 | 18.3 | 14.5 | 11.87 | 4.87 |
|  |  | 2 | 13.1 | 18.9 | 15.5 | 12.05 | 4.46 |
|  |  | 3 | 13.2 | 19.5 | 16.0 | 12.90 | 4.44 |
|  |  | 4 | 11.6 | 20.0 | 16.6 | 12.05 | 3.97 |
|  |  | 5 | 12.1 | 20.6 | 17.5 | 13.73 | 4.25 |
|  |  | 6 | 13.4 | 20.8 | 18.0 | 15.73 | 4.78 |
|  |  | 7 | 12.2 | 21.1 | 18.4 | 14.82 | 4.61 |
|  |  | 8 | 11.7 | 21.6 | 19.0 | 15.12 | 4.44 |
|  |  | 9 | 12.8 | 21.7 | 19.2 | 16.68 | 4.26 |
|  |  | 10 | 14.6 | 21.9 | 19.6 | 19.63 | 4.67 |
|  |  | 11 | 14.8 | 21.9 | 19.6 | 19.86 | 4.24 |
|  |  | 12 | 16.6 | 22.2 | 19.3 | 22.18 | 4.42 |
|  |  |  |  |  |  |  |  |
| Average | 15.55 | 4.45 |
| Std Dev | 3.43 | 0.25 |

|  |  |
| --- | --- |
| Mean sensitivity | 0.07 |
| Fract. Final Year 1 | - |
| Fract. Final Year 2 | - |
| Fract. Final Year 3 | - |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 76.085 | - | 1 | 33.9 | 7.7 | *(6.9)* | 5.60 | 4.91 |
|  |  | 2 | 18.8 | 8.4 | *(8.1)* | 4.00 | 4.32 |
|  |  | 3 | 20.7 | 9.2 | *(8.8)* | 5.25 | 4.58 |
|  |  | 4 | 22.8 | 9.7 | *(9.4)* | 6.51 | 4.35 |
|  |  | 5 | 18.4 | 10.3 | *(10.4)* | 6.17 | 4.14 |
|  |  | 6 | 18.4 | 10.8 | *(10.9)* | 6.82 | 4.07 |
|  |  | 7 (P. C.) | 8.9 | 11.5 | *(11.9)* | 3.82 | 2.89 |
|  |  |  |  |  |  |  |  |
| Average | 5.73 | 4.40 |
| Std Dev | 1.02 | 0.31 |
| 7 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | 0.05 |
| Fract. Final Year 1 | 56% |
| Fract. Final Year 2 | 59% |
| Fract. Final Year 3 | 47% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | Volumes measured directly from CT (cm3) | | |
| 2 | | 4.25 | | |
| 3 | | 5.44 | | |
| 4 | | 6.07 | | |
| 5 | | 5.58 | | |
| 6 | | 5.14 | | |
| 7 (P. C.) | | 3.04 | | |
|  | |  | | |
| Average | | 5.30 | | |
| Std Dev | | 0.67 | | |
| 7 (P. C.) not included | | | | |
| Mean sensitivity | | - |
| Fract. Final Year 1 | | 59% |
| Fract. Final Year 2 | | 57% |
| Fract. Final Year 3 | | 51% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (mm) |
| 82.179 | - | 1 | 13.2 | 13.6 | 13.4 | 7.74 | 4.32 |
|  |  | 2 | 15.3 | 14.2 | 13.7 | 9.42 | 4.24 |
|  |  | 3 | 14.1 | 14.7 | 14.2 | 9.35 | 4.06 |
|  |  | 4 | 13.7 | 15.3 | 14.9 | 10.03 | 4.20 |
|  |  | 5 | 12.8 | 15.8 | 15.4 | 10.01 | 3.95 |
|  |  | 6 | 14.0 | 16.5 | 16.0 | 11.70 | 4.39 |
|  |  | 7 | 13.4 | 17.2 | 16.5 | 12.07 | 4.23 |
|  |  | 8 | 14.6 | 17.6 | 17.3 | 14.11 | 4.50 |
|  |  | 9 | 13.1 | 18.0 | 17.6 | 13.26 | 4.31 |
|  |  | 10 | 12.8 | 18.6 | 18.5 | 13.88 | 4.34 |
|  |  | 11 | 12.2 | 19.0 | 18.9 | 13.87 | 4.33 |
|  |  | 12 | 11.6 | 19.5 | 19.5 | 13.92 | 4.37 |
|  |  | 13 | 11.5 | 19.7 | 19.9 | 14.14 | 4.47 |
|  |  | 14 (P. C.) | 11.5 | 19.9 | 20.3 | 14.54 | 4.53 |
|  |  |  |  |  |  |  |  |
| Average | 11.81 | 4.29 |
| Std Dev | 2.25 | 0.15 |
| 14 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | 0.04 |
| Fract. Final Year 1 | 103% |
| Fract. Final Year 2 | 104% |
| Fract. Final Year 3 | 101% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (\*) |
| Loc. 8 | - | 1 | - | - | - | - | 160 |
|  |  | 2 | - | - | - | - | 166 |
|  |  | 3 | - | - | - | - | 169 |
|  |  | 4 (P. C.) | - | - | - | - | 27 |
|  |  |  |  |  |  |  | \* pixels - unscaled |
| Average | - | 165.08 |
| Std Dev | - | 4.61 |
| 4 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | - |
| Fract. Final Year 1\* | 16% |
| Fract. Final Year 2\* | 16% |
| Fract. Final Year 3\*† | 15% |
| \*based on thicknesses  †based on 3 years |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Specimen | | Increment | Measurements | | | | |
| Field ID | DMNS # | numbered toward pulp cavity (marked P. C. where preserved) | L (mm) | rmaj (mm) | rmin (mm) | EIV (cm3) | Thickness (\*) |
| "Clay" | 60704.008 | 1 | - | - | - | - | 63 |
|  |  | 2 | - | - | - | - | 62 |
|  |  | 3 (P. C.) | - | - | - | - | 36 |
|  |  |  |  |  |  |  | \* pixels - unscaled |
| Average | - | 62.22 |
| Std Dev | - | 0.79 |
| 3 (P. C.) not included | | |

