



Survey of the genus Pinus

(compiled by D. De Meyere & G. Houben © 2010)

(Checklist based on: Farjon A. (2010) Handbook of the World's Conifers vol. II : 608 - 784)

accepted name	max tree size	H Σ	altitudinal range	Native from	No. BGCI	Belgian collections			
						number of accessions			
						NBGB Meise	PLANTCOL	BELTREES	main occurrences (other than Meise)
● Pinus albicaulis	20	H	1350 3650	SW Canada, NW USA	9				
Pinus amamiana	20	HC	1000 3500	Japan (Kyushu)	0				
Pinus aristata	15	H	2500 3500	USA (Colorado, New Mexico, N Arizona)	46		2		Bokrijk, Het Leen
Pinus arizonica	45	HC	1300 3000	SW USA (Arizona, New Mexico), Mexico	6		* 1		Wespelaar
Pinus arizonica var. arizonica	45	HC	1300 3000	SW USA (Arizona, New Mexico), Mexico	2				
Pinus arizonica var. cooperi		HC	1300 3000	Mexico	3				
Pinus arizonica var. stormiae		HC	1300 3000	Mexico	1				
Pinus armandii	30	H	1000 3500	China (S Gangsu, Guizhou, Hainan,	51	* 1	*** 10	1	Bokrijk, Gent, Rendeux, Wespelaar, Tervuren
Pinus armandii var. armandii	30	H	1000 3500	China (S Gangsu, Guizhou, Hainan,	9				
● Pinus armandii var. dabeshanensis	20	HC	2300 3000	China (Anhui, Henan, Hubei)	4				
● Pinus armandii var. mastersiana	20	HC	2300 3000	Taiwan	9				
Pinus attenuata	20	HC	300 1700	USA (SW Oregon, California) Mexico	13		4		Bokrijk, Herent
Pinus ayacahuite	30	HC	1900 3200	C Mexico to S Guatemala	25		2	1	Bokrijk, Rendeux
Pinus ayacahuite var. ayacahuite	30	HC	1900 3200	C Mexico to S Guatemala	n				
Pinus ayacahuite var. veitchii	30	HC	1900 3200	C Mexico	3				
Pinus balfouriana	20	H	1600 3700	USA (N California, Sierra Nevada)	9		1		Bokrijk
Pinus banksiana	25	H	800	NE Canada, NE USA	56	* 3	4	16	Bokrijk, Kalmthout, Rendeux, Tervuren (160), ...

NOTES: this list excludes hybrids and horticultural varieties ● IUCN red listed wild collected: * = 1 ** = 2 *** = 3 or more ^ = indoors (at NBGB Meise)

H Σ = summary indicator of hardiness based on: Hillier (2002), Krüssmann (1983), Eckenwalder (2009) & other sources; + region & altitudinal range + personal observation
 H = fully hardy C = half hardy K = not hardy H (underscore) = hardiness indicator is proven in Belgium

No. BGCI = number of Botanic gardens worldwide, according to BGCI database (June 2010) "n" = data not available

occurrences in Belgian collections: NBGB Meise, source: LIVCOL database (March 2010; updated Sept. 2010)
 Other Belgian gardens: PLANTCOL database (Oct. 2009): PLANTCOL: Antwerpen, Bokrijk, Gent, Kalmthout, Leuven, Rendeux, Wespelaar
 BELTREES database (April 2010)
 Arb. Het Leen Eeklo (source: website August 2010); Arb. Tervuren (source: curators)
 (285) = circumference of Belgian champion tree (source: Beltrees)

