

付表-1-1 供試丸太の外観的特性
Appendix 1 Description of log specimens

産地 Locality	No.	番玉 P	元口 Butt end			末口 Top end			材長 L m	
			径 Db cm	年輪数 ARN	年輪幅 ARW mm	径 Db cm	年輪数 ARN	年輪幅 ARW mm		
九戸村 Kunohe	391	1	26.7	36	3.71	24.0	30	4.00	4.10	
	395	1	30.5	39	3.91	23.2	32	3.63	4.16	
	396	1	29.2	38	3.84	23.2	32	3.63	4.10	
	399	1	24.2	38	3.18	22.2	32	3.47	4.10	
	400	1	26.6	37	3.59	23.7	30	3.95	4.10	
	409	1	28.5	38	3.75	23.5	32	3.67	4.10	
	411	1	29.7	38	3.91	26.0	33	3.94	4.11	
	412	1	37.2	40	4.65	28.7	34	4.22	4.16	
	417	1	28.0	35	4.00	24.0	29	4.14	4.11	
	421	1	18.5	35	2.64	16.3	28	2.91	4.11	
		391	2	23.1	30	3.85	22.2	25	4.44	4.09
		395	2	24.5	32	3.83	22.3	25	4.46	4.12
		396	2	23.8	32	3.72	23.7	27	4.39	4.09
		399	2	21.5	32	3.36	20.0	27	3.70	3.10
		400	2	23.6	30	3.93	22.0	24	4.58	4.13
		409	2	23.1	32	3.61	20.9	29	3.60	4.09
		411	2	25.8	33	3.91	23.3	28	4.16	4.10
		412	2	29.0	34	4.26	26.3	29	4.53	4.12
		417	2	23.6	29	4.07	21.0	25	4.20	3.11
		421	2	16.4	28	2.93	15.8	24	3.29	4.12
	391	3	21.6	25	4.32	18.2	19	4.79	4.02	
	395	3	22.6	25	4.52	19.2	19	5.05	4.01	
	396	3	22.7	27	4.20	17.3	22	3.93	4.02	
	399	3	20.0	27	3.70	19.2	21	4.57	4.00	
	400	3	21.6	24	4.50	18.2	19	4.79	4.02	
	409	3	21.0	29	3.62	17.0	21	4.05	4.07	
	411	3	23.1	28	4.13	20.0	23	4.35	4.02	
	412	3	26.5	29	4.57	23.4	23	5.09	4.01	
	417	3	21.5	25	4.30	15.3	18	4.25	4.02	
	421	3	14.5	24	3.02	12.0	17	3.53	4.02	
石鳥谷町 Ishidoriya	501	1	38.5	49	3.93	26.5	38	3.49	4.22	
	502	1	30.0	45	3.33	22.4	34	3.29	4.20	
	503	1	35.2	47	3.74	25.2	37	3.41	4.20	
	504	1	33.9	45	3.77	23.0	38	3.03	4.22	
	505	1	26.7	42	3.18	23.8	36	3.31	4.20	
	506	1	28.8	47	3.06	20.9	36	2.90	4.12	
	507	1	26.4	48	2.75	19.0	35	2.71	4.23	
	508	1	29.6	48	3.08	23.7	39	3.04	4.16	
	509	1	19.4	45	2.16	14.5	39	1.86	3.00	
	510	1	20.2	41	2.46	23.5	34	3.46	4.08	
		501	2	25.6	36	3.56	25.4	30	4.23	3.70
		502	2	22.4	34	3.29	19.0	27	3.52	4.22
		503	2	25.4	36	3.53	21.7	30	3.62	4.18
		504	2	24.1	37	3.26	20.4	28	3.64	4.17
		505	2	23.5	34	3.46	21.0	29	3.62	4.20
		506	2	20.6	36	2.86	19.9	31	3.21	3.80
		507	2	18.7	35	2.67	15.7	30	2.62	4.17
		508	2	23.3	39	2.99	20.6	32	3.22	4.12
		509	2	14.3	38	1.88	13.5	35	1.93	3.00
		510	2	20.6	34	3.03	17.7	29	3.05	3.10

Notes : Db~ARW : See table 1.

付表-1-2 供試丸太の外観的特性

Appendix 1 Description of log specimens

産地 Locality	No.	番玉 P	元口 Butt end			末口 Top end			材長 L m
			径 Db cm	年輪数 ARN	年輪幅 ARW mm	径 Db cm	年輪数 ARN	年輪幅 ARW mm	
石鳥谷町 Ishidoriya	501	3	22.3	27	4.13	17.3	22	3.93	3.13
	502	3	18.2	24	3.79	15.4	20	3.85	3.21
	503	3	21.9	29	3.78	16.2	23	3.52	4.18
	504	3	20.7	28	3.70	16.8	22	3.82	4.22
	505	3	20.3	25	4.06	14.4	23	3.13	3.10
	506	3	19.8	29	3.41	16.0	25	3.20	3.20
	507	3	15.6	29	2.69	11.5	25	2.30	3.22
	508	3	21.0	32	3.28	16.1	23	3.50	4.14
	509	3	13.0	35	1.83	11.3	28	2.02	3.01
	510	3	17.8	28	3.18	15.7	23	3.41	3.13
種市町 Taneichi	601	1	33.2	45	3.69	26.2	39	3.36	4.06
	602	1	31.8	46	3.46	24.5	41	2.99	4.06
	603	1	35.0	46	3.80	26.7	44	3.03	4.06
	604	1	28.4	52	2.73	36.6	45	4.07	4.08
	605	1	33.0	50	3.30	26.5	43	3.08	4.08
	607	1	32.5	52	3.13	26.5	44	3.01	4.06
	609	1	29.0	51	2.84	33.5	39	4.29	4.03
	610	1	27.8	52	2.67	37.3	42	4.44	4.06
	611	1	37.0	51	3.63	29.7	44	3.38	4.05
	613	1	32.0	51	3.14	24.8	42	2.95	4.07
	601	2	26.3	38	3.46	24.1	34	3.54	4.04
	602	2	22.5	43	2.62	25.6	35	3.66	4.06
	603	2	24.4	45	2.71	26.7	38	3.51	4.03
604	2	26.7	43	3.10	27.8	37	3.76	4.03	
605	2	23.7	45	2.63	27.0	31	4.35	4.05	
607	2	25.3	46	2.75	26.2	38	3.45	4.06	
609	2	28.1	40	3.51	25.4	35	3.63	4.05	
610	2	28.4	44	3.23	25.0	36	3.47	4.05	
611	2	27.7	44	3.15	30.0	37	4.05	4.03	
613	2	25.3	42	3.01	23.5	35	3.36	4.05	

