

標準木

女滝第1号11ヶ生長測定試験池 NO.1.

No. _____

NO	D ₁	D ₂	DM	NO	D ₁	D ₂	DM
2	22.0	21.0	21.50	96	25.6	24.3	24.95
3	22.8	22.5	22.65	98	25.5	22.8	24.15
6	22.2	22.0	22.10	101	20.5	19.4	19.95
9	19.4	19.6	19.50	105	19.2	18.0	18.60
11	27.2	25.2	26.20	107	25.5	21.4	23.45
16	19.4	18.2	18.80	111	22.5	21.2	21.85
19	22.5	22.3	22.40	113	19.7	20.0	19.85
22	24.2	21.5	22.85	116	25.3	25.3	25.30
25	25.3	23.2	24.25	117	23.1	23.4	23.25
34	22.2	22.1	22.15	121	24.0	24.6	24.30
38	25.0	24.0	24.50	127	21.3	21.2	21.25
40	25.8	23.0	24.40	134	29.4	28.8	29.10
42	21.2	18.5	19.85	139	25.6	25.4	25.50
45	17.5	17.2	27.35	141	23.0	22.2	22.60
46	19.3	18.5	18.90	145	20.8	21.6	21.20
48	23.8	21.6	22.70	147	23.0	22.5	22.75
51	21.1	19.7	20.40	150	30.3	29.5	29.90
56	23.6	21.0	22.30	153	21.0	20.0	20.50
60	27.8	26.4	27.10	157	31.0	33.0	32.00
62	27.0	25.2	26.10	159	21.2	20.4	20.80
68	27.0	27.4	27.20	164	25.5	25.2	25.35
69	21.4	23.8	22.60	167	22.6	24.6	23.60
70	20.4	19.2	19.60	171	22.5	23.0	22.75
74	20.6	21.0	20.80	173	16.3	17.3	16.80
75	19.2	20.5	19.85	176	28.1	28.0	28.05
80	30.0	31.2	30.60	179	17.0	18.7	17.60
82	19.7	18.2	18.85	182	21.3	22.9	22.10
84	25.5	27.0	26.25	185	16.6	18.2	17.40
87	18.0	19.0	18.50	182	36.3	33.0	34.65
88	20.7	21.8	21.25				
90	20.4	21.4	20.90				
93	26.0	27.2	26.60				

女滝 38 号内 11 号 第 1 号 標準木

No. _____

NO	仰角 (+)	俯角 (-)	斜距離	h	DM
3	51.00	-18.00	10.70	17.08	22.65
16	20.00	-11.00	24.00	14.36	18.80
22	32.00	-16.00	19.90	18.65	22.85
38	43.00	-22.00	12.70	16.95	24.50
51					
60	30.00	-22.00	17.40	17.04	27.10
68	39.00	-24.00	13.50	16.69	27.20
75	34.00	-25.36	14.50	16.28	19.85
87	36.00	-27.00	13.60	16.19	18.50
93	22.00	-22.00	21.25	17.13	26.60
111	14.00	-22.00	26.30	17.14	21.85
117	25.00	-24.00	19.30	17.28	23.25
139	23.00	-25.00	20.50	17.76	25.50
145	15.00	-24.00	24.10	16.91	21.20
150	13.00	-23.00	29.30	18.88	29.90
173	10.00	-24.00	25.70	15.80	16.80
113	19.00	-23.00	22.30	16.99	19.85