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						number of accessions	PLANTCOL	BELTREES	
						NBGB Meise			
Pinus bhutanica	25	CK		SW China, Tibet, Bhutan, NE India	4				
● Pinus brutia	25	CK	100	1500 E Mediterranean; around the Black sea	19		*	1	Rendeux
Pinus brutia var. brutia	25	CK	100	1500 E Mediterranean; around the Black sea	2				
Pinus brutia var. eldarica	25	CK	100	1500 Georgia, Azerbaydzhan	5				
Pinus brutia var. pendulifolia	25	CK	100	1500 Turkey	n				
● Pinus brutia var. pityusa	25	CK	100	1500 Georgia, Russia, Ukraine	2				
Pinus bungeana	25	H	500	1800 China (S gansu, W Henan, W Hubei, ...)	66	6	*	5	Bokrijk, Gent, Kalmthout, Wespelaar, Het Leen, ...
Pinus canariensis	40	K	1200	2200 Canary Islands	33				
Pinus caribaea	40	K	300	700 Caribbean, C America	7				
● Pinus caribaea var. caribaea	40	K	300	700 Cuba	2				
● Pinus caribaea var. bahamensis	40	K	300	700 Bahamas, Turks & Caicos	1				
Pinus caribaea var. hondurensis	40	K	300	700 C America (S Mexico, Belize, to Nicaragua)	4				
Pinus cembra	25	H	1200	2600 Europe (high mountains: Swiss Alps,	69	1	*	4	26 Gent, Kalmthout, Wespelaar, Esneux (285),
Pinus cembroides	8	HC	1400	2300 USA (S Idaho and Utah) to S Mexico	16				
Pinus cembroides subsp. cembroides var.	8	HC	1400	2300 USA (S Idaho and Utah) to S Mexico	n				
Pinus cembroides subsp. cembroides var. bicolor	8	CK	1500	2400 N Mexico, USA (Arizona, New Mexico)	2				
● Pinus cembroides subsp. lagunae	8	CK	1200	1850 Mexico (S Baja California)	0				
Pinus cembroides subsp. orizabensis	8	CK	1400	2300 S Mexico (Puebla)	1				
Pinus clausa	20	HC	1	60 USA (C & N Florida, Mexican Gulf,	4			1	Bokrijk
Pinus contorta	10	H	1	600 S Alaska, British Columbia, SW USA	38			5	15 Bokrijk, Rendeux, Wespelaar, Tervuren (209), ...
Pinus contorta var. contorta	10	H	1	600 Alaska to N California	38	**	2		
Pinus contorta var. latifolia	10	H	500	3000 Alaska to Colorado	45			6	5 Kalmthout (154), Rendeux, Tervuren, Hoeilaart,
Pinus contorta var. murrayana	10	H	400	3000 USA (Oregon, California)	15				2 Tervuren, Spa (140)
Pinus coulteri	25	CK	1	2200 USA (California) Mexico (Baja California)	51	*	1	*	6 Bokrijk, Wespelaar, Het Leen
Pinus cubensis	20	K	200	3000 Caribbean (E Cuba)	4				

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			Σ				number of accessions			
							NBGB Meise	PLANTCOL	BELTREES	main occurrences (other than Meise)
● Pinus culminicola	2	HC	3000	3700	Mexico	4				Waasland
● Pinus dalatensis	40	K	1400	2300	C Vietnam	0				
Pinus dalatensis subsp. dalatensis var. dalatensis	40	K	1400	2300	C Vietnam	n				
Pinus dalatensis subsp. dalatensis var. bidoupensis	40	K	1400	2300	C Vietnam	n				
Pinus dalatensis subsp. procera	40	K	1400	2300	C Vietnam	n				
Pinus densata	30	HC	400	3100	China (SW Sichuan and Yunnan)	10				
Pinus densiflora	35	H	1	2300	Japan, Korea, Russian far east, China	66	** 3	* 2	2	Bokrijk, Rendeux, Herent, Hoeilaart (160)
Pinus devoniana	30	K	900	2500	C & S Mexico	7		* 1		Rendeux
Pinus douglasiana	45	HC	1400	2500	SW Mexico	1				
Pinus durangensis	40	CK	2000	2800	Mexico (Sierra madre occidental)	4			1	Bokrijk
Pinus echinata	35	CK	150	600	SE USA	19				
Pinus edulis	8	HC	1400	2300	SW USA	22				Tervuren
Pinus elliotii	30	K	1	5	SE USA (S Carolina, to Florida)	11				
Pinus elliotii var. elliotii	30	K	1	5	SE USA (S Carolina, to N Florida)	n				
Pinus elliotii var. densa	30	K	1	5	SE USA (S Florida)	1				
Pinus engelmannii	30	CK	1500	2800	USA (S Arizona, SW New Mexico), Mexico	10			1	Bokrijk
Pinus fenzeliana	50	CK	1000	1600	China (Anhui, Guangdong, ..); N Vietnam	21				Waasland
Pinus flexilis	20	H	1000	3700	Canada (Alberta); W USA (N Mexico)	44			1	5 Rendeux, Het Leen, Tervuren (328), Hoeilaart, ...
Pinus flexilis var. flexilis	20	H	1000	3700	Rocky mountains:Canada (Alberta); W	n				
Pinus flexilis var. reflexa	20	HC	1000	3700	USA (S Arizona, New Mexico) Mexico	3				
Pinus gerardiana	25	CK	2000	3350	Himalayas (India; NE Afghanistan, N	18				
Pinus glabra	35	K	1	150	USA (S Carolina to Louisiana)	4				
Pinus greggii	25	CK	1300	2700	Mexico (Sierra Madre Oriental)	16			3	Bokrijk, Kalmthout, Het Leen
Pinus greggii var. greggii	25	CK	2300	2700	Mexico (Nuevo Leon, San Luis Potosi)	n				
● Pinus greggii var. australis	25	CK	1300	2700	Mexico (Queretaro, Hidalgo, Puebla)	0				
Pinus halepensis	20	CK	1	1700	Coastal region of the Mediterranean sea	45	* 2			Het Leen

