

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

THREE YEAR MEASUREMENT

TEST IDENTIFICATION: 13-10-16A
 SPECIES: Pinus tecunumanii var ochoterenae
 Guatemalan and Honduran Populations
 COMPANY: SAFRI

SITE NAME: Wilgeboom
 ELEVATION (m): 960
 LATITUDE:: 24° 58' S
 LONGITUDE: 30° 57' E
 ANNUAL PRECIPITATION (mm): 1235.5

<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>
Control 999	49	91	4.01	5.3	3.9
Control 998	50	93	3.90	5.2	3.7
Control 202	43	80	3.96	5.4	3.4
Control 200	43	80	3.95	5.2	3.3
San Vicente	316	84	3.82	5.1	3.2
La Soledad	143	85	3.75	5.0	3.2
Celaque	191	84	3.76	5.0	3.2
Control 997	43	80	3.74	5.3	3.0
San Jeronimo	305	83	3.78	4.9	2.9
Las Trancas	192	86	3.58	4.7	2.8
San Lorenzo	211	80	3.67	4.9	2.8
KM47	306	81	3.61	4.8	2.6
Control 206	27	75	3.79	4.9	2.5

CONTROL LOTS: 200 = Commercial Control Pinus tecunumanii
 202 = Pinus tecunumanii Mt. Pine Ridge, Belize
 206 = Pinus oocarpa Agudos, Brasil
 997 = Local Control Pinus patula
 998 = Local Control Pinus patula
 999 = Local Control Pinus patula

NOTE: Tree volume with bark was calculated using a formula for juvenile trees: Volume(cubic meters) = .00003 D²H, where D = D.B.H. in centimeters and H = total height in meters.

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

THREE YEAR MEASUREMENT

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ANNUAL PRECIPITATION (mm): 1235.5

<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>
273	26	87	4.13	5.8	0.00469
233	46	85	4.16	5.7	0.00451
153	46	85	4.19	5.3	0.00415
272	24	100	3.92	5.3	0.00412
22	46	85	4.06	5.5	0.00404
188	47	87	3.99	5.4	0.00403
105	27	64	3.87	5.4	0.00399
229	4	67	3.95	5.2	0.00395
55	22	92	3.73	5.2	0.00393
*202	43	80	3.96	5.4	0.00389
187	42	78	3.94	5.3	0.00383
*999	49	91	4.01	5.3	0.00382
*200	43	80	3.95	5.2	0.00371
72	46	85	3.65	5.4	0.00368
*998	50	93	3.90	5.2	0.00364
35	40	74	3.94	5.1	0.00353
157	5	83	3.78	5.0	0.00351
181	44	81	3.78	5.1	0.00343
277	18	75	3.47	5.1	0.00342
*997	43	80	3.74	5.3	0.00341
190	47	87	3.92	5.0	0.00340
175	48	89	3.88	5.0	0.00337
186	49	91	3.77	5.2	0.00335
30	29	69	3.82	5.1	0.00331
263	47	87	3.79	5.0	0.00326
25	50	93	3.79	5.0	0.00325
280	6	100	4.57	4.7	0.00321
131	47	87	3.74	5.0	0.00321
28	48	89	3.84	4.9	0.00319
134	26	87	3.45	4.9	0.00313

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13-10-16A CONTINUED

<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>
66	16	89	3.46	5.1	0.00313
36	9	75	3.90	4.8	0.00309
82	46	85	3.67	4.9	0.00308
235	50	93	3.66	4.8	0.00307
2	40	74	3.79	4.8	0.00304
172	41	76	3.60	4.9	0.00304
173	47	87	3.71	4.9	0.00304
*206	27	75	3.79	4.9	0.00303
111	47	87	3.63	4.9	0.00300
180	47	87	3.59	4.8	0.00291
147	11	92	3.74	4.9	0.00286
265	28	78	3.60	4.5	0.00284
281	41	85	3.57	4.6	0.00282
29	48	89	3.67	4.7	0.00277
7	40	74	3.72	4.6	0.00267
52	40	83	3.38	4.6	0.00257
171	40	74	3.42	4.5	0.00251
106	11	92	3.81	4.5	0.00244
231	28	78	3.42	4.4	0.00231
61	3	50	3.53	4.3	0.00228
135	12	67	3.35	4.5	0.00216
178	39	72	3.19	4.1	0.00207
26	35	83	3.25	4.1	0.00203
239	47	87	3.22	4.1	0.00195
268	1	17	2.40	5.0	0.00180
242	11	92	2.92	3.3	0.00144
237	6	100	3.05	3.8	0.00137

**OVERALL	1664	83	3.72	4.9	0.00320

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 999 = Local Control Pinus patula

** Overall mean does not include control lots.

NOTE: 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.