Notes : Db~ARW : See table 1.

付表一 2-1 供試丸太と供試材の動的ヤング係数
Appendix 2-1 Modulus of Elasticity of log and timber

産地 Locality	No.	番玉 P	丸太 Log			製材品 (生材) In green condition						製材品 (気乾材) In airdried condition				
			重量 Wg kg	密度 S.G g/cm ³	Efr Efr-L tf/cm ²	幅 B cm	厚 H cm	材重 Wg kg	密度 S.G g/cm ³	Efr Efr-g tf/cm ²	幅 B cm	厚 H cm	材重 Wg kg	密度 S.G g/cm ³	Efr Efr-d tf/cm ²	
九戸村 Kunohe	391	1	196	0.948	104.0	12.28	20.83	70.15	0.669	102.4	11.82	20.23	45.75	0.488	111.0	
	395	1	173	0.773	84.6											
	396	1	222	1.006	88.2	12.25	20.71	68.10	0.655	80.2	11.80	20.59	43.90	0.432	91.1	
	399	1	179	0.886	100.9	12.14	11.63	45.45	0.785	95.0	11.66	11.69	27.30	0.476	104.8	
	400	1	227	0.986	87.6	12.07	20.50	71.75	0.707	80.6	11.66	19.92	43.25	0.429	92.3	
	409	1	209	0.923	91.5											
	411	1	258	0.929	99.9	12.08	21.05	69.40	0.664	92.7	11.75	20.84	48.25	0.463	103.6	
	412	1	323	0.943	92.4	12.22	20.88	61.70	0.581	77.7	11.73	20.54	42.15	0.394	86.1	
	417	1	239	1.010	103.2	11.90	20.89	82.25	0.805	105.0	11.64	20.69	47.85	0.462	114.0	
	421	1	96	0.879	124.1											
		391	2	166	1.008	106.0	12.14	17.80	49.10	0.556	89.2	11.68	17.44	38.00	0.408	97.8
		395	2	148	0.722	67.6										
		396	2	173	0.753	64.8	12.27	18.16	55.65	0.611	81.6	11.85	17.84	36.65	0.404	84.3
		399	2	116	0.935	90.8	12.14	11.98	29.65	0.657	90.5	11.62	11.54	19.80	0.481	103.6
		400	2	191	0.956	75.8	12.06	18.10	69.10	0.767	75.1	11.68	17.76	36.80	0.405	85.7
		409	2	168	0.940	85.5										
		411	2	214	0.961	99.1	12.17	21.21	73.65	0.696	93.5	11.83	20.87	48.45	0.444	101.3
		412	2	262	0.919	84.9	12.31	21.17	63.20	0.589	71.1	11.76	20.64	42.35	0.381	80.8
		417	2	141	1.028	104.5	10.62	15.12	37.15	0.744	92.1	10.26	14.58	21.75	0.427	101.2
		421	2	81	0.788	98.6										
	391	3	126	0.946	86.6	12.08	12.15	37.55	0.637	77.6	11.74	11.73	23.35	0.399	88.7	
	395	3	130	0.879	67.7	12.24	12.24	31.35	0.522	59.7	11.88	11.89	22.00	0.360	66.2	
	396	3	130	1.081	78.2	11.97	11.99	35.45	0.615	64.9	11.76	11.64	21.80	0.363	73.3	
	399	3	124	0.841	81.4	12.18	12.01	42.50	0.727	83.7	11.71	11.68	19.75	0.417	109.1	
	400	3	144	1.081	80.1	12.23	12.54	44.80	0.727	62.1	11.76	11.82	23.00	0.378	77.7	
	409	3	118	1.003	78.4	12.35	12.27	37.05	0.601	65.0	11.90	11.81	24.50	0.395	78.2	
	411	3	171	1.166	101.1	12.06	12.06	44.00	0.753	80.4	11.64	11.69	25.55	0.453	92.3	
	412	3	214	0.975	78.4	11.89	18.79	58.95	0.658	72.6	11.55	18.79	35.70	0.387	76.9	
	417	3	128	1.360	113.9	12.15	11.75	45.15	0.787	89.4	11.96	11.54	23.55	0.395	94.1	
	421	3	61	1.054	119.7	9.00	9.01	15.25	0.468	106.5	8.64	8.75	11.65	0.433	103.6	
石鳥谷町 Ishidoriya	501	1	297	0.848	93.8	12.71	21.73	84.00	0.721	108.5	12.23	21.35	55.95	0.527	121.7	
	503	1	300	0.997	101.0	12.83	21.71	93.90	0.794	103.3	12.27	21.25	55.10	0.503	118.0	
	504	1	281	1.047	88.0	12.65	21.65	100.30	0.868	101.0	12.25	21.19	55.25	0.005	106.9	
	505	1	232	1.103	140.1	12.60	21.74	88.40	0.768	124.8	12.22	21.33	64.75	0.606	138.3	
	506	1	198	0.991	96.5	12.81	18.72	76.80	0.778	111.5	12.19	18.25	50.10	0.518	127.8	
	507	1	159	0.929	90.4	11.12	15.68	45.65	0.619	155.3	10.82	15.46	26.65	0.547	119.5	
	508	1	235	1.013	129.2	12.75	21.37	97.75	0.862	134.6	12.32	20.73	63.15	0.579	151.0	
		501	2	187	0.990	107.1	12.63	18.76	59.90	0.683	89.8	12.27	18.29	39.05	0.473	99.8
		503	2	184	1.011	118.2	12.81	18.80	66.80	0.664	95.8	12.26	18.30	43.25	0.460	107.0
		504	2	183	1.129	103.8	12.48	18.74	78.95	0.809	94.2	12.25	18.26	43.75	0.005	98.9
		505	2	178	1.090	119.4	12.75	18.28	74.00	0.756	105.3	12.31	17.84	50.60	0.541	115.1
		506	2	125	1.021	121.9	11.24	15.66	38.15	0.570	127.2	10.83	15.13	26.15	0.538	118.6
		507	2	98	1.011	103.7	12.81	12.59	37.05	0.551	97.7	12.52	12.43	21.15	0.455	104.6
		508	2	168	1.078	141.3	12.74	18.74	76.40	0.777	126.6	12.34	18.29	52.05	0.552	137.6
		501	3	106	1.100	99.2	11.15	11.13	22.00	0.567	72.3	10.97	10.88	16.85	0.443	83.7
		503	3	128	1.074	104.9	11.24	15.65	37.05	0.504	125.0	10.92	15.66	21.40	0.403	96.1
		504	3	135	1.159	86.2	11.10	15.62	45.35	0.620	106.0	10.85	15.51	22.70	0.434	82.5
		505	3	90	1.228	113.3	11.09	11.07	21.15	0.556	79.8	10.91	10.84	18.90	0.509	109.6
		506	3	84	1.043	102.6	11.13	11.16	24.10	0.607	92.8	10.89	10.89	18.30	0.509	101.3
		507	3	52	1.120	89.7	8.01	8.14	9.90	0.471	75.4	7.8	7.94	8.80	0.426	88.1
	508	3	120	1.073	123.1	11.05	15.68	44.65	0.622	154.1	10.72	15.34	26.35	0.507	124.8	

