

C A M C O R E

ANOVA AND MULTIPLE COMPARISONS FOR PROVENANCE AND FAMILY HEIGHT

THREE YEAR MEASUREMENTS

TEST IDENTIFICATION: 05-08-07C
SPECIES: Pinus caribaea - Dry
COMPANY: Jari Florestal
SITE NAME: G126(A) 60-75
LATITUDE: 0° 50' S
LONGITUDE: 53° W
ELEVATION: 50 - 100 m
ANNUAL PRECIPITATION: 1341 - 2260 mm

DATE PLANTED: February 1985
DATE MEASURED: May 1988

ANALYSIS OF VARIANCE

DEPENDENT VARIABLE: Three Year Height (meters)

<u>SOURCE</u>	<u>DF</u>	<u>SUM OF SQUARES</u>	<u>F VALUE</u>
REP	9	31.46417684	1.87 ns
PROV	8	86.31989786	5.76 **
REP*PROV	72	134.88070791	1.20 ns
FAM(PROV)	32	200.02182724	4.02 **
REP*FAM(PROV)	285	443.61494775	1.47 **
ERROR	1928	2046.94533333	
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CORRECTED TOTAL	2334	2976.87892934	

ns: Not significant

** Significant at $p < .01$

TEST MEAN
4.63 m

C.V. (%)
22.25
148

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

WALLER-DUNCAN MULTIPLE COMPARISONS FOR THREE YEAR PROVENANCE HEIGHT
 MEANS WITH THE SAME LETTER ARE NOT SIGNIFICANTLY DIFFERENT.

<u>Waller</u>	<u>Grouping</u>	<u>Mean</u>	<u>N</u>	<u>Provenance</u>	
	A	5.046	57	* San Nicolas	(79)
	A				
	A	5.012	59	* San Esteban	(80)
	A				
B	A	4.998	55	* Control	(PV)
B	A				
B	A	4.779	856	Poptun	
B					
B	D	4.615	60	* La Mosquitia	(78)
	D				
	D	4.571	410	Santa Cruz	
	D				
	D	4.555	53	* Los Limones	(81)
	D				
	D	4.495	381	Los Limones	
	D				
	D	4.355	404	Gualjoco	

* Control lots: 78 = P. oocarpa, La Mosquitia, Honduras
 79 = P. oocarpa, San Nicolas, Honduras
 80 = P. oocarpa, San Esteban, Honduras
 81 = P. oocarpa, Los Limones, Honduras
 PV = Commercial control, CAFMA, Brazil

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

<u>Family</u>	<u>Prov</u>	<u># Trees</u>	<u>% Survival</u>	<u>Mean Height (m)</u>	<u>C.V. (%)</u>	<u>Mean D.B.H. (cm)</u>
54	4	59	98.33	5.49	18.93	8.53
184	5	60	100.00	5.36	22.69	8.03
264	3	58	96.67	5.13	19.69	7.84
50	4	56	93.33	5.10	18.81	7.22
79	*	57	95.00	5.05	20.22	7.30
80	*	59	98.33	5.01	21.99	7.12
999	*	55	91.67	5.00	20.58	7.71
51	4	59	98.33	4.96	21.38	7.65
70	4	58	96.67	4.96	17.15	7.44
207	5	59	98.33	4.94	19.23	7.73
33	4	60	100.00	4.93	19.50	8.00
57	4	59	98.33	4.90	23.02	7.29
59	4	55	91.67	4.85	19.80	7.96
316	2	65	98.48	4.72	21.18	7.25
251	3	55	91.67	4.68	29.31	7.26
205	5	67	93.06	4.68	19.85	6.88
40	4	58	96.67	4.67	23.19	6.92
283	2	60	100.00	4.66	23.53	6.92
78	*	60	100.00	4.62	25.01	6.60
22	4	60	100.00	4.61	18.89	6.84
63	4	58	96.67	4.60	25.01	6.71
4	4	57	95.00	4.57	19.96	7.25
67	4	44	91.67	4.56	17.76	6.91
81	*	53	88.33	4.55	28.64	6.68
72	4	56	93.33	4.52	20.35	7.46
56	4	58	96.67	4.49	22.12	6.69
267	3	48	88.89	4.42	30.68	6.22
62	4	59	98.33	4.42	26.71	6.49
257	3	51	85.00	4.41	32.79	6.44
210	5	59	98.33	4.38	21.91	6.23
305	2	52	86.67	4.34	26.71	6.35
319	2	59	98.33	4.30	25.35	6.14
272	3	57	95.00	4.28	31.24	6.11
260	3	56	93.33	4.27	30.21	6.01
274	3	56	93.33	4.23	24.94	6.18
193	5	55	91.67	4.22	26.42	6.08
214	5	56	93.33	4.22	25.02	5.98
312	2	56	93.33	4.21	23.89	5.91
322	2	56	93.33	4.13	26.10	6.14
215	5	54	90.00	4.09	29.12	5.56
309	2	56	93.33	4.04	22.70	6.15

05-08-07C

	<u># Trees</u>	<u>% Survival</u>	<u>Mean Height (m)</u>	<u>C.V. (%)</u>	<u>Mean D.B.H. (cm)</u>
OVERALL	2051	94.95	4.60	24.46	6.87

The overall mean does not include control lots.

Provenance code: 2 = Gualjoco, Honduras
3 = Los Limones, Honduras
4 = Poptun, Guatemala
5 = Santa Cruz de Yojoa, Honduras