

# 31-year dynamics of a secondary forest that invaded by *Bischofia javanica* after simultaneous death of *Pinus luchuensis* in Chichijima Island

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**Abstract:** To quantify dynamics of a secondary forest that was invaded by *Bischofia javanica*, after death of a dominant tree, *Pinus luchuensis*, we represented long-term monitoring data of a 20 x 20 m plot in the Fukiagedani Valley in Chichijima Island for 31 years (1984-2015). With the death of *P. luchuensis*, basal area of trees of all woody species reduced to less than half before the death, and thereafter increased. The numbers of trees and saplings decreased during the period. This suggested that individual trees grew after death of *P. luchuensis* but recruitments of seedlings did not occur, which could be related to closure of forest canopy with the growth of individual trees. All data of the study was published on the web site of the Ogasawara Research Committee of Tokyo Metropolitan University (island@tmu.ac.jp).

**Keywords:** invasive non-native species, long-term monitoring, oceanic island, Ogasawara Islands

## Introduction

Most of the mesic secondary forests on Chichijima Island, the largest island of Ogasawara Islands, became established after 1945 in abandoned fields and they were dominated by an introduced species, *Pinus luchuensis* (Shimizu 1983). These forests are categorized as a *Pinus-Schima* forest (Shimizu and Tabata 1991). In 1979, a pine wood nematode, *Bursaphelenchus xylophilus* was accidentally introduced to Chichijima Island and almost all of the *P. luchuensis* trees were killed by 1984 (Mueller-Dombois and Fosberg 1998). After the death of *P. luchuensis*, most of the stands of the *Pinus-Schima* forests were mainly composed of *Schima mertensiana*

(Shimizu 1986), and *Bischofia javanica* aggressively invaded some of these forests (Hata et al. 2006). Long-term dynamics of the forest that invasive trees invaded can provide useful information for management of the forest ecosystems.

In this study, we represented data of dynamics of woody species in the forests in Chichijima Island for 31 years. The data, contains forest dynamics for 19 years published in Hata et al. (2006). In addition, all data in this study were published in Appendix 1.

## Study sites and methods

In 1984, a permanent  $20 \times 20$  m plot was established for long-term monitoring in a forest in the Fukiagedani Valley ( $27^{\circ}04' N$ ,  $142^{\circ}12' E$ , 120 m above sea level). In this study, woody plants were categorized by their heights into two groups, trees ( $\geq 1.3$  m), and saplings ( $< 1.3$  m,  $\geq 0.3$  m). The diameters at breast height (DBHs) of all trees and heights of all saplings were measured. The DBHs of the standing dead trees of *P. luchuensis* were also measured in order to estimate their biomass when they were alive. Remeasurements of the trees and saplings were also carried out in 1987, 1990, 1995, 1998, 2000, 2003, 2010 and 2015. Details of the study site and measurements were represented in Hata et al. (2006).

## Results and Discussion

Basal area of alive trees of all woody species was  $30.4\text{ m}^2\text{ ha}^{-1}$  and that of standing dead trees of *P. luchuensis* was  $39.3 - 134.9\text{ m}^2\text{ ha}^{-1}$  (Table 1). This suggested that aboveground biomass of the forest reduced to less than half after death of *P. luchuensis*, which was not inconsistent with previous study in the secondary forests (Shimizu 1986). All survivors of *P. luchuensis* in 1984 died by 1998. Basal area of trees of all woody species increased from  $30.4\text{ m}^2\text{ ha}^{-1}$  to  $53.6\text{ m}^2\text{ ha}^{-1}$  for 31 years, which was 77% of total value of alive and dead trees in 1984 (Table 1).

Total number of trees of woody species decreased from 280 to 192 for 31 years (Table 2). The number increased between 1984 and 1990 and thereafter decreased. The numbers of saplings of all woody species deceased from 840 to 63 for 31 years, especially, drastically decreased after 2003 (Table 3). The increase in basal area of trees, and the decreases in numbers of trees and saplings suggested that individual trees grew after death of *P. luchuensis* but recruitments of seedlings did not occur, which could be related to closure of forest canopy with the growth of individual trees.

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Appendix 1 is available on the web site of the Ogasawara Research Committee of Tokyo Metropolitan University as follow: [https://tokyo-metro-u.repo.nii.ac.jp/index.php?action=pages\\_view\\_main&active\\_action=repository\\_view\\_main\\_item\\_snippet&index\\_id=479&pn=1&count=20&order=17&lang=japanese&page\\_id=30&block\\_id=155](https://tokyo-metro-u.repo.nii.ac.jp/index.php?action=pages_view_main&active_action=repository_view_main_item_snippet&index_id=479&pn=1&count=20&order=17&lang=japanese&page_id=30&block_id=155).

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## ABSTRACT IN JAPANESE

# リュウキュウマツ一斉枯死後にアカギが侵入した父島の 二次林における 31 年間の動態

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リュウキュウマツの一斉枯死後にアカギが侵入した森林の長期的な動態を父島の二次林における 31 年間のデータから明らかにした。マツ枯れ直後、森林の BA は 50% 以下に減少した。その後 31 年間で全体の BA は増加し、マツ枯れ以前の約 70% 程度まで回復したと考えられる。樹木の個体数は、1990 年まで増加し、その後減少した。これは、マツ枯れ後、樹木が成長し、現存量が増加する一方で、競争によって小径木の枯死と新規加入個体の減少を示唆する。この研究で使用したデータを公開する。利用を希望する場合の問い合わせ先は、以下のアドレス (island@tmu.ac.jp) である。

キーワード：侵略的外来生物、長期継続調査、海洋島、小笠原諸島

Table 1 Basal areas of trees of all woody species ( $m^2 ha^{-1}$ ) in a  $20 \times 20$  m plot.

Species	1984	1987	1990	1995	1998	2000	2003	2010	2015
<i>Ardisia sieboldii</i>	0.07	0.16	0.24	0.26	0.22	0.17	0.31	0.25	0.16
<i>Bischofia javanica</i>	3.83	9.58	15.30	18.46	19.52	21.28	24.77	25.77	26.79
<i>Callicarpa subpubescens</i>		0.003	0.003	0.001	0.002	0.002	0.003		
<i>Calamus urens</i>			0.21	0.21	0.04	0.03	0.01		0.01
<i>Celtis boninensis</i>									
<i>Cinnamomum camphora</i>	0.57	0.59	0.75	0.93	0.99	0.99	1.06	1.24	1.58
<i>Cinnamomum pseudopedunculatum</i>		0.00	0.01	0.02	0.04	0.06	0.07	0.10	0.11
<i>Calophyllum inophyllum</i>	(4.44)								
<i>Elaeocarpus photiniifolius</i>	0.003	0.006	0.004	0.01	0.01	0.01			
<i>Elaeagnus rotundata</i>	0.05	0.01					0.00	0.00	
<i>Euonymus boninensis</i>									
<i>Hibiscus glaber</i>	0.01	0.05	0.11	0.08	0.08	0.10	0.04	0.05	0.05
<i>Livistona chinensis</i>	0.68	0.66	0.65	0.66	0.66	0.61	0.61	0.61	0.60
<i>Ligustrum micranthum</i>	0.02	0.03	0.08	0.12	0.11	0.13	0.11	0.07	0.07
<i>Machilus boninensis</i>	0.00	0.00				0.04	0.04		0.04
<i>Mangifera indica</i>	3.38	3.43	3.67	3.86	4.02	4.14	4.78	5.03	5.58
<i>Machilus koubo</i>	0.03	0.16	0.22	0.27	0.82	0.29	0.31	0.25	0.30
<i>Morus australis</i>	0.00	0.01	0.01	0.04	0.05	0.06	0.06	0.07	0.05
<i>Neolitsea sericea</i> var. <i>aurata</i>	0.03	0.06	0.11	0.13	0.15	0.12	0.12		
<i>Osmanthus insularis</i>	0.01	0.06	0.16	0.31	0.40	0.49	0.55	0.77	0.88
<i>Pandanus boninensis</i>			2.00	2.27	2.26	2.45	1.34	0.58	0.57
<i>Pittosporum boninense</i>	0.04	0.09	0.14	0.18	0.17	0.18			
<i>Pinus luchuensis</i>	10.79	8.03	3.18	4.45					
	(34.89)								
<i>Planchonella obovata</i>	2.91	3.93	4.05	4.14	4.37	4.39	3.72	3.35	3.36
<i>Psychotria boninensis</i>									
<i>Psidium guajava</i>									
<i>Psidium littorale</i>								0.0001	0.0001
<i>Rhaphiolepis indica</i>	2.65	2.46	3.06	2.50	3.13	3.10	3.05	1.24	0.98
<i>Schima mertensiana</i>	5.29	5.78	6.77	7.58	8.61	8.75	10.08	11.44	12.34
<i>Syzygium cleyerifolium</i>	0.004	0.02	0.03	0.05	0.08	0.08	0.09	0.11	0.10
<i>Tarennia subsessilis</i>	0.01	0.01	0.01	0.01	0.01	0.01			
<i>Trema orientalis</i>									
<i>Wikstroemia pseudoretusa</i>							0.0001		
Unkonwn							0.005	0.0002	
Total	30.4 (39.3)	35.1	40.7	46.5	45.7	47.5	51.1	51.0	53.6

(0): Standing dead trees

Table 2 Numbers of trees of all woody species ( $400 \text{ m}^{-2}$ ) in a  $20 \times 20 \text{ m}$  plot.

Species	1984	1987	1990	1995	1998	2000	2003	2010	2015
<i>Ardisia sieboldii</i>	6	13	20	19	19	22	27	21	8
<i>Bischofia javanica</i>	132	170	173	170	159	166	158	118	95
<i>Callicarpa subpubescens</i>		1	1	1	1	1	1		
<i>Calamus urens</i>			1	1	5	1	4		3
<i>Celtis boninensis</i>									
<i>Cinnamomum camphora</i>	1	1	1	1	1	1	1	1	1
<i>Cinnamomum pseudopedunculatum</i>		3	4	8	9	9	10	8	8
<i>Calophyllum inophyllum</i>	(6)								
<i>Elaeocarpus photiniifolius</i>	3	3	3	4	3	2			
<i>Elaeagnus rotundata</i>	1	1					3	1	
<i>Euonymus boninensis</i>									
<i>Hibiscus glaber</i>	2	2	4	3	2	3	2	2	2
<i>Livistona chinensis</i>	1	1	1	1	1	1	1	1	1
<i>Ligustrum micranthum</i>	5	14	51	47	31	35	24	7	4
<i>Machilus boninensis</i>	1	1				1	1	1	1
<i>Mangifera indica</i>	1	1	1	1	1	1	1	1	1
<i>Machilus kobu</i>	8	20	21	18	15	15	15	8	5
<i>Morus australis</i>	1	3	5	4	4	4	4	4	3
<i>Neolitsea sericea</i> var. <i>aurata</i>	3	9	12	14	13	10	9		
<i>Osmanthus insularis</i>	5	12	16	17	17	19	20	19	21
<i>Pandanus boninensis</i>			15	12	12	12	6	2	2
<i>Pittosporum boninense</i>	2	4	4	4	2	2			
<i>Pinus luchuensis</i>	4	3	1	1					
		(8)							
<i>Planchonella obovata</i>	12	17	21	17	17	13	12	8	5
<i>Psychotria boninensis</i>									
<i>Psidium guajava</i>									
<i>Psidium littorale</i>								1	1
<i>Rhaphiolepis indica</i>	80	96	120	99	89	83	63	20	10
<i>Schima mertensiana</i>	9	15	17	17	18	26	25	14	15
<i>Syzygium cleyerifolium</i>	2	3	3	3	4	3	4	4	4
<i>Tarenna subsessilis</i>	1	1	1	1	1	1			
<i>Trema orientalis</i>									
<i>Wikstroemia pseudoretusa</i>							1	1	
Unkonwn							2	1	2
Total	280	394	496	463	424	434	393	241	192
			(14)						

(0): Standing dead trees

Table 3 Numbers of saplings of all woody species ( $400 \text{ m}^{-2}$ ) in a  $20 \times 20 \text{ m}$  plot.

Species	1984	1987	1990	1995	1998	2000	2003	2010	2015
<i>Ardisia sieboldii</i>	28	18	22	21	19	23	24	11	11
<i>Bischofia javanica</i>	71	37	32	22	20	18	11	3	
<i>Callicarpa subpubescens</i>	2						1		
<i>Calamus urens</i>	1				1	1	1		
<i>Celtis boninensis</i>							1		
<i>Cinnamomum camphora</i>									
<i>Cinnamomum pseudopedunculatum</i>	15	13	10	11	7	14	7	4	4
<i>Calophyllum inophyllum</i>									
<i>Elaeocarpus photiniifolius</i>	5	3	2	1	1				
<i>Elaeagnus rotundata</i>						1	1	4	4
<i>Euonymus boninensis</i>	3	2	3						
<i>Hibiscus glaber</i>					1	9	7	3	1
<i>Livistona chinensis</i>									1
<i>Ligustrum micranthum</i>	216	141	94	58	44	63	24	1	2
<i>Machilus boninensis</i>	2	1	1	1	1				
<i>Mangifera indica</i>									
<i>Machilus koubo</i>	20	8	11	9	12	17	18	4	8
<i>Morus australis</i>	5	1	1	1	1	4	1		
<i>Neolitsea sericea</i> var. <i>aurata</i>	15	9	12	7	7	9	15	2	
<i>Osmanthus insularis</i>	18	10	6	7	7	11	17	9	9
<i>Pandanus boninensis</i>	26		13	9	9	7	2		
<i>Pittosporum boninense</i>	2	1	2	1	1	1	1	1	1
<i>Pinus luchuensis</i>									
<i>Planchonella obovata</i>	141	104	103	70	59	60	62	19	5
<i>Psychotria boninensis</i>									
<i>Psidium guajava</i>						1			
<i>Psidium littorale</i>					2	3	2	1	2
<i>Rhaphiolepis indica</i>	251	211	197	152	211	290	195	20	7
<i>Schima mertensiana</i>	11	9	10	9	10	14	13	7	6
<i>Syzygium cleyerifolium</i>	2	1	1	1			1		1
<i>Tarenna subsessilis</i>	3	3	2	1	1				
<i>Trema orientalis</i>	3								
<i>Wikstroemia pseudoretusa</i>				3	6	3			1
Unknown			1			7	6	3	
Total	840	572	523	384	420	556	410	92	63