Notes : Wg-L~Efr-d : See table 5 and 6.

付表-2-2 供試丸太と供試材の動的ヤング係数
Appendix 2-2 Modulus of Elasticity of log and timber

産地 Locality	No.	番玉 P	丸太 Log			製材品 (生材) In green condition					製材品 (気乾材) In airdried condition				
			重量 Wg kg	密度 S.G g/cm ³	Efr Efr-L tf/cm ²	幅 B cm	厚 H cm	材重 Wg kg	密度 S.G g/cm ³	Efr Efr-g tf/cm ²	幅 B cm	厚 H cm	材重 Wg kg	密度 S.G g/cm ³	Efr Efr-d tf/cm ²
種市町 Taneichi	601	1	270	0.960	122.2	11.98	23.46	96.80	0.848	98.3	11.64	22.95	51.00	0.474	106.2
	602	1	216	0.856	124.2	12.05	21.06	75.00	0.729	92.6	11.55	20.54	48.45	0.514	105.7
	603	1	294	0.969	132.0	12.02	24.05	87.80	0.748	97.5	11.41	23.38	54.20	0.485	107.1
	604	1	317	0.937	126.0	12.53	25.62	106.90	0.816	102.5	11.47	25.01	60.70	0.486	116.2
	605	1	262	0.924	147.6	11.98	24.11	81.30	0.690	101.4	11.30	23.56	58.55	0.491	114.9
	607	1	295	1.063	164.8	11.95	23.97	88.80	0.764	108.8	11.47	23.36	57.55	0.502	121.8
	609	1	280	0.906	129.8	12.02	24.07	95.75	0.821	103.0	11.46	23.51	55.80	0.473	112.6
	610	1	291	0.861	128.0	11.99	24.01	91.65	0.784	99.9	11.50	23.53	52.85	0.441	110.6
	611	1	326	0.921	154.2	11.89	24.06	91.00	0.785	116.1	11.57	23.46	56.45	0.505	123.6
	613	1	240	1.061	158.7	12.03	21.08	76.75	0.744	113.4	11.50	20.66	48.80	0.466	122.8
	601	2	216	1.072	144.6	12.07	21.11	86.35	0.838	87.2	11.57	20.51	43.20	0.415	97.3
	602	2	176	0.954	130.0	10.54	15.07	40.70	0.631	71.4	10.19	14.71	27.20	0.427	84.6
	603	2	214	1.037	158.0	10.52	14.98	41.60	0.656	87.9	10.09	14.63	26.60	0.395	99.6
604	2	240	1.020	149.6	12.07	24.07	92.75	0.791	92.7	11.59	23.60	52.00	0.460	103.9	
605	2	209	1.024	160.8	11.98	21.04	70.00	0.686	90.8	11.53	20.61	49.65	0.446	100.5	
607	2	234	1.107	175.2	11.98	24.07	91.80	0.784	97.6	11.60	23.16	55.10	0.481	110.3	
609	2	218	0.958	138.6	11.95	21.10	86.15	0.844	97.3	11.46	20.54	47.45	0.491	108.1	
610	2	221	0.975	132.1	12.05	21.02	76.95	0.750	90.7	11.57	20.49	45.65	0.429	99.7	
611	2	265	1.007	169.8	11.85	24.09	83.90	0.731	104.4	11.33	23.61	53.70	0.461	118.6	
613	2	198	0.988	143.0	11.96	21.10	79.55	0.778	98.6	11.54	20.63	45.95	0.442	107.2	

Notes : Wg-L~Efr-d : See table 5 and 6.