|  |  |
| --- | --- |
| Mean sensitivity | - |
| Fract. Final Year 1\* | 58% |
| Fract. Final Year 2\* | 58% |
| Fract. Final Year 3 | - |

\* based on thicknesses

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Hyde Park mastodon | |  | North Java mastodon | |
| Increment | Thickness (mm) |  | Increment | Thickness (mm) |
| 1 | 2.84 |  | 1 | 2.83 |
| 2 | 2.72 |  | 2 | 4.21 |
| 3 | 3.54 |  | 3 | 4.31 |
| 4 | 3.61 |  | 4 | 5.32 |
| 5 | 3.74 |  | 5 | 5.66 |
| 6 | 4.36 |  | 6 | 4.16 |
| 7 | 4.55 |  | 7 | 4.14 |
| 8 | 4.41 |  | 8 | 4.55 |
| 9 | 4.37 |  | 9 | 3.71 |
| 10 | 4.59 |  | 10 | 3.76 |
| 11 | 4.52 |  | 11 | 4.12 |
| 12 | 2.80 |  | 12 | 4.92 |
| 13 | 4.94 |  | 13 | 3.81 |
| 14 | 5.29 |  | 14 | 3.75 |
| 15 | 4.32 |  | 15 | 3.83 |
| 16 | 4.32 |  | 16 | 3.41 |
| 17 | 4.88 |  | 17 | 3.46 |
| 18 | 4.85 |  | 18 | 4.64 |
| 19 | 4.20 |  | 19 | 3.44 |
| 20 | 5.82 |  | 20 | 3.73 |
| 21 | 5.07 |  | 21 | 3.68 |
| 22 | 3.46 |  | 22 | 3.00 |
| 23 | 4.55 |  | 23 | 3.88 |
| 24 | 3.68 |  | 24 | 3.91 |
| 25 | 4.66 |  | 25 | 4.02 |
| 26 | 3.87 |  | 26 | 4.04 |
| 27 | 4.40 |  | 27 | 3.18 |
| 28 | 4.28 |  | 28 | 3.29 |
| 29 | 3.96 |  | 29 | 3.60 |
| 30 | 4.71 |  | 30 | 3.80 |
| 31 | 3.91 |  | 31 | 2.89 |
| 32 | 4.29 |  | 32 | 3.63 |
|  |  |  | 33 | 3.54 |
| Average | 4.23 |  | 34 | 3.79 |
| Std Dev | 0.70 |  |  |  |
| Mean sensitivity | 0.15 |  | Average | 3.88 |
|  |  |  | Std Dev | 0.62 |
|  |  |  | Mean sensitivity | 0.13 |