

Chestnut Importations into the US

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The American chestnut trees in the New England woods are still sprouting, becoming infected with chestnut blight disease, dying, and sprouting again. Occasionally they become large enough to flower and, if another chestnut tree nearby is flowering, produce nuts. This keeps hope alive for repopulating the forest with trees that would provide nuts and timber. While breeding work is continuing, the final "perfect timber trees" are not yet available. However, other species and hybrids offer alternatives for the backyard, or professional orchardist. In previous centuries, chestnut trees were very important to the people on this continent. They took advantage of "new and different" material much more than is generally realized, and were planting Asian species long before chestnut blight was discovered in New York City in 1904. The USDA imported many seeds, and the Plant Introduction and Forest Pathology numbers can be searched for specific information about where the seed came from. I have started compiling some information about the history of chestnut importations into North America, to help people better appreciate this valuable resource. This will also be of value to people who know that "Grandpa got some chestnut trees called MAB from the government." and would like to know the origin of those trees.

1773 Castanea sativa

Thomas Jefferson brought cuttings of European chestnuts to his home, Monticello, and grafted them onto native American chestnut trees.

1799 Castanea sativa

Eleuthere Irenee DuPont de Nemours moved from France to Bergen Point, NJ, and then to Brandywine, DE. He brought many European chestnuts with him, imported more later, hybridized them and planted them all over the area.

1876 Castanea crenata

In 1876, the S. B. Parsons Co. in Flushing, NY imported Japanese chestnuts through Thomas Hogg, who spent several years in Japan collecting many kinds of rare trees and shrubs. The same year, the J. M. Thorburn Co. imported tea chests full of lily bulbs, and one contained Japanese chestnuts instead. The nuts were planted in F. W. Bruggerhof's garden in Stamford (Noroton), Connecticut, and some trees fruited two years later. Seedlings had been given to his friends, and soon attracted attention because of the large size of the nuts. Mr. Parsons marketed these trees and their seedlings as "Japan Chestnut" until Andrew S. Fuller (in his treatise on nut culture in 1896) proposed calling it "Parson's Japan." Japanese chestnuts have leaves that are smaller than the American or European. They are long and narrow, with many leaf hairs on the underside, and teeth that are small and sharply pointed. The nuts are large, but the pel is not easily removed, and tannins make them bitter until they are cooked. These trees are among the most resistant to Chestnut Blight Disease, Phytophthora root disease (Ink Disease), and the many insects that attack the nuts.

There are three of these Parsons' Japan chestnut trees still growing in Connecticut: One is behind the Congregational Church in Cheshire, one is in front of the Bee and Thistle Inn in Old Lyme, and one is on the grounds of P. T. Barnum's house in Bridgeport. The tree in Cheshire was probably planted by Tilton Munson or his son, who were then the owners of the property. In the 1940's, the owner was Mr. A. N. Sheriff, headmaster of the Cheshire Academy, who gave Arthur Graves permission to use the tree in crosses. We have no information on the people who planted the Bee and Thistle tree. The Old Lyme Inn, across the street from the Bee and Thistle, has Japanese chestnuts that look like the 'Japan Giant' sold by Ellwanger and Barry (Mt. Hope nurseries) in Rochester, NY, and these provide pollen for the Bee and Thistle tree.

1882 Castanea crenata

William Parry of Parry, NJ, imported 1,000 grafted trees, and selected 'Parry' for sale.

1886 Castanea crenata

Luther Burbank imported 10,000 nuts for selecting and hybridizing. In 1893, he sold three trees to Judge Andrew J. Coe of Meriden, CT. These were sold in 1897 to J. H. Hale of South Glastonbury who named them 'Coe', 'Hale', and 'McFarland' and sold them from his nursery.

1900 the 'Paragon' hybrid

[from Powell, 1899]

Great American (PA State Hort. Assoc. Proc. 1887)

Paragon (Popular Gardening, Dec. 1888)

"Burs immense, flattened, spines very long, branched, husk fleshy: nuts large, three or more in a bur, apex broad, depressed, 34 mm broad, 30 long, 23 thick, pubescent at tip, and slightly over two-thirds, dull dark brown, ridged, quality excellent; tree hardy, spreading, vigorous; foliage distinct, narrow, coarsely serrate, tapering gradually at the point, base narrow, subject to leaf blight; enormously productive, ripens at Parry, NJ Oct 10-15."

"Probably a seedling of a European chestnut, popularly supposed to have been planted by George Washington, standing at the first of this century on the west bank of the Schuylkill, above Philadelphia, on land owned by Richard Peters. The parent nut was obtained by the late W. L. Shaffer, Germantown, PA, and was planted there more than fifty years ago (exact date unknown), on land now occupied by the Deaf and Dumb Asylum. About 1875 the late H. M. Engle, Marietta, PA obtained grafts through Mr. Thomas Meehan, and introduced the nut in the early eighties, first as *Great American*, from its supposed American origin, and later as *Paragon*, when its European descent was fully accepted. Its early prestige was a result of its supposed American origin, it being referred to the American type in its early references. Bailey, in 1891, (Am. Garden), classed it as an American from the tapering form, and broad, deep serrations of the leaf, which are similar in the American foliage.

The form of the leaves alone support the supposed American origin of the 'Paragon' but the thickness of the foliage, which I have found a much less variable character than form, is distinctly European; the narrow base of the leaf is more European than American; and the low, spreading tree is distinctly European. It is not unlikely that the parent nut resulted from American pollen on the European pistil, for the Americans and Europeans readily cross; or, what is equally probably, the form of the foliage may be a varietal variation from the type. I am personally inclined to the latter view, as I find many gradations in form in the foliage of the European type, the same tree, as the 'Ridgely', or 'Styer' often producing leaves which vary from the abrupt to the narrow, long, tapering point.

I am indebted to Mr. Thomas Meehan for the facts concerning the parentage and early history of the 'Paragon'."

The Sober Groves

From the report of Ernest A. Sterling to the NY Legislature, 1903

"Mr. Coleman K. Sober is a wealthy lumberman of Lewisburg, PA, a man who has long been identified with the lumbering interests of central PA, an ardent sportsman, an advocate of forest and game protection, and on the whole a strong, energetic individual with an inborn ability to make a success of whatever he undertakes. The motive which impelled him to make a costly experiment in chestnut culture was found in the desire to reclaim the waste lands of the State, and in the belief that a properly conducted chestnut grove would be a paying business venture. The idea of grafting chestnut trees came to Mr. Sober when, as a boy, he helped his father graft apple trees on the old farm, which is now the improved country estate of which the chestnut groves are a part. There existed near the old farmhouse a large native chestnut tree, the decrepit remains of which can still be seen, that bore chestnuts of unusual size and excellent flavor. To graft scions from this tree upon the poorer native chestnut trees of the vicinity was a boyhood dream, which was always discouraged; so that the realization of the desire came only recently, and not until Mr. Sober had grown to mature manhood. Of course when the work of grafting chestnut trees was finally taken up on a large scale it was not the fine old native chestnut which furnished the scions, but rather the larger and more valuable imported or improved native varieties which were used. True to his old desire, however, Mr. Sober grafted a number of trees with twigs from the old native tree, but as yet they are not old enough to bear profusely.

