

C A M C O R E

ANOVA AND MULTIPLE COMPARISONS FOR PROVENANCE AND FAMILY HEIGHT

THREE YEAR MEASUREMENTS

TEST IDENTIFICATION: 05-06-05B
 SPECIES: Pinus caribaea Dry
 COMPANY: EMBRAPA/PNPF
 SITE NAME: CPAC
 LATITUDE: 15° 32' S
 LONGITUDE: 47° 39' W
 ELEVATION: 1190 m
 ANNUAL PRECIPITATION: 1546 mm

DATE PLANTED: November 1984
 DATE MEASURED: December 1987

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

<u>Provenance</u>	<u># Trees</u>	<u>% Survival</u>	Mean Height (m)	Mean D.B.H. (cm)	Mean Volume (m ³ /ha)
Control 407	51	94	5.36	9.5	16.1
Poptun, Guatemala	819	95	5.18	9.0	14.0
Control 80	54	100	5.15	8.6	13.8
Gualjoco, Honduras	421	97	5.03	8.7	13.0
Control 79	51	94	4.76	8.5	12.1
Los Limones, Honduras	408	94	4.86	8.3	11.7
Santa Cruz, Honduras	431	100	4.71	8.2	11.4
El Provenir, Honduras	360	95	4.42	7.9	9.7
Control 81	49	91	4.57	7.8	9.4
Control 78	48	89	4.74	7.8	9.4

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

<u>Family</u>	<u># Trees</u>	<u>% Survival</u>	<u>Mean Height (m)</u>	<u>Mean D.B.H. (cm)</u>	<u>Mean Volume (m³)</u>
27	51	94	5.91	9.8	0.01778
185	54	100	5.56	9.6	0.01639
17	53	98	5.41	9.8	0.01635
261	50	93	5.58	9.4	0.01606
*407	51	94	5.36	9.5	0.01534
55	49	91	5.55	9.2	0.01461
71	50	93	5.28	9.5	0.01451
287	53	98	5.46	9.2	0.01425
49	53	98	5.50	9.0	0.01403
41	50	93	5.35	9.1	0.01377
69	48	89	5.21	9.2	0.01368
320	54	100	5.32	8.9	0.01361
33	53	98	5.00	9.3	0.01360
66	52	96	5.13	9.0	0.01321
293	51	94	5.33	9.0	0.01321
257	53	98	5.23	8.8	0.01319
288	53	98	5.22	8.9	0.01308
242	53	98	4.85	9.1	0.01283
30	51	94	5.04	8.9	0.01266
*80	54	100	5.15	8.6	0.01237
199	54	100	4.95	8.9	0.01225
31	49	91	4.99	8.8	0.01208
34	52	96	4.89	8.8	0.01198
35	50	93	5.10	8.5	0.01196
46	52	96	4.89	8.7	0.01185
132	52	96	4.91	8.7	0.01167
311	54	100	4.98	8.6	0.01152
*79	51	94	4.76	8.5	0.01151
282	53	98	4.86	8.5	0.01109
206	54	100	4.74	8.4	0.01081
250	51	94	4.89	8.3	0.01071
45	53	98	4.98	8.3	0.01059
181	53	98	4.77	8.3	0.01055
239	52	96	4.80	8.0	0.01049
161	53	98	4.56	8.4	0.01036
299	53	98	4.64	8.4	0.01028
43	53	98	4.63	8.3	0.01022
140	52	96	4.66	8.1	0.01003
221	54	100	4.85	8.1	0.01002
*78	48	89	4.74	7.8	0.00951

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

<u>Family</u>	<u># Trees</u>	<u>% Survival</u>	<u>Mean Height (m)</u>	<u>Mean D.B.H. (cm)</u>	<u>Mean Volume (m³)</u>
*81	49	91	4.57	7.8	0.00936
278	50	93	4.43	8.1	0.00917
255	51	94	4.75	7.7	0.00912
164	53	98	4.24	7.8	0.00904
177	54	100	4.56	7.8	0.00863
244	49	91	4.32	7.8	0.00860
173	50	93	4.20	7.7	0.00803
258	49	91	4.39	7.4	0.00790
179	54	100	4.16	7.7	0.00776
142	48	89	4.22	7.3	0.00775
137	52	96	4.15	7.3	0.00714
223	54	100	4.07	6.8	0.00613

OVERALL	2439	96	4.90	8.5	0.01159
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The overall values do not include control lots.

NOTE: Tree volume with bark was calculated using a formula for juvenile trees: $\text{Volume (m}^3\text{)} = .00003 D^2 H$, where D = D.B.H. in centimeters and H = total height in meters.

* Control lots: 407 = Local Control, Brasil
 78 = Pinus caribaea La Mosquitia
 79 = Pinus caribaea San Nicolas
 80 = Pinus caribaea San Esteban
 81 = Pinus caribaea Los Limones