

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

FIVE 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.

<u>QUARTILE</u>	<u>PERCENT SURVIVAL</u>	<u>MEAN HEIGHT METERS</u>	<u>MEAN DIAMETER CENTIMETERS</u>	<u>**INDIVIDUAL TREE VOLUME CUBIC METERS</u>
CONTROL LOT 203	94	11.05	17.8	0.111
FIRST QUARTILE	96	10.62	17.7	0.105
SECOND QUARTILE	96	10.53	17.1	0.096
CONTROL LOT 202	100	10.37	16.6	0.092
THIRD QUARTILE	95	10.07	16.6	0.088
FOURTH QUARTILE	97	9.88	15.9	0.080
CONTROL LOT 201	75	8.29	12.8	0.046
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TREATMENT MEANS	96	10.27	16.8	0.092
CONTROL LOT MEANS	90	10.00	15.9	0.085
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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 56 53 31 20 74 19 22 35 54  
 SECOND: 67 23 87 28 102 65 70 33 121 90 36  
 THIRD: 92 103 60 71 93 24 32 63 113 27 115  
 FOURTH: 105 100 25 42 26 109 62 16 34 111 107

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

FIVE YEAR MEASUREMENT

TEST IDENTIFICATION: 03-02-01A

SPECIES: Pinus tecunumanii (Belize)

COMPANY: Carton de Colombia

<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>
41	53	100	10.50	18.6	0.112
*203	50	94	11.05	17.8	0.111
98	36	86	10.82	18.3	0.110
56	50	96	10.52	18.0	0.109
53	51	96	10.45	18.2	0.108
31	52	98	10.56	18.0	0.105
20	32	100	10.84	17.4	0.104
74	54	94	10.40	17.4	0.102
19	49	94	10.55	17.5	0.102
22	54	100	10.90	17.2	0.101
35	39	97	10.34	17.3	0.101
54	54	94	10.98	17.3	0.100
67	52	98	10.88	17.1	0.098
23	54	96	10.35	17.2	0.098
87	54	100	10.90	17.0	0.098
28	53	100	10.22	17.4	0.098
102	54	91	10.49	17.9	0.098
65	53	98	10.46	17.2	0.097
70	54	98	10.42	17.3	0.097
33	54	98	10.27	17.3	0.097
121	53	91	10.25	17.0	0.093
90	54	94	11.29	15.9	0.092
*202	53	100	10.37	16.6	0.092
36	32	97	10.19	17.0	0.091
92	53	96	10.67	16.5	0.091
103	54	94	10.43	16.7	0.090
60	54	98	9.79	17.2	0.089
71	54	94	9.82	16.8	0.089
93	52	87	10.63	16.0	0.088
24	53	98	10.13	16.5	0.088
32	33	100	10.00	16.7	0.087
63	54	91	10.02	16.8	0.087
113	38	95	10.07	16.5	0.085
27	54	96	9.71	16.5	0.085
115	54	96	9.61	16.6	0.084
105	53	98	9.99	16.4	0.083
100	53	92	10.18	16.0	0.082

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03-02-01A FIVE YEAR MEASUREMENTS 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>
25	53	96	10.43	15.8	0.081
42	52	100	9.72	16.1	0.081
26	54	98	9.96	15.8	0.081
109	52	98	10.35	15.9	0.080
62	52	98	9.98	16.0	0.080
16	49	84	9.63	15.5	0.078
34	48	100	9.59	16.1	0.078
111	53	96	9.49	15.6	0.078
107	54	100	9.35	15.8	0.075
*201	53	75	8.29	12.8	0.046

\* CONTROL LOTS: 201=Pinus oocarpa Chiquimula, Guatemala  
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 juvenile trees: Volume(cubic meters) = .00003 D<sup>2</sup>H, where  
 D = D.B.H. in centimeters and H = total height in meters.

NOTE: The number of trees was included to indicate the family  
 representation throughout the entire test.