付表-3-1 供試材の曲げ及び縦圧縮試験結果

Appendix 3-1 Bending and compressive characteristics of pruned timber

産地 Locality	No.	番玉 P	MC %	S.G g/cm ³	ARW mm	MOE tf/cm ²	EL tf/cm ²	SPL kf/cm ²	MOR kf/cm ²	CS-F kf/cm ²	S.G-F g/cm ³	CS-C kf/cm ²	S.G-C g/cm ³	
九戸村 Kunohe	391	1	13.9	0.488	4.6	106.6	106.6	389	536	389	0.462	456	0.447	
	396	1	12.5	0.432	4.3	83.6	84.6	274	484	341	0.447	390	0.435	
	399	1	13.3	0.476	4.2	102.5	103.2	310	490	414	0.475	419	0.475	
	400	1	14.1	0.429	5.0	84.4	82.8	266	487					
	411	1	13.6	0.463	5.4	109.6	109.6	312	428	394	0.461	391	0.461	
	412	1	13.4	0.394	6.1	88.8	75.4	201	274	334	0.420	359	0.406	
	417	1	14.2	0.462	4.7	111.7	103.0	422	576	376	0.491	451	0.482	
	391	2	13.6	0.408	5.5					362	0.409	408	0.411	
	396	2	13.5	0.404	4.3	85.5	92.1	198	220	314	0.436	351	0.407	
	399	2	12.7	0.481	5.9	92.8	91.4	192	250	328	0.432	392	0.435	
	400	2	13.2	0.405	6.3	86.7	80.7	285	340	347	0.408	355	0.404	
	411	2	13.3	0.444	5.1	99.5	91.3	346	554	316	0.485	383	0.455	
	412	2	13.1	0.381	6.3	82.4	92.3	165	184	310	0.385	337	0.386	
	417	2	12.8	0.427	4.9	95.1	103.4	338	485	387	0.431	416	0.429	
	391	3	12.9	0.399	6.5	79.7	78.0	175	240	377	0.389	377	0.387	
	395	3	12.8	0.360	6.1	59.2	59.2	157	167	327	0.364	337	0.365	
	396	3	12.4	0.363	5.8	67.4	67.0	159	206	254	0.402	302	0.366	
	399	3	12.4	0.417	4.9	101.6	108.5	240	287	328	0.452	389	0.429	
	400	3	16.9	0.378	5.0	71.3	71.3	198	274	353	0.390	361	0.393	
	409	3	12.9	0.395	6.3	72.5	76.6	263	352	332	0.408	300	0.410	
	411	3	12.5	0.453	5.0	84.5	90.5	310	356	395	0.444	441	0.448	
	412	3	13.2	0.387	7.1	69.9	55.4	173	207	272	0.409	289	0.397	
	417	3	13.0	0.395	5.5	82.5	81.6	213	282	349	0.407	359	0.405	
	421	3	12.1	0.433	4.0	93.3	93.5	377	454	392	0.425	386	0.441	
	石鳥谷町 Ishidoriya	501	1	14.4	0.527	4.8	122.6	137.3	375	598	380	0.527	411	0.523
		503	1	15.3	0.503	3.5	113.5	118.5	423	575	389	0.503	357	0.505
		504	1	16.2	0.490	4.0	100.2	105.1	373	575	397	0.490	361	0.491
505		1	16.5	0.606	3.0	130.0		359	645	438	0.606	455	0.589	
506		1	16.3	0.518	2.9	113.6	112.0	403	617	430	0.518	440	0.524	
507		1	14.6	0.547	2.3	108.3	108.7	427	619	419	0.547	399	0.539	
508		1	15.7	0.579	3.6	136.1	134.7	416	660	458	0.579	458	0.566	
501		2	15.6	0.473	3.9	97.4	123.2	275	389	397	0.473	419	0.451	
503		2	15.4	0.460	4.7	103.0	108.9	338	506	388	0.460	426	0.449	
504		2	15.7	0.451	4.2	94.4	93.1	268	324	390	0.451	414	0.450	
505		2	16.0	0.541	4.6	111.4	115.2	251	384	460	0.541	418	0.532	
506		2	15.4	0.538	3.7	114.3	120.3	383	452	467	0.538	470	0.520	
507		2	15.7	0.455	3.5	93.3	97.8	300	432	402	0.455	450	0.456	
508		2	16.6	0.552	4.0	126.3	137.4	480	656	417	0.552	480	0.539	
501		3	14.7	0.443	4.7	77.2		218	236	342	0.443			
503		3	14.3	0.403	4.3	88.5	86.1	254	345	342	0.403	381	0.406	
504		3	14.9	0.434	5.2	77.9	83.2	191	256	344	0.434	351	0.432	
505		3	15.3	0.509	4.1	102.9	116.2	303	440	377	0.509	501	0.508	
506		3	15.2	0.509	3.9	91.4		279	444	429	0.509	438	0.475	
507		3	14.4	0.426	3.6	90.3		215	461	297	0.426	399	0.424	
508		3	15.3	0.507	4.7	118.9	123.5	331	500	460	0.507	499	0.510	

Notes : MC~S.G-C : See table 7 and 8.

