

\*\*\*\*\* QUARTILE MEANS \*\*\*\*\*

THREE YEAR MEASUREMENT

TEST IDENTIFICATION: 03-02-01A

SPECIES: Pinus tecunumanii (Belize)

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

DESCRIPTION: There are a total of 44 families represented in this test plus three control lots. The four quartiles, FIRST, SECOND, THIRD and FOURTH, represent the 44 families divided into four groups according to their ordered rank by individual tree volume. Each quartile contains 25% of the families. Values for control lots have also been calculated.

QUARTILE	PERCENT SURVIVAL	MEAN HEIGHT METERS	MEAN DIAMETER CENTIMETERS	MEAN STEM STRAIGHTNESS	**INDIVIDUAL TREE VOLUME CUBIC METERS
FIRST QUARTILE	96	5.98	8.8	3.5	0.01526
CONTROL LOT 202	100	5.92	8.6	3.7	0.01462
SECOND QUARTILE	98	5.71	8.5	3.7	0.01363
CONTROL LOT 203	94	5.66	8.2	2.9	0.01323
THIRD QUARTILE	96	5.62	8.1	3.7	0.01230
FOURTH QUARTILE	97	5.38	7.7	3.6	0.01076
CONTROL LOT 201	81	3.69	5.9	3.8	0.00472
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TREATMENT MEANS	97	5.67	8.3	3.6	0.01297
CONTROL LOT MEANS	92	5.17	7.7	3.5	0.01123
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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: Volume(cubic meters) = .00003 D<sup>2</sup> H, where D = D.B.H. in centimeters and H = total height in meters.

FAMILIES IN QUARTILES: FIRST: 41 98 31 28 56 121 53 19 33 60 102  
 SECOND: 87 32 71 27 23 65 35 70 22 20 74  
 THIRD: 24 67 26 103 115 113 54 36 93 90 34  
 FOURTH: 92 62 25 105 109 63 100 42 111 107 16

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

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

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<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	100	6.24	9.4	3.4	0.01781
98	89	6.38	8.8	3.3	0.01664
31	96	6.31	8.7	3.3	0.01551
28	100	5.77	8.9	3.8	0.01526
56	98	5.84	8.9	3.5	0.01506
121	91	6.08	8.5	3.4	0.01482
53	96	5.92	9.0	3.7	0.01478
19	96	5.83	8.8	3.9	0.01478
*202	100	5.92	8.6	3.7	0.01462
33	98	5.71	8.7	3.5	0.01460
60	98	5.84	8.7	3.5	0.01451
102	91	6.04	8.4	3.4	0.01449
87	100	5.93	8.8	3.7	0.01445
32	94	5.85	8.6	3.5	0.01386
71	94	5.79	8.6	3.9	0.01384
27	96	5.77	8.4	3.9	0.01374
23	100	5.59	8.4	3.8	0.01360
65	98	5.52	8.5	3.9	0.01354
35	97	5.57	8.5	3.6	0.01352
70	100	5.56	8.7	3.1	0.01346
22	100	5.78	8.3	4.0	0.01333
20	100	5.79	8.1	3.5	0.01323
*203	94	5.66	8.2	2.9	0.01323
74	96	5.68	8.4	3.7	0.01322
24	98	5.69	8.3	3.8	0.01313
67	98	5.79	8.4	3.3	0.01312
26	100	5.63	8.2	3.7	0.01292
103	94	5.92	8.0	3.8	0.01250
115	96	5.30	8.3	4.5	0.01215
113	95	5.45	8.2	3.2	0.01213
54	96	5.60	8.1	3.6	0.01213
36	97	5.83	8.0	3.9	0.01180
93	87	5.64	7.8	3.7	0.01179
90	96	5.57	7.6	3.7	0.01163
34	98	5.38	7.8	3.7	0.01159
62	98	5.56	8.0	3.5	0.01144
92	98	5.72	7.7	3.1	0.01143

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03-02-01A 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>
25	96	5.55	7.8	3.4	0.01121
105	98	5.42	7.8	3.5	0.01120
109	98	5.57	7.8	3.8	0.01088
63	91	5.38	7.8	3.6	0.01088
100	96	5.37	7.7	3.7	0.01088
42	100	5.26	7.9	4.3	0.01085
111	98	5.28	7.7	3.6	0.01054
107	100	5.15	7.7	3.5	0.01007
16	88	4.89	6.9	3.5	0.00874
*201	81	3.69	5.9	3.8	0.00472

\* CONTROL LOTS: 201=Pinus oocarpa Chiquimula, Guatemala  
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