The chestnut grove proper is a part of Mr. Sober's large model farm, and is divided into two detached parcels with a total area of nearly 300 acres, the exact acreage not being known. In location it is in Irish Valley about six miles from the small station of Paxinos on the Philadelphia and Reading Railroad and some eight miles from the mining town of Shamokin.

In the choice of species very little experimental work has been done. It was early decided that the 'Paragon' nut was the best; hence this variety alone has been grafted extensively. Investigations in other orchards, and the literature consulted, confirm this choice of variety as a wise one. Compared with the common European and Japanese chestnuts the 'Paragon' is more prolific, less troubled by curculio, comes into bearing sooner, and has a finer flavored nut. In size, too, the nuts are equal to the best. With selected nuts thirty two will weigh one pound, while many specimens will cover a silver dollar. The rapidity with which the 'Paragon' will come into bearing is also astonishing. One little two-year-old graft, no higher than a man's shoulder, last year matured fifty-six burs; while a tree three to four years old will produce a pint or two of nuts......There are

approximately 240 grafted trees per acre in Mr. Sober's grove at present. The total number of trees is probably not far from 75,000."

From the Northunberland County, Pennsylvania Annals, p. 340

"Rows of young trees have been grafted to the Sober Paragon nut, and heavy shipments are made each season. At first the orders were mainly from the New England States, but now they come from all parts of this country and even from Europe. In 1908 a solid carload of the Sober Paragon nut went to Seattle, Wash. In the summer of 1910, a Seattle man who had an ambition to enter the business on a large scale offered to buy Mr. Sober's entire yield for that year. Several carloads of young trees are sold every spring. In 1910 Mr. Sober shipped and sold to one concern, Glen Brothers of Rochester, NY, seven carloads of bearing trees, and in addition to this shipment sold to various other concerns over five thousand grafted trees (nursery stock, two and a half to three feet high). In 1911 he shipped to Glen Brothers two carloads (one shipment) of bearing trees, eight to twelve feet in height, and in addition to the same concern at various times over ten thousand trees."

1903 Chestnuts in Pennsylvania and New Jersey Chestnuts

From the report of Ernest A. Sterling to the NY Legislature, 1903

Sober 300 acres central PA near Shamokin

75,000 grafted 'Paragon'

Albion 150 acres Clementon, NJ

9,000 to 15,000 grafted trees, mostly 'Numbo"

Mammoth 120 acres Clementon, NJ

As Albion

Moon (nursery) Morrisville, PA

Grafted and sold, mostly 'Numbo', original from France or England, 1850

Comfort 1 acre Fallsington, PA

56 grafted trees, mostly 'Numbo'

Lovett 22 acres Emilie, PA

1,200 grafted trees, mostly 'Paragon'

Collins 30 acres Morristown, NJ

Grafted many cultivars, 'Paragon' best

Parry Brothers Nursery Cinnaminson, NJ

Many grafted seedlings, \$90 per 100

Williams Riverton, NJ 7,500 seedlings grafted with European and Japanese cultivars

Beecher ~80 acres Pottsville, PA 18,000 grafted 'Paragon'

Useful References

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People:

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Records fro	m the Plant Introduction Publications, 1901 through 1929
(The	Plant Introduction gardens were in Bell, MD and Chico, CA)
DATE 1001	P.I. NUMBER SPECIES AND INFORMATION
<u>1901</u>	6520 Castanas sp
	6530 Castanea sp. G.D. Brill; Hankow, China, no distribrution
	6533 Castanea sp.
	G.D. Brill; Ichang, China, no distribution
	6634 Castanea sp.
	G.D. Brill; "seed mixed, large and medium" China, no distribution
<u>1902</u>	
	8362 Castanea sp.
	Lathrop and Fairchild; Canton, China
	8393 Castanea crenata
<u>1904</u>	"Japan Mammoth," L. Boehmer & Co., Yokohama, Japan
1904	12773 Castanea crenata
	F.W. Bruggerhof, president of J.M. Thorburn Co.,
	New York City
<u>1905</u>	·
	12681 Castanea vesca [sativa]
	San Giovanni a Teduccio near Naples through Damman & Co.
	13130 Castanea crenata
	T.E. Steele, Palmyra, NY 13131 Castanea sativa
	T.E. Steele, Palmyra, NY
(1906?)	T.E. Oteele, Fairnyra, Wi
<u> </u>	17876 Castanea sativa
	Market in Peking, from Chee-san near Chang-li, China
	Frank Meyer, no distribution
	17877 Castanea sativa
	Peking market, China, as 17876, ordinary chestnut
	Frank Meyer, no distribution 17896 Castanea sativa
	Tientsin market, China
	Frank Meyer, no distribution
<u>1907</u>	r raint meyer, ne dietheaden
	21875 Castanea sativa
	Pangshan, Chihli, China, called San li tse shu
	Frank Meyer
<u>1909</u>	20020 204 Contains mumilia V Contains arounds
	26230-231 Castanea pumila X Castanea crenata VanFleet, Little Silver, NJ
	26232-233 Castanea pumila X Castanea, "Paragon"
	VanFleet, Little Silver, NJ
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26234-235 Castanea pumila X Castanea crenata F2 selfed, VanFleet, Little Silver, NJ

<u>1910</u>

27587 Castanea (Korean)

Yokohama Co. (purchased from nursery)

28513 Castonopsis

"Ber shin tze," Wu chang, Hupeh, China

1911

32323 Castanea sativa

Kutien, Fukien, China

Dr. T. H. Coole, no distribution

32365 Castanea sativa

Dong Ding Mountain, near Soochow, China, no distribution Nathaniel Gist Gee, Soochow University, Soochow

1912

34517 Castanea sp.

wild, Tientsin, China planted in row M16

<u>1913</u>

35891 Castanea mollissima

"Lee tze," Frank Meyer #1867a low branching, open headed San Tun Ying, China

35917 Castanea sp.

Seoul, Chosen, Korea

free from insect injury, very sweet, loose pellicle

36666 Castanea mollissima

"Lee tze," Frank Meyer #1893a

Pang shan region, northeast of Peking

250 lbs. of seed (!)