樹高計算表

場所 台灣初級中學 測定日 25 12 15

No	斜距離 a	俯角 α	仰角 β	H=A(Cos α tan β +sin α) 計算					胸高 m	全長 m	樹高	直徑	生長量
				sin α	cos α	tan β	cos α tan β +sin α	H _m					
3	10.70	-18°00'	51°00'	0.3090	0.9511	1.235	1.17460	14.8369	15.8715	17.0845	17.08	22.7	+1.74
16	24.00	-11°00'	20°00'	0.1908	0.9816	0.3640	0.535730	15.4810	13.1549	14.3644	14.36	18.8	+1.01
22	19.90	-16°00'	32°00'	0.2756	0.9613	0.6249	0.60071	10.8763	17.4385	18.6485	18.65	22.9	+3.01
38	12.70	-22°00'	43°00'	0.3746	0.9272	0.9325	0.88461	12.3921	15.7379	16.9479	16.95	22.5	+0.86
60	17.40	-22°00'	30°00'	0.3746	0.9272	0.5774	0.535360	9.9961	15.8333	17.0433	17.04	27.1	+1.33
68	13.50	-24°00'	39°00'	0.4067	0.9135	0.5098	0.73975	11.4645	15.4772	16.6872	16.69	27.2	+1.23
75	14.50	-25°30'	34°00'	0.4305	0.9026	0.6745	0.60880	10.5930	15.0698	16.2798	16.28	19.9	+0.09
87	13.60	-27°00'	36°00'	0.4540	0.8910	0.7265	0.64731	11.0131	14.9778	16.1878	16.19	18.5	+0.76
93	21.25	-22°00'	22°00'	0.3746	0.9272	0.4040	0.37458	0.74918	15.9200	17.1300	17.13	26.6	-3.20
111	26.30	-22°00'	14°00'	0.3746	0.9272	0.2493	0.23115	0.60575	15.9312	17.1412	17.14	21.9	+0.32
117	19.30	-24°00'	25°00'	0.4067	0.9135	0.4663	0.42596	0.83266	16.0703	17.2803	17.28	23.3	+1.05
139	20.50	-25°00'	23°00'	0.4226	0.9063	0.4245	0.38472	0.80732	16.5500	17.7600	17.76	25.5	+1.27
145	24.10	-24°00'	15°00'	0.4067	0.9135	0.2679	0.24472	0.65142	15.6992	16.9092	16.91	21.2	+0.79
150	29.30	-23°00'	13°00'	0.3907	0.9205	0.2309	0.21254	0.60324	17.6749	18.8849	18.88	29.9	-0.32
173	25.70	-24°00'	10°00'	0.4067	0.9135	0.1763	0.16105	0.58775	14.5911	15.8011	15.80	16.8	+0.66
113	22.30	-23°00'	19°00'	0.3907	0.9205	0.2344	0.231692	0.70762	15.7799	16.9899	16.99	19.9	+0.63

林分幹材積計算表

第1号林分

箇所 子港 面積 0.042 調査年月日 45年12月15日

直徑階 CM	本数	胸高断面積 合計 M ²	平均樹高 M	胸高幹形数	幹材積 M ³	備考 N.H
16	1	0.0201	15.18	0.417	0.12723	15.18
17	2	0.0454	15.40	0.417	0.29154	30.80
18	5	0.1272	15.75	0.409	0.81939	78.75
19	5	0.1418	16.10	0.401	0.91547	80.50
20	6	0.1885	16.37	0.401	1.23738	98.22
21	5	0.1732	16.65	0.393	1.13332	83.25
22	12	0.4562	16.93	0.393	3.03532	203.16
23	3	0.1246	17.20	0.385	0.82510	51.60
24	6	0.2714	17.45	0.385	1.82333	104.70
25	3	0.1473	17.65	0.377	0.97881	52.95
26	4	0.2124	17.85	0.377	1.42933	71.40
27	3	0.1718	18.00	0.369	1.14109	54.00
28	1	0.0616	18.15	0.369	0.41255	18.15
29	2	0.1321	18.28	0.369	0.89105	36.56
30	1	0.0707	18.40	0.369	0.48002	18.40
31						
32	1	0.0804	18.60	0.361	0.53985	18.60
33						
34	1	0.0908	18.80	0.361	0.61624	18.80
計	61	2.5155			16.69702	1035.02
		0.04123	16.967			
1.379	H ₁ 当り	本数	胸高断面積 M ²	平均樹高 M	平均 胸高直徑 cm	幹材積 M ³
					22.9	22606

