

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

FIVE YEAR MEASUREMENT

TEST IDENTIFICATION: 05-09-01A
 SPECIES: Pinus caribaea Dry
 Guatemala & Honduras 1982
 COMPANY: PIZANO/MONTERREY FORESTAL

SITE NAME: El Amparo
 ELEVATION (m): 100
 LATITUDE: 9°45'N
 LONGITUDE: 74°49'W
 ANNUAL PRECIPITATION (mm): 2300

<u>PROVENANCE</u>	<u>NUMBER OF TREES</u>	<u>PERCENT SURVIVAL</u>	<u>MEAN HEIGHT METERS</u>	<u>MEAN DIAMETER CENTIMETERS</u>	<u>VOLUME CUBIC METERS/ha</u>
*997	35	83	5.87	10.5	20.2
Gualjoco, Hon.	241	84	5.36	9.5	16.9
*79	33	79	5.62	9.5	16.6
Santa Cruz, Hon.	397	92	5.26	9.3	16.3
Poptun, Guat.	700	85	5.46	9.5	16.3
Los Limones, Hon.	375	88	5.37	9.1	15.3
*80	33	79	5.34	9.0	13.9
El Porvenir, Hon.	366	87	5.02	8.6	12.9
*81	39	81	5.09	8.8	12.6
*78	34	81	4.76	8.5	10.9
*999	20	67	5.58	8.6	10.3
*998	47	78	4.74	7.6	9.4

*CONTROL LOTS: 78 = Pinus caribaea La Mosquitia
 79 = Pinus caribaea San Nicolas
 80 = Pinus caribaea San Esteban
 81 = Pinus caribaea Los Limones
 997 = Pinus caribaea var. hondurensis
 998 = Pinus caribaea var. bahamesis
 999 = Pinus oocarpa Zacapa, Guatemala

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.

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

FIVE YEAR MEASUREMENT

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<u>FAMILY</u>	<u>NUMBER OF TREES</u>	<u>PERCENT SURVIVAL</u>	<u>MEAN HEIGHT METERS</u>	<u>MEAN DIAMETER CENTIMETERS</u>	<u>INDIVIDUAL TREE VOLUME CUBIC METER</u>
6	43	74	5.98	10.7	0.02430
301	33	92	6.03	10.3	0.02256
292	32	89	5.77	10.5	0.02220
*997	35	83	5.87	10.5	0.02186
225	51	96	6.35	10.2	0.02186
283	31	86	5.67	9.7	0.02067
3	50	93	5.87	9.9	0.02021
281	29	83	5.39	9.8	0.01966
187	58	98	5.70	10.2	0.01943
28	49	92	5.69	10.1	0.01942
36	46	87	5.79	10.3	0.01938
29	49	92	5.69	10.0	0.01935
185	47	89	5.61	10.0	0.01918
*79	33	79	5.62	9.5	0.01904
26	48	89	5.61	9.7	0.01875
21	46	87	5.60	9.7	0.01818
286	32	91	5.30	9.4	0.01785
4	42	82	5.57	9.8	0.01778
179	48	89	5.17	9.8	0.01762
40	49	92	5.52	9.5	0.01756
224	34	81	5.82	9.3	0.01736
150	46	88	5.60	9.3	0.01732
140	52	96	5.58	9.7	0.01714
227	50	93	5.49	9.4	0.01709
183	46	88	5.25	9.8	0.01684
175	52	98	5.16	9.3	0.01635
*80	31	78	5.35	9.0	0.01620
241	41	77	5.54	9.0	0.01592
31	46	88	5.12	9.2	0.01584
38	39	72	5.57	9.4	0.01583

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<u>FAMILY</u>	<u>NUMBER OF TREES</u>	<u>PERCENT SURVIVAL</u>	<u>MEAN HEIGHT METERS</u>	<u>MEAN DIAMETER CENTIMETERS</u>	<u>INDIVIDUAL TREE VOLUME CUBIC METERS</u>
236	45	87	5.18	9.3	0.01547
17	37	79	5.01	9.1	0.01534
289	26	74	5.11	8.9	0.01500
231	52	96	5.06	8.8	0.01473
294	28	80	5.03	8.9	0.01413
*81	39	81	5.09	8.8	0.01392
*999	20	69	5.58	8.6	0.01388
229	47	89	5.36	8.3	0.01350
11	42	88	5.14	8.6	0.01335
181	51	96	5.22	8.7	0.01326
145	48	91	4.86	8.6	0.01308
23	46	85	5.00	8.6	0.01302
136	45	83	5.17	8.5	0.01292
34	38	73	4.78	8.6	0.01289
244	46	88	4.88	8.8	0.01275
278	26	74	4.62	8.5	0.01262
126	50	93	4.64	8.9	0.01259
190	47	90	4.90	8.5	0.01243
177	41	85	5.03	8.3	0.01233
*78	34	81	4.76	8.5	0.01208
32	10	56	5.03	8.6	0.01192
16	5	100	4.82	8.4	0.01157
233	35	74	4.84	8.1	0.01089
*998	47	78	4.74	7.6	0.01084
142	44	88	4.46	7.4	0.00927
139	39	75	4.19	7.1	0.00763

**OVERALL	2037	87	5.33	9.3	0.01623

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** Overall mean does 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.