1914

37547 Castanea mollissima

Frank Meyer #1103

Yatzeko (villege), south of Sianfu, China said to have large fruits, very blight resistant

37548 Castanea mollissima

"K'uei li tzu," Frank Meyer #2005a one days' journey south of Sianfu a "Lee tze" type with very large nuts

37799 Castanea mollissima

"K'uei li tzu," Frank Meyer #2006a Yatzeko, China (same as 37548) not very hardy north of Washington, D.C., no distribution 37800 Castanea mollissima

"Yin li tzu" (means Silver Chestnut),

Frank Meyer #2007a

ordinary local chestnut, small nuts,

low branching, not tall, leaves persist until spring

38182 Castanea mollissima

Frank Meyer #2013a

Taishan region near Taianfu, Shantung, China

very susceptible to blight,

nuts peculiar, bent in at tops

39550 and 39551 Castanea sp.

Nanking, China (collected inside city)

Rev. Joseph Baille, University of Nanking, no distribution

39618 Castanea sp.

Songdo, Chosen, Korea

39413 Castanea crenata

"Imperial," Tokyo, Japan

1915

39717 Castanea sp.

Anhwei, Nanking, China

39866 Castanea sp.

China

39721 Castanea mollissima

Tientsin, China

Samuel S. Knabenshue, American Consul General

39965 Castanea crenata

Buitenzorg, Java

40035 Castanea sp.

Frank Meyer #2173a

Huihsien, Kansu, China

medium tall, slender trunk, bark smoother than

mollissima; leaves, burs, and nuts small,

likes shade, damp soil

40036 Castanea sp.

Frank Meyer #2174a

Chenghsien, Kansu, China

as 40035, wild in mountains, mild climate only, no distribution

40209 Castanea sp.

Scions from trees inside the city, Nanking, Kiangsu, China

Joseph Baille

40508 Castanea mollissima

Frank Meyer #2179a

"Qui li tzu," more resistant to blight than

normal, Yatzeko, S of Sianfu, Shensi, China, no distribution

<u>1915?</u>

41357 Castanea pumila x C. crenata

Seed from Bell, MD #9860, tree 18

Produced by Dr. Walter Van Fleet at Little Silver, NJ 27 trees grown at Chico, CA Plant Introduction Station

<u>1916</u>

43832 Castanea henryi

cuttings from the Arnold Arboretum, Boston, MA probably #551 of E.H. Wilson from 1908

1917 44197 Castanea mollissima

Frank Meyer #2324a

Pangshan district NE of Peking

dark colored nuts

44198 Castanea mollissima

Frank Meyer #2325a

Pangshan district NE of Peking

light colored nuts

44448 Castanea mollissima

Anhwei (Anking) province, China

Rev. Joseph Bailie (sic.)

44440 Castanopsis sp.

Anchin, Anhwei province, China

45255 Castanea crenata

Y. Kin, China, Hangchow, Chekiang Province

large nutted variety

45256 Castanea crenata

as above

small nutted variety

45329 Castanea neglecta

D. Grinnan, Madison Co., VA, Rapidan River bank

assumed to be a hybrid, pumila X dentata

<u>1918</u>

45330 to 45342 Castanea sp.

various o.p. seeds from W. Van Fleet, Bell, MD.

45507 Castanea sp.

o.p. seeds from J.W. Killen, Felton, DE

45670 Castanea henryi

Scions from the Arnold Arboretum, Boston, MA

45858-45866 Castanea spp.

cuttings from Van Fleet, Bell, MD

45947 Castanea mollissima

Frank Meyer #2457a

"Ta pan li tze" "large board oak" seeds

Ichang, Hupeh, China (mountains)

45948 Castanea mollissima

Frank Meyer #2458a

"Wa li tze" "bean chestnut" wholly resistant to blight, wild trees 3000 to 6000 above sea

level, Wantiaoshan, Hupeh, China

45949 Castanea seguinii

Frank Meyer #2459a

"Moh pan li," "hairy board oak" shrubby

chinquapin totally resistant to blight

Ichang, Hupeh, China, 2 ozs. Seed in very poor condition

46780 Castanea mollissima

Wushek, N China

G. Weidman Groff, 15 nuts

46822-46831 Castanea neglecta

Cape Henry, VA

47330-47348 Castanea dentata

scions of trees found by A.H. Graves,

collected by W. Van Fleet

may have some blight resistance

<u>1919</u>

48555 Castanea crenata

Kobe, Japan

seeds being loaded for shipment to America

48556 Castanea crenata?

Foochow, China, seeds from the market

1921

52387 Castanea diversifolia

Bangkok, Siam

Mighty trees with wonderful crown, straight trunks, fine wood, nuts sweet and tasty, prolific bearers

J. F. Rock

1922

55079 Castanea sativa

Vilmor in-Andrieux & Co., Paris, France

Leaves of various shapes, "heterophylla"

55827 Castanea sativa

C.S. Sargent

From T.H. Symington's land in Morristown, N.J.

55930 Castanea mollissima

J.F. Rock #6165

Yangpi Mts. Near Tsangshan Range, China

55983 Castanea sp.

J.F. Rock #6256

8000 to 9000 ft, Yangpi Mts., China, dead at both Chico and Bell

55984 Castanea sp.

J.F. Rock #6256

wild trees, 8000 ft, Haitung Range east of Lake Tali, China

56080 Castanea sp.

J.F. Rock #6682

8200 ft, W of Talifu and 12 mi from Yungping, China

Dead Chico and Bell, 1924

56081 Castanea sp.

Seeds and plants

J.F. Rock #6683

Yellow clay forest 6 mi from Paitoupu, China

Burs in lateral spikes, dark green, leathery leves

56082 Castanea sp.

Seeds and plants

J.F. Rock #6683a

As above, smaller burs, spines different

Dead at Chico and Bell, 1924

56083 Castanea sp.

Seeds and plants

J.F. Rock #6686

Near Talipingpu, W of Talifu, China

Failed to grow at Bell

56118 Castanea sp.

J.F. Rock (no number)

Kancha, N of Tengyueh, China

Failed to grow at Bell

56119 Castanea sp.

J.F. Rock #6683

Paitoupu, China, failed to grow at Chico, CA and at Bell, MD

56128 Castanea sp.

J.F. Rock #6714

6,500 ft, N of Manchi, China

failed to grow at Chico, CA and at Bell, MD

56129 Castanea sp.

J.F. Rock #6715

Tops of ridges above Menglien, China

failed to grow at Bell, MD

56130 Castanea sp.

J.F. Rock

Vicinity of Tengyueh, Yunnan

56392 Castanea mollissima

Near Ming Tombs at Hsing-chuang, Chihli, China

C. A. Reed

56393 Castanea mollissima

Street seller in Anshan, north of Lanchow, China

failed to grow at Bell, MD

56394 Castanea mollissima

Market in Tsinan, Shantung, north of Tsinan, China failed to grow at Bell, MD

56395 Castanea mollissima

Market in Yihsien, Shantung, China

failed to grow at Bell, MD

56396 Castanea mollissima

Market in Shihkiachwang, Chihili, China

failed to grow at Bell, MD

56397 Castanea mollissima

Market in Yanchiachaun, Chili, near Cupu in the Lanchow-Changli district, China, failed to grow at Bell, MD

56439 Castanea sp.

From Lancaster, PA, from the Kinshan Arboretum near Shanghai, China, J. F. Jones, failed to grow at Bell, MD

56488 Castanea sp.

Wild tree in the Shiku Valley, Yangtze River, two days travel west of Likiang, China (J. F. Rock?)