付表-3-2 供試材の曲げ及び縦圧縮試験結果

Appendix 3-2 Bending and compressive characteristics of pruned timber

産地 Locality	No.	番玉 P	MC %	S.G g/cm ³	ARW mm	MOE tf/cm ²	EL tf/cm ²	SPL kf/cm ²	MOR kf/cm ²	CS-F kf/cm ²	S.G-F g/cm ³	CS-C kf/cm ²	S.G-C g/cm ³
種市町 Taneichi	601	1	13.8	0.474	3.8	100.2	110.6	373	510	346	0.445	326	0.449
	602	1	14.0	0.514	3.2	114.1	119.7	270	514	319	0.459	361	0.464
	603	1	14.6	0.485	4.4	105.5	107.0	227	535	332	0.454	357	0.451
	604	1	15.3	0.486	3.9	100.5	112.4	372	518	325	0.485	332	0.483
	605	1	14.6	0.491	3.9	112.9	106.6	325	490	315	0.487	292	0.483
	607	1	15.2	0.502	4.0	115.5	125.5	332	536	351	0.501	366	0.498
	609	1	14.9	0.473	4.2	106.8	112.9	339	521	319	0.484	349	0.486
	610	1	13.1	0.441	3.5	112.8	127.5	318	484	313	0.451	352	0.448
	611	1	13.8	0.505	5.2	121.8	131.5	353	526	337	0.503	359	0.508
	613	1	13.0	0.466	3.6	125.5	149.1	347	545	355	0.476	393	0.478
	601	2	13.4	0.415	4.5	96.0	108.9	293	462	292	0.417	331	0.419
	602	2	12.1	0.427	4.6	89.1	80.8	220	261	317	0.426	348	0.423
	603	2	11.3	0.395	3.9	85.5	89.3	257	334	340	0.416	350	0.424
	604	2	14.2	0.460	2.9	96.3	100.0	262	473	315	0.466	338	0.464
	605	2	13.3	0.446	4.4	94.7	100.6	249	369	317	0.466	333	0.463
	607	2	14.0	0.481	3.9	106.6	115.6	285	444	354	0.487	375	0.483
	609	2	13.2	0.491	4.1	104.6	112.7	278	519	329	0.450	343	0.447
	610	2	13.5	0.429	4.3	95.9	93.5	280	445	312	0.449	368	0.448
	611	2	12.9	0.461	4.7	116.1	127.1	257	417	359	0.470	379	0.468
	613	2	13.7	0.442	3.5	102.9	110.2	254	446	345	0.452	381	0.453

Notes : MC~S.G-C : See table 7 and 8.