測定期年度	林齢	1916	1921	1925	1930	1935	1940	1950	1957	1960	1965	1970
No.	林齢	12	17	21	26	31	36	46	53	56	61	66
31	7.7	9.6	11.1	11.55	12.15	12.55	16.00					
32	4.8	6.5	11.4	12.15	12.55	16.00						
33	7.1	9.5	11.4	12.15	12.55	16.00						
34	8.4	10.6	12.5	13.55	14.60	16.00		18.70	20.80	20.65	22.20	22.10
35	7.4	11.4	11.0	11.75	11.95	16.00						
36	7.6	9.6	11.0	11.75	11.95	16.00						
37	6.2	7.4	11.0	11.75	11.95	16.00						
38	7.1	9.9	12.4	14.10	15.40	16.65		20.05	23.15	23.15	24.35	24.50
39	5.6	6.4	11.0	11.75	11.95	16.00						
40	8.8	12.0	14.5	16.00	17.10	18.65		20.75	22.45	22.80	24.10	24.40
41	7.4	10.1	12.0	12.75	13.35	14.10						
42	6.8	8.9	10.9	12.50	13.65	14.95		17.90	19.45	19.35	21.15	19.85
43	6.4	8.3	11.0	12.50	13.65	14.95						
44	7.6	10.3	12.0	13.10	14.10	14.85						
45	8.6	11.7	13.2	13.60	14.45	14.85		15.70	16.30	16.30	17.50	17.35
46	7.9	10.5	12.3	12.75	13.55	14.25		15.95	17.25	17.25	19.45	18.90
47	8.9	11.8	14.1	15.00	15.50	16.40		17.90	19.75	20.30	22.10	22.70
48	8.6	11.1	12.9	14.55	15.50	16.75		18.80	19.75	20.30	22.10	22.70
49	8.5	11.1	14.8	15.90	16.70	17.50		19.40	19.75	20.30	22.10	22.70
50	9.6	12.6	14.8	15.90	16.70	17.50		19.40	19.75	20.30	22.10	22.70
51	9.8	12.1	14.0	15.15	15.85	16.80		18.25	19.75	19.70	20.80	20.40
52	7.7	8.6	11.0	12.30	13.35	14.65		17.40	19.05	19.65	21.95	22.30
53	8.4	10.3	11.6	12.80	13.35	14.65		16.25	19.05	19.65	21.95	22.30
54	7.7	9.8	11.7	12.85	14.05	14.65		17.40	19.05	19.65	21.95	22.30
55	5.4	6.7	11.0	12.30	13.35	14.65		16.25	19.05	19.65	21.95	22.30
56	5.8	8.6	11.0	12.30	13.35	14.65		17.40	19.05	19.65	21.95	22.30
57	5.5	6.7	11.0	12.30	13.35	14.65		16.25	19.05	19.65	21.95	22.30
58	6.7	9.2	11.3	12.35	12.70	13.30		14.50	19.05	19.65	21.95	22.30
59	6.4	8.6	11.0	12.30	13.35	14.65		16.25	19.05	19.65	21.95	22.30
60	9.9	13.8	16.4	17.85	19.05	20.40		22.30	24.25	24.50	27.95	27.10

測定年度	1916	1921	1925	1930	1935	1940	1950	1957	1960	1965	1970
林	12	17	21	26	31	36	46	53	56	61	66
No. 61	7.2 CM	8.6 CM	樹伐	樹伐	樹伐	樹伐	樹伐	樹伐	樹伐	樹伐	樹伐
62	9.8	12.8	15.2	16.55	17.30	18.45	21.30	23.60	24.10	25.85	26.10
63	4.5	4.9	樹伐								
64	*7.8	*9.4	*11.0	*11.45	*11.65	*12.05	*12.10	樹伐			
65	7.0	9.2	樹伐								
66	7.4	9.5	11.1	12.00	12.45	13.00	13.80	樹伐			
67	6.9	9.1	11.1	12.40	13.40	14.55	16.10	樹伐			
68	*9.4	*12.5	*15.1	*16.70	*18.20	*19.75	*22.45	*24.95	*25.05	*26.70	*27.20
69	8.4	11.4	13.9	15.00	16.40	18.40	20.70	21.70	21.40	23.35	22.60
70	8.0	10.8	13.2	14.60	15.95	16.90	17.90	19.15	18.75	20.50	19.80
71	6.0	7.7	樹伐								
72	8.0	10.7	樹伐								
73	6.5	8.8	樹伐								
74	6.3	8.7	11.0	12.95	14.70	15.75	18.25	19.20	19.35	20.35	20.80
75	7.0	9.6	11.5	12.70	13.90	15.00	17.25	18.60	*19.15	*19.80	*19.85
76	*7.2	9.6	*11.7	*13.10	13.85	樹伐					
77	6.7	8.6	樹伐								
78	5.4	7.0	8.4	8.95	9.00	樹伐					
79	5.4	7.4	9.8	11.10	11.40	11.75	11.80	樹伐			
80	8.5	11.4	14.4	16.65	18.55	19.90	22.90	24.90	25.75	28.45	30.60
81	6.2	8.4	10.4	11.75	12.65	13.40	14.75	樹伐			
82	7.8	10.8	12.9	14.50	15.85	16.50	17.65	18.85	18.60	19.65	18.95
83	6.5	7.7	樹伐								
84	*7.7	9.8	*12.1	13.90	15.70	17.25	19.75	22.85	23.00	25.35	26.25
85	6.4	8.3	10.0	11.10	11.85	樹伐					
86	6.6	8.2	樹伐								
87	8.0	10.5	12.0	12.85	*13.70	14.40	*15.80	*16.95	*17.20	*18.20	*18.50
88	8.1	11.1	12.9	14.10	15.30	16.05	18.20	20.05	20.00	21.00	21.25
89	7.0	9.8	樹伐								
90	8.6	10.5	11.9	12.95	13.85	15.00	17.70	18.85	18.80	20.50	20.90