56677 Castanea sp.

J.F. Rock

56761 Castanea mollissima

Wan Chia Chang, north west of Changli, Chihli, China

J. F. Rock? failed to grow at Bell, MD

1923

56768 Castanea sp.

Shweli Valley ~ 6,000 ft., Yunnan, China solitary nuts, one of the finest forest tree of Yunnan, J. F. Rock

56777 Castanea sp.

Small fruit, triangular nuts, J. F. Rock

1924

58602 Castanea mollissima

Nanking, China

Seed purchased from Prof. J.H. Reisner, Forestry

University of Nanking

58659 Castanea mollissima

Yangchialou, north of Yihsien, Shantung, China

K. M. Gordon

58719 Castanea mollissima

Tsili, Taianhsien Kinkou, Shantung, China

Rev. S. Emmet Stephens

58720 Castanea mollissima

Chuchenghsien, Shantung, China

Rev. S. Emmet Stephens

58721 Castanea mollissima Tanghsien, Shantung, China

Rev. H. G. Romig

58722 Castanea mollissima

Yencheng, Shantung, China

Rev. H. G. Romig

58723 Castanea mollissima

Peihsien, Shantung, China

Rev. H. G. Romig

58725 Castanea mollissima

from Shanyu, Chekiang, (Shangyu?), China

Rev. J. E. Shoemaker

61834 Castanea sp.

Fa Hua Ssu temple, Taitzu, Chihli, China

P.H. Dorsett #790

Finest nuts and trees seen

61835 Castanea sp.

Fa Hua Ssu temple, Taitzu, Chihli, China

P.H. Dorsett #791

Ordinary nuts and trees

62129 Castanea mollissima

N China, hardy, blight-resistant trees

1925

62257 Castanea sp.

"Hu chaoli Tzu" "Tiger Paw," same as #61834

P.H. Dorsett #1677

62258 Castanea sp.

same as #61835, P.H. Dorsett #1678

62393 Castanea mollissima

"Fung Lut," Lungtin, Kwangtung, China

F.A. McClure #23

62764 Castanea sp.

Same source as #61834, nuts ripen later

P.H. Dorsett #1871

65450 Castanea henryi

from C.S. Sargent, Arnold Arboretum

probably their Wilson import, as 43832

65619 Castanea mollissima

Scions of "Ta chao li tze" "Tiger Paw,"

Fa Hua Ssu Temple near Peking, same as #61834

J.H. Dorsett #4687

65620 Castanea mollissima

"Pai lu li tze" "White Dew,"

Fa Hua Ssu Temple near Peking, same as #61835

J.H. Dorsett #4688

1926

65715 Castanea henryi

Nanking, Chinese Nursery

W. Young Chun

65805 Castanea mollissima

Chukkouen, Lohkongtung, Canton, China

"Fung lut" and "Hong lut" nuts almost completely covered by hairs

F. A. McClure #185

65806 Castanea mollissima

Chukkouen, Lohkongtung, Canton, China

Also "Fung lut" and "Hong lut" but nuts deep brown-red, and completely free from appressed hairs

F. A. McClure #186

58658 Castanea mollissima

Fa Hua Ssu Temple near Peking, China

"Pai Lui tze", the white dew chestnut

P. H. Dorsett #4666

65859 Castanea mollissima

Fa Hua Ssu Temple near Peking, China

Mixed seeds of "Erh Luli tze" (second crop chestnut) and

"Han Luli tze" (cold dew chestnut)

P. H. Dorsett

65861 Castanea mollissima

Fa Hua Ssu Temple near Peking, China

Hu chaoli tze (tiger paw chestnut)

P. H. Dorsett

66036 Castanea henryi

Purchased from Prof. J. H. Reisner, University of Nanking, China

66037 Castanea mollissima

Purchased from Prof. J. H. Reisner, University of Nanking, China

66038 Castanea seguinii

Purchased from Prof. J. H. Reisner, University of Nanking, China

67173 Castanea henryi

"Kwai Lam Yui" seed purchased in Wuchow, Kwangsi, and said to have come from Lwailam, Kwongsai, China

F. A. McClure

69536 Castanea mollissima

Scions and cuttings from "Tao woh lut", (early-rice chestnut)

Shuisai, Lohkongtung, China

F. A. McClure

70254 Castanea henryi

"Tuk Lut tsz", (solitary chestnut seed), seed and scions

Chinhwashaan, Anhwei, China

F. A. McClure

70317 Castanea seguinii

"Mo lut tsz" a bush or low tree, occasionally up to 40 ft.

Chiuhwashaan, Anhwei, China

F. A. McClure #700

70319 Castanea henryi

From Nanking, China

Purchased from Prof. J. H. Reisner, University of Nanking, China

70320 Castanea henryi

From Nanking, China

Purchased from Prof. J. H. Reisner, University of Nanking, China

70321 Castanea seguinii

"Tuk Lut tsz", (solitary chestnut seed), seed

Chinhwashaan, Anhwei, China

F. A. McClure

70755 Castanea henryi

Scions from a tree planted by Dr. Walter Van Fleet, Bell, MD about 1916, his tree from a scion from the Arnold Arboretum in Boston grafted on seedlings of *Castanea crenata*

1927

71027 Castanea mollissima

"Han luli tze" (cold dew chestnut)

From the Fa Hua Ssu Temple near Peking, China

P. H. Dorsett #8868

71028 Castanea mollissima

"Erh luli tze" (second crop chestnut)

From the Fa Hua Ssu Temple near Peking, China

P. H. Dorsett #8869

71029 Castanea mollissima

"Hue haoli tze" (tiger paw chestnut)

From the Fa Hua Ssu Temple near Peking, China

P. H. Dorsett #8870

72096 Castanea mollissima

"Pai lu li tze" (white dew chestnut)

Fa Hua Ssu Temple near Peking, China

P. H. Dorsett #8776

72097 Castanea mollissima

"Erh luli tze" (second crop chestnut)