付表一 4-1 供試材の節径比

Appendix 4-1 Knot ratio

産地 Locality	No.	番 玉 P	材面 Side	neKDC %	neKDL %	neSKDC %	neSKDL %	材面 Side	weKDC %	weKDL %	weSKDC %	weSKDL %	wcKDC %	wcKDL %	wcSKDC %	wcSKDL %	wSKDL %
九戸村 Kunohe	391	1	A	14.7	17.9	19.5	19.5	B	15.4	15.4	15.4	15.4	14.9	14.9	21.6	21.6	37.0
	391	1	C	0.0	0.0	0.0	0.0	D	7.2	7.2	7.2	7.2	12.0	12.0	18.2	20.2	20.2
	396	1	A	0.0	22.9	0.0	37.6	B	13.5	16.9	19.3	19.3	7.2	14.5	17.9	29.5	37.2
	396	1	C	0.0	0.0	0.0	0.0	D	0.0	0.0	0.0	0.0	0.0	10.1	0.0	15.0	15.0
	399	1	A	31.3	31.3	46.1	46.1										
	399	1	B	14.6	34.4	38.7	38.7										
	399	1	C	0.0	0.0	0.0	0.0										
	399	1	D	0.0	13.8	0.0	13.8										
	400	1	A	14.1	19.1	39.8	40.6	B	9.3	9.3	9.3	9.3	15.6	15.6	20.0	20.0	28.3
	400	1	C	17.4	17.4	17.4	17.4	D	5.9	8.8	5.9	8.8	9.8	9.8	17.6	17.6	23.4
	411	1	A	9.9	20.7	9.9	39.7	B	16.6	16.6	16.6	16.6	11.9	14.3	23.8	19.0	35.6
	411	1	C	12.4	0.0	12.4	0.0	D	0.0	0.0	0.0	0.0	12.4	12.4	22.8	22.8	22.8
	412	1	A	6.5	21.3	9.8	21.3	B	8.1	8.1	8.1	8.1	12.4	27.8	17.7	43.6	50.3
	412	1	C	20.5	20.5	20.5	20.5	D	7.2	17.7	7.2	17.7	14.4	14.8	17.2	17.2	25.4
	417	1	A	0.0	0.0	0.0	0.0	B	0.0	6.7	0.0	6.7	19.6	19.6	27.3	34.5	34.5
	417	1	C	0.0	0.0	0.0	0.0	D	0.0	12.4	0.0	12.4	0.0	12.0	0.0	18.2	18.2
	391	2	A	15.6	22.2	15.6	22.2	B	0.0	27.0	0.0	27.0	20.8	20.8	39.3	39.3	46.1
	391	2	C	20.6	25.5	30.5	46.1	D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	396	2	A	15.5	22.0	15.5	22.0	B	8.8	24.8	8.8	24.8	19.3	22.0	34.1	34.1	41.3
	396	2	C	26.1	26.1	32.6	32.6	D	22.6	22.6	22.6	22.6	12.7	11.6	12.7	15.4	35.3
	399	2	A	24.7	24.7	34.6	42.0										
	399	2	B	18.4	25.0	43.4	45.9										
	399	2	C	26.4	26.4	49.4	49.4										
	399	2	D	13.4	20.9	15.0	37.6										
	400	2	A	25.7	25.7	25.7	25.7	B	21.0	21.0	21.0	21.0	7.7	14.4	7.7	14.4	21.0
	400	2	C	14.9	19.1	14.9	19.1	D	23.2	28.7	29.8	28.7	27.6	48.6	35.9	48.6	79.5
	411	2	A	26.3	26.3	26.3	26.3	B	10.8	15.1	10.8	15.1	11.3	22.2	11.3	38.7	38.7
	411	2	C	0.0	0.0	0.0	0.0	D	17.9	17.9	17.9	20.7	24.5	24.5	24.5	29.2	42.4
	412	2	A	27.6	38.2	27.6	82.0	B	2.4	26.5	2.4	26.5	15.1	20.3	25.0	29.3	54.3
	412	2	C	26.8	33.3	34.9	71.5	D	6.6	40.2	6.6	40.2	17.0	17.0	17.0	21.7	78.0
	417	2	A	24.5	26.4	24.5	49.0	B	0.0	18.5	0.0	18.5	19.8	23.8	19.8	23.8	29.8
	417	2	C	0.0	0.0	0.0	0.0	D	6.6	21.2	6.6	21.2	16.5	19.2	16.5	31.7	44.3
	391	3	A	22.3	24.8	22.3	29.8										
	391	3	B	21.4	21.4	21.4	21.4										
	391	3	C	31.5	31.5	62.9	62.9										
	391	3	D	21.4	28.8	41.2	51.9										
	396	3	A	21.7	21.7	31.7	31.7										
	396	3	B	37.5	41.7	62.6	62.6										
396	3	C	20.9	44.3	20.9	49.3											
396	3	D	31.7	31.7	31.7	40.1											
399	3	A	23.0	30.4	32.8	65.7											
399	3	B	25.0	25.0	50.0	55.8											
399	3	C	16.4	30.4	26.3	41.9											
399	3	D	20.8	26.7	39.1	51.6											
400	3	A	22.9	32.7	67.1	67.1											
400	3	B	12.8	33.5	15.2	33.5											
400	3	C	26.2	35.2	26.2	36.0											
400	3	D	25.5	46.2	42.3	67.0											
411	3	A	38.2	38.2	58.1	58.1											
411	3	B	18.2	23.2	36.5	43.1											
411	3	C	27.4	28.2	41.5	41.5											
411	3	D	16.6	29.0	16.6	32.3											
412	3	A	27.8	36.2	65.6	65.6	B	14.9	24.0	14.9	29.3	19.2	19.2	51.6	53.2	66.0	
412	3	C	10.1	40.4	10.1	50.5	D	30.3	30.3	33.0	33.0	12.8	25.0	12.8	39.4	68.7	
417	3	A	19.8	28.8	19.8	46.1											
417	3	B	21.3	27.2	21.3	41.7											
417	3	C	16.5	34.6	27.2	37.9											
417	3	D	18.7	21.3	27.2	28.1											