测定年度

林齡

No.	林齡	12	17	21	26	31	36	46	53	56	61	66
91	"	9.2 CM	12.1 CM	14.1 CM	15.10 CM	16.20 CM	16.85 CM	18.60 gm	20.85 CM	23.85 CM	25.99 CM	26.60 CM
92	"	* 8.4	* 11.6	* 13.6	* 14.90	15.60	16.85	18.60 南伐	* 20.85	* 23.10	* 23.85	* 25.99
93	"	8.9	11.7	14.5	15.70	16.95	* 18.50	* 20.85	* 23.10	* 23.85	* 25.99	* 26.60
94	"	9.2	12.0	14.2	15.30	16.20	17.10	18.80 南伐				
95	"	* 9.1	* 11.5	* 13.0	* 13.40	* 14.00	南伐					
96	"	9.2	12.4	15.2	16.15	17.45	18.75	20.75	22.15	22.70	24.10	24.95
97	"	8.6	10.6	南伐								
98	"	9.1	12.3	14.7	16.40	17.15	18.40	20.75	22.65	22.70	23.85	24.15
99	"	7.3	9.5	南伐								
100	"	4.0	4.2	南伐								
101	"	8.8	11.1	13.1	13.95	14.45	15.65	17.45	18.70	19.75	20.00	19.95
102	"	8.4	10.5	12.1	12.95	14.00	南伐					
103	"	* 8.0	* 9.8	* 11.5	* 12.45	* 13.00	南伐					
104	"	8.4	10.6	南伐								
105	"	8.7	10.2	11.8	12.65	13.20	14.40	16.35	17.70	18.25	18.75	18.60
106	"	5.6	5.6	南伐								
107	"	10.8	13.3	15.8	17.20	17.75	18.75	21.10	22.65	22.50	24.00	23.45
108	"	9.2	10.9	南伐								
109	"	9.4	11.5	14.0	14.25	14.65	南伐					
110	"	6.1	8.8	南伐								
111	"	10.2	13.3	15.6	17.05	18.30	19.00	20.70	21.85	* 21.05	* 22.35	* 21.85
112	"	5.5	6.1	南伐								
113	"	8.5	11.1	13.2	14.45	15.00	* 16.00					
114	"	6.4	7.9	南伐								
115	"	8.0	9.7	南伐								
116	"	10.2	13.0	14.9	16.10	17.35	18.80	20.50	23.00	23.40	24.25	25.30
117	"	8.1	10.8	12.9	14.10	15.30	* 16.40	* 19.00	* 20.50	* 20.85	* 22.50	* 23.25
118	"	5.4	7.2	南伐								
119	"	6.7	8.0	南伐								
120	"	6.6	8.2	9.2	9.80	10.30	南伐					