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Pinus hartwegii	30	CK	2500	4000	N & C Mexico; Guatemala	8						
Pinus heldreichii	30	H	1000	2500	Balkan peninsula (Albania, Bosnia	36	*	6	2	4	Bokrijk, Wespelaar, Tervuren, Herent (84)	
Pinus henryi	25	HC	100	2600	China (Hubei, Hunan, Shaanxi, Sichuan)	2						
Pinus herrerae	35	CK	1500	2600	W Mexico (E and S Sierra Madre)	1						
Pinus hwangshanensis	50	CK	600	3400	E China	9						
Pinus jaliscana	40	CK	1800	3000	Mexico	1						
Pinus jeffreyi	50	H	1000	3000	USA (Sierra Nevada); NW Mexico	57	*	2	4	8	Kalmthout 213), Wespelaar, Herent, Hoeilaart, Spa, ...	
Pinus kesiya	35	K	800	2700	SE Asia	2		1 ^				
Pinus kesiya var. kesiya	35	K	800	2700	SE Asia	n						
Pinus kesiya var. langbianensis	35	K	800	2700	China; Laos, Vietnam, Thailand;	n						
Pinus koraiensis	30	H	200	2500	NE China; Russian FE; Korea; Japan	62			*	3	2	Bokrijk, Rendeux, Het Leen, Hoeilaart (121), Herent, ...
● Pinus krempfii	50	K	1300	2000	Vietnam	1						
Pinus lambertiana	75	HC	600	2400	W USA; Mexico (Baja California)	19			1		Rendeux	
Pinus latteri	30	K	0	1200	SE Asia	0						
Pinus lawsonii	30	K	1300	2600	S Mexico	1						
Pinus leiophylla	30	K	1800	3000	Mexico	2						
Pinus leiophylla var. leiophylla	30	K	1800	3000	Mexico	n						
Pinus leiophylla var. chihuahuana	30	K	1800	3000	Mexico; USA (Arizona, New Mexico)	1			1		Bokrijk	
● Pinus longaeva	15	HC	1700	3400	SW USA	7	**	2			Het Leen	
Pinus luchuensis	20	K	1	700	Japan (Okinawa; Ryuku)	4						
Pinus lumholtzii	20	K	1600	2700	S Mexico	4						
Pinus luzmariae	15	CK	500	2400	Central America							
Pinus massoniana	45	CK	4	2000	China, Taiwan	16					Wespelaar	
Pinus massoniana var. massoniana	45	CK	4	2000	China (Hainan)	n						
● Pinus massoniana var. hainanensis	45	CK	4	2000	China (Hainan)	2						
● Pinus maximartinezii	15	CK	1800	2400	Mexico	14	*	1				