Notes : neKDC~wSKDL : See table 3. Side : See Appendix 4-3

付表-4-2 供試材の節径比

Appendix 4-2 Knot ratio

産地 Locality	No.	番 主 P	材面 Side	neKDC %	neKDL %	neSKDC %	neSKDL %	材面 Side	weKDC %	weKDL %	weSKDC %	weSKDL %	wcKDC %	wcKDL %	wcSKDC %	wcSKDL %	wSKDL %
石鳥谷町 Ishidoriya	501	1	A	0.0	0.0	0.0	0.0	B	6.3	6.3	6.3	6.3	10.0	10.0	12.5	12.5	18.8
	501	1	C	18.1	18.1	18.1	18.1	D	5.5	12.4	5.5	13.3	13.3	13.3	13.3	20.7	23.0
	503	1	A	0.0	0.0	0.0	0.0	B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	503	1	C	0.0	0.0	0.0	0.0	D	0.0	0.0	0.0	12.0	12.0	19.8	29.5	38.2	38.2
	504	1	A	0.0	0.0	0.0	0.0	B	0.0	10.6	0.0	16.2	16.2	16.2	29.1	29.1	29.6
	504	1	C	0.0	0.0	0.0	0.0	D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	505	1	A	0.0	0.0	0.0	0.0	B	5.1	5.1	5.1	4.6	4.6	8.3	6.4	8.3	11.0
	505	1	C	16.7	16.7	16.7	16.7	D	14.7	17.0	14.7	8.3	8.3	12.9	8.3	18.9	35.0
	506	1	A	0.0	0.0	0.0	0.0	B	0.0	0.0	0.0	0.0	0.0	15.5	0.0	15.5	15.5
	506	1	C	0.0	0.0	0.0	0.0	D	0.0	0.0	0.0	5.3	5.3	11.8	5.3	20.3	20.3
	507	1	A	0.0	0.0	0.0	0.0	B	0.0	0.0	0.0	0.0	0.0	3.2	0.0	6.4	6.4
	507	1	C	6.3	6.3	6.3	6.3	D	0.0	0.0	0.0	5.1	5.1	5.1	7.7	7.7	7.7
	508	1	A	0.0	0.0	0.0	0.0	B	0.0	0.0	0.0	0.0	0.0	7.0	0.0	7.0	7.0
	508	1	C	0.0	0.0	0.0	0.0	D	0.0	0.0	0.0	14.0	14.0	14.0	23.4	23.4	23.4
	501	2	A	11.9	15.8	11.9	15.8	B	21.9	21.9	21.9	18.7	18.7	18.7	22.9	22.9	33.1
	501	2	C	23.0	51.5	23.0	51.5	D	6.4	22.9	6.4	13.9	13.9	16.5	20.8	29.9	52.8
	503	2	A	38.2	38.2	47.6	47.6	B	12.2	12.2	12.2	13.3	13.3	14.4	23.4	23.4	32.5
	503	2	C	0.0	10.9	0.0	10.9	D	21.8	21.8	21.8	13.3	13.3	13.3	26.1	26.1	31.9
	504	2	A	0.0	0.0	0.0	0.0	B	0.0	13.3	0.0	11.7	11.7	15.5	14.9	15.5	28.8
	504	2	C	29.6	29.6	40.1	40.1	D	24.0	24.0	47.0	13.9	13.9	16.0	13.9	20.8	47.0
505	2	A	4.7	21.2	4.7	21.2	B	26.3	26.3	31.7	18.1	18.1	18.1	32.8	32.8	64.5	
505	2	C	28.2	32.9	52.5	52.5	D	0.0	18.6	0.0	13.7	13.7	13.7	24.6	24.6	26.8	
506	2	A	19.6	19.6	19.6	19.6	B	0.0	0.0	0.0	13.4	13.4	13.4	13.4	13.4	13.4	
506	2	C	11.6	11.6	11.6	11.6	D	35.8	35.8	35.8	12.8	12.8	17.2	21.7	25.5	57.5	
507	2	A	10.1	10.1	15.6	15.6											
507	2	B	15.1	26.2	28.6	46.1											
507	2	C	9.4	9.4	17.2	17.2											
507	2	D	0.0	7.9	0.0	7.9											
508	2	A	28.3	28.3	28.3	32.2	B	15.5	16.5	15.5	11.7	11.7	13.3	11.7	13.3	27.2	
508	2	C	0.0	0.0	0.0	0.0	D	0.0	13.9	0.0	7.5	7.5	7.5	7.5	7.5	13.9	
501	3	A	29.6	29.6	35.9	35.9											
501	3	B	27.0	27.0	27.0	31.5											
501	3	C	25.1	25.1	25.1	25.1											
501	3	D	22.5	49.4	50.3	57.5											
503	3	A	27.6	28.5	27.6	28.5	B	0.0	16.0	0.0	14.7	14.7	19.8	14.7	19.8	35.1	
503	3	C	24.9	24.9	24.9	24.9	D	19.2	21.7	19.2	19.2	19.2	23.0	31.3	31.3	50.5	
504	3	A	19.8	23.4	19.8	23.4	B	15.4	19.2	15.4	15.4	15.4	15.4	15.4	18.6	48.0	
504	3	C	10.8	40.5	16.2	40.5	D	0.0	11.5	0.0	20.5	20.5	20.5	25.6	25.6	28.2	
505	3	A	16.2	22.5	28.9	36.1											
505	3	B	28.0	28.0	42.4	42.4											
505	3	C	24.3	24.3	24.3	24.3											
505	3	D	23.5	28.9	23.5	28.9											
506	3	A	23.4	27.0	40.4	40.4											
506	3	B	17.9	17.9	29.6	29.6											
506	3	C	0.0	13.5	0.0	27.0											
506	3	D	13.4	19.7	13.4	30.5											
507	3	A	16.2	28.7	16.2	58.7											
507	3	B	16.0	18.4	16.0	18.4											
507	3	C	0.0	12.5	0.0	21.2											
507	3	D	19.6	19.6	39.3	39.3											
508	3	A	22.6	26.2	22.6	30.8	B	23.0	23.0	23.0	14.0	14.0	22.3	14.0	22.3	37.0	
508	3	C	18.1	18.1	18.1	18.1	D	0.0	20.4	0.0	20.4	20.4	20.4	20.4	20.4	20.4	

Notes : neKDC~wSKDL : See table 3.

