

***** MEANS BY PROVENANCE *****

THREE YEAR MEASUREMENT

TEST IDENTIFICATION: 14-01-02A
 SPECIES: Pinus tecunumanii and oocarpa CFI
 Guatemala, Honduras, Nicaragua
 South Africa 1982-83
 COMPANY: Aracruz Florestal

SITE NAME: Pontal
 ELEVATION (m): 40
 LATITUDE: 19° 48' S
 LONGITUDE: 40° 17' W
 ANNUAL PRECIPITATION (mm): 1360

| <u>PROVENANCE</u> | <u>NUMBER OF TREES</u> | <u>PERCENT SURVIVAL</u> | <u>MEAN HEIGHT METERS</u> | <u>MEAN DIAMETER CENTIMETERS</u> | <u>VOLUME CUBIC METERS/ha</u> |
|----------------------|----------------------------|-----------------------------|-----------------------------------|--|---------------------------------------|
| Yucul | 417 | 97 | 4.42 | 5.9 | 5.5 |
| Mal Paso | 400 | 93 | 3.64 | 5.4 | 3.9 |
| Dipilto | 415 | 96 | 3.64 | 5.1 | 3.6 |
| Control 999 | 46 | 85 | 3.56 | 5.0 | 3.1 |
| Valle de Angeles | 392 | 89 | 3.28 | 4.5 | 2.6 |
| Siguatopeque | 400 | 90 | 3.05 | 4.2 | 2.1 |
| San Luis Jilotepeque | 357 | 93 | 2.96 | 4.1 | 2.0 |
| Cerro Bonete | 377 | 87 | 2.90 | 3.9 | 1.8 |

CONTROL LOTS: 999 = Pinus oocarpa Agudos, Brasil

NOTE: Tree volume with bark was calculated using a formula for juvenile trees: Volume(cubic meters) = .00003 D²H, where D = D.B.H. in centimeters and H = total height in meters.

***** MEANS BY FAMILY *****

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| <u>FAMILY</u> | <u>NUMBER OF TREES</u> | <u>PERCENT SURVIVAL</u> | <u>MEAN HEIGHT METERS</u> | <u>MEAN DIAMETER CENTIMETERS</u> | <u>INDIVIDUAL TREE VOLUME CUBIC METERS</u> |
|---------------|----------------------------|-----------------------------|-----------------------------------|--|--|
| 15 | 52 | 96 | 4.55 | 6.1 | 0.00557 |
| 9 | 53 | 98 | 3.78 | 5.9 | 0.00467 |
| 12 | 206 | 95 | 3.96 | 5.6 | 0.00448 |
| 11 | 205 | 95 | 3.84 | 5.5 | 0.00427 |
| 5 | 52 | 96 | 3.83 | 5.3 | 0.00367 |
| *999 | 46 | 85 | 3.56 | 5.0 | 0.00333 |
| 8 | 204 | 94 | 3.57 | 4.9 | 0.00323 |
| 6 | 47 | 87 | 3.39 | 4.8 | 0.00306 |
| 1 | 200 | 90 | 3.52 | 4.6 | 0.00298 |
| 14 | 148 | 88 | 3.43 | 4.6 | 0.00298 |
| 10 | 294 | 91 | 3.45 | 4.7 | 0.00287 |
| 3 | 259 | 94 | 3.41 | 4.6 | 0.00285 |
| 17 | 99 | 92 | 3.32 | 4.7 | 0.00282 |
| 2 | 195 | 90 | 3.32 | 4.6 | 0.00278 |
| 7 | 151 | 93 | 3.31 | 4.6 | 0.00273 |
| 19 | 49 | 91 | 3.30 | 4.7 | 0.00269 |
| 102 | 54 | 100 | 3.17 | 4.6 | 0.00245 |
| 110 | 47 | 78 | 3.07 | 4.2 | 0.00231 |
| 115 | 51 | 94 | 3.03 | 4.3 | 0.00228 |
| 22 | 47 | 87 | 3.13 | 4.2 | 0.00195 |
| 119 | 52 | 96 | 2.80 | 4.2 | 0.00183 |
| 93 | 53 | 98 | 3.04 | 3.8 | 0.00176 |
| 4 | 50 | 93 | 2.93 | 3.9 | 0.00173 |
| 94 | 52 | 96 | 2.81 | 3.8 | 0.00162 |

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14-01-02A CONTINUED

| <u>FAMILY</u> | <u>NUMBER OF TREES</u> | <u>PERCENT SURVIVAL</u> | <u>MEAN HEIGHT METERS</u> | <u>MEAN DIAMETER CENTIMETERS</u> | <u>INDIVIDUAL TREE VOLUME CUBIC METERS</u> |
|---------------|----------------------------|-----------------------------|-----------------------------------|--|--|
| 95 | 48 | 89 | 2.74 | 3.7 | 0.00151 |
| 16 | 90 | 83 | 2.72 | 3.6 | 0.00147 |
| ----- | | | | | |
| **OVERALL | 2758 | 92 | 3.43 | 4.7 | 0.00302 |
| ----- | | | | | |

* CONTROL LOTS: 999 = Pinus oocarpa Agudos, Brasil

**Overall mean does not include control lots.

NOTE: Tree volume with bark was calculated using a formula for juvenile trees: Volume(cubic meters) = .00003 D² H, where D = D.B.H. in centimeters and H = total height in meters.