

***** QUARTILE MEANS *****

THREE YEAR MEASUREMENT

TEST IDENTIFICATION: 03-02-02A

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 39 families represented in this test plus three control lots. The four quartiles, FIRST, SECOND, THIRD and FOURTH, represent the 39 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	87	5.73	8.2	3.0	0.01286
SECOND QUARTILE	87	5.47	7.9	3.2	0.01158
THIRD QUARTILE	86	5.25	7.6	2.9	0.01027
CONTROL LOT 203	78	5.22	7.2	4.0	0.00958
CONTROL LOT 202	80	5.31	7.2	3.1	0.00927
FOURTH QUARTILE	81	4.98	6.9	3.1	0.00835
CONTROL LOT 201	80	4.10	6.0	3.0	0.00584

TREATMENT MEANS	85	5.37	7.7	3.0	0.01085
CONTROL LOT MEANS	79	4.87	6.8	3.4	0.00825

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 D²H, where D = D.B.H. in centimeters and H = total height in meters.

FAMILIES IN QUARTILES: FIRST: 85 82 51 83 44 91 60 50 79 42
SECOND: 72 101 81 78 69 21 45 61 46 52
THIRD: 29 57 55 76 73 66 68 47 117
FOURTH: 18 48 86 38 84 37 75 64 77 96

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

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

THREE YEAR MEASUREMENT

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SPECIES: Pinus tecunumanii (Belize)

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>
85	89	6.02	8.4	3.4	0.01359
82	83	5.88	8.4	3.0	0.01357
51	85	5.77	8.4	2.8	0.01342
83	83	5.84	8.0	2.9	0.01281
44	94	5.69	8.0	3.5	0.01281
91	91	5.77	8.1	2.9	0.01273
60	81	5.54	8.3	3.0	0.01251
50	89	5.58	8.1	3.1	0.01249
79	89	5.60	8.1	3.0	0.01238
42	81	5.61	8.1	2.3	0.01229
72	80	5.68	8.1	2.8	0.01205
101	91	5.63	7.8	3.0	0.01202
81	89	5.73	8.1	2.7	0.01184
78	93	5.47	8.0	3.5	0.01176
69	76	5.35	7.7	3.0	0.01165
21	88	5.02	7.5	3.4	0.01144
45	93	5.48	8.0	3.5	0.01143
61	89	5.45	8.0	3.0	0.01141
46	81	5.39	7.8	3.1	0.01117
52	87	5.36	7.9	3.7	0.01099
29	85	5.30	8.0	2.0	0.01092
57	74	5.35	7.4	3.1	0.01075
55	85	5.30	7.7	2.7	0.01062
76	87	5.31	7.6	3.3	0.01057
73	85	5.48	7.6	3.2	0.01049
66	89	5.18	7.8	2.8	0.01025
68	81	5.18	7.6	2.8	0.00999
47	93	5.21	7.5	2.9	0.00971
*203	78	5.22	7.2	4.0	0.00958
117	89	4.99	7.4	3.2	0.00938
*202	80	5.31	7.2	3.1	0.00927
18	85	4.95	7.4	2.7	0.00905
48	85	5.12	7.1	3.2	0.00886
86	78	5.11	6.9	2.6	0.00877
38	85	5.08	7.0	3.0	0.00864
84	83	5.02	6.8	3.4	0.00856

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03-02-02A THREE YEAR MEASUREMENT 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>
37	83	4.98	6.8	3.5	0.00852
75	74	5.11	6.9	2.7	0.00827
64	80	5.23	6.9	4.2	0.00823
77	87	4.93	6.5	2.5	0.00779
*201	80	4.10	6.0	3.0	0.00584
96	63	4.08	5.7	3.4	0.00570

* CONTROL LOTS: 201=Pinus oocarpa Chiquimula, Guatemala
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