Appendix 1 List of woody species that occurred in a 20 × 20 m plot, and diameters at breast height of trees and heights of samplings of all woody species.

a: Individual that was damaged by natural disturbances but survived. Values of DBH or height of the individuals are often lower than those in previous measurement.

b: Individual that measurement was not conducted because of oversight

This data is available on the web site of the Ogasawara Research Committee of Tokyo Metropolitan University as follow: [https://tokyo-metro-u.repo.nii.ac.jp/index.php?action=pages\\_view\\_main&active\\_action=repository\\_view\\_main\\_item\\_snippet&index\\_id=479&pn=1&count=20&order=17&lang=japanese&page\\_id=30&block\\_id=155](https://tokyo-metro-u.repo.nii.ac.jp/index.php?action=pages_view_main&active_action=repository_view_main_item_snippet&index_id=479&pn=1&count=20&order=17&lang=japanese&page_id=30&block_id=155).

sp.	Species name	Japanese name	family	Origin
Ars	<i>Ardisia sieboldii</i>	モクタチバナ	Primulaceae	native
Bij	<i>Bijohofia javanica</i>	アガギ	Pyllanthaceae	non-native
Cas	<i>Callicarpa subpubescens</i>	オオバシンママラサキ	Lamiaceae	endemic
Cau	<i>Calamus urens</i>	クジヤクヤシ	Arecaceae	non-native
Ceb	<i>Celtis boninensis</i>	クワノハエノキ	Cannabaceae	endemic
Cic	<i>Cinnamomum camphora</i>	クスノキ	Lauraceae	non-native
Cip	<i>Cinnamomum pseudopunctulatum</i>	コヤブニッケイ	Lauraceae	endemic
Chn_d	<i>Calophyllum inophyllum</i> (standing dead tree)	テリハボク(枯死木)	Clusiaceae	native
Elp	<i>Elpeocarpus photiniaefolius</i>	シマホルトノキ	Iteocarpaceae	endemic
Elr	<i>Elaeagnus rotundata</i>	オガサワラグミ	Elaeagnaceae	endemic
Eub	<i>Euonymus boninensis</i>	ヒメマサキ	Celastraceae	endemic
Hig	<i>Hibiscus glaber</i>	トリハマボウ	Malvaceae	native
Lic	<i>Livistona chinensis</i>	オガサワラヒロウ	Arecaceae	endemic
Lim	<i>Ligustrum microcarpum</i>	ムニンネズミモチ	Oleaceae	native
Mab	<i>Machilus boninensis</i>	ムニニイヌグス	Lauraceae	native
Mai	<i>Mangifera indica</i>	マンゴー	Anacardiaceae	non-native
Mak	<i>Machilus kobu</i>	コブガシ	Lauraceae	native
Moa	<i>Morus australis</i>	シマグラ	Moraceae	non-native
Nes	<i>Neolitsea sericea var. aurata</i>	キンショクダモ	Lauraceae	native
Osi	<i>Osmanthus insularis</i>	シマモクセイ	Oleaceae	native
Pab	<i>Pandanus boninensis</i>	タコノキ	Pandanaceae	native
Pib	<i>Pitcairnia boninense</i>	シロトベラ	Pitcairnaceae	native
Pil	<i>Pilus luchuensis</i>	リュウキュウマツ	Pilaceae	native
Pil_d	<i>Pilus luchuensis</i> (standing dead tree)	リュウキュウマツ(枯死木)	Pilaceae	native
Plo	<i>Planchonella obovata</i>	アカツツ	Sapotaceae	native
Psb	<i>Psychotria boninensis</i>	オオシラタマカズラ	Rubiaceae	native
Psg	<i>Psidium guajava</i>	パンジロウ	Myrtaceae	non-native
Psl	<i>Psidium littorale</i>	キバシジョウ	Myrtaceae	non-native
Rhi	<i>Rhipiolepis indica</i>	シャリバンハイ	Rosaceae	native
Scm	<i>Schinia mertensiana</i>	ヒメツバキ	Theaceae	native
Syc	<i>Syzygium cleeyerifolium</i>	ヒメフトモモ	Myrtaceae	native
Tas	<i>Tarenna subsessilis</i>	シマギヨクシンカ	Rubiaceae	native
Tro	<i>Trema orientalis</i>	ウラジロエノキ	Cannabaceae	native
Wip	<i>Wikstroemia pseudoretusa</i>	ムニニアオガシビ	Thymelaeaceae	native

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
0001	Plo	0.50	0.73	0.73	0.58						116.0	116.0				123.0 <sup>a</sup>	96.0	43.0	
0002	Plo	1.50	<sup>b</sup>	0.68							86.0	75.0	87.0	73.0 <sup>a</sup>	77.0	77.0			116.0 <sup>a</sup>
0003	Rhi			0.60	0.35	0.62					74.0	95.0	126.0	119.0	111.0 <sup>a</sup>	128.0			92.0
0004	Plo																		
0005	Rhi																		
0006	Bij	6.50	8.94	12.45	14.08	14.65	15.76	18.03	18.18	18.15									
0007	Rhi	2.10	2.80	3.06	2.99	3.15	3.31	3.44											
0008	Pil	46.00	46.47																
0009	Rhi		2.30	2.23 <sup>a</sup>															
0010	Rhi		0.20																
0011	Rhi		1.80	1.78	1.79														
0012	Plo		0.90	0.64	0.30 <sup>a</sup>														
0013	Rhi		0.70	0.90	0.89	0.95													
0014	Pil		37.00	37.97	40.22	47.61													
0015	Rhi		0.60	0.80	0.67	0.80													
0016	Rhi		0.40	0.26	0.27														
0017	Rhi																		
0018	Bij		1.66	1.47 <sup>a</sup>	2.23	2.36	2.34	0.95 <sup>a</sup>											
0019	Elp				0.41														
0020	Rhi		0.50	0.60	0.63	0.58													
0021	Rhi			0.57	0.61	0.61													
0022	Elp			0.29	0.20	0.71													
0023	Rhi		0.80	0.80	0.79	0.69	0.65												
0024	Rhi				0.23														
0025	Pil	41.00																	
0026	Sem	6.30	7.70	9.39	10.96	12.68	13.69	14.87	17.04	19.87									
0027	Sem			7.55	8.95	9.62	10.19	11.40	12.29	12.58									
0028	Osi			0.53	0.65	1.07	1.45	1.59	2.55	2.57	105.0	<sup>b</sup>							
0029	Osi																		
0030	Plo																		
0031	Rhi																		
0032	Rhi																		
																		60.0	

ID	sp		Diameter at breast height (cm)								Height (cm)										
			1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015	
0033	Rhi		1.70	1.75								38.0	54.0	58.0							
0034	Rhi																				
0035	Rhi		1.90																		
0036	Lim		1.90	2.32	2.32	2.64	2.58 <sup>a</sup>	2.68	2.89												
0037	Pil <sub>d</sub>		29.10																		
0038	Mak											113.0	103.0	126.0							
0039	Mak											50.0	84.0	86.0							
0040	Plo			0.70	0.77							111.0									
0041	Rhi				0.21	0.33	0.37	0.43	0.48			63.0	104.0								
0042	Rhi											54.0	110.0	100.0	122.0						
0043	Rhi											77.0									
0044	Rhi											48.0	101.0	110.0							
0045	Rhi		2.90	3.72	4.14	4.46	4.78	4.39	4.39			85.0									
0046	Rhi																				
0047	Rhi		3.60	3.66																	
0048	Plo																				
0049	Ars																				
0050	Plo		1.70	2.10	2.42	2.55	2.52	2.46	2.58	2.61		80.0	64.0	64.0							
0051	Bij		3.60	6.78	11.78	15.92	17.32	20.51	24.14	28.09	32.61		30.0	59.0	80.0	91.0	101.0	102.0	104.0	112.0	
0052	Rhi																				
0053	Rhi																				
0054	Mak																				
0055	Mak																				
0056	Mak																				
0057	Rhi																				
0058	Lim																				
0059	Rhi		4.90																		
0060	Mak																				
0061	Rhi																				
0062	Rhi		4.50	4.93	5.19	4.14 <sup>a</sup>	3.95	6.21													
0063	Rhi																				
0064	Rhi																				
0065	Plo																				
0066	Plo																				

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010
0067	Mak										68.0	69.0	93.0	124.0	125.0	32.8		
0068	Rhi										52.0	52.0						
0069	Rhi										69.0	82.0 <sup>a</sup>						
0070	Mak																	
0071	Rhi																	
0072	Plo																	
0073	Mak																	
0074	Pab																	
0075	Pab																	
0076	Rhi																	
0077	Rhi																	
0078	Rhi																	
0079	Rhi																	
0080	Rhi																	
0081	Mak																	
0082	Mak																	
0083	Rhi																	
0084	Rhi																	
0085	Rhi																	
0086	Bij																	
0087	Bij																	
0088	Lim																	
0089	Pab																	
0090	Rhi																	
0091	Rhi																	
0092	Mai	41.50	41.79	43.22	44.36	45.29	45.92	49.36	50.64	53.34								
0093	Rhi	0.40	0.90	1.21	0.12	3.68	3.77	3.83			61.0	64.0	78.0	57.0	40.0	34.0	97.0 <sup>a</sup>	
0094	Rhi										90.0	91.0						
0095	Rhi										80.0	80.0						
0096	Bij										95.0	95.0						
0097	Rhi										120.0	120.0						
0098	Rhi	2.00																
0099	Rhi																	
0100	Pab																	
0101	Bij	1.50	3.28	5.19	5.61	5.48	5.86	5.89	0.84	5.95								

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2010	2015	
0102	Rhi			0.36	0.40	0.55	0.42	0.50	0.54		90.0	125.0							
0103	Lim			0.18	0.17						88.0	130.0							
0104	Rhi										66.0	95.0	99.0	70.0 <sup>a</sup>	79.0			85.0	
0105	Lim										51.0	80.0	86.0						
0106	Lim										64.0	100.0	121.0	122.0					
0107	Plo										90.0	120.0	107.0	79.0 <sup>a</sup>	77.5			76.0	
0108	Lim			0.30	0.85						57.0								
0109	Lim			1.40	1.72	1.64					79.0								
0110	Rhi			0.111	Rhi	1.59	1.59												
0112	Lim			0113	Bij	1.11	1.51	1.82				30.0							
0114	Rhi			0115	Bij	2.23	1.70	5.92	6.56	6.82	7.96	7.67							
0116	Rhi			0117	Rhi			3.54					65.0	100.0	103.0				
0118	Bij			0119	Rhi	2.36	3.45	3.69					75.0	120.0	122.0				
0120	Rhi			0121	Rhi	1.70	2.23	2.71	2.74				65.0	100.0	122.0	37.0 <sup>a</sup>	80.0	41.0 <sup>a</sup>	
0122	Rhi			0123	Mak	1.80	1.90	2.23	0.32				71.0						
0124	Rhi			0125	Rhi	1.90	2.23	2.07					88.0	125.0	128.0	127.0			
0126	Rhi			0127	Rhi	0.60							130.0						
0128	Rhi			0129	Rhi	1.20	1.56	1.56											
0130	Plo			0131	Cln_d	3.80	4.87	6.24	6.56	6.37	6.18	6.18							
0132	Cln_d			0133	Cln_d	1.00	0.92	0.61	0.51				127.0	110.0	124.0				
0134	Cln_d			0135	Cln_d	6.10	6.46	6.78	6.94	7.01	7.26	7.13	7.01						

ID	sp	Chn_d	Diameter at breast height (cm)								Height (cm)									
			1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
0136		15.60										50.0	56.0	70.0	b	30.0	53.0	55.0		
0137	Ars											66.0								
0138	Ars		0.80	1.06	1.02	1.06	1.04	1.07				70.0								
0139	Ars		1.00	1.09	1.12	1.12	1.08	1.17				41.0	49.0	55.0						
0140	Plo											84.0	114.0	123.0						
0141	Rhi																			
0142	Rhi		0.30	1.10	1.73	1.69						105.0								
0143	Rhi			0.60	1.00	0.98														
0144	Rhi																			
0145	Rhi																			
0146	Rhi																			
0147	Rhi		6.00																	
0148	Bij		3.50	3.95	5.67	6.72	6.56	6.62	6.75				90.0	124.0						
0149	Rhi																			
0150	Lim																			
0151	Bij		2.70	4.74	6.34	7.80	7.68	9.04	9.04	9.14	9.14									
0152	Mak		1.30	1.69	1.05 <sup>a</sup>	1.43														
0153	Rhi																			
0154	Rhi																			
0155	Rhi																			
0156	Rhi																			
0157	Rhi																			
0158	Mak																			
0159	Rhi																			
0160	Lim																			
0161	Mak																			
0162	Rhi																			
0163	Pab																			
0164	Pab																			
0165	Mak																			
0166	Rhi																			
0167	Rhi																			
0168	Rhi																			
0169	Rhi																			
0170	Rhi																			

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
0171	Rhi																		
0172	Rhi																		
0173	Rhi																		
0174	Rhi																		
0175	Rhi																		
0176	Mak																		
0177	Mak																		
0178	Bij																		
0179	Bij																		
0180	Mak																		
0181	Mak																		
0182	Mak																		
0183	Mak																		
0184	Rhi																		
0185	Rhi																		
0186	Rhi																		
0187	Osi																		
0188	Osi																		
0189	Rhi																		
0190	Rhi																		
0191	Rhi																		
0192	Osi																		
0193	Rhi																		
0194	Bij																		
0195	Bij																		
0196	Osi																		
0197	Rhi																		
0198	Rhi																		
0199	Bij																		
0200	Elr																		
0201	Rhi	0.50	0.60	0.98	1.11	1.11	1.08	1.20											
0202	Mak		1.24	1.28	b														
0203	Mak	0.90	2.23	2.87	2.83	2.83	b												
0204	Rhi																		
0205	Rhi																		

