

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

THREE YEAR MEASUREMENT

TEST IDENTIFICATION: 02-02-01A

SPECIES: Pinus oocarpa (Guatemala-1981)

COMPANY: Carton de Colombia

SITE NAME: Finca La Arcadia, Cauca

ELEVATION (m): 1750

LATITUDE: 2°30'N

LONGITUDE: 76°35'W

ANNUAL PRECIPITATION (mm): 1930

PROVENANCE	PERCENT SURVIVAL	MEAN HEIGHT METERS	MEAN DIAMETER CENTIMETERS	MEAN STEM STRAIGHTNESS	**VOLUME CUBIC METERS/ha
*Mt. Pine Ridge, Bel.	87	4.74	7.1	3.7	7.6
San Lorenzo, Gua.	95	4.41	6.7	3.6	7.1
La Lagunilla, Gua.	88	4.15	6.8	3.9	6.5
*Mal Paso, Gua.	93	3.97	6.5	3.9	6.1
Tapalapa, Gua.	89	3.75	6.0	3.9	4.9
La Union, Gua.	92	3.61	5.8	4.1	4.5
Selva Pinares, Gua.	85	3.40	5.8	4.4	3.8
San Jose, Gua.	92	3.28	5.3	4.1	3.6
La Mina, Gua.	84	3.41	5.3	4.0	3.4
*Chiquimula, Gua.	85	3.22	5.2	4.4	3.0

* CONTROL LOTS: Pinus oocarpa Chiquimula, Guatemala
Pinus tecunumanii Mt. Pine Ridge, Belize
Commercial Control Pinus oocarpa Mal Paso, Guatemala

** 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.

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

PROVENANCE/FAMILIES

PROVENANCE	FAMILIES
La Lagunilla, Gua.	9 10
Selva Pinares, Gua.	20
La Mina, Gua.	23 25 27 29 31
San Jose, Gua.	36 37 40 41 42
La Union, Gua.	44 441 45 46
San Lorenzo, Gua.	48 49 50 51 53 54 56
Tapalapa, Gua.	57 58 59 62 63 64

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

THREE YEAR MEASUREMENT

TEST IDENTIFICATION: 02-02-01A

SPECIES: Pinus oocarpa (Guatemala-1981)

COMPANY: Carton de Colombia

<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>
*202	87	4.74	7.1	3.7	0.00792
48	96	4.52	7.2	3.7	0.00778
49	96	4.62	7.0	3.9	0.00752
54	91	4.47	6.8	3.6	0.00710
56	98	4.48	6.7	3.5	0.00704
9	83	4.18	6.8	3.5	0.00680
10	92	4.12	6.7	4.3	0.00651
51	93	4.33	6.6	3.7	0.00650
64	73	3.71	6.1	4.2	0.00616
53	94	4.27	6.7	3.2	0.00611
*203	93	3.97	6.5	3.9	0.00596
57	91	4.02	6.3	3.9	0.00548
63	90	3.90	6.3	4.0	0.00548
62	94	3.83	6.2	3.7	0.00520
44	88	3.64	6.2	4.2	0.00499
50	98	4.16	5.9	3.7	0.00478
42	98	3.49	5.9	4.1	0.00456
59	87	3.55	6.0	4.1	0.00431
46	96	3.59	5.9	4.1	0.00421
441	92	3.69	5.6	3.9	0.00416
31	83	3.47	5.7	4.1	0.00412
45	93	3.53	5.5	4.1	0.00409
20	85	3.40	5.8	4.4	0.00397
37	96	3.50	5.5	4.0	0.00385
23	84	3.37	5.5	3.9	0.00381
27	78	3.60	5.4	3.5	0.00379
58	94	3.46	5.3	3.9	0.00356
29	92	3.43	5.2	4.2	0.00351
36	79	3.04	5.6	4.4	0.00351

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02-02-01A 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>
41	96	3.35	5.2	4.0	0.00321
*201	85	3.22	5.2	4.4	0.00318
25	79	2.98	4.7	4.3	0.00240
40	87	2.84	4.3	4.2	0.00218

*CONTROL LOTS: 201=Pinus oocarpa Chiquimula, Guatemala
202=Pinus tecunumanii Mt. Pine Ridge, Belize
203=Commercial Control Pinus oocarpa Mal Paso, Guatemala

** Tree volume with bark was calculated using a formula for juvenile trees: $\text{Volume(cubic meters)} = .00003 D^2 H$, 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