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Pinus maximinoi	40	K	500 2800	C & S Mexico; Guatemala	3				
● Pinus merkusii	50	K	800 2000	SE Asia	2				
Pinus monophylla	8	HC	1400 2300	USA (California) Mexico (B California Norte)	34		2		Bokrijk, Kalmthout, Het Leen
Pinus montezumae	30	K	1200 3500	S Mexico; Guatemala	39		* 1		Rendoux
Pinus montezumae var. montezumae	30	K	1200 3500	S Mexico; Guatemala	n				
Pinus montezumae var. gordoniana	30	K	1200 3500	S Mexico; Guatemala	n				
Pinus monticola	70	HC	1 3200	NW USA; SW Canada	39	* 1	1		Kalmthout, Tervuren
Pinus morrisonicola	30	CK	300 2300	Taiwan	3				
Pinus mugo	5	H	1000 2300	N Mediterreanean; Central Europe	69	2	* 17	1	Bokrijk, Gent, Leuven, Het Leen, Tervuren, ...
Pinus mugo subsp. mugo	5	H	1000 2300	N Mediterreanean; Central Europe	43	8			
Pinus mugo subsp. rotundata	5	H	1000 2300	N Mediterreanean; Central Europe	14	1	1		Bokrijk
Pinus muricata	25	CK	1 300	SW USA; Mexico (Baja California)	27		2		Kalmthout
● Pinus nelsonii	10	K	1800 2500	NE Mexico	5				
Pinus nigra	45	H	250 1800	C & SE Europe; Caucasus	65		3	43	Kalmthout, Wespelaar, Tervuren, Ixelles (405), ...
Pinus nigra subsp. nigra	45	H	200 1200	E Europe: Austria, Romania, Slovenia, ...	49	7	6	138	Bokrijk, Kalmthout, Wespelaar, Huy (650), ...
● Pinus nigra subsp. dalmatica	35	H		Croatia	5	* 1			Tervuren
Pinus nigra subsp. laricio	35	H		Corsica; S Italy	36	* 2	12	74	Bokrijk, Kalmthout, Wespelaar, Brugge (445),
Pinus nigra subsp. pallasiana var. fastigiata	45	H	200 1200	Turkey	9				
Pinus nigra subsp. pallasiana var. pallasiana	45	H	200 1200	Crimea; Black Sea coast of the Caucasus	35	1	** 3	1	Gent, Wespelaar, Tervuren (326)
Pinus nigra subsp. salzmannii	35	H		S France, Spain, N Africa (Morocco,	19	* 1		1	Tervuren, Brugge
Pinus occidentalis	20	K	200 3200	Haiti, Dominican Republic	4				
Pinus oocarpa	15	K	500 2400	Central America	8				
● Pinus palustris	47	CK	1 700	SE USA	11				
Pinus parviflora	25	H	60 2500	Japan (W Honshu, Shikoku, Kyushu);	48	2		6	Het Leen, Sint-Niklaas (175), Hoeilaart, Herent, ...
Pinus parviflora var. parviflora	25	H	60 2500	Japan (W Honshu, Shikoku, Kyushu);	3				
Pinus parviflora var. pentaphylla	25	H	60 2500	Japan (W Honshu, Shikoku, Kyushu);	3				Het Leen

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Pinus patula	40	K	1800	3000	Mexico (mountain)	25				
Pinus patula var. patula	40	K	1800	3000	Mexico (mountain)	n				
Pinus patula var. longipedunculata	40	K	1800	3000	Mexico (mountain)	n				
Pinus peuce	40	H	600	2200	Balkan peninsula	58	3	4	12	Bokrijk, Kalmthout, Rendeux, Baelen (265),
Pinus pinaster	40	H	1	2000	W. Mediterranean; N. Africa & S. Europe	41	3	3	14	Bokrijk, Rendeux, Houthalen(218), Wespelaar, ...
Pinus pinaster subsp. escarena	30	HC	1	400	SW Europe	n				
Pinus pinaster subsp. pinaster	30	H	1	400	S Europe	n				
Pinus pinaster subsp. renoui	30	HC		2000	NW Africa (Atlas)	0				
Pinus pinceana	10	HC	1500	2300	N Mexico	4				Waasland
Pinus pinea	25	CK	1	600	S Europe (S Italy, S Spain, S Portugal)	58		** 9	1	Bokrijk, Gent (206), Rendeux, Wespelaar, Tienen, ...
Pinus ponderosa	39	H	1	3300	S British Columbia; W USA; Mexico	70	* 3	14	40	Bokrijk, Kalmthout, Rendeux, Seraing (353),
Pinus ponderosa var. ponderosa	39	H	1	3300	S British Columbia; W USA; Mexico	9				
Pinus ponderosa var. scopulorum	39	H	2000	2600	S British Columbia; W USA; Mexico	23			1	Tervuren, Hoeilaart
Pinus praetermissa	20	K	1200	2500	Mexico	0				
Pinus pringlei	25	K	1500	2700	S Mexico (subtropical)	2				
Pinus pseudostrobus	40	CK	1900	3000	Mexico, Guatemala, El Salvador, Honduras	16				
Pinus pseudostrobus var. pseudostrobus	40	CK	1900	3000	Mexico, Guatemala, El Salvador, Honduras	1				
Pinus pseudostrobus var. apulcensis	40	K	1900	3000	Mexico, Guatemala, El Salvador, Honduras	2				
Pinus pumila	4	H	1400	3200	E. Siberia; N Mongolia; Korea; Japan; China	43	* 1			
Pinus pungens	15	HC	500	1300	E USA	16				
Pinus quadrifolia	8	HC	1400	2300	USA (California); Mexico (Baja California)	5				
Pinus radiata	15	CK	300	1160	USA (California)	33	1	1		Kalmthout
Pinus radiata var. radiata	15	CK	300	1160	USA (California)	2				
● Pinus radiata var. binata	15	CK	300	1160	Mexico Islands of Guadalupe and Cedros	3				
Pinus remota	8	HC	1400	2300	USA (Texas); NE Mexico	1				
Pinus resinosa	40	H	200	800	NE America	32				Tervuren

