

C A M C O R E

ANOVA AND MULTIPLE COMPARISONS FOR FAMILY HEIGHT

THREE YEAR MEASUREMENTS

TEST IDENTIFICATION: 08-02-01A
SPECIES: Abies guatemalensis
COMPANY: Carton de Colombia
SITE NAME: Peñas Negras
LATITUDE: 20° 15' N
LONGITUDE: 71° 39' W
ELEVATION: 2600 m
ANNUAL PRECIPITATION: 2090 mm

DATE PLANTED: December 1986
DATE MEASURED: November 1989

ANALYSIS OF VARIANCE

DEPENDENT VARIABLE: Three Year Height (meters)

<u>SOURCE</u>	<u>DF</u>	<u>SUM OF SQUARES</u>	<u>F</u> <u>VALUE</u>
REP	8	0.90182261	1.04 ns
FAM	30	218.75074945	67.55 **
REP*FAM	213	22.99386002	2.23 **
ERROR	478	23.11779167	
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CORRECTED TOTAL	729	285.76998630	

ns: Not significant

** Significant at $p < .01$

TEST MEAN
0.65 m

C.V. (%)
33.84

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

<u>Family</u>	<u># Trees</u>	<u>% Survival</u>	<u>Mean Height (m)</u>	<u>C.V. (%)</u>
* 999	46	85.19	2.28	29.54
* 996	46	85.19	1.98	28.08
99	33	61.11	0.58	29.69
60	36	66.67	0.54	37.58
92	27	50.00	0.54	26.15
96	18	33.33	0.52	28.75
76	25	46.30	0.51	30.63
56	33	61.11	0.50	37.62
6	24	44.44	0.49	27.09
97	25	46.30	0.49	28.10
19	25	46.30	0.48	23.32
9	22	40.74	0.47	31.43
63	21	38.89	0.47	38.83
67	31	57.41	0.47	37.40
90	33	61.11	0.45	34.69
86	26	48.15	0.45	36.60
10	20	37.04	0.44	35.54
4	26	48.15	0.42	25.29
21	14	25.93	0.41	41.11
26	15	27.78	0.40	24.97
33	16	29.63	0.39	53.65
74	20	37.04	0.39	33.46
68	23	42.59	0.37	41.35
28	11	20.37	0.33	34.54
27	20	37.04	0.32	36.45
5	20	37.04	0.31	46.39
35	18	33.33	0.28	34.50
20	14	25.93	0.28	34.02
31	15	27.78	0.27	34.48
29	13	24.07	0.27	23.18
22	14	25.93	0.24	37.72

OVERALL	730	43.61	0.65	96.34
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The overall mean does not include control lots.

Provenance: Tacana, Guatemala

* Control lots: 996 = Pinus maximinoi, Guatemala
 999 = Pinus patula, South Africa