

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

THREE YEAR MEASUREMENT

TEST IDENTIFICATION: 02-11-01A

SPECIES: Pinus oocarpa (Guatemala-1981)

COMPANY: Weyerhaeuser

SITE NAME: Morado Nova de Minas, Brasil

ELEVATION (m): 570

LATITUDE: 18°45'S

LONGITUDE: 45°10'W

ANNUAL PRECIPITATION (mm): 1400

<u>PROVENANCE</u>	<u>PERCENT SURVIVAL</u>	<u>MEAN HEIGHT METERS</u>	<u>MEAN DIAMETER CENTIMETERS</u>	<u>MEAN STEM STRAIGHTNESS</u>	<u>**VOLUME CUBIC METERS/ha</u>
*Mt. Pine Ridge, Bel.	100	5.73	7.7	2.7	12.4
La Union, Gua.	98	4.83	6.6	2.7	7.8
San Jose, Gua.	98	4.69	6.5	2.8	7.3
*Chiquimula, Gua.	98	4.48	6.4	2.2	6.9
San Lorenzo, Gua.	96	4.91	6.2	3.5	6.7
La Mina, Gua.	97	4.46	6.1	3.1	6.3
Tapalapa, Gua.	97	4.47	6.0	3.1	6.1
Selva Pinares, Gua.	98	4.40	5.9	2.7	5.5
La Lagunilla, Gua.	98	4.25	5.3	2.8	4.7

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

** Tree volume with bark was calculated using a formula for
juvenile trees: Volume(cubic meters) = .00003 D² 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

PROVENANCE/FAMILIES

<u>PROVENANCE</u>	<u>FAMILIES</u>
La Lagunilla, Gua.	9 10
Selva Pinares, Gua.	20
La Mina, Gua.	23 25 26 27 28 31
San Jose, Gua.	34 35 36 40 41 42
La Union, Gua.	43 44 441 45 46
San Lorenzo, Gua.	48 49 50 51 53 54 55 56
Tapalapa, Gua.	57 58 59 60 62 63 64 66

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

THREE YEAR MEASUREMENT

TEST IDENTIFICATION: 02-11-01A

SPECIES: Pinus oocarpa (Guatemala-1981)

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>
*202	100	5.73	7.7	2.7	0.01120
43	96	4.93	7.1	3.0	0.00820
44	98	4.97	6.9	2.4	0.00789
41	98	5.06	6.8	2.7	0.00782
66	94	4.92	6.7	3.4	0.00748
46	98	4.75	6.9	2.3	0.00747
23	100	4.76	6.9	2.9	0.00734
441	98	5.21	6.5	2.5	0.00732
54	96	5.21	6.4	3.7	0.00714
42	96	4.73	6.8	2.6	0.00703
55	98	5.11	6.4	2.8	0.00701
53	91	5.29	6.4	4.3	0.00686
34	96	4.75	6.7	3.0	0.00678
35	100	4.84	6.4	2.7	0.00668
36	98	4.41	6.6	2.7	0.00668
28	100	4.66	6.5	3.4	0.00663
51	98	4.79	6.3	3.7	0.00656
27	91	4.46	6.0	3.1	0.00640
*201	98	4.48	6.4	2.2	0.00634
49	98	4.92	6.1	3.5	0.00614
64	94	4.39	5.8	3.0	0.00591
58	98	4.51	6.2	3.1	0.00586
50	93	4.98	5.9	3.8	0.00572
26	96	4.53	6.1	3.2	0.00572
62	96	4.65	6.1	3.1	0.00568
63	98	4.48	6.1	3.4	0.00565
48	100	4.52	6.1	3.2	0.00561
56	93	4.50	5.9	3.1	0.00551
40	100	4.39	5.7	2.9	0.00539
57	100	4.56	5.9	2.5	0.00532
31	98	4.26	6.0	3.1	0.00529
10	98	4.51	5.7	2.7	0.00506

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02-11-01A 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>
20	98	4.40	5.9	2.7	0.00501
45	98	4.31	5.5	3.3	0.00493
59	98	4.16	5.8	2.7	0.00484
60	98	4.08	5.7	3.3	0.00455
25	96	4.07	5.2	2.8	0.00395
9	98	4.00	4.9	2.9	0.00352

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

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juvenile trees: Volume(cubic meters) = .00003 D²H, where
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