

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

THREE YEAR MEASUREMENT

TEST IDENTIFICATION: 02-01-01B

SPECIES: Pinus oocarpa (Guatemala-1981)

COMPANY: Aracruz Florestal

SITE NAME: Sao Mateus, Brasil

ELEVATION (m): 40

LATITUDE: 19°48'S

LONGITUDE: 40°17'W

ANNUAL PRECIPITATION (mm): 1500

<u>PROVENANCE</u>	<u>PERCENT SURVIVAL</u>	<u>MEAN HEIGHT METERS</u>	<u>MEAN DIAMETER CENTIMETERS</u>	<u>MEAN STEM STRAIGHTNESS</u>	<u>VOLUME CUBIC METERS/ha</u>
*205 Agudos, Br.	93	4.05	7.9	3.3	8.4
*Mt. Pine Ridge, Bel.	96	3.62	4.6	2.2	3.2
*206 Agudos, Br.	96	3.30	4.1	2.5	2.5
La Union, Gua.	98	3.13	4.0	2.0	2.4
Tapalapa, Gua.	93	2.84	3.8	2.2	1.9
San Lorenzo, Gua.	96	2.97	3.6	2.2	1.9
San Jose, Gua.	93	2.69	3.6	1.9	1.7
La Lagunilla, Gua.	97	2.61	3.3	2.0	1.5
*Chiquimula, Gua.	91	2.54	3.3	1.7	1.4
La Mina, Gua.	96	2.60	3.3	2.0	1.4
Selva Pinares, Gua.	94	2.48	3.2	1.8	1.3

* CONTROL LOTS: Pinus oocarpa Chiquimula, Guatemala
Pinus tecunumanii Mt. Pine Ridge, Belize
Pinus caribaea var hondurensis Agudos (205), Brasil
Pinus oocarpa Agudos (206), Brasil

** 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.

NOTE: Stem straightness ranked from 1 to 6. 1=poorest to 6=best

PROVENANCE/FAMILIES

<u>PROVENANCE</u>	<u>FAMILIES</u>
La Lagunilla, Gua.	1 9 10
Selva Pinares, Gua.	20
La Mina, Gua.	23 25 26 27 31
San Jose, Gua.	34 35 36 39 41 42
La Union, Gua.	43 44 441 45 46
San Lorenzo, Gua.	48 49 50 51 53 54 55 56
Tapalapa, Gua.	57 58 59 60 62 64 66

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

THREE YEAR MEASUREMENT

TEST IDENTIFICATION: 02-01-01B

SPECIES: Pinus oocarpa (Guatemala-1981)

COMPANY: Aracruz Florestal

<u>FAMILY</u>	<u>PERCENT SURVIVAL</u>	<u>MEAN HEIGHT METERS</u>	<u>MEAN DIAMETER CENTIMETERS</u>	<u>MEAN STEM STRAIGHTNESS</u>	<u>** INDIVIDUAL TREE VOLUME CUBIC METERS</u>
*205	93	4.05	7.9	3.3	0.00816
*202	96	3.62	4.6	2.2	0.00304
44	100	3.31	4.4	2.2	0.00259
66	96	3.34	4.4	2.3	0.00258
54	100	3.26	4.2	2.3	0.00257
46	98	3.19	4.4	2.0	0.00255
64	89	3.21	4.3	2.5	0.00252
57	96	3.27	4.4	2.4	0.00251
*206	96	3.30	4.1	2.5	0.00233
43	98	3.09	4.3	2.2	0.00224
35	91	2.96	4.1	2.0	0.00219
49	94	3.38	4.0	2.2	0.00216
42	96	2.68	3.9	1.8	0.00213
45	96	2.99	3.7	1.9	0.00202
10	98	3.03	3.7	2.2	0.00196
53	96	3.18	3.9	2.5	0.00192
48	98	3.06	3.8	2.1	0.00189
23	98	2.88	3.8	2.1	0.00186
39	87	2.87	3.7	1.8	0.00171
62	91	2.90	3.6	2.0	0.00154
27	96	2.64	3.3	1.9	0.00148
34	98	2.84	3.6	2.3	0.00146
*201	91	2.54	3.3	1.7	0.00140
441	98	3.07	3.5	1.9	0.00140
1	98	2.72	3.4	2.1	0.00139
26	98	2.62	3.5	2.2	0.00133
60	98	2.47	3.3	2.3	0.00131
56	96	2.61	3.2	1.8	0.00130
50	93	2.72	3.2	2.0	0.00129
51	98	2.89	3.2	2.2	0.00126
55	94	2.62	3.1	2.1	0.00126
41	89	2.29	2.9	1.6	0.00122

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02-01-01B THREE YEAR MEASUREMENTS CONTINUED

<u>FAMILY</u>	<u>PERCENT SURVIVAL</u>	<u>MEAN HEIGHT METERS</u>	<u>MEAN DIAMETER CENTIMETERS</u>	<u>MEAN STEM STRAIGHTNESS</u>	<u>INDIVIDUAL TREE VOLUME CUBIC METERS</u>
20	94	2.48	3.2	1.8	0.00120
36	94	2.48	3.4	1.8	0.00113
58	94	2.26	3.0	1.8	0.00100
31	94	2.44	2.9	1.9	0.00091
59	89	2.45	3.0	2.1	0.00087
25	93	2.40	2.9	1.8	0.00079
9	94	2.04	2.7	1.7	0.00067

* CONTROL LOTS: 201=Pinus oocarpa Chiquimula, Guatemala
202=Pinus tecunumanii Mt. Pine Ridge, Belize
205=Pinus caribea var hondurensis Agudos, Brasil
206=Pinus oocarpa Agudos, Brasil

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juvenile trees: Volume(cubic meters) = .00003 D²H, where
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