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2010	2015
0206	Bij	1.30	2.64	4.24	4.65	4.75	4.64	4.88	4.86	4.87								
0207	Rhi	3.10	4.42	4.90	5.54	5.92	6.11	6.18	6.24									
0208	Plo																	
0209	Rhi																	
0210	Lim																	
0211	Rhi																	
0212	Plo																	
0213	Lim																	
0214	Lim																	
0215	Lim																	
0216	Lim																	
0217	Lim																	
0218	Lim																	
0219	Lim																	
0220	Plo																	
0221	Lim																	
0222	Sem	14.00	16.14	18.34	19.90	22.01	22.93	24.71	28.31	29.24								
0223	Sem	17.90	19.48	20.92	22.26	23.69	24.59	25.54	27.36	28.76								
0224	Sem																	
0225	Rhi																	
0226	Plo																	
0227	Lim																	
0228	Lim																	
0229	Rhi																	
0230	Rhi																	
0231	Lim																	
0232	Plo																	
0233	Bij																	
0234	Mak																	
0235	Rhi																	
0236	Rhi																	
0237	Rhi																	
0238	Ars																	
0239	Ars																	
0240	Ars																	



ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
0274	Plo										85.0	113.0	110.0	b	40.0	60.0	40.0 <sup>a</sup>		
0275	Plo										90.0	40.0	33.0	b	b	34.0	36.0		
0276	Lim										58.0	87.0							
0277	Rhi	2.60	2.93	3.24	3.82	3.73	3.40	3.40											
0278	Rhi																		94.0
0279	Rhi																		
0280	Rhi	1.70	1.97	1.86															
0281	Rhi	0.80	0.67	1.09															
0282	Rhi																		
0283	Plo																		
0284	Plo																		
0285	Rhi																		
0286	Plo																		
0287	Rhi	0.38	0.35																
0288	Rhi																		
0289	Rhi																		
0290	Rhi																		
0291	Rhi																		
0292	Lim	0.18	0.22																
0293	Lim																		
0294	Plo																		
0295	Lim																		
0296	Plo																		
0297	Lim																		
0298	Lim																		
0299	Lim																		
0300	Lim																		
0301	Lim																		
0302	Rhi																		
0303	Mak																		
0304	Rhi																		
0305	Rhi																		
0306	Rhi																		
0307	Rhi																		
0308	Rhi																		

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
0309	Plo										34.0	35.0							
0310	Rhi										36.0	36.0							
0311	Rhi										32.0	35.0							
0312	Rhi										35.0								
0313	Rhi										54.0	63.0							
0314	Rhi										33.0	37.0							
0315	Sem										54.0	63.0							
0316	Sem										33.0	37.0							
0317	unknown										60.0								
0318	Rhi										34.0								
0319	Lim										54.0								
0320	Plo										41.0	45.0							
0321	Rhi										34.0	37.0							
0322	Plo										32.5								
0323	Rhi										34.0								
0324	Elr										34.0	46.0							
0325	Sem										45.5								
0326	Ars										42.0								
0327	unknown										41.0								
0328	Plo										71.0								
0329	Wip										95.0								
0330	Mak										50.0	130.0							
0331	Mak										32.0	107.0							
0332	Lim										43.0	73.0							
0333	Lim										65.0								
0334	Rhi										95.0								
0335	Rhi	1.60									34.0	65.0							
0336	Bij										69.0	70.0							
0337	Plo										107.0	36.0							
0338	Plo										63.0	90.0							
0339	Rhi										107.0	36.0							
0340	Lim										63.0	90.0							
0341	Rhi	0.80		0.70		0.76					32.0	36.0							
0342	Plo										31.0	b	40.0		38.0				
0343	Plo										31.0				30.0 <sup>a</sup>				

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010
0344	Rhi	2.00	2.29	0.72														
0345	Lim	0.90																
0346	Rhi	1.30	1.81	1.86	2.07													
0347	Lim	1.50	1.59															
0348	Lim																	
0349	Plo																	
0350	Rhi																	
0351	Rhi																	
0352	Rhi	0.40	1.02	0.91														
0353	Rhi	0.30	0.40	0.47														
0354	Rhi	2.40																
0355	Bij	17.70	25.46	30.51	32.48	34.14	36.24	38.79	41.11	41.40								
0356	Mak	0.30	1.15	1.16														
0357	Rhi																	
0358	Pib																	
0359	Mak	1.08	1.23	1.50	1.33													
0360	Nes	1.27	1.54															
0361	Nes	2.90	3.76	5.32	6.37	6.82	6.75	7.13										
0362	Nes	2.61	3.60	3.85	3.82													
0363	Nes			0.85	1.08	1.20												
0364	Nes			0.78	1.10	1.21	1.24											
0365	Nes										0.62							
0366	Nes										0.52							
0367	Nes										0.59							
0368	Nes																	
0369	Nes																	
0370	Nes																	
0371	Nes																	
0372	Nes																	
0373	Nes																	
0374	Nes																	
0375	Nes																	
0376	Lim																	
0377	Mak	0.80	2.58	3.63	3.85	3.92	3.83	3.79										
0378	Mak																	

ID	sp	Diameter at breast height (cm)										Height (cm)					
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003
0379	Mak																71.0
0380	Mak																51.5
0381	Mak																44.0
0382	Lim																
0383	Plo																
0384	Pil	18.20	22.09														
0385	Pil_d	12.90															
0386	Rhi	1.60	2.51														
0387	Lim																
0388	Plo																
0389	Rhi	0.50	0.44	0.53	0.52												
0390	Rhi	1.40															
0391	Rhi																
0392	Lim																
0393	Lim																
0394	Lim																
0395	Plo	0.30	0.37	0.42													
0396	Rhi																
0397	Plo																
0398	Plo																
0399	Lim																
0400	Lim																
0401	Rhi																
0402	Plo																
0403	Rhi																
0404	Rhi																
0405	Cau																
0406	Lim																
0407	Plo																
0408	Rhi																
0409	Lim																
0410	Lim																
0411	Mak	1.10	0.88	1.75	16.30	1.71	1.57										
0412	Lim		1.04	1.53	1.46	1.36											

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2010	2015
0413	Plo										34.0	57.0	63.0	67.0				
0414	Rhi										95.0							
0415	Nes																	
0416	Nes																	
0417	Nes																	
0418	Lim																	
0419	Lim																	
0420	Lim																	
0421	Mak																	
0422	Mak																	
0423	unknown																	
0424	Rhi																	
0425	Plo																	
0426	Lim																	
0427	Lim																	
0428	Lim																	
0429	Lim																	
0430	Lim																	
0431	Lim																	
0432	Cau																	
0433	Lim																	
0434	Rhi																	
0435	Rhi																	
0436	Rhi																	
0437	Rhi																	
0438	Rhi																	
0439	Rhi																	
0440	Lim																	
0441	Lim																	
0442	Plo																	
0443	Rhi																	
0444	Rhi																	
0445	Rhi																	
0446	Cau																	
0447	Cau																	

ID	sp	Diameter at breast height (cm)										Height (cm)					
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2010
0448	Cau																125.0
0449	Cau										b						
0450	Cau										b						
0451	Cau										b						
0452	Mak																31.0
0453	Mak																56.0
0454	Mak																41.0
0455	Rhi																62.0
0456	Mak																30.0
0457	Rhi																
0458	Mak																
0459	Mak																
0460	Mak																
0461	Cau										1.13						
0462	Cau										1.09						
0463	Cau										1.04						
0464	Mak																
0465	Scm																
0466	Plo																
0467	Cau											0.92					
0468	Cau											0.97					
0469	Cau											0.99					
0470	Syc	1.40	2.71	3.77	4.78	5.73	5.86	6.11	6.78	6.53							
0471	Plo																
0472	Bij	1.30	3.60	6.05	7.32	6.85	8.15	8.09	7.61	7.13		37.0					
0473	Rhi																
0474	Plo																
0475	Rhi																
0476	Moa																
0477	Pab																
0478	Pab																
0479	Rhi																
0480	Lim																
0481	Lim																
0482	Bij	2.80	6.33	9.11	9.55	9.33	9.43	9.87	10.48	9.52							

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2010	2015
0483	Bij	1.20	2.29	2.80	3.22	3.31	3.64	3.70			90.0	85.0						
0484	Bij	1.20	2.64	3.49	3.73	3.63	3.64	3.70			80.0	130.0						
0485	Lim										58.0							
0486	Lim																	
0487	Sem																	
0488	Bij	1.60	3.44	5.25	6.11	6.34	6.50	6.69	6.56	6.31								
0489	Mab	0.60	1.02															
0490	Rhi	0.60	0.50	0.86	0.94	0.95	1.06											
0491	Rhi										48.0							
0492	Rhi	1.30	0.42 <sup>a</sup>	0.45	0.61	0.54					95.0							
0493	Pil_d	65.30																
0494	Plo																	
0495	Plo																	
0496	Scm	6.10	8.85	11.56	12.77	14.01	14.46	14.84	15.83	15.89								
0497	Scm										89.0	32.0	32.0					
0498	Scm																	
0499	Osi	1.10	1.59	2.86	3.66	4.27	4.39	4.43	5.38	5.99								
0500	Osi																	
0501	Osi	1.60	2.55	4.11	5.19	5.67	5.99	6.05	6.78	6.72								
0502	Osi																	
0503	Plo																	
0504	Rhi																	
0505	Rhi																	
0506	Plo																	
0507	Plo																	
0508	Mak	1.10	1.59	3.44	5.29	6.37	6.82	8.03	9.01	10.57								
0509	Rhi	4.30	5.03	6.05	6.53	7.45	8.15	8.41	9.33	8.95								
0510	Rhi																	
0511	Plo																	
0512	Rhi																	
0513	Rhi	1.00	1.24	1.22	1.43	1.40	0.40	0.38										
0514	Plo																	
0515	Pib	1.60	1.97	2.24	2.64													
0516	Pib																	
0517	Osi	1.00	2.29	2.88	3.76	<sup>b</sup>	4.46	4.63	6.08	6.21								

ID	sp	Diameter at breast height (cm)										Height (cm)					
		1984	1987	1990	1995	1998	2000	2003	2010	2015	57.0	100.0	1984	1987	1990	1995	1998
0518	Rhi																
0519	Rhi	0.60															
0520	Plo																
0521	Rhi	2.70	3.50	3.84	4.30												
0522	Rhi																
0523	Rhi																
0524	Nes	2.30	1.53	2.55	2.71	2.52	2.49										
0525	Nes		2.61	1.16	1.24												
0526	Nes				0.74	0.78											
0527	Nes				0.70	0.40											
0528	Osi	0.90	1.81	1.97	2.39	2.90	3.11	3.28	3.76	3.96							
0529	Osi																
0530	Scm	4.70	6.30	7.52	8.92	9.81	10.70	11.72	13.60	14.81							
0531	Scm		2.07	3.79	6.02	7.96	8.98	11.02	13.76	14.71							
0532	Rhi	1.20	1.40														
0533	Bij	1.69	1.79	2.32	1.85	0.99											
0534	Mab																
0535	Scm																
0536	Plo																
0537	Plo	0.60	0.80	0.57	0.87	0.89											
0538	Rhi																
0539	Plo																
0540	Plo																
0541	Ars																
0542	Nes																
0543	Nes																
0544	Nes																
0545	Rhi																
0546	Pab																
0547	Pab																
0548	Pab																
0549	Pab																
0550	Pab																
0551	Pab																

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
0552	Pab			11.37	10.22	10.35	12.10	12.04	11.05	10.99									
0553	Osi																		36.0
0554	Plo																		43.0
0555	Osi																		33.0
0556	Osi																		34.0
0557	Rhi																		59.0
0558	Rhi																		58.0
0559	Rhi																		34.0
0560	Nes																		81.0
0561	Rhi																		102.0
0562	Bij	1.50	2.42	2.42							0.76	1.37	2.22	2.43					50.0
0563	Osi										3.32	3.35	3.48						48.0
0564	Bij																		
0565	Psg																		32.0
0566	Rhi																		31.0
0567	Rhi																		31.0
0568	Nes																		33.0
0569	Nes																		90.0
0570	Nes																		93.0
0571	Nes																		95.0
0572	Nes																		88.0
0573	Rhi																		62.0
0574	Rhi																		
0575	Osi																		
0576	Plo																		
0577	Osi																		
0578	Nes																		
0579	Rhi																		
0580	Bij	2.40	4.46	5.35	4.24						0.29								
0581	Plo																		
0582	Rhi																		
0583	Pab																		
0584	Rhi																		
0585	Lim																		
0586	Rhi																		

ID	sp	Rhi	Diameter at breast height (cm)						Height (cm)											
			1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
0587	Rhi											97.0	110.0	118.0	122.0	55.0				
0588	Scm	Scm	0.40	0.64	0.84	1.56	1.55	1.51				100.0								
0589	Rhi											73.0	55.0 <sup>a</sup>							47.0
0590	Bij		1.80	3.47	4.71	5.06	5.61	7.01	8.47	8.98	8.79									
0591	Bij		2.90	5.03	7.17	7.42	7.52	7.64	7.52	7.52	7.39									
0592	Bij		1.70	2.86	3.47	3.34	3.31	3.22	3.36	2.73										
0593	Bij																			
0594	Plo																		50.0	
0595	Rhi		4.50	5.41	6.18	6.53	7.29	7.83	8.22											
0596	Rhi		2.80	3.15	3.44	3.34	3.38	3.50	3.50											
0597	Rhi																			
0598	Rhi																			
0599	Bij		2.50	4.58	5.96	6.02	5.86	5.86	5.92	5.83	5.70									
0600	Rhi																			
0601	Plo																			
0602	Pab																			
0603	Pab																			
0604	Rhi		7.20	7.35	8.38															
0605	Cic		17.00	17.41	19.52	21.82	22.45	22.48	23.25	25.16	28.41									
0606	Rhi			0.50	0.51	0.69	1.80	1.20	1.19											
0607	Plo																			
0608	Rhi		0.60	0.70	0.73															
0609	Pab																			
0610	Rhi		0.70	0.90	0.89	1.00	1.35	1.84	1.79											
0611	Lim																			
0612	Lim																			
0613	Lim																			
0614	Lim																			
0615	Rhi																			
0616	Pab																			
0617	Rhi																			
0618	Lim																			
0619	Rhi																			
0620	Rhi																			
0621	Rhi																			



ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
0657	Plo																		
0658	Rhi																		
0659	Sem																		
0660	Pab																		
0661	Rhi																		
0662	Rhi																		
0663	Sem																		
0664	Rhi																		
0665	Osi																		
0666	Sem																		
0667	Ars																		
0668	Mak																		
0669	Lim																		
0670	Rhi																		
0671	Rhi																		
0672	Bij	6.10	7.64	7.80	7.80	7.74	7.71	7.71											
0673	Plo																		
0674	Plo																		
0675	Rhi																		
0676	Rhi	1.70	1.59																
0677	Rhi	0.50	0.86																
0678	Pil_d	41.30																	
0679	Rhi																		
0680	Osi																		
0681	Plo	0.50	0.58	0.56	0.66														
0682	Bij	1.20	3.44	4.46	4.71	4.52	4.71	4.84	4.62	4.61									
0683	Bij			1.37															
0684	Lim			0.30				0.76	0.74										
0685	Rhi																		
0686	Plo																		
0687	Sem	0.50	1.06	1.75	2.10	2.09	2.43	1.96											
0688	Sem																		
0689	Rhi																		
0690	Rhi																		

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010
0691	Rhi	0.30	0.60	0.76	0.88	0.92	0.86				72.0	124.0						
0692	Lim			0.24														
0693	Bij	4.30	7.32	9.08	9.75	9.84	10.25	10.64	10.45	10.16	80.0	110.0	110.0	126.0	122.0			
0694	Bij	4.70	8.28	11.46	14.01	14.87	15.99	17.52	19.24	20.13	86.0	118.0	110.0	130.0	120.0			
0695	Lim																	
0696	Rhi	0.50	0.34	0.54	0.61						112.0	120.0	100.0	111.0	40.0	89.0	126.0 <sup>a</sup>	78.0 <sup>a</sup>
0697	Rhi																	
0698	Rhi																	
0699	Rhi	0.40	0.50	0.62	0.76	0.70	0.78				90.0	100.0	105.0	107.0	106.0			
0700	Rhi																	
0701	Rhi	0.80	0.83	1.06	1.21	1.24	1.31	1.34	1.53		96.0	75.0	80.0					
0702	Plo										105.0	128.0						
0703	Rhi																	
0704	Lim	0.30	<sup>b</sup>	<sup>b</sup>	0.27	0.40	0.38	0.39			65.0	54.0	53.0	42.0				
0705	Plo											32.0	59.0	65.0	33.0 <sup>a</sup>			
0706	Lim											59.0	107.0	125.0	125.0	55.0		
0707	Plo																	
0708	Bij	7.60	12.03	14.71	16.24	16.82	18.28	21.66	23.38	25.70	60.0	110.0						
0709	Lim											61.0	68.0	48.0				
0710	Tas											75.0	110.0	110.0				
0711	Rhi											55.0	73.0	80.0	101.0	97.0		
0712	Rhi											51.0	64.0	67.0	75.0			
0713	Plo												31.0	57.0	67.0	30.0 <sup>a</sup>		
0714	Plo												30.0	57.0	59.0	51.0		
0715	Plo												30.0	33.0	32.0			
0716	Plo												54.0	123.0				
0717	Lim												63.0	118.0	127.0	105.0	123.0	56.0 <sup>a</sup>
0718	Rhi												74.0	100.0	114.0	112.0	112.0	59.5 <sup>a</sup>
0719	Plo												53.0	75.0	90.0	100.0	110.0	119.0
0720	Rhi												44.0	54.0	57.0			
0721	Plo												61.0					
0722	Lim												58.0	100.0	115.0	119.0	<sup>b</sup>	127.0
0723	Ars												46.0	64.0	70.0	38.0		
0724	Plo																	

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	
0725	Plo										77.0	122.0							
0726	Syc	0.40	0.97	1.43	1.46	1.49	1.60	2.04	2.07	116.0									
0727	Rhi	0.33	0.45	0.48							64.0	120.0							
0728	Plo										45.0	44.0	57.0	68.0	34.0 <sup>a</sup>	43.0	47.0		
0729	Plo										78.0	83.0	90.0	33.0 <sup>a</sup>					
0730	Rhi										31.0	36.0	44.0	30.0	34.0				
0731	Lim	0.70	1.17	1.40	1.50	1.40					97.0								
0732	Lim										69.0	86.0	95.0	58.0 <sup>a</sup>					
0733	Lim										65.0	68.0							
0734	Scm	1.02	3.31	5.06	5.80	6.11	6.37	6.94	6.94	120.0									
0735	Scm																		
0736	Plo										92.0								
0737	Scm										107.0								
0738	Rhi	0.20									90.0								
0739	Rhi										75.0								
0740	Lim										53.0	40.0	55.0						
0741	Lim										78.0	70.0	80.0						
0742	Lim										81.0	65.0	105.0	119.0					
0743	Lim	0.26	0.24											98.0 <sup>a</sup>					
0744	Lim													69.0	50.0 <sup>a</sup>				
0745	Plo										106.0	60.0	50.0						
0746	Lim										101.0								
0747	Rhi	0.60										120.0 <sup>a</sup>							
0748	Rhi											125.0	120.0 <sup>a</sup>						
0749	Lim	2.50	3.18	3.34	3.31	3.38	3.44	3.53	3.45		103.0	100.0	126.0	59.0 <sup>a</sup>	74.0	114.0			
0750	Rhi																		
0751	Plo																		
0752	Lim	0.37	0.48	0.68	0.56	0.58													
0753	Plo																		
0754	Bij	3.00	4.46	5.48	5.73	5.80	5.80	5.86	5.45										
0755	Lim																		
0756	Lim																		
0757	Rhi																		

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2010	2015
0758	Rhi	3.80	4.81	5.35	4.46	6.50	6.31	6.62	6.66		45.0	50.0	55.0	37.0 <sup>a</sup>	34.0	36.0	42.0	
0759	Rhi			2.83	2.87	2.83	2.80	2.89			68.0	100.0	110.0	33.0 <sup>a</sup>	49.0	56.0	73.0	
0760	Plo										63.0	50.0	80.0	83.0				
0761	Plo																	
0762	Rhi																	
0763	Plo																	
0764	Rhi																	
0765	Rhi																	
0766	Rhi																	
0767	Rhi																	
0768	Lim																	
0769	Lim																	
0770	Lim																	
0771	Eub																	
0772	Plo																	
0773	Lim																	
0774	Lim																	
0775	Lim																	
0776	Plo																	
0777	Lim																	
0778	Rhi																	
0779	Eub																	
0780	Eub																	
0781	Eub																	
0782	Plo																	
0783	Lim																	
0784	Rhi																	
0785	Rhi																	
0786	Lim																	
0787	Rhi																	
0788	Scm																	
0789	Plo																	
0790	Plo																	

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
0791	Rhi	0.70	0.88	1.03	1.40	1.41	1.42				45.0	50.0							
0792	Lim										30.0	60.0							
0793	Lim										67.0	58.0	85.0 <sup>a</sup>	90.0					
0794	Rhi																		
0795	Lim																		
0796	Lim																		
0797	Rhi																		
0798	Plo																		
0799	Lim																		
0800	Lim																		
0801	Ars																		
0802	Lim																		
0803	Lim																		
0804	Lim																		
0805	Lim																		
0806	Rhi																		
0807	Rhi																		
0808	Rhi																		
0809	Rhi																		
0810	Rhi																		
0811	Rhi																		
0812	Rhi																		
0813	Rhi																		
0814	Rhi																		
0815	Plo																		
0816	Rhi																		
0817	Rhi																		
0818	Lim																		
0819	Rhi																		
0820	Lim																		
0821	Sem																		
0822	Lim																		
0823	Lim																		
0824	unknown																		
0825	Lim																		

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
0826	unknown																		
0827	unknown																		
0828	Rhi																		
0829	Ars																		
0830	Rhi																		
0831	Rhi																		
0832	Rhi																		
0833	Lim																		
0834	Rhi																		
0835	Rhi																		
0836	Lim																		
0837	Plo																		
0838	Rhi																		
0839	Rhi																		
0840	Rhi																		
0841	Rhi										0.71								
0842	Rhi																		
0843	Plo																		
0844	Scm																		
0845	Ars																		
0846	Ars																		
0847	Ars																		
0848	Ars																		
0849	Mak																		
0850	Mak																		
0851	Ars	0.80	1.72	1.81	1.85	1.66	1.80	1.81	2.05										
0852	Ars				1.28	1.34	1.32	1.56	1.59	1.82									
0853	Ars				1.01	1.15	1.12	1.19	1.24	1.18									
0854	Lim																		
0855	Osi				0.33	1.04	1.75	2.14	2.43	3.37	3.84	35.0	30.0						
0856	Osi											56.0	96.0						
0857	Plo																		
0858	Lim				0.33	0.62	0.93	1.03	0.97	1.10		47.0							
0859	Rhi								0.44			54.0	103.0						
0860	Rhi								0.59			70.0	107.0	126.0	128.0	125.0			
												76.0	98.0	116.0	120.0	130.0			

ID	sp	Diameter at breast height (cm)										Height (cm)								
		1984	1987	1990	1995	1998	2000	2003	2005	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
0861	Rhi											42.0	69.0	62.0	31.0 <sup>a</sup>					
0862	Lim	0.30	1.19	1.85	2.10	2.06	2.13	1.99				65.0								
0863	Rhi											42.0	51.0	62.0	64.0					
0864	Rhi											82.0	115.0	130.0						
0865	Rhi											94.0	128.0							
0866	Rhi											106.0	106.0							
0867	Rhi	0.30	0.60	0.67	0.52	0.55						66.0	85.0							
0868	Lim											44.0								
0869	Scm											81.0	86.0	95.0	73.0 <sup>a</sup>	60.0	76.0			
0870	Rhi											43.0								
0871	Eub											80.0								
0872	Rhi											73.0								
0873	Rhi											95.0								
0874	Osi		0.88																	
0875	Rhi											70.0	75.0	110.0	119.0	108.0	112.0			
0876	Bij	3.21	5.41	8.79	10.29	11.59	13.31	15.03	16.43			98.0								
0877	Bij	1.20	3.18	4.55	5.61	5.41	5.99	5.86	6.05	5.86										
0878	Plo											38.0								
0879	Rhi											32.0								
0880	Ars	3.60	5.44	6.66	7.04	7.39	0.84	7.58	7.93	7.93										
0881	Ars											1.56	b	1.86						
0882	Ars											0.82	b	1.05						
0883	Ars											0.87	b	0.80						
0884	Ars											2.37	b	2.37						
0885	Ars																			
0886	Ars																			
0887	Bij	1.40	2.04	1.94	1.69															
0888	Lim											60.0								
0889	Plo											40.0								
0890	Scm											80.0	130.0							
0891	Ars											70.0	84.0	96.0	99.0	73.0				
0892	Rhi											117.0								
0893	Ars											33.0								
0894	Rhi											60.0								

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010
0895	Ars		b	0.77		0.92	0.93	0.98	1.00	71.0								
0896	Rhi									34.0								
0897	Ars	0.80	1.38	1.35	1.50	1.46	1.46	0.95		72.0								
0898	Rhi		b	0.39						107.0								
0899	Plo									80.0								
0900	Rhi									48.0								
0901	Rhi									84.0								
0902	Mak	0.99	1.68	1.91	1.94	1.87	1.95			95.0								
0903	Rhi	3.80	3.85	3.92	2.77													
0904	Rhi																	
0905	Plo																	
0906	Rhi	0.40	0.89															
0907	Lim																	
0908	Lim																	
0909	Rhi	0.30	0.99	1.21	1.40	1.56												
0910	Ars																	
0911	Plo																	
0912	Cip																	
0913	Rhi	0.40	1.18	1.45	1.59		b	1.47										
0914	Nes																	
0915	Nes																	
0916	Lim																	
0917	Lim																	
0918	Lim																	
0919	Rhi	0.50	0.77	0.93	0.95	0.93	0.85											
0920	Mak																	
0921	Rhi																	
0922	Plo																	
0923	Lim																	
0924	Mak	0.70	1.61	2.29	2.71	2.72	2.72	3.13	3.17									
0925	Lim																	
0926	Rhi																	
0927	Plo																	
0928	Lim																	

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2010	2015
0929	Rhi	-	-	0.31	0.40	0.38	0.43	-	-	-	87.0	113.0	-	-	-	-	-	-
0930	Plo	-	-	-	-	-	-	-	-	-	58.0	100.0	105.0	36.0 <sup>a</sup>	-	-	-	-
0931	Plo	b	0.75	1.15	1.25	1.31	1.22	-	-	-	74.0	72.0	75.0	-	-	-	-	-
0932	Rhi	b	0.44	0.53	0.52	0.76	-	-	-	-	56.0	-	-	-	-	-	-	-
0933	Lim	b	0.44	0.53	0.52	0.76	-	-	-	-	84.0	-	-	-	-	-	-	-
0934	Plo	-	-	-	-	-	-	-	-	-	46.0	-	-	-	-	-	-	-
0935	Rhi	-	-	0.41	0.45	0.57	0.66	-	-	-	72.0	125.0	-	-	-	-	-	-
0936	Rhi	-	-	-	-	-	-	-	-	-	102.0	-	-	-	-	-	-	-
0937	Lim	-	-	-	-	-	-	-	-	-	70.0	63.0	116.0	109.0	-	-	-	-
0938	Rhi	-	-	-	-	-	-	-	-	-	70.0	95.0	126.0	118.0	118.0	-	-	-
0939	Lim	-	-	0.61	0.67	0.61	-	-	-	-	82.0	122.0	-	-	44.0 <sup>a</sup>	-	-	-
0940	Lim	-	-	-	-	-	-	-	-	-	41.0	50.0	-	-	-	-	-	-
0941	Plo	-	-	-	-	-	-	-	-	-	30.0	-	-	-	-	-	-	-
0942	Cas	pil_d	93.60	2.30	2.58	2.80	2.80	-	-	-	34.0	-	-	-	-	-	-	-
0943	-	-	-	-	-	-	-	-	-	-	88.0	-	-	-	-	-	-	-
0944	Lim	-	-	-	-	-	-	-	-	-	46.0	83.0	94.0	100.0	-	-	-	-
0945	Lim	-	-	-	-	-	-	-	-	-	83.0	-	-	-	-	-	-	-
0946	Mak	-	-	0.95	1.00	-	-	-	-	-	51.0	-	-	-	-	-	-	-
0947	Rhi	-	-	-	-	1.23	-	-	-	-	83.0	-	-	-	-	-	-	-
0948	Rhi	-	-	-	-	-	-	-	-	-	46.0	83.0	94.0	100.0	-	-	-	-
0949	Scm	-	-	-	-	-	-	-	-	-	51.0	-	-	-	-	-	-	-
0950	Plo	-	-	-	-	-	-	-	-	-	51.0	47.0	-	-	-	-	-	-
0951	Lim	-	-	-	-	-	-	-	-	-	51.0	47.0	-	-	-	-	-	-
0952	Ars	-	-	-	-	-	-	-	-	-	30.0	30.0	-	-	-	-	-	-
0953	Lim	-	-	-	-	-	-	-	-	-	32.0	32.0	-	-	-	-	-	-
0954	Rhi	-	-	-	-	-	-	-	-	-	39.0	37.0	-	-	-	-	-	-
0955	Rhi	-	-	-	-	-	-	-	-	-	60.0	-	-	-	-	-	-	-
0956	Rhi	-	-	-	-	-	-	-	-	-	50.0	-	-	-	-	-	-	-
0957	Pab	-	-	-	-	-	-	-	-	-	80.0	74.0	75.0	86.0	82.0	-	-	-
0958	Pab	-	-	-	-	-	-	-	-	-	70.0	62.0	96.0	110.0	104.0	-	-	-
0959	Bij	2.67	1.69	2.23	2.20	2.19	2.20	2.35	-	-	95.0	-	-	-	-	-	-	-
0960	Rhi	-	-	-	-	-	-	-	-	-	34.0	52.0	67.0	69.0	-	-	-	-
0961	Lim	-	-	-	-	-	-	-	-	-	53.0	-	-	-	-	-	-	-
0962	Plo	-	-	-	-	-	-	-	-	-	31.0	-	-	-	-	-	-	-
0963	Osi	-	-	-	-	-	-	-	-	-	60.0	-	-	-	-	-	-	-