From the Fa Hua Ssu Temple near Peking, China

P. H. Dorsett #8886

72098 Castanea mollissima

"Han luli tze" (cold dew chestnut)

From the Fa Hua Ssu Temple near Peking, China

P. H. Dorsett #8886

74157 Castanea mollissima

Singapore, Straits Settlements, Botanic Garden

R. E. Holttum

1928

76010 Castanea mollissima

"Hue haoli tze" (tiger paw chestnut)

From the Fa Hua Ssu Temple near Peking, China

Peter Liu

76087 Castanea mollissima

Scions of "Hue haoli tze" (tiger paw chestnut)

From the Fa Hua Ssu Temple near Peking, China

Peter Liu

78504 Castanea henryi

Scions from Bell MD, grafted on Castanea crenata at the U.S. Plant

Field Station in in Glen Dale, MD

78505 Castanea henryi

Scions from Bell MD, grafted on Castanea crenata at the U.S. Plant

Field Station in in Glen Dale, MD

1929

78744 Castanea mollissima

"Hue haoli tze" (tiger paw chestnut)

From the Fa Hua Ssu Temple near Peking, China

Peter Liu

Seeds sown in the Plant Introduction Station at Bell, MD with the row designations (letters), Pl numbers and numbers assigned by Fred Berry, species,

and year planted.

Row	PI#	Fred Berry #	Species	date
Α		76196	C. crenata	1929
В		76097, 76105,	C. crenata	1929
		76187		
С		76093	C. crenata	1929
D		77214	C. crenata	1929
E		76090	C. crenata	1929
F		77225	C. crenata	1929
G		77217	C. crenata	1929
Н		77242	C. crenata	1929
1		77213	C. crenata	1929
J		77226	C. crenata	1929
K		77210	C. crenata	1929
L		77205	C. crenata	1929
(M)				
Ň		76192	C. crenata	1928
0		77238	C. crenata	1928
Р		77222	C. crenata	1928
Q		76202	C. crenata	1928
R		76094	C. crenata	1928
S		77218, 77219	C. crenata	1928
*S	9860	Walter Van	C. pumila x C.	Before 1915
		Fleet hybrid	crenata	
Т		77216	C. crenata	1928
U		77209	C. crenata	1928
V		76201	C. crenata	1928
W		76186	C. crenata	1928
Χ		76088	C. crenata	1928
Υ		77241	C. crenata	1928
Z		77240, 77236	C. crenata	1928
AA		77228	C. crenata	1927
AB	75469, 75472,	72311	C. crenata	1927
	75473, 75474,			
	75476			
AC	75477		C. crenata	1927
AD	75478		C. crenata	1927
AE	75479		C. crenata	1927
AF	75480		C. crenata	1927
AG	75481		C. crenata	1927
AH	75482		C. crenata	1927

Al	75483, 75485, 75486, 75487, 75488, 75489, 75490	C. crenata	1927
(AJ)			
AK	75491	C. crenata	1927
AL	75492	C. crenata	1927
AM	75493, 75494	C. crenata	1927
AN	75495	C. crenata	1927
AO	75496	C. crenata	1927
AP	75497	C. crenata	1927
AQ	75498	C. crenata	1927
AR	75499	C. crenata	1927
AS	75500, 75501	C. crenata	1927
AT	75502	C. crenata	1927
AU	75503	C. crenata	1927
AV	75504	C. crenata	1927
AW	75505	C. crenata	1927
AX	75506	C. crenata	1927
AY	75507	C. crenata	1927
BA	75508	C. crenata	1927
BB		C. crenata	1927
BC	75509	C. crenata	1927
BD		C. crenata	1927
BE	75511	C. crenata	1927
BF	75512	C. crenata	1927
BG	75513	C. crenata	1927
BH	75514	C. crenata	1927
BI	75515	C. crenata	1927
BJ	75516	C. crenata	1927
BK	75517	C. crenata	1927
BL	75518	C. crenata	1927
BM	75519	C. crenata	1927
BN	75520	C. crenata	1927
ВО	75521	C. crenata	1927
BP	75522	C. crenata	1927
BQ	75523	C. crenata	1927
BR	75524	C. crenata	1927
BS	75525	C. crenata	1927
(BT)			
BU		C. crenata	1927
BV		C. crenata	1927
BW		C. crenata	1927
BX		C. crenata	1927
BZ		C. crenata	1927

00		77004	Caranata	1000
CC		77221	C. crenata	1929
DD		77220	C. crenata	1929
EE		77204	C. crenata	1929
FF		77200	C. crenata	1929
GG		75197	C. crenata	1929
HH		76188	C. crenata	1929
II		76095	C. crenata	1929
JJ		76091 & 76092	C. crenata	1929
KK		77239	C. crenata	1929
LL		77234	C. crenata	1929
(MM)				
NN		77233	C. crenata	1929
00		77229	C. crenata	1929
PP		77215	C. crenata	1929
QQ		77206	C. crenata	1929
RR		77202	C. crenata	1929
SS		76187	C. crenata	1929
TT		76096	C. crenata	1929
UU		76089	C. crenata	1929
VV	80388		C. species	1929
WW	78644		C. crenata	1929
(XX)				
YY		77207	C. crenata	1929
ZZ		76198	C. crenata	1928
(DA-DD)			0.0.0.0.0.0.	
DE	85767		C. crenata	1929
DF	85765		C. crenata	1929
DG	85769		C. crenata	1929
DH	85770		C. crenata	1929
(DI)	00770		O. oronata	1020
DJ	85771		C. crenata	1930
DK	85772		C. crenata	1930
(DL)	03112		C. Grenata	1950
DM	85774		C. crenata	1930
DN			C. crenata	1930
DO	85775 85776		C. crenata	1930
DP	85777		C. crenata	1930
DQ	85778		C. crenata	1930
DR	85779		C. crenata	1930
DS	85780		C. crenata	1930
DT	85781		C. crenata	1930
DU	87582		C. crenata	1930
DH	85770		C. crenata	1930
(DI)	05774			1000
DJ	85771		C. crenata	1930

