

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

THREE YEAR MEASUREMENT

TEST IDENTIFICATION: 03-11-5A

SPECIES: Pinus tecunumanii (Belize)

COMPANY: Weyerhaeuser

SITE NAME: Morado Nova de Minus, Brasil

ELEVATION (m): 570

LATITUDE: 18°45'S

LONGITUDE: 45°10'W

ANNUAL PRECIPITATION (mm): 1400

DESCRIPTION: There are a total of 44 families represented in this test plus two 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	98	5.86	7.7	2.3	0.01095
SECOND QUARTILE	98	5.65	7.3	2.4	0.00970
CONTROL LOT 202	94	5.69	7.0	2.3	0.00894
THIRD QUARTILE	98	5.42	7.0	2.5	0.00850
FOURTH QUARTILE	98	5.11	6.6	2.4	0.00728
CONTROL LOT 201	94	4.49	5.9	2.0	0.00533

TREATMENT MEANS	98	5.51	7.1	2.4	0.00911
CONTROL LOT MEANS	94	5.09	6.5	2.1	0.00714

CONTROL LOTS: 201=Pinus oocarpa Chiquimula, Guatemala
202=Pinus tecunumanii Mt. Pine Ridge, Belize

** 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: 61 58 75 77 91 56 73 81 42 85 44
SECOND: 22 25 60 18 72 83 57 52 68 82 50
THIRD: 32 43 78 39 59 96 64 97 46 37 87
FOURTH: 49 69 31 80 48 66 38 45 117 55 47

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: Weyerhaeuser

<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>
61	98	6.03	8.0	1.9	0.01193
58	98	5.93	7.9	2.5	0.01156
75	96	5.91	7.7	1.6	0.01129
77	100	5.99	7.6	2.6	0.01110
91	100	5.80	7.8	2.1	0.01104
56	100	5.87	7.6	2.8	0.01093
73	100	5.75	7.6	2.3	0.01081
81	100	5.94	7.5	2.1	0.01065
42	96	5.66	7.6	2.1	0.01051
85	96	5.78	7.5	2.3	0.01043
44	98	5.77	7.4	3.3	0.01020
22	98	5.79	7.5	2.3	0.01017
25	100	5.85	7.3	2.9	0.01016
60	100	5.63	7.5	2.2	0.01008
18	100	5.46	7.4	2.3	0.00993
72	100	5.72	7.2	1.6	0.00986
83	98	5.82	7.2	2.2	0.00975
57	96	5.64	7.2	1.9	0.00953
52	96	5.58	7.3	3.2	0.00945
68	96	5.63	7.2	2.9	0.00935
82	100	5.57	7.2	2.2	0.00930
50	96	5.44	7.3	2.9	0.00908
32	96	5.49	7.2	2.9	0.00908
*202	94	5.69	7.0	2.3	0.00894
43	96	5.41	7.0	2.7	0.00875
78	96	5.56	7.0	3.3	0.00863
39	98	5.55	7.0	1.8	0.00859
59	100	5.16	7.2	1.8	0.00859
96	100	5.39	7.0	2.4	0.00853
64	94	5.44	6.9	2.9	0.00838
97	98	5.59	6.8	1.8	0.00824
46	94	5.34	7.0	2.5	0.00823
37	100	5.44	6.9	2.6	0.00823

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(PAGE 2)

03-11-05A 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>
87	100	5.31	7.0	2.2	0.00821
49	97	5.48	6.9	3.0	0.00814
69	100	5.13	6.5	2.1	0.00793
31	100	5.28	6.6	3.0	0.00785
80	100	4.94	6.5	1.8	0.00731
48	100	5.12	6.6	1.9	0.00729
66	94	5.15	6.6	1.9	0.00720
38	94	5.20	6.6	3.1	0.00717
45	98	5.09	6.7	2.6	0.00716
117	98	4.98	6.6	2.4	0.00709
55	94	4.89	6.6	1.9	0.00704
47	98	4.96	5.9	2.3	0.00579
*201	94	4.49	5.9	2.0	0.00533

* CONTROL LOTS: 201=Pinus oocarpa Chiquimula, Guatemala
202=Pinus tecunumanii Mt. Pine Ridge, Belize

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