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
0964	Rhi															41.0	58.0	63.0	
0965	Rhi															38.0			
0966	Rhi															30.0	35.0		
0967	Rhi															46.0	46.0		
0968	Plo															32.0			
0969	Lim															53.0	46.0		
0970	Rhi																		
0971	Rhi																		
0972	Rhi																		
0973	Ars																		
0974	Lim																		
0975	Sem																		
0976	Plo																		
0977	Elr																		
0978	Mak																		
0979	Sem																		
0980	Sem																		
0981	Ars																		
0982	Plo																		
0983	Syc	0.20	0.76	0.95	1.50	1.82	1.66	1.82	1.97	2.01									
0984	Bij	2.30	3.79	4.62	4.90	4.71	4.71	4.71											
0985	Bij	2.00	3.98	5.80	6.94	7.26	7.96	8.79	9.01	9.55									
0986	Osi																		
0987	Bij	2.20	3.98	6.53	7.07	7.17	7.83	9.24	10.35	10.76									
0988	Bij																		
0989	Lim	0.30	0.51	0.86	1.27	1.33	1.42	1.34											
0990	Osi																		
0991	Rhi																		
0992	Osi	1.24	1.55	2.77	4.01	4.29	5.16	6.62	6.85	2.28									
0993	Osi																		
0994	Bij	2.20	5.32	8.92	11.15	11.78	13.63	16.94	19.71	22.29									
0995	Bij	3.37	b	3.63															
0996	Lim																		
0997	Rhi	14.50	14.58	15.13	15.45	15.40	15.35	15.35	15.35										
0998	Bij	3.00	4.52	4.84	4.94	4.94	5.10	5.13	4.90	4.90									

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2010	2015
0999	Bij	2.50	4.58	5.57	5.61	5.54	5.80	5.86	5.89	5.86	90.0							
1000	Bij	0.92	0.74	1.50							90.0							
1001	Nes	0.60	1.11	0.43	1.12	1.37					120.0							
1002	Nes			0.44	0.89	1.33	1.41											
1003	Bij	1.37									100.0							
1004	Rhi										40.0							
1005	Bij	2.10	4.07	5.41	5.73	5.73	5.90	5.97	5.73	5.16								
1006	Bij	2.50	4.87	5.57	5.61	5.70	5.67	5.73	5.57	5.41								
1007	Bij	2.40	6.59	9.20	10.35	10.51	11.34	12.29	12.83	13.18								
1008	Bij	1.40	5.35	1.75	2.36	2.36	2.40	2.23	2.15	80.0								
1009	Bij	2.86	3.57	3.95	4.20	4.71	4.71	4.90	4.60	120.0								
1010	Rhi				0.43					70.0								
1011	Bij									67.0								
1012	Cas	1.18	1.22	0.71 <sup>a</sup>	1.07	1.09	1.26			130.0								
1013	Bij	1.72								120.0								
1014	Mak	0.50	2.29	2.48	3.18	3.63	3.58	3.58	3.85	4.07								
1015	Mak																	
1016	Mak																	
1017	Mak																	
1018	Rhi	0.30	0.40	0.57	0.72	0.95	1.09	0.88 <sup>a</sup>										
1019	Lim		0.70	1.00	1.14	1.33	1.34	1.35			100.0							
1020	Bij	3.10	6.05	8.92	9.65	9.71	10.06	10.76	10.61	10.86								
1021	Rhi			0.31	0.85	1.43	1.47	1.57	2.11		120.0							
1022	Bij	1.60	4.14	6.46	7.36	7.71	8.09	9.62										
1023	Pab																	
1024	Lic	18.60	18.40	18.22	18.28	17.58	17.58	17.64	17.45									
1025	Bij	3.80	6.14	5.51	9.39	9.62	10.06	10.19	9.87	9.65								
1026	Sem																	
1027	Bij	2.55	3.25	3.44	3.57	3.68	3.72	3.92	3.92									
1028	Plo	19.10	19.43	19.90	19.43	19.17												
1029	Plo	13.37	13.28	13.28	13.44	13.57	13.57											
1030	Rhi																	
1031	Lim																	
1032	Rhi																	
1033	Ars																	

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1034	Ars										32.0	33.0	34.0	45.0					65.0
1035	Ars										32.0	50.0	45.0	52.0	53.0				
1036	Rhi										32.0	40.0	49.0	71.0	81.0	69.0			
1037	Rhi										32.0	40.0	49.0	71.0	81.0	69.0			
1038	Rhi										32.0	34.0	60.0						
1039	Mak										32.0	33.0	34.0	45.0					
1040	Plo										32.0	37.0	50.0	63.0	38.0				
1041	Pab										32.0	37.0	51.0	62.0	65.0				
1042	Wip										32.0	37.0	51.0	50.0					
1043	Plo										32.0	37.0	51.0	62.0	65.0				
1044	Rhi										32.0	37.0	51.0	62.0	65.0				
1045	Osi										32.0	37.0	51.0	62.0	65.0				
1046	Wip										32.0	37.0	51.0	50.0					
1047	Rhi										32.0	37.0	51.0	62.0	65.0				
1048	Rhi										32.0	37.0	51.0	62.0	65.0				
1049	Plo										32.0	37.0	51.0	50.0					
1050	Rhi										32.0	37.0	51.0	50.0					
1051	Wip										32.0	37.0	51.0	62.0	65.0				
1052	Rhi										32.0	37.0	51.0	62.0	65.0				
1053	Rhi										32.0	37.0	51.0	62.0	65.0				
1054	Lim										32.0	37.0	51.0	62.0	65.0				
1055	Rhi										32.0	37.0	51.0	62.0	65.0				
1056	Scm										32.0	37.0	51.0	62.0	65.0				
1057	Scm										32.0	37.0	51.0	62.0	65.0				
1058	Rhi										32.0	37.0	51.0	62.0	65.0				
1059	Rhi										32.0	37.0	51.0	62.0	65.0				
1060	Rhi										32.0	37.0	51.0	62.0	65.0				
1061	Lim										32.0	37.0	51.0	62.0	65.0				
1062	Scm										32.0	37.0	51.0	62.0	65.0				
1063	Lim										32.0	37.0	51.0	62.0	65.0				
1064	Elr										32.0	37.0	51.0	62.0	65.0				
1065	Elr										32.0	37.0	51.0	62.0	65.0				
1066	Mak										32.0	37.0	51.0	62.0	65.0				
1067	Nes										32.0	37.0	51.0	62.0	65.0				
1068	Scm										32.0	37.0	51.0	62.0	65.0				

ID	sp	Diameter at breast height (cm)										Height (cm)								
		1984	1987	1990	1995	1998	2000	2003	2010	2015	2.79	1984	1987	1990	1995	1998	2000	2003	2010	2015
1069	Bij											34.0	51.0	59.0	77.0	114.0				
1070	Rhi											46.0	84.0	90.0						
1071	Rhi											60.0								
1072	Ars																			
1073	Pab																			
1074	Bij	3.30	6.68	8.82	9.01	8.85	9.11	9.17	9.14	8.92										
1075	Bij		3.50																	
1076	Bij		2.90																	
1077	Lim		0.60	0.89	1.50	2.07	2.25	2.31	2.57	2.73	73.0									
1078	Rhi		0.40																	
1079	Rhi																			
1080	Bij	2.00	5.47	8.15	9.39	9.68	10.38	11.21	11.11	11.15										
1081	Ars																			
1082	Moa	0.50	0.84	0.53	0.98	1.43	1.52	1.53	1.51	1.51	80.0									
1083	Moa		0.56																	
1084	Rhi	0.50	0.70	1.00	1.69	2.32	2.43	2.57	2.90	2.90										
1085	Rhi		0.63	0.71	0.74	0.77														
1086	Bij	1.90	4.58	4.52	4.65	4.97	5.10	5.16	5.06											
1087	Bij	5.10	8.40	9.55	9.78	9.24	9.36	9.62	9.52	9.24										
1088	Bij																			
1089	Rhi																			
1090	Plo																			
1091	Lim																			
1092	Pab																			
1093	Lim																			
1094	Rhi																			
1095	Plo																			
1096	Lim																			
1097	Cip																			
1098	Elp	1.10	1.43	1.36	1.82	2.29	2.32	0.19												
1099	Rhi																			
1100	Lim																			
1101	Rhi																			
1102	Rhi																			
1103	Lim																			

ID	sp	Bij	Diameter at breast height (cm)										Height (cm)								
			1984	1987	1990	1995	1998	2000	2003	2005	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1104		2.90											45.0	50.0	55.0	b	34.0 <sup>a</sup>	70.0	69.0		
1105	Lim	Bij											58.0	38.0							
1106	Lim												38.0								
1107	Lim																				
1108	Bij	2.10	3.69	4.11	3.76	3.76	3.82	4.14	3.66				61.0	67.0	75.0	56.0	53.0	53.0	46.0		
1109	Plo												0.53	0.63							
1110	Lim																				
1111	Lim																				
1112	Cip																				
1113	Cip																				
1114	Cip																				
1115	Rhi																				
1116	Plo																				
1117	Rhi	0.30	0.38		0.30	0.43		0.55	0.49				0.47								
1118	Lim																				
1119	Lim																				
1120	Rhi	0.30	0.47	0.73	1.28																
1121	Rhi																				
1122	Plo																				
1123	Lim																				
1124	Lim																				
1125	Pab																				
1126	Pab																				
1127	Rhi																				
1128	Scm	0.90	2.07	2.61	4.27	5.64	6.62	8.28	9.17	12.29											
1129	Rhi	0.70	0.73	0.89	1.25	1.36	1.30														
1130	Rhi																				
1131	Bij																				
1132	Rhi																				
1133	Bij	6.10	9.23	10.13	10.32	10.25	10.06	10.32	10.03												
1134	Bij		6.81	9.01	9.39																
1135	Bij		9.68	12.61	14.24	14.33	14.08	15.29	16.53	16.78											
1136	Bij		8.94	10.89	10.92	10.83	11.34	11.97	12.64	12.61											
1137	Ars																				

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1138	Ars										103.0	101.0	110.0	123.0	118.0	120.0			
1139	Rhi										44.0	50.0							
1140	Lim										32.0	42.0	76.0	105.0					
1141	Osi										30.0								
1142	Plo										43.0	b	53.0 <sup>a</sup>	46.0	46.0				
1143	Rhi										43.0								
1144	Pab										31.0	53.0	53.0						
1145	Pab										32.0	73.0	100.0	111.0	71.0 <sup>a</sup>				
1146	Pab										63.0	79.0	86.0						
1147	Wip										59.0	85.0	87.0	118.0					
1148	Rhi										35.0	50.0	50.0						
1149	Scm										44.0	54.0	53.0	59.0					
1150	Scm										63.0	86.0	92.0	112.0					
1151	Rhi										33.0	53.0							
1152	Rhi										30.0								
1153	Rhi										30.0								
1154	Scm										43.0	50.0	54.0	59.0					
1155	Rhi										38.0	50.0	54.0						
1156	Scm										37.0	52.0							
1157	Rhi										32.0								
1158	Rhi										30.0	46.0	69.0						
1159	Rhi										39.0	54.0	58.0						
1160	Rhi										49.0	53.0							
1161	Rhi										35.0	40.0							
1162	Rhi										37.0	63.0	63.0	64.0					
1163	Rhi										43.0	61.0							
1164	Rhi										34.0	33.0							
1165	Rhi										37.0								
1166	Rhi										43.0								
1167	Rhi										37.0								
1168	Plo										37.0								
1169	Rhi										43.0								
1170	Rhi										34.0								
1171	Rhi										37.0	49.0							
1172	Rhi																		

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1173	Nes															31.0	44.0	65.0	
1174	Rhi															30.0	30.0		
1175	Rhi															30.0	36.0	44.0	
1176	Rhi															32.0	31.0		
1177	Ceb															32.0			
1178	Rhi															32.0			
1179	Rhi															33.0			
1180	Rhi															33.0			
1181	Plo															33.0			
1182	Bij															33.0			
1183	Rhi															33.0			
1184	unknown															33.0			
1185	Nes															33.0			
1186	Rhi															33.0			
1187	Rhi															33.0			
1188	Plo															33.0			
1189	Plo															33.0			
1190	Rhi															33.0			
1191	Lim															33.0			
1192	Lim															33.0			
1193	Lim															33.0			
1194	Lim															33.0			
1195	Lim															33.0			
1196	Lim															33.0			
1197	Scm															33.0			
1198	Bij	3.30														33.0			
1199	Lim															33.0			
1200	Bij															33.0			
1201	Ars															33.0			
1202	Bij															33.0			
1203	Rhi	0.30														33.0			
1204	Plo	29.50														33.0			
1205	Rhi	13.50														33.0			
1206	Lim	0.20														33.0			
1207	Bij	2.00														33.0			