測定期年度	1916	1921	1925	1930	1935	1940	1950	1957	1960	1965	1970
林 齡	12	17	21	26	31	36	46	53	56	61	66
No. 121	8.1 ^{Cm}	10.7 ^{Cm}	12.9 ^{Cm}	14.4 ^{Cm}	15.6 ^{Cm}	17.2 ^{Cm}	19.6 ^{Cm}	21.6 ^{Cm}	22.0 ^{Cm}	23.7 ^{Cm}	24.3 ^{Cm}
122	* 7.3	* 9.7	* 11.4	* 12.50	* 12.75	* 13.35	* 14.00	筒伐			
123	7.9	10.5	筒伐								
124	6.6	8.6	10.4	11.65	12.60	13.50	15.20	筒伐			
125	7.7	9.8	筒伐								
126	7.0	9.0	10.8	11.60	12.35	筒伐					
127	8.5	11.1	13.6	15.05	15.95	16.90	18.60	19.45	19.40	20.85	21.25
128	7.0	9.5	11.7	13.25	14.15	15.10	17.15	筒伐			
129	5.2	6.8	筒伐								
130	3.5	4.7	筒伐								
131	5.6	7.7	9.8	11.15	12.30	筒伐					
132	5.4	7.2	筒伐								
133	* 7.3	* 10.0	* 12.3	* 13.35	* 13.80	筒伐					
134	7.3	9.9	12.4	14.35	16.10	17.85	22.25	24.65	25.50	28.20	29.10
135	6.4	8.4	筒伐								
136	* 6.3	* 8.7	* 10.5	* 11.65	* 12.10	* 12.30	* 13.20	筒伐			
137	7.8	10.4	12.3	13.40	14.30	筒伐					
138	8.6	11.2	13.6	14.55	15.50	筒伐					
139	8.8	11.4	13.0	15.05	16.30	17.60	20.35	22.20	* 22.40	* 24.40	* 25.50
140	7.3	9.3	筒伐								
141	9.2	11.8	14.1	15.75	16.60	17.85	19.85	21.30	21.55	22.45	22.60
142	8.1	10.2	11.7	12.65	13.15	筒伐					
143	8.3	10.8	筒伐								
144	8.4	10.2	11.8	12.50	13.10	筒伐					
145	* 9.5	* 11.7	* 13.6	* 14.70	* 15.70	16.85	* 18.80	* 19.85	* 20.35	* 21.05	* 21.20
146	7.7	8.6	筒伐								
147	9.1	11.5	13.9	15.60	16.65	17.75	19.60	21.00	21.30	22.20	22.75
148	8.4	10.1	筒伐								
149	8.3	9.5	筒伐								
150	9.8	12.9	15.2	16.70	17.95	19.85	23.50	25.95	* 27.00	* 28.70	* 29.90

測定年月	1916.3	1921.3	1925.7	1930.5	1935.6	1940.	1950.5	1957.12	1960.12	1965.11	1970.12
林	12	17	21	26	31	36	46	53	56	61	66
No. 11	6.15 m	m	19.26 m	m	m	m	m	m	m	m	m
15	5.70		8.20					南伐			
21	5.15		南伐								
28	5.06	6.33	6.90	8.18	8.38	南伐					
51	6.42		9.90	9.71	10.80	10.77	12.42				
64	5.67	6.71	8.13	8.73	9.76	9.19	11.30	南伐	13.22	14.42	
68	5.79	6.95	8.89	9.26	10.68	11.13	13.05	14.68	14.99	15.46	16.69
76	5.12		7.79	8.88		南伐					
84	5.09		8.07								
92	5.88	7.08	8.78	10.05				南伐			
95	6.58	8.18	8.93	9.89	10.74	南伐					
103	5.76	6.48	7.80	8.75	9.35	南伐					
122	5.70	6.59	7.99	8.82	10.24	11.08	12.75	南伐			
133	5.00	6.33	6.97	8.54	9.92	南伐					
136	5.21	6.48	7.23	8.90	10.69	9.99	12.23	南伐			
145	6.15	7.53	9.28	9.89	11.16		14.00	14.54	15.27	16.12	16.91
156	7.23	8.45	10.05	10.41	11.31	南伐					
163	5.36		南伐								
172	5.21	6.45	8.41	9.49	11.11	10.68	13.17	南伐			
181	5.61	7.36	6.25	10.11	10.90	11.51	14.35	南伐			
87					10.27						
3						10.60	13.10	14.08	14.78	15.43	16.19
22						11.26	12.77	14.99	14.83	15.34	17.08
38						11.60	12.88	14.01	14.64	15.55	18.65
47						10.55	13.90	15.77	15.06	16.09	16.95
93						12.12	12.38	南伐			
113						11.66	14.00	15.14	15.03	20.33	17.13
117						11.42	13.87	16.11		16.36	16.99
173							14.45	14.99	15.30	16.23	17.28
16								14.29	14.26	15.14	15.80
									12.83	13.35	14.36

測定年度
採

1916 1921 1925 1930 1935 1940 1950 1957 1960 1965 1970

No. 60 E/井

75 ,

111 ,

139 ,

150 ,

12

17

21

26

31

36

46

53

56

61

66

15.06^m

14.43

16.10

15.39

16.73

15.71^m

16.19

16.82

16.49

19.20

17.04^m

16.28

17.14

17.76

18.88