DK	85772		C. crenata	1930
(DL)				
DM	85774		C. crenata	1930
DN	85775		C. crenata	1930
DO	85776		C. crenata	1930
DP	85777		C. crenata	1930
DQ	85778		C. crenata	1930
DR	85779		C. crenata	1930
DS	85780		C. crenata	1930
DT	85781		C. crenata	1930
DU	85782		C. crenata	1930
DV	85783		C. crenata	1930
DW	85784		C. crenata	1930
DX	85785		C. crenata	1930
DY	85786		C. crenata	1930
DZ	85787		C. crenata	1930
(EA-EE)				
ÈF	85788		C. crenata	1929
EG	85789		C. crenata	1929
EH	85790		C. crenata	1929
(EI)				
ÈJ	85791		C. crenata	1929
EK	85792		C. crenata	1929
EL	85793		C. crenata	1929
EM	85794		C. crenata	1929
EN	85795		C. crenata	1929
EO	85796		C. crenata	1929
EP	85797		C. crenata	1929
EQ	85798		C. crenata	1929
(ER)				
ĖS	85801		C. crenata	1929
ET	85802		C. crenata	1929
EU	85803		C. crenata	1929
EV	85804		C. crenata	1929
(EW-EZ)				
FA		76194	C. crenata	1928
GA	95576		C. crenata	1932
GB	95577		C. crenata	1932
GC	95578		C. crenata	1932
GD	95579		C. crenata	1932
GE	98256		C. crenata	1932
GF & GU	98733		C. crenata	1932
GH	98734		C. crenata	1932
GI	98735		C. crenata	1932
GJ	98736		C. crenata	1932

014	101=0=			
GK	101705		C. crenata	
GL	101704		C. crenata	
GM	104014		C. crenata	
GN	104015		C. crenata	
GO	104016		C. crenata	
GP	104017		C. crenata	
GQ	104018		C. crenata	
GR	104019		C. crenata	
GS	104020		C. crenata	
GT	104021		C. crenata	
GU	98733		C. crenata	1932, 1933
GV	108815		C. crenata	1934
GW	113678		C. crenata	1936, 1937
GX	113677		C. crenata	1936
GY	113676		C. crenata	1936
GZ	113679		C. crenata	1936
AAA		76193	C. crenata	1928
BBB		76191	C. crenata	1928
CCC		76190	C. crenata	1928
DDD		77203	C. crenata	1928
EEE		1.1200	i.d. lost	1020
ERA	85799		C. crenata	1929
ERB	85800		C. crenata	1929
FFF	00000	76189	C. crenata	1928
GAA	113674	70103	C. crenata	1936
GAB	113675		C. crenata	1936
GLS	101704		C. crenata	1933
GLL	101704		C. crenata	1933
OLL	101704		O. Grenata	1900
MA		77227	C. mollissima	1929
IVIA		11221	(Korea)	1929
MB		77232	C. mollissima	1929
IVID		11232	(Korea)	1929
MC		77233	C. mollissima	1929
IVIC		11233	(Korea)	1929
MD		77230	C. mollissima	1929
טועו		11230	(Korea)	1323
ME	85805		C. mollissima	1929
IVIL	03003		(Korea)	1323
MF	85806		C. mollissima	1930
MG	85807		C. mollissima	1930
MH			C. mollissima	1930
	85808	7010		
MI	86872	7810	C. mollissima	1930
			(Japan)	

MJ	86873	7811	C. mollissima	1930
			(Japan)	
MK	95615	17984	C. mollissima	1932
ML	95641	18011	C. mollissima	1932
MM	95642	18012	C. mollissima	1932
MN	95643	18013	C. mollissima	1932
MO	95644	18014	C. mollissima	1932
MP	95645	18015	C. mollissima	1932
MQ	95646	18016	C. mollissima	1932
MR	95647	18017	C. mollissima	1932
MS	95648	18018	C. mollissima	1932
MT	97853	19132	C. mollissima	1932
MU	98001	19307	C. mollissima	1932
MV	98002	19308	C. mollissima	1932
MW	98003	19309	C. mollissima	1932
MX	101588	23378	C. mollissima	1932
MY	101589	23393	C. mollissima	1932
MZ	101590	23379	C. mollissima	1932
MKO	mixed F2 of		C. mollissima	1934
	MK to MS in			
	RANDLE			
	NURSERY			
MAA	101591	23380	C. mollissima	1933
MAB	101592	23381	C. mollissima	1933
MAC	101593	23382	C. mollissima	1933
MAD	101594	23383	C. mollissima	1933
MAE	101595	23384	C. mollissima	1933
MAF	101596	23392	C. mollissima	1933
MAG	101599	23385	C. mollissima	1933
MAH	101598	23386	C. mollissima	1933
(MAI)				
MAJ	101600	23389	C. mollissima	1933
MAK	101601	23390	C. mollissima	1933
MAL	101602			
MAM	101603	23388	C. mollissima	1933
MAN	101982	23898	C. mollissima	1933
MAO	101983	23899	C. mollissima	1933
MAP	101606	23395	C. mollissima	1933
MAQ	101690	23396	C. mollissima	1933
MAR	101601?	23397	C. mollissima	1933
MAS	101605	23398	C. mollissima	1933
MAT	104059	27060	C. mollissima	1934
MAU	104061	27062	C. mollissima	1934
MAV	104062	27063	C. mollissima	1934
MAW	104063	27065	C. mollissima	1934

MAX	104060	27061	C. mollissima	1934
MAY	108553	34096	C. mollissima	1935
MAZ	108554	24097	C. mollissima	1935
MBA	108552		C. mollissima	1935
MBB	113664		C. mollissima	1936
MBC	113665		C. mollissima	1936
MBD	113663		C. mollissima	1936
MBE	113666		C. mollissima	1936
MBF	113669		C. mollissima	1936
MBG	113667		C. mollissima	1936
MBH, MBJ	113668		C. mollissima	1936
MBK	134722		C. mollissima	1939
MBL	134723		C. mollissima	1939
MBM	134724		C. mollissima	1939
MBN	134725		C. mollissima	1939
MB0	134726		C. mollissima	1939
MBP	134727		C. mollissima	1939
MBQ	134728		C. mollissima	1939
MBR	134729		C. mollissima	1939
MBS	134730		C. mollissima	1939
MBT	153153		C. mollissima	1946
MCH	Seedlings of 78744 from CHICO		C. mollissima	
HA	05004		C Honni	4022
HB	95631 95633		C. Henryi	1932 1932
НС	101587		C. Henryi	1932
HD	104057		C. Henryi	1934
HE	104058		C. Henryi	1934
(HF)	104056		C. Henryi	1934
HG	108550		C. Henryi	1935
(HH – HI)	100000		С. Пенту	1933
HJ	108551		C. Henryi	1935
HK	113661		C. Henryi	1936
(HL)	128570		C. Henryi	1938
(120010		O. Hierriyi	1900
SA	101607		C. seguinii	1933
SB	104064		C. seguinii	1934
SC	108555		C. seguinii	1935
SD	112753		C. seguinii	1935
SE	120647		C. seguinii	1937
OL	120041		U. Seguiriii	1331

Forest Pathology numbers and Bell planting designations.