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010
1208	Bij	1.40	3.09	2.96	3.15	3.50	3.88	4.01	3.84	3.82								
1209	Rhi	11.80	12.32	12.74	12.32	20.70	20.70	20.83	17.20	18.15								
1210	Rhi															92.0	93.0	
1211	Rhi															96.0	91.0 <sup>a</sup>	
1212	Rhi	10.80		<sup>b</sup> 11.88														
1213	Bij	1.90	4.52	6.05	6.27	6.37	6.43	6.37	6.27									
1214	Bij																	
1215	Lim																	
1216	Lim																	
1217	Pab																	
1218	Rhi																	
1219	Lim																	
1220	Lim																	
1221	Lim																	
1222	Lim																	
1223	Lim																	
1224	Plo																	
1225	Ars	3.10	4.62	4.78	4.78	4.84	5.03	5.10	0.72									
1226	Ars																	
1227	Lim																	
1228	Lim																	
1229	Rhi																	
1230	Lim																	
1231	Pab																	
1232	Lim																	
1233	Mak	0.64	0.98	1.34	1.78	1.96	2.03	2.15										
1234	Lim																	
1235	Bij	5.70	8.02	9.94	11.21	11.53	12.04	12.74	13.12	12.87								
1236	Rhi																	
1237	Lim																	
1238	Cip																	
1239	Lim																	
1240	Lim																	
1241	Lim																	

ID	sp	Diameter at breast height (cm)										Height (cm)								
		1984	1987	1990	1995	1998	2000	2003	2005	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1242	Lim											68.0								
1243	Lim											51.0								
1244	Lim											45.0								
1245	Lim											40.0								
1246	Lim											30.0								
1247	Lim											35.0								
1248	Rhi											38.0								
1249	Lim											40.0								
1250	Rhi											47.0								
1251	Lim											35.0								
1252	Lim											32.0								
1253	Bij											33.0								
1254	Bij											85.0								
1255	Pab											118.0								
1256	Pab											82.0								
1257	Rhi											31.0								
1258	Scm											40.0								
1259	Rhi											64.0								
1260	Plo											32.0								
1261	Rhi											44.0								
1262	Rhi											37.0								
1263	Psl											32.0								
1264	Psl											34.0								
1265	Rhi											36.0								
1266	Cau											116.0								
1267	Rhi											128.0								
1268	Lim											44.0								
1269	Hig											45.0								
1270	Lim											41.0								
1271	Hig											53.0								
1272	Rhi											37.0								
1273	Hig											60.0								
1274	Hig											46.0								
1275	Rhi											33.0								
1276	Rhi											37.0								
1277	Osi											32.0								

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1278	Rhi																	34.0	
1279	Rhi																	39.0	
1280	Rhi																	31.0	36.0
1281	Rhi																	34.0	
1282	Wip																		
1283	Osi																		
1284	Rhi																		
1285	Rhi																		
1286	Rhi																		
1287	Rhi																		
1288	Rhi																		
1289	Rhi																		
1290	Lim																		
1291	Cip																		
1292	Psl																		
1293	Rhi																		
1294	Ars																		
1295	Plo																		
1296	Rhi																		
1297	Rhi																		
1298	Bij																		
1299	Lim																		
1300	Lim																		
1301	Lim																		
1302	Lim																		
1303	Hig																		
1304	Lim																		
1305	Osi																		
1306	unknown																		
1307	Nes																		
1308	Rhi																		
1309	Lim																		
1310	Osi																		
1311	Rhi																		
1312	Rhi																		

ID	sp	Diameter at breast height (cm)										Height (cm)					
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003
1313	Rhi															31.0	34.0
1314	Rhi															32.0	32.0
1315	Moa															53.0	46.5
1316	Hig															80.0	80.0
1317	Lim															32.0	32.0
1318	Lim															61.0	61.0
1319	Rhi															33.0	33.0
1320	Nes															81.0	81.0
1321	Plo															40.0	40.0
1322	Plo															70.0	70.0
1323	Osi															55.0	55.0
1324	Osi															70.0	70.0
1325	Mak																
1326	Plo	15.50	16.55	16.78	17.04	17.58	17.83	18.15	19.87	21.34							
1327	Osi															79.0	79.0
1328	Bij	3.00	4.97	5.67	5.45	5.48	5.54	5.22									
1329	Bij	3.20	7.64	11.15	13.57	13.69	14.33	17.07	18.12	19.46							
1330	Bij	2.80	6.37	8.44	9.87	10.51	10.96	11.53	11.91	11.72							
1331	Rhi	8.50	9.29	9.65	10.06	10.38	10.51	10.51									
1332	Rhi	6.50	6.30	6.21	6.31	6.18	6.11	6.11	7.32	8.54							
1333	Bij	25.00	25.72	25.48	25.96	26.85	27.32	27.39	28.06	27.87							
1334	Bij																
1335	Bij																
1336	Lim																
1337	Bij	1.00	2.55	3.01	3.66	4.01	4.27	4.03	4.68							44.0	60.0
1338	Plo																
1339	Mab																
1340	Bij	1.80	3.50	4.46	4.59	4.55	4.65	4.71								53.0	41.5
1341	Bij		2.86	3.60	3.79	3.85	3.95	4.08	4.50	4.58						78.0	30.0
1342	Rhi	1.00														b	31.0
1343	Lim															30.0	30.0
1344	Plo															77.0	77.0
1345	Rhi															41.0	41.0
1346	Lim															120.0	120.0
1347	Rhi															53.0	53.0

ID	sp	Diameter at breast height (cm)										Height (cm)									
		1984	1987	1990	1995	1998	2000	2003	2005	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015	
1348	Pab											65.0									
1349	Plo											54.0									
1350	Rhi											73.0									
1351	Rhi											52.0									
1352	Rhi											48.0									
1353	Lim											54.0									
1354	Lim											78.0									
1355	Bij											128.0									
1356	Plo											73.0	82.0								
1357	Lim											62.0									
1358	Plo											110.0	45.0 <sup>a</sup>								
1359	Lim											46.0									
1360	Lim											45.0									
1361	Rhi	9.60	9.93	10.00																	
1362	Ars	0.80	1.75	1.71	1.72	1.75	1.70	1.72	1.89												
1363	Ars									0.78	0.81	1.30									
1364	Lim												80.0	100.0	100.0						
1365	Bij												103.0								
1366	Lim												60.0	65.0	88.0	36.0 <sup>a</sup>					
1367	Lim												33.0								
1368	Plo												60.0								
1369	Plo												54.0								
1370	Rhi	0.40	0.50	0.63									50.0 <sup>a</sup>	77.0							
1371	Lim												100.0	35.0							
1372	Lim												42.0	38.0	50.0						
1373	Plo													42.0							
1374	Cip												33.0								
1375	Rhi												60.0	68.0							
1376	Rhi																				
1377	Rhi																				
1378	Hig																				
1379	Osi																				
1380	Rhi																				
1381	EIr												0.34								
																			38.0	43.0	
																			53.0 <sup>a</sup>		

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1382	Rhi																48.0	50.5	59.0
1383	Cip																37.0		
1384	Lim																51.0		
1385	Bij																32.0		
1386	Cip																30.0	43.0	
1387	unknown																39.0		
1388	Mak																46.0	47.0	
1389	Mak																31.0		
1390	unknown																36.0		
1391	Rhi																35.0	33.0	
1392	Rhi																94.0	100.0	
1393	Hig																36.0	34.0	
1394	Phb	4.20	4.90	5.99	6.94	7.23	7.32												
1395	Pib	4.14	5.16	5.57	6.05	6.37													
1396	Scm																		
1397	Bij	2.67	2.87	4.62	4.71														
1398	Bij	4.01	<sup>b</sup>	9.14	9.17	9.49	10.32	10.29	10.76										
1399	Pab																78.0		
1400	Hig	2.70	4.46	4.78	4.87	5.22	5.41										42.0	85.0	
1401	Hig			4.01													50.0 <sup>a</sup>		
1402	Hig			3.15	3.15														
1403	Rhi																		
1404	Osi	0.86	1.12	1.91	2.64	2.83	2.84												
1405	Rhi																40.0		
1406	Cip																110.0		
1407	Rhi																48.0	64.0	
1408	Rhi																50.0	96.0	
1409	Cip																42.0	50.0	
1410	Rhi																35.0	45.0	
1411	Tas	2.00	1.97	1.95	2.07	2.13	1.82										59.0	75.0	
1412	Bij																66.0	78.0	
1413	Bij	4.20	5.92	6.66	6.69	6.94	7.26	7.23	7.17								85.0	91.0	
1414	Bij	0.89															120.0	127.0	
1415	Rhi																30.0	58.0	
1416	Rhi																46.0	72.0	

ID	sp	Diameter at breast height (cm)										Height (cm)								
		1984	1987	1990	1995	1998	2000	2003	2005	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1417	Ars											36.0	66.0	70.0	71.0	70.0				
1418	Bij	1.40	2.77	3.24	3.50	3.38	3.31	3.12 <sup>a</sup>												
1419	Pab																			
1420	Bij	1.20	4.97	7.74	8.41	8.22	8.34	8.85	9.27	9.11										
1421	Tro																			
1422	Pil_d	15.80																		
1423	Pil_d	13.00																		
1424	Bij	2.00	2.86	3.18	3.06	3.18	3.15	3.14												
1425	Bij					3.06	3.25	2.80	2.85											
1426	Bij	1.90	3.69	5.67	5.89	5.96	6.05	6.18	6.11	6.08										
1427	Plo																			
1428	Bij	1.11	1.27	1.50	0.69	1.31	1.36	1.52	2.01	2.18										
1429	Cip																			
1430	Cip																			
1431	Cip																			
1432	Rhi																			
1433	Lim																			
1434	Lim																			
1435	Rhi																			
1436	Lim																			
1437	Rhi																			
1438	Plo																			
1439	Pab																			
1440	Rhi																			
1441	Rhi																			
1442	Bij	1.20	2.99	5.22	5.25	5.25	5.16													
1443	Bij	3.00	5.06	7.32	8.82	8.60	9.43	10.96	11.15	11.27										
1444	Bij	2.40	5.03	7.74	8.92	8.98	9.55	10.76	10.61	11.56										
1445	Rhi																			
1446	Bij																			
1447	Osi	0.50	0.88	1.59	2.32	2.36	2.74	3.44	3.92											
1448	Rhi																			
1449	Osi																			
1450	Ars																			

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	
1451	Rhi										44.0	52.0	34.0	70.0	68.0	80.0			
1452	Bij										99.0	100.0	123.0						
1453	Bij	1.80	2.61	3.76	3.89	3.73	3.82	3.84			36.0	75.0	105.0	120.0	47.0 <sup>a</sup>				
1454	Bij			2.04								40.0	64.0	73.0	78.0	76.0	77.0	78.0	
1455	Bij											64.0	99.0	118.0					
1456	Rhi											32.0	37.0	63.0	77.0	87.0	95.0	78.0 <sup>a</sup>	
1457	Rhi					0.25	0.42	0.66	0.71			55.0	91.0	98.0	52.0 <sup>a</sup>				
1458	Rhi											35.0	<sup>b</sup>	49.0	30.0 <sup>a</sup>	43.0	46.0	57.0	
1459	Plo																		
1460	Plo																		
1461	Lim																		
1462	Cip																		
1463	Cip																		
1464	Cip																		
1465	Rhi																		
1466	Plo																		
1467	Rhi																		
1468	Rhi																		
1469	Rhi																		
1470	Plo																		
1471	Rhi																		
1472	Bij	<u>2.40</u>	5.83	9.49	11.46	11.78	13.38	16.18	17.45	18.31		36.0	88.0	82.0	80.0	33.0 <sup>a</sup>	31.0		
1473	Lim															55.0	55.0	95.0	
1474	Lim																		
1475	Lim																		
1476	Rhi																		
1477	Rhi																		
1478	Bij	<u>1.60</u>	2.80	3.28	3.34	3.41	3.38	3.43				50.0	71.0	78.0	90.0	102.0	115.0	116.0	
1479	Bij	<u>1.40</u>	2.58	2.66	2.96	2.99	3.03	3.15	2.55			35.0	36.0	42.0					
1480	Rhi																		
1481	Rhi																		
1482	Rhi																		
1483	Bij																		
1484	Cip																		

ID	sp	Diameter at breast height (cm)										Height (cm)								
		1984	1987	1990	1995	1998	2000	2003	2005	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1485	Plo											39.0	40.0	45.0						
1486	Osi	0.60	2.32	3.82	4.20	4.46	4.52	4.30	4.95			115.0								
1487	Osi	1.00	3.09	5.35	7.58	8.73	9.17	9.49	11.11	11.34										
1488	Cip	0.60	1.25	1.85	2.32	2.38	2.54	2.77	2.70											
1489	Plo	3.30	5.54	8.18	9.30	9.39	10.06	12.29	13.12	15.86										
1490	Bij																			
1491	Lim																			
1492	Osi	0.50	0.86	1.66	2.39	2.30	2.67	3.20	3.58											
1493	Bij	1.10	2.67	3.41	3.54	3.76	4.01	4.17	4.54	4.00										
1494	Rhi																			
1495	Cip																			
1496	Cip																			
1497	Scm	0.70	0.81	1.40	1.75	1.86	2.20	2.99	3.03											
1498	Elp	0.30	0.25	0.53	1.02	1.24														
1499	Bij	1.59		1.21	1.15	1.80	1.80													
1500	Pab																			
1501	Lim																			
1502	Rhi																			
1503	Plo																			
1504	Cip																			
1505	Cip																			
1506	Osi																			
1507	Rhi	0.60	1.05	1.59	2.23	2.71	2.79	3.07	3.91											
1508	Lim																			
1509	Lim																			
1510	Cip	0.50	1.06	2.13	3.15	3.38	3.54	4.67	4.73											
1511	Cip																			
1512	Tro																			
1513	Plo	8.90	8.98	9.14	9.33	9.30	9.24	9.17												
1514	Rhi																			
1515	Rhi																			
1516	Scm																			
1517	Osi	0.48	0.93	1.10	1.28	1.67	2.06													
1518	Rhi																			