Side : See Appendix 4-3

付表-4-3 供試材の節径比

Appendix 4-3 Knot ratio

産地 Locality	No.	番 主 P	材面 Side	neKDC %	neKDL %	neSKDC %	neSKDL %	材面 Side	weKDC %	weKDL %	weSKDC %	weSKDL %	wcKDC %	wcKDL %	wcSKDC %	wcSKDL %	wSKDL %
種市市 Taneichi	601	1	A	4.2	9.2	4.2	9.2	B	0.0	12.4	0.0	12.4	13.6	13.6	19.6	19.6	20.0
	601	1	C	0.0	0.0	0.0	0.0	D	0.0	7.2	0.0	7.2	10.7	14.5	20.0	31.1	38.4
	602	1	A	0.0	0.0	0.0	0.0	B	8.1	9.5	8.1	9.5	12.8	18.5	28.0	32.3	32.3
	602	1	C	0.0	0.0	0.0	11.6	D	11.4	12.3	11.4	12.3	8.5	16.1	8.5	16.1	29.4
	603	1	A	15.0	13.3	15.0	25.8	B	0.0	11.2	0.0	12.3	7.5	8.3	20.4	20.8	20.8
	603	1	C	0.0	0.0	0.0	0.0	D	0.0	9.1	8.3	9.1	7.5	7.5	12.9	12.9	17.1
	604	1	A	0.0	0.0	0.0	0.0	B	0.0	0.0	0.0	0.0	0.0	3.1	0.0	3.1	3.1
	604	1	C	0.0	0.0	0.0	0.0	D	0.0	5.1	0.0	5.1	5.9	7.0	9.4	15.2	15.2
	605	1	A	14.2	33.4	26.7	33.4	B	12.4	18.7	12.4	18.7	7.1	17.8	13.3	27.4	55.6
	605	1	C	0.0	0.0	0.0	0.0	D	5.0	13.3	9.1	17.4	6.2	9.5	15.3	15.8	31.1
	607	1	A	0.0	0.0	0.0	15.9	B	9.2	11.3	9.2	11.3	11.3	11.3	21.7	22.5	33.8
	607	1	C	0.0	0.0	0.0	0.0	D	0.0	7.1	0.0	7.1	5.0	7.9	5.0	12.9	19.2
	609	1	A	10.8	10.8	10.8	10.8	B	11.6	11.6	11.6	11.6	8.3	12.0	21.6	21.6	21.6
	609	1	C	0.0	0.0	0.0	0.0	D	6.6	6.6	6.6	6.6	4.2	11.2	4.2	14.1	14.1
	610	1	A	0.0	0.0	0.0	10.0	B	0.0	12.9	0.0	12.9	8.7	8.7	13.7	22.9	22.9
	610	1	C	0.0	0.0	6.7	6.7	D	13.3	13.3	13.3	13.3	11.7	17.5	22.5	39.6	41.2
	611	1	A	0.0	12.6	0.0	12.6	B	0.0	12.5	0.0	12.5	8.3	14.5	13.3	22.4	28.7
	611	1	C	4.2	4.2	4.2	4.2	D	8.3	8.3	11.6	11.6	9.1	14.5	9.1	16.6	16.6
	613	1	A	4.2	4.2	4.2	4.2	B	3.8	3.8	3.8	3.8	2.4	11.9	4.7	14.2	14.2
	613	1	C	0.0	0.0	0.0	0.0	D	0.0	12.8	0.0	12.8	10.0	13.3	23.2	23.2	27.0
601	2	A	24.8	35.6	29.0	35.6	D	12.3	22.7	12.3	22.7	10.9	13.3	10.9	25.1	40.7	
601	2	C	0.0	0.0	0.0	0.0	B	10.7	15.6	10.7	15.6	12.3	15.6	22.7	30.3	32.2	
602	2	A	20.9	29.4	31.3	31.3	D	16.6	33.2	16.6	33.2	53.1	21.9	21.9	27.2	66.3	
602	2	C	19.0	24.7	19.0	56.0	B	21.2	21.2	33.2	33.2	29.2	29.2	21.9	35.2	58.4	
603	2	A	4.8	19.0	4.8	33.3	D	12.0	13.4	18.7	25.4	28.0	28.0	33.4	33.4	52.1	
603	2	C	20.0	38.0	33.3	50.4	B	10.0	16.0	10.0	20.7	9.3	10.7	9.3	12.0	29.4	
604	2	A	0.0	0.0	0.0	0.0	D	0.0	0.0	0.0	0.0	12.5	12.5	23.3	23.3	32.4	
604	2	C	0.0	0.0	0.0	0.0	B	0.0	0.0	0.0	0.0	6.2	7.1	12.9	12.9	12.9	
605	2	A	25.0	26.7	35.9	47.6	D	23.3	23.3	37.1	37.1	15.7	23.8	15.7	26.6	41.4	
605	2	C	19.2	19.2	29.2	29.2	B	12.8	18.5	12.8	18.5	15.2	20.4	27.6	30.4	39.5	
607	2	A	20.0	20.2	31.7	31.7	D	12.5	12.5	12.5	13.7	11.2	15.8	16.2	21.6	31.2	
607	2	C	0.0	0.0	0.0	0.0	B	9.1	12.5	9.1	12.5	9.6	10.4	17.0	17.0	22.9	
609	2	A	5.9	29.3	5.9	29.3	D	6.2	6.2	6.2	6.2	7.1	7.1	7.1	7.1	13.3	
609	2	C	0.0	0.0	0.0	0.0	B	21.3	21.3	21.3	21.3	20.9	20.9	26.5	26.5	47.9	
610	2	A	24.9	28.2	45.6	49.0	D	10.9	21.4	10.9	25.2	10.0	18.1	12.4	30.9	54.7	
610	2	C	0.0	9.1	0.0	9.1	B	21.4	21.4	21.4	21.4	19.5	19.5	31.9	34.3	50.9	
611	2	A	23.6	23.6	23.6	23.6	D	2.9	2.9	2.9	2.9	8.7	8.7	8.7	10.0	10.0	
611	2	C	19.4	33.8	19.4	52.3	B	29.9	29.9	29.9	29.9	11.2	15.4	14.5	25.7	44.4	
613	2	A	27.6	27.6	33.4	33.4	D	8.1	16.6	8.1	17.1	8.1	11.8	8.1	16.6	27.0	
613	2	C	0.0	81.9	0.0	81.9	B	19.0	22.7	19.0	22.7	12.8	11.4	13.3	39.3	62.1	

Notes : neKDC~wSKDL : See table 3.