44 Van Fleet, mixed hybrids, PA seed mollissima 45 crenata X mollissima 46 crenata 48 crenata 52 crenata 53 Bell 54 crenata 55 crenata 56 45947 o.p. mollissima 57 crenata crenata 58 crenata crenata 60 crenata crenata 61 crenata crenata 62 crenata crenata 63 crenata crenata 64 mollissima crenata 65 crenata crenata 66 vesca crenata 67 crenata crenata 68 crenata crenata A Beattie #731 78024 crenata A-75 Japanese x Chinese hybrid, Bell, MD crenata B Beattie #721 78014 crenata C-1 Chinese 34517 <th>FP# 36 40 41 41A 42 43</th> <th>Scions Nuts, W.Va W.VA Bell, M</th> <th></th> <th>, NY</th> <th><u>PI #</u> 75416 75420 75423</th> <th>Species crenata crenata (crenata x pumila) o.p. (dentata x pumila) o.p. (crenata x pumila) F3 "probably" mollissima</th>	FP# 36 40 41 41A 42 43	Scions Nuts, W.Va W.VA Bell, M		, NY	<u>PI #</u> 75416 75420 75423	Species crenata crenata (crenata x pumila) o.p. (dentata x pumila) o.p. (crenata x pumila) F3 "probably" mollissima
C-1	44			A see	ed	
46 48 crenata 52 crenata 53 Bell mollissima 54 crenata hybrids 55 crenata 56 45947 o.p. mollissima 57 crenata crenata 58 crenata crenata 59 crenata crenata 60 Castanea sp. crenata 61 crenata crenata 62 crenata crenata 63 crenata crenata 64 wesca crenata 65 crenata crenata 66 vesca crenata 67 crenata crenata 68 crenata			•			mollissima
48 Grenata 52 Crenata hybrids 53 Bell mollissima 54 Crenata hybrids 55 crenata 56 45947 o.p. mollissima 57 crenata crenata 58 crenata crenata 60 Castanea sp. crenata 61 crenata crenata 62 crenata crenata 63 crenata crenata 64 mollissima crenata 65 crenata crenata 66 vesca crenata 67 crenata crenata 68 renata crenata 69 Beattie #731 78024 crenata 60 crenata crenata 61 crenata crenata 62 crenata crenata 63 crenata crenata 64 mollissima crenata 65 <t< td=""><td>45</td><td></td><td></td><td></td><td></td><td>crenata X mollissima</td></t<>	45					crenata X mollissima
52 Bell mollissima 54 crenata hybrids 55 crenata 56 45947 o.p. mollissima 57 crenata crenata 58 crenata crenata 59 crenata crenata 60 Castanea sp. crenata 61 crenata crenata 62 crenata mollissima 63 crenata crenata 64 wesca crenata 65 crenata crenata 66 vesca crenata 67 crenata crenata 68 crenata crenata 60 vesca crenata 67 crenata crenata 68 crenata crenata 60 vesca crenata 61 crenata crenata 62 crenata crenata 63 crenata crenata 64	46					crenata
53 Bell mollissima 54 crenata hybrids 55 45947 o.p. mollissima 56 45947 o.p. mollissima 57 crenata crenata 58 crenata crenata 69 Castanea sp. crenata 61 crenata crenata 62 crenata crenata 63 crenata crenata 64 mollissima crenata 65 crenata crenata 66 vesca crenata 67 crenata crenata 68 a phoritisma 67 crenata crenata 68 crenata crenata 67 crenata crenata 68 crenata crenata 67 crenata crenata 68 crenata crenata 69 Beattie #717 78008 crenata 60 Beattie #760	48					crenata
54 crenata hybrids 55 crenata 56 45947 o.p. mollissima 57 crenata crenata 58 crenata crenata 69 Castanea sp. crenata 61 crenata crenata 62 crenata crenata 63 crenata crenata 64 mollissima crenata 65 crenata crenata 66 vesca crenata 67 crenata crenata 68 crenata crenata 69 actile #731 78024 crenata 60 crenata crenata crenata 61 crenata crenata crenata 62 crenata crenata crenata 63 crenata crenata crenata 64 mollissima crenata crenata 65 crenata crenata crenata 66 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td>						•
55 crenata 56 45947 o.p. mollissima 57 crenata crenata 58 crenata crenata 59 crenata crenata 60 Castanea sp. crenata 61 crenata crenata 62 crenata crenata 63 crenata crenata 64 mollissima crenata 65 crenata crenata 66 vesca crenata 67 crenata crenata A Beattie #731 78024 crenata Crenata crenata crenata C Beattie #721 78014 crenata C Beattie #717 78008 crenata C-1 Chinese 34517 mollissima C Beattie #749 78627 crenata E Beattie #760 78637 crenata F Beattie #760 78637 crenata G Beattie #762 78630 crenata H Beattie #748 78626 crenata I Beatt		Bell				
56 45947 o.p. mollissima 57 crenata crenata 58 crenata crenata 59 crenata crenata 60 Castanea sp. crenata 61 crenata crenata 62 crenata mollissima 63 crenata crenata 64 vesca crenata 65 crenata crenata 66 vesca crenata 67 crenata crenata C Beattie #731 78024 crenata Crenata crenata crenata C Beattie #721 78014 crenata C Beattie #717 78008 crenata C-1 Chinese 34517 mollissima D Beattie #749 78627 crenata E Beattie #712 & #715 78005 crenata F Beattie #760 78637 crenata G Beattie #762 78630 crenata H Beattie #748 78626 crenata I Beattie #748 78626 crenata <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td>						•
57 crenata 58 crenata 59 crenata 60 Castanea sp. 61 crenata 62 crenata 63 crenata 64 mollissima 65 crenata 66 vesca 67 crenata 68 crenata A Beattie #731 78024 crenata crenata crenata A-75 Japanese x Chinese hybrid, Bell, MD B Beattie #721 78014 crenata C Beattie #717 78008 crenata C-1 Chinese 34517 mollissima D Beattie #749 78627 crenata E Beattie #712 & #715 78005 crenata F Beattie #760 78637 crenata G Beattie #762 78630 crenata H Beattie #748 78626 crenata I Beattie #748 78626 crenata J Beattie #761 78638 crenata					-	
58 crenata 59 crenata 60 Castanea sp. 61 crenata 62 crenata 63 crenata 64 mollissima 65 crenata 66 vesca 67 crenata 68 crenata A-75 Japanese x Chinese hybrid, Bell, MD B Beattie #721 78014 crenata C Beattie #717 78008 crenata C-1 Chinese 34517 mollissima D Beattie #749 78627 crenata E Beattie #712 & #715 78005 crenata F Beattie #760 78637 crenata G Beattie #762 78649 crenata H Beattie #748 78626 crenata I Beattie #761 78638 crenata K Beattie #745 78624 crenata			•	45947	o.p.	