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1519	Scm	b	b	b	b	b	b	b	b	b	59.0	100.0	120.0	59.0	100.0	120.0	59.0	100.0	120.0 <sup>a</sup>
1520	Rhi										50.0	58.0	62.0	89.0	90.0	92.0	92.0	92.0	62.0
1521	Rhi										51.0								
1522	Lim										92.0								
1523	Rhi										44.0	49.0	54.0	76.0	92.0	92.0	92.0	83.0	
1524	Cip										38.0								
1525	Plo										44.0	55.0	49.0	32.0 <sup>a</sup>					
1526	Rhi										48.0	65.0	72.0						
1527	Rhi										39.0	46.0	54.0	44.0 <sup>a</sup>	51.0	51.0	51.0	51.0	
1528	Lim										54.0	90.0	71.0 <sup>a</sup>	71.0	75.0				
1529	Lim										59.0	58.0	64.0	48.0 <sup>a</sup>	71.0				
1530	Rhi										57.0	70.0	80.0	90.0					
1531	Lim										60.0	70.0	72.0	72.0	59.0 <sup>a</sup>				
1532	Scm										90.0	110.0							
1533	Lim										65.0	75.0							
1534	Rhi										48.0	55.0	77.0	69.0 <sup>a</sup>	63.0	63.0	63.0	63.0	
1535	Rhi										40.0	50.0	52.0						
1536	Scm										52.0	63.0	78.0	105.0					
1537	Cip										32.0								
1538	Rhi										44.0	50.0	48.0	51.0					
1539	Rhi										35.0								
1540	Rhi										33.0								
1541	Rhi										45.0	57.0	72.0						
1542	Cip										60.0	61.0	b	59.0					
1543	Cip										54.0		68.0	72.0	72.0	72.0	72.0	72.0	78.0
1544	Rhi										50.0	57.0	53.0						
1545	Plo										34.0		33.0						
1546	Rhi										45.0	60.0	66.0	77.0	79.5				
1547	Rhi										40.0	45.0	41.0 <sup>a</sup>	42.0	45.0				
1548	Plo										35.0								
1549	Scm										30.0								
1550	Rhi										78.0	89.0	78.0 <sup>a</sup>	83.0	88.0				
1551	Rhi										34.0	72.0	89.0	103.0	110.0				
											1.98								

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1552	Rhi										48.0	53.0	54.0						
1553	Rhi										50.0	50.0	50.0	54.0	54.0	54.0	54.0	54.0	54.0
1554	Rhi										50.0	54.0	54.0	59.0	59.0	59.0	59.0	59.0	59.0
1555	Rhi										43.0	43.0	43.0	42.0	42.0	42.0	42.0	42.0	42.0
1556	Rhi										55.0	55.0	55.0	51.0	51.0	51.0	51.0	51.0	51.0
1557	Rhi										40.0	40.0	40.0	32.0	32.0	32.0	32.0	32.0	32.0
1558	Lim										31.0	31.0	31.0	46.0	46.0	46.0	46.0	46.0	46.0
1559	Rhi										66.0	66.0	66.0	76.0	76.0	76.0	79.0	79.0	79.0
1560	Rhi										56.0	56.0	56.0	68.0	68.0	68.0	63.0	63.0	63.0
1561	Pib										35.0	35.0	35.0	48.0	48.0	48.0	48.0	48.0	48.0
1562	Pab										100.0	100.0	100.0	118.0	118.0	118.0	122.0	122.0	122.0
1563	Pab										85.0	85.0	85.0	100.0	100.0	100.0	110.0	110.0	114.0
1564	Pab										95.0	95.0	95.0	113.0	113.0	113.0	113.0	113.0	113.0
1565	Pab										78.0	78.0	78.0	34.0	34.0	34.0	124.0	124.0	124.0
1566	Osi										35.0	35.0	35.0	49.0	49.0	49.0	57.0	57.0	57.0
1567	Plo										b	b	b	35.0	35.0	35.0	85.0	85.0	93.0
1568	Rhi										b	b	b	64.0	64.0	64.0	56.0	56.0	56.0
1569	Rhi										14.60	14.60	14.60	79.0	79.0	79.0	79.0	79.0	79.0
1570	Bij																		
1571	Rhi																		
1572	Plo																		
1573	Rhi																		
1574	Rhi																		
1575	Rhi																		
1576	Bij																		
1577	Sem																		
1578	Lim																		
1579	Bij																		
1580	Rhi																		
1581	Rhi																		
1582	Osi																		
1583	Osi																		
1584	Sem																		
1585	Rhi																		

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010
1586	Rhi										55.0	47.0 <sup>a</sup>						
1587	unknown										43.0	45.0						
1588	Rhi										30.0							
1589	Rhi										70.0	73.0						
1590	Rhi										98.0							
1591	Rhi										112.0							
1592	unknown										34.0							
1593	Rhi										121.0							
1594	Cip										112.0							
1595	unknown										108.0							
1596	Osi										116.0							
1597	Cip										76.5 <sup>a</sup>							
1598	Rhi																	
1599	Elr																	
1600	Bij	2.80	5.73	7.07	7.17	7.13	7.45	7.64	7.58	7.45								
1601	Bij	2.29	6.82	3.82	4.30	4.59	4.78	4.81	4.75		110.0							
1602	Bij	2.42	3.12	3.18	2.68						70.0							
1603	Pab										40.0							
1604	Bij	1.90	4.11	6.69	7.55	7.42	7.77	7.96	7.68	7.83								
1605	Bij	1.30	3.50	5.19	5.06	5.10	5.03	5.10										
1606	Rhi										60.0	72.5	75.0		54.0	57.0	40.0 <sup>a</sup>	
1607	Lim										35.0	51.0						
1608	Lim										75.0	45.0	48.0	50.0	47.0	57.0	58.0	66.0
1609	Plo										35.0	40.0	47.0	60.0		101.0		
1610	Osi										100.0							
1611	Lim										95.0	122.0						
1612	Rhi										35.0	65.0	90.0					
1613	Bij										35.0							
1614	Bij										35.0							
1615	Lim										45.0							
1616	Lim										75.0							
1617	Rhi										121.0	123.0	129.0					
1618	Ars																	
1619	Bij	1.50	4.71	6.75	6.78	6.66	6.75	7.20	7.10									

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2010	2015
1620	Bij		3.69	3.89	3.98	4.11	4.46	4.52	4.27	4.03								
1621	Bij	1.40	2.36	2.31	2.55	2.52	2.56	2.55	2.57									
1622	Pil_d	40.20									60.0	50.0	100.0	115.0				
1623	Lim										55.0	30.0	40.0					
1624	Bij										95.0	114.0	90.0	71.0 <sup>a</sup>	75.0 <sup>a</sup>			
1625	Lim										40.0	69.0						
1626	Bij										40.0							
1627	Lim										35.0	35.0	43.0					
1628	Rhi										50.0	67.0	64.0	85.0				
1629	Plo										65.0	125.0						
1630	Bij	1.10	4.14	2.09	2.39	2.23	2.52	2.59	1.48 <sup>a</sup>		60.0	100.0						
1631	Rhi										85.0	30.0 <sup>a</sup>	60.0	89.0	119.0			
1632	Ars										43.0	38.0	52.0	33.5				
1633	Bij	1.20	5.22	8.28	9.68	9.75	10.06	12.04	11.69	11.50	35.0	110.0	100.0					
1634	Lim										62.0 <sup>a</sup>							
1635	Rhi										98.0	122.0						
1636	Ars																	
1637	Lim																	
1638	Hig	0.50	2.32	2.52	2.71	3.82	4.33	4.39	5.13	5.01								
1639	Bij	0.70	2.20	3.66	2.74	2.13	2.18											
1640	Bij																	
1641	Bij	3.30	5.09	5.03	5.25	5.10 <sup>a</sup>	5.16	5.16										
1642	Bij	2.50	4.39	4.62														
1643	Bij	2.80	5.16	7.32	8.44	8.44	8.85	8.98	9.08	8.89								
1644	Bij	1.80	3.15	3.92	3.82	3.73 <sup>a</sup>	3.89	3.95	3.98	3.87								
1645	Lim																	
1646	Plo										50.0	40.0	45.0	50.0	54.0	54.0	54.0	
1647	Plo										45.0	40.0	40.0	40.0	46.0	46.0	46.0	46.0
1648	Lim										72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
1649	Rhi										50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
1650	Rhi										37.0	118.0	108.0	108.0	118.0	118.0	118.0	118.0
1651	Lim										66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
1652	Lim										78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
1653	Bij	2.70	4.97	6.37	6.37	6.34	6.24	6.24	6.08	6.05								

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2010	2015	
1654	Rhi										0.56	0.61				62.5	65.0	77.0	118.0
1655	Rhi															45.0	51.0	51.0	35.0
1656	Rhi																		
1657	Rhi																		
1658	Bij	2.40	4.52	5.89	6.05	7.45	5.99	6.18	6.05	5.92						56.0	71.0		
1659	Tro																		
1660	Osi																		
1661	Bij	2.20	4.52	7.39	8.76	8.92	9.68	10.76	11.08	11.85						47.0			
1662	Bij																		
1663	Lim																		
1664	Lim																		
1665	Lim																		
1666	Bij	1.70	2.86	3.25	3.18														
1667	Lim																		
1668	Bij	1.60	2.64	3.12	3.12														
1669	Plo																		
1670	Ars															40.0	40.0	40.0	40.0
1671	Rhi															65.0	65.0	65.0	113.0
1672	Bij	1.91	2.83	2.96	2.93	2.93	2.93	2.92								130.0			
1673	Ars																		
1674	Cip																		
1675	Cip																		
1676	Bij																		
1677	Rhi																		
1678	Ars																		
1679	Lim																		
1680	Rhi																		
1681	Moa	1.05	1.04	1.38	1.70	2.03	2.16	2.36	2.42	2.42									
1682	Lim	0.40																	
1683	Rhi																		
1684	Rhi																		
1685	Plo																		
1686	Ars																		
1687	Ars																		

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1688	Ars										65.0	92.0	98.0	110.0	110.0	76.0 <sup>a</sup>	75.0	77.0	105.0
1689	Ars																		
1690	Rhi																		
1691	Bij	5.20	9.90	13.50	0.28	<sup>b</sup> 0.78	0.81	0.85	0.85		85.0	113.0	127.0						
1692	Lim																		
1693	Bij	1.80	4.14	4.43	6.05	6.24	7.20	7.45	8.92	8.76									
1694	Bij			1.78															
1695	Rhi																		
1696	Rhi																		
1697	Rhi																		
1698	Plo																		
1699	Lim																		
1700	Lim																		
1701	Rhi																		
1702	Plo																		
1703	Lim																		
1704	Rhi																		
1705	Rhi																		
1706	Rhi																		
1707	Rhi																		
1708	Rhi																		
1709	Plo																		
1710	Plo																		
1711	Sem																		
1712	Plo																		
1713	Rhi																		
1714	Pab																		
1715	Pab																		
1716	Pab																		
1717	Pab																		
1718	Rhi																		
1719	Lim																		
1720	Plo																		

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1721	Ars										46.0	77.0	103.0	110.0					
1722	Rhi										36.0	46.0	46.0						
1723	Wip										37.0	59.0	97.0	97.0	100.0				
1724	Lim											30.0	30.0	30.0					
1725	Rhi											53.0							
1726	Psb											42.0	45.0	50.0					
1727	PSl											47.0	46.0						
1728	Rhi											55.0							
1729	Rhi											80.0	70.0	74.0					
1730	Rhi											56.0	125.0	77.0 <sup>a</sup>					
1731	EIp																		
1732	Plo																		
1733	Rhi																		
1734	Rhi																		
1735	Rhi																		
1736	Rhi																		
1737	Rhi																		
1738	Plo																		
1739	Plo																		
1740	Ars																		
1741	Rhi																		
1742	Rhi																		
1743	Rhi																		
1744	Rhi																		
1745	Rhi																		
1746	Osi																		
1747	Rhi																		
1748	Rhi																		
1749	Lim																		
1750	Sem																		
1751	Elr																		
1752	Lim																		
1753	Lim																		
1754	Rhi																		
1755	Cip																		

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1756	unknown																		
1757	Rhi																		
1758	Moa																		
1759	Moa																		
1760	Plo																		
1761	Lim																		
1762	Lim																		
1763	Bij																		
1764	Bij																		
1765	Osi																		
1766	Ars																		
1767	Lim																		
1768	Lim																		
1769	Lim																		
1770	Rhi																		
1771	Osi																		
1772	Rhi																		
1773	unknown																		
1774	Hig																		
1775	Lim																		
1776	Bij																		
1777	Plo																		
1778	Rhi																		
1779	Lim																		
1780	Bij																		
1781	Bij																		
1782	Bij																		
1783	Bij																		
1784	Bij																		
1785	Bij																		
1786	Rhi																		
1787	Rhi																		
1788	Lim																		
1789	Lim																		
1790	Lim																		

ID	sp	Diameter at breast height (cm)										Height (cm)								
		1984	1987	1990	1995	1998	2000	2003	2005	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1791	Lim											81.0	62.0							
1792	Lim											77.0	43.0							
1793	Lim											74.0								
1794	Lim											49.0								
1795	Pab											50.0								
1796	Lim											62.0	78.0							
1797	Rhi											44.0	46.0	49.0	44.0			b	97.0	108.0
1798	Elp											30.0	46.0	40.0	47.0					
1799	Bij											44.0	71.0	83.0	103.0	102.0				
1800	Bij	3.20	3.53	3.63		<sup>b</sup>	3.76	4.01	3.40			45.0	78.0	90.0	104.0			b		
1801	Bij											31.0								
1802	Plo											100.0	74.0							
1803	Lim											58.0	66.0	70.0						
1804	Lim											47.0	40.0							
1805	Rhi											75.0	120.0	41.0	47.0					
1806	Bij											32.0	33.0	<sup>b</sup>	<sup>b</sup>	32.0	32.0			
1807	Plo																			
1808	Bij	2.60	4.30	4.14	4.46	4.36 <sup>a</sup>	4.38	4.33				60.0								
1809	Pab											76.0	69.0	76.0						
1810	Rhi											46.0								
1811	Plo											45.0	47.0	54.0						
1812	Rhi											124.0								
1813	Mak											108.0	122.0							
1814	Nes											54.0								
1815	Lim											86.0								
1816	Lim																			
1817	Bij	2.60	5.54	6.53	6.40	6.40	6.50	6.62	6.43	6.37		62.0								
1818	Rhi											86.0	102.0	34.0						
1819	Nes											81.0	127.0	40.0 <sup>a</sup>				b	67.0	34.0 <sup>a</sup>
1820	Bij											66.0								
1821	Rhi											82.0								
1822	Lim											104.0	125.0	60.0	74.0	51.0 <sup>a</sup>				
1823	Bij											80.0								
1824	Rhi																			