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Pinus rigida	20	H	1	1400 NE America	49	* 3	10	13	Gent, Kalmthout, Tervuren, Baelen (195), ...	
Pinus roxburghii	55	CK	400	2300 Himalaya: Afghanistan, Pakistan, Bhutan,	13	1 ^				
● Pinus rzedowskii	30	CK	2100	2400 Mexico	0					
Pinus sabiniana	25	CK	50	1800 USA (California)	28		1		Bokrijk	
Pinus serotina	20	CK	1	100 SE USA	6					
Pinus sibirica	40	H	100	2400 Siberia	32					
● Pinus squamata	10	CK		2200 China (NE Yunnan)	0					
Pinus strobiformis	30	CK	1900	3500 N Mexico; USA (Arizona)	16				Het Leen	
Pinus strobus	45	H	5	1500 E USA	72	5	* 17	129	Bokrijk, Gent, Kalmthout, Rendeux, Gesves (195), ...	
Pinus strobus var. strobus	45	H	5	1500 E USA	1					
● Pinus strobus var. chiapensis	30	CK	500	2250 S Mexico, Guatemala	4					
Pinus sylvestris	35	H	1	2600 N Europe	87	3	** 33	66	Bokrijk, Gent, Kalmthout, Gesves (315), Rendeux, ...	
Pinus sylvestris var. sylvestris	35	H	1	2600 N Europe	n					
Pinus sylvestris var. hamata	35	H	500	2600 Ukraine, Caucasus, Turkey	12				Tervuren	
Pinus sylvestris var. mongolica	35	H	300	2000 Mongolia, NW China, S Siberia	32					
Pinus tabuliformis	25	H	100	2600 China, Korea	53	* 2			Tervuren	
Pinus tabuliformis var. tabuliformis	25	H	100	2600 China (Gansu, Hebei, Liaoning, Ningxia, ...)	1					
Pinus tabuliformis var. mukdensis	30	H		N Korea	4					
Pinus tabuliformis var. umbraculifera	25	H	1	900 China	n					
Pinus taeda	46	H	1	700 E USA	26			1	Tervuren	
Pinus taiwanensis	35	K	750	3500 Taiwan	16					
Pinus taiwanensis var. taiwanensis	35	K	750	3500 Taiwan	n					
Pinus taiwanensis var. fragilissima	20	K	800	3400 Taiwan	n					
● Pinus tecunumanii	30	CK		1600 Central America	2					
Pinus teocote	20	CK		3000 Mexico, Guatemala	6					
Pinus thunbergii	40	H	1	1000 Japan (Honshu, Shikoku, Kyushu; S Korea)	50	* 2	*** 4		Wespelaar, Het Leen, Tervuren	

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● Pinus torreyana	15	K	1	150 USA (California)	28		1		Bokrijk
● Pinus torreyana subsp. torreyana	15	K	1	150 USA (California)	1				
● Pinus torreyana subsp. insularis	15	K	1	150 USA (S California)	1				
Pinus tropicalis	30	K	1	150 W Cuba	2				
Pinus uncinata	25	H	1	2300 S W&C Europe (Austria to Spain)	31	1	2	1	Gent, Kalmthout, Tervuren, Brussels (Varia)
Pinus virginiana	18	H	1	900 E USA	26				
Pinus wallichiana	50	H	1800	3900 Himalaya	74	3	3	43	Bokrijk, Rendeux, Wespelaar, Tervuren (317), ...
Pinus wallichiana var. wallichiana	50	H	1800	3900 Himalaya	n				
Pinus wallichiana var. parva	40	H		3000 Himalaya	n				
● Pinus wangii	20	CK	500	1800 China(SE Yunnan); probably also in	1				
Pinus yunnanensis	30	HC	600	3000 China (Yunnan, Sichuan)	16	* 1	1		Bokrijk
Pinus yunnanensis var. yunnanensis	30	HC	600	3000 China (Yunnan, Sichuan)	2				
Pinus yunnanensis var. pygmaea		HC	2200	3100 China (Yunnan, Sichuan)	n				