59 crenata 60 Castanea sp. 61 crenata 62 crenata 63 crenata 64 mollissima 65 crenata 66 vesca 67 crenata 68 crenata A-75 Japanese x Chinese hybrid, Bell, MD B Beattie #721 78014 crenata C Beattie #717 78008 crenata C-1 Chinese 34517 mollissima D Beattie #749 78627 crenata E Beattie #749 78627 crenata F Beattie #760 78637 crenata G Beattie #762 78630 crenata H Beattie #772 78649 crenata I Beattie #748 78626 crenata J Beattie #761 78638 crenata K Beattie #745 78624 crenata						
60						
61 62 63 64 65 65 66 67 68 A Beattie #731 A-75 Japanese x Chinese hybrid, Bell, MD B Beattie #721 C Beattie #717 C Beattie #717 B Beattie #749 C-1 Chinese B Beattie #749 C Crenata C C CRENATA C C						
62 63 64 65 66 67 68 A Beattie #731 78024 crenata A-75 Japanese x Chinese hybrid, Bell, MD B Beattie #721 78014 crenata C Beattie #717 78008 crenata C-1 Chinese 34517 mollissima C-1 Chinese 34517 mollissima D Beattie #749 78627 crenata E Beattie #712 & #715 78005 crenata F Beattie #760 78637 crenata F Beattie #762 78630 crenata H Beattie #772 78649 crenata I Beattie #748 78626 crenata K Beattie #761 78638 crenata K Beattie #761 78638 crenata						•
63 64 65 65 66 67 67 68 A Beattie #731 78024 crenata A-75 Japanese x Chinese hybrid, Bell, MD B Beattie #717 78008 crenata C Beattie #717 78008 crenata C-1 Chinese 34517 mollissima C-1 Chinese 34517 mollissima D Beattie #749 78627 crenata E Beattie #760 78637 crenata F Beattie #760 78637 crenata G Beattie #762 78630 crenata H Beattie #772 78649 crenata I Beattie #748 78626 crenata J Beattie #761 78638 crenata K Beattie #761 78638 crenata						
65						
65						
66 vesca 67 crenata 68 crenata A Beattie #731 78024 crenata crenata A-75 Japanese x Chinese hybrid, Bell, MD Date of the control of the con						
67 68 A Beattie #731 78024 crenata A-75 Japanese x Chinese hybrid, Bell, MD B Beattie #721 78014 crenata C Beattie #717 78008 crenata C-1 Chinese 34517 mollissima D Beattie #749 78627 crenata E Beattie #712 & #715 78005 crenata F Beattie #760 78637 crenata G Beattie #762 78630 crenata H Beattie #772 78649 crenata I Beattie #748 78626 crenata J Beattie #761 78638 crenata K Beattie #745 78624 crenata						
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A Beattie #731 78024 crenata A-75 Japanese x Chinese hybrid, Bell, MD B Beattie #721 78014 crenata C Beattie #717 78008 crenata C-1 Chinese 34517 mollissima D Beattie #749 78627 crenata E Beattie #712 & #715 78005 crenata F Beattie #760 78637 crenata G Beattie #762 78630 crenata H Beattie #772 78649 crenata I Beattie #778 78626 crenata J Beattie #761 78638 crenata K Beattie #745 78624 crenata						
A-75 Japanese x Chinese hybrid, Bell, MD B Beattie #721 78014 crenata C Beattie #717 78008 crenata C-1 Chinese 34517 mollissima D Beattie #749 78627 crenata E Beattie #712 & #715 78005 crenata F Beattie #760 78637 crenata G Beattie #762 78630 crenata H Beattie #772 78649 crenata I Beattie #748 78626 crenata J Beattie #761 78638 crenata K Beattie #745 78624 crenata	00	Α	Beattie #731	78024	ļ	
B Beattie #721 78014 crenata C Beattie #717 78008 crenata C-1 Chinese 34517 mollissima D Beattie #749 78627 crenata E Beattie #712 & #715 78005 crenata F Beattie #760 78637 crenata G Beattie #762 78630 crenata H Beattie #772 78649 crenata I Beattie #748 78626 crenata J Beattie #761 78638 crenata K Beattie #745 78624 crenata						o, o, i ata
C Beattie #717 78008 crenata C-1 Chinese 34517 mollissima D Beattie #749 78627 crenata E Beattie #712 & #715 78005 crenata F Beattie #760 78637 crenata G Beattie #762 78630 crenata H Beattie #772 78649 crenata I Beattie #748 78626 crenata J Beattie #761 78638 crenata K Beattie #745 78624 crenata			•	•		crenata
C-1 Chinese 34517 mollissima D Beattie #749 78627 crenata E Beattie #712 & #715 78005 crenata F Beattie #760 78637 crenata G Beattie #762 78630 crenata H Beattie #772 78649 crenata I Beattie #748 78626 crenata J Beattie #761 78638 crenata K Beattie #745 78624 crenata						
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G Beattie #762 78630 crenata H Beattie #772 78649 crenata I Beattie #748 78626 crenata J Beattie #761 78638 crenata K Beattie #745 78624 crenata		Е	Beattie #712 & #715		78005	crenata
H Beattie #772 78649 crenata I Beattie #748 78626 crenata J Beattie #761 78638 crenata K Beattie #745 78624 crenata		F	Beattie #760	78637	•	crenata
I Beattie #748 78626 crenata J Beattie #761 78638 crenata K Beattie #745 78624 crenata		G	Beattie #762	78630)	crenata
J Beattie #761 78638 crenata K Beattie #745 78624 crenata		Н	Beattie #772	78649)	crenata
K Beattie #745 78624 crenata		1	Beattie #748	78626	;	crenata
			Beattie #761	78638	}	crenata
L Beattie #740 78620 crenata		K				crenata
		L				crenata
L-21 Chinese x Japanese hybrid, Bell, MD		L-21	Chinese x Japanese	hybrid	d, Bell, MD	

	M	no record		
	M-16	seedlings of PI#345	17 from Savannah,	•
	M-33			alnifolia X mollissima
	M-38			<i>japonica</i> hybrid
	N	Beattie #728	78021	crenata
	0	Beattie #768 1/2	78645	crenata
	O-7			mollissima
1344	O-16	OR Chinese x Japa	nese hybrid, Bell, MI	D
	O-70			mollissima
	Р	Beattie #757	78635	crenata
	P45			mollissima
	P72			mollissima
	Q	Beattie #734	78028	crenata
	R	Beattie #718	78009	crenata
	S	Beattie #753	78631	crenata
	S-8	Van Fleet hybrid		pumila X crenata
102	S-68