ID	sp	Diameter at breast height (cm)										Height (cm)								
		1984	1987	1990	1995	1998	2000	2003	2005	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1825	Plo											65.0								
1826	Rhi											43.0								
1827	Rhi											65.0								
1828	Rhi											42.0								
1829	Bij	2.90	3.37	3.76	3.85	4.08	4.14	4.20												
1830	Bij	1.10	1.08	1.02	1.21	1.12	1.51													
1831	Sem	26.20	26.39	26.82	27.45	28.18	28.60	28.79	28.85	29.33										
1832	Ars																			
1833	Rhi											35.0								
1834	Bij	2.00										73.0								
1835	Bij	1.30																		
1836	Nes																			
1837	Bij	3.80	7.32	10.89	12.01	11.82	12.48	13.06	12.74	12.74										
1838	Rhi	0.30																		
1839	Bij	2.30	4.33	7.01	7.52	7.20	8.09	8.34	8.25	8.22										
1840	Bij	4.71	4.08	4.08	3.63	3.57	3.65													
1841	Lim																			
1842	Bij	1.50	1.66	1.95	1.72		b	1.58												
1843	Nes	0.30																		
1844	Bij																			
1845	Mak																			
1846	Lim																			
1847	Bij	1.90	3.50	3.69	3.63	3.66	4.01	3.76 <sup>a</sup>												
1848	Bij	1.10																		
1849	Plo																			
1850	Rhi																			
1851	Nes	0.60																		
1852	Nes																			
1853	Lim																			
1854	Lim																			
1855	Lim																			
1856	Rhi																			
1857	Lim																			
1858	Bij																			

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010
1859	Lim										72.0							
1860	Plo										47.0							
1861	Plo										37.0							
1862	Rhi										78.0							
1863	Lim										52.0							
1864	Lim										97.0							
1865	Plo										34.0							
1866	Plo										32.0							
1867	Plo										57.0							
1868	Plo										60.0							
1869	Bij	1.80	2.23	2.12	2.32	2.45	2.55	2.50	2.59		35.0							
1870	Plo										46.0							
1871	Bij										31.0							
1872	Rhi										43.0							
1873	Bij	2.90	5.12	5.22	5.25	5.06	5.16	5.16										
1874	Bij	2.90	4.07	3.98	b	b	4.20	3.76										
1875	Bij	1.40	1.56	1.23														
1876	Bij	3.60	4.27	4.30	4.27	4.39	4.46	4.65	4.08									
1877	Bij	2.90	8.21	11.15	13.54	14.33	14.90	18.60	22.04	26.34								
1878	Bij																	
1879	Bij	3.80	5.60	6.94	7.04	6.97	7.13	7.26	7.32	7.04								
1880	Bij	3.40	6.27	8.06	8.03	7.90	7.96	8.09	7.55									
1881	Bij	4.00	5.89	8.34	7.96	8.18	8.22	8.34	8.12	7.87								
1882	Plo																	
1883	Bij																	
1884	Bij																	
1885	Lim																	
1886	Bij	3.40	5.57	6.53	6.37	6.24	6.31	6.37	6.31									
1887	Bij	4.10	7.00	8.60	8.44	8.28	8.41	8.41	8.31	8.25								
1888	Bij			1.11	1.35	1.40	2.07	2.03	2.10	2.13	1.98							
1889	Lim																	
1890	Moa																	
1891	Lim																	
1892	Lim																	
1893	Bij																	

ID	sp	Diameter at breast height (cm)										Height (cm)								
		1984	1987	1990	1995	1998	2000	2003	2005	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1894	Moa											68.0								
1895	Lim											65.0								
1896	Lim											82.0								
1897	Bij	1.20	2.61	2.65	3.03	3.06	3.03	3.33				80.0	42.0	42.0						
1898	Bij	0.40	1.53	1.47	0.76	1.82	1.80	1.94	1.99			33.0	35.0	35.0						
1899	Nes											97.0	110.0	107.0	63.0 <sup>a</sup>	70.0	71.0	47.0 <sup>a</sup>		
1900	Plo											35.0								
1901	Plo											31.0								
1902	Ars											b								
1903	Bij											30.0								
1904	Bij											30.0								
1905	Ars											30.0								
1906	Lim											30.0								
1907	Lim											30.0								
1908	Bij											30.0								
1909	Nes											30.0								
1910	Plo											30.0								
1911	Plo											30.0								
1912	Pab											30.0								
1913	Rhi											30.0								
1914	Rhi											30.0								
1915	Mak											30.0								
1916	Plo											30.0								
1917	Hig											30.0								
1918	Rhi											30.0								
1919	Rhi											30.0								
1920	Rhi											30.0								
1921	Hig											30.0								
1922	Rhi											30.0								
1923	Hig											30.0								
1924	Rhi											30.0								
1925	Rhi											30.0								
1926	Rhi											30.0								
1927	Scm											30.0								
1928	Hig											30.0								

b

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1929	Rhi										39.0	46.0	56.0						
1930	Rhi										36.0	31.0	46.0	104.0					
1931	Rhi										31.0	43.0	48.0						
1932	Rhi										32.0	40.0	53.0						
1933	Rhi										31.0	38.0 <sup>b</sup>							
1934	Rhi										31.0								
1935	Plo										31.0	42.0							
1936	Rhi										65.0								
1937	Lim										33.0								
1938	Osi										60.0	74.0	100.0	116.0					
1939	Rhi										34.0								
1940	Rhi										32.0								
1941	Rhi										55.0								
1942	Osi										39.0								
1943	Wip										34.0	79.0							
1944	Rhi										58.0								
1945	Rhi										57.0	68.0							
1946	Rhi										31.0								
1947	Rhi										39.0								
1948	Lim										44.0								
1949	Rhi										39.0								
1950	Rhi										51.0								
1951	Plo										44.0								
1952	Plo										36.0	45.0	48.0						
1953	Rhi										56.0	72.0	75.0						
1954	Rhi										34.0	55.0	57.0						
1955	Rhi										54.0	56.0							
1956	Rhi										36.0	64.0							
1957	Rhi										36.0								
1958	Hig										35.0								
1959	Psl										71.0								
1960	Rhi										40.0								
1961	Rhi										44.0								
1962	Rhi										33.0								
1963	Plo										43.0								

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
1964	Rhi															54.0	55.0		
1965	Rhi															49.0	31.0		
1966	Rhi															51.0	58.0		
1967	Rhi															55.0			
1968	Rhi															70.0	75.0		
1969	Rhi															42.0			
1970	Rhi															33.0	40.0		
1971	Ars															64.0	68.0	99.0	
1972	Rhi															37.0	38.0		
1973	Ars															38.0	44.0		
1974	Rhi															32.0			
1975	Lim															70.0			
1976	Cip															47.0	57.0	68.0	
1977	Cip															35.0			
1978	Rhi															34.0			
1979	Rhi															34.0	38.0		
1980	Rhi															37.0			
1981	Nes															37.0			
1982	Rhi															35.5			
1983	Rhi															31.0			
1984	Rhi															30.5			
1985	Bij															31.0			
1986	Rhi																		
1987	Rhi																		
1988	Psl																		
1989	Lic																		
1990	Nes															75.0			
1991	Rhi															55.0			
1992	Scm	37.30	37.66	39.81	41.05	43.12	41.21	43.95	45.03	45.19									
1993	Elr	5.00	2.07																
1994	Lim																		
1995	Scm	0.60	1.50	1.45															
1996	Ars	2.20	2.80	2.85	3.22	2.99	2.87	3.02	3.01										
1997	Plo	2.90	2.75	2.83	2.87	2.87	2.87	2.87	2.64										
1998	Plo																		107.0
																			39.0 <sup>a</sup>

ID	sp	Diameter at breast height(cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010
1999	Plo	12.60	12.99	13.76	13.44	13.89	14.01	14.20	14.81	14.81								
2000	Plo	9.50	10.38	10.83	10.67	10.96	11.02	11.02	10.67	10.67								
2001	Lim																	
2002	Bij	1.90	3.41	1.19	3.60	3.82	4.14	4.20	3.86	3.89								
2003	Lim																	
2004	Bij	1.37	1.25	1.46	1.38	1.46	1.54				115.0							
2005	Mak										60.0	65.0	33.0					
2006	Ars										50.0	74.0	68.0					
2007	Bij										90.0	108.0	42.0 <sup>a</sup>	41.0	50.0			
2008	Rhi										110.0	88.0 <sup>a</sup>						
2009	Bij	1.64	1.50	1.74	1.90	2.04					130.0 <sup>b</sup>							
2010	Nes										110.0							
2011	Bij										100.0	123.0	128.0	66.0 <sup>a</sup>	87.0			
2012	Bij	4.80	8.40	10.83	10.32	10.83	11.27	11.66	11.62	11.37								
2013	Bij	1.80	2.55	2.71	2.64	2.74	3.18	3.18	3.05	2.99								
2014	Rhi										30.0	32.0	37.0					
2015	Rhi										45.0							
2016	Osi										40.0							
2017	Pib										65.0							
2018	Lim										50.0							
2019	Bij	3.20	4.87	4.59	4.62	4.59	4.90	4.90			60.0							
2020	Lim										120.0	122.0	128.0	125.0				
2021	Syc										35.0							
2022	Lim										130.0	130.0	39.0 <sup>a</sup>					
2023	Nes										36.0							
2024	Nes										70.0	82.0						
2025	Elp	0.50	0.86								120.0	119.0	129.0					
2026	Bij										70.0							
2027	Tas										80.0							
2028	Lim										60.0							
2029	Lim										90.0							
2030	Bij										100.0							
2031	Osi										100.0							
2032	Bij										104.0							

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2010	2015
2033	Rhi										65.0							
2034	Lim										40.0							
2035	Plo										58.0							
2036	Bij	1.60	2.90		2.96	3.06	3.03	3.17	2.63		70.0	43.0						
2037	Plo										80.0							
2038	Rhi										50.0							
2039	Plo										60.0	118.0	125.0	115.0				
2040	Bij										90.0	112.0	32.0 <sup>a</sup>	56.0	102.0	116.0		
2041	Bij	1.80	3.28	3.11	3.18	3.34	3.48	3.49			100.0	115.0						
2042	Nes										30.0							
2043	Elp	0.50									45.0							
2044	Lim										45.0							
2045	Nes	0.50	0.76	0.45							98.0	82.0 <sup>a</sup>	106.0	98.0				
2046	Plo																	
2047	Plo																	
2048	Plo																	
2049	Bij	2.00	3.69	1.53	4.52	4.55	4.59	4.65	4.43									
2050	Bij			1.50	4.39	4.39	4.71				33.0							
2051	Lim										55.0							
2052	Plo										90.0							
2053	Bij										50.0	45.0						
2054	Plo										127.0 <sup>a</sup>							
2055	Mak	3.10	3.37															
2056	Mak	5.00	5.57	5.45	5.61	5.54	5.22											
2057	Mak																	
2058	Mak																	
2059	Mak																	
2060	Bij																	
2061	Lim																	
2062	Plo																	
2063	Lim																	
2064	Lim																	
2065	Bij																	
2066	Rhi	5.70																
2067	Rhi	7.50																

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2010	2015
2068	Rhi	6.80	7.00	7.01	7.01	7.32	7.32	7.45	7.23									
2069	Rhi			8.18	8.28	8.34	8.28	8.34										
2070	Nes															120.0	b	35.0
2071	Lim															95.0		
2072	Lim															90.0		
2073	Mak															100.0	110.0	
2074	Lim			2.10	3.69	3.82	3.82	3.76	3.76	3.82	3.65					100.0	110.0	
2075	Bij															50.0		
2076	Tas															35.0		
2077	Elp																	
2078	Plo																	
2079	Bij	1.80	3.53	3.60	3.54	3.25	3.57	3.57										
2080	Lim																	
2081	Bij	1.20	1.75	0.82	1.34	4.87												
2082	Nes																	
2083	Bij	3.30	7.45	7.83	11.97	12.74	12.87	14.52	15.13	14.94						100.0	127.0	62.0 <sup>a</sup>
2084	Bij	b	5.63	10.25	6.97	7.07	7.77	8.41	9.94	9.71								
2085	Rhi																	
2086	Bij	1.70	2.23	2.23	2.45	2.39	2.48	1.87 <sup>a</sup>								48.0		
2087	Rhi																	
2088	Bij	1.90	4.00	4.11	4.36	4.62	5.03	5.03	4.25	4.19						38.0	44.0	44.0
2089	Plo															80.0		
2090	Rhi															58.0		
2091	Lim															66.0		
2092	Bij																	
2093	Cip															96.0		
2094	Rhi															45.0	40.0	
2095	Plo															42.0	35.0	42.0
2096	Plo															31.0		
2097	Plo															30.0		
2098	Plo															35.0		
2099	Bij	0.83	1.11	0.92	1.35	2.04	2.06	0.76	0.77							37.0		
2100	Plo															36.0		
2102	Bij															45.0		

ID	sp	Diameter at breast height (cm)										Height (cm)						
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010
2103	Plo										31.0	32.0	33.0	49.0	45.0	31.0	38.0	39.0
2104	Rhi																31.0	38.0
2105	Ars																38.0	47.0
2106	Rhi																40.0	
2107	Rhi																	
2108	Mak																	
2109	Plo																	
2110	Rhi																	
2111	Rhi																	
2112	Rhi																	
2113	Rhi																	
2114	Rhi																	
2115	Rhi																	
2116	Plo																	
2117	Rhi																	
2118	Rhi																	
2119	unknown										0.93							
2120	Sem																73.0	
2121	Sem																	b
2122	Rhi																	
2123	Cip																	
2124	Cip																	
2125	Bij																	
2126	Rhi																	
2127	Syc																	
2128	Syc																	
2129	Cip																	
2130	Cas																	
2131	Bij																	
2132	Ars																	
2133	Ars																	
2134	Nes																	
2135	Nes																	
2136	Mak																	
2137	Mak																	

ID	sp	Diameter at breast height (cm)										Height (cm)							
		1984	1987	1990	1995	1998	2000	2003	2010	2015	1984	1987	1990	1995	1998	2000	2003	2010	2015
2138	Syc																	59.0	
2139	Ars																	52.0	
2140	Plo																	45.0	
2141	Plo																	35.0	
2142	Lim																	73.0	
2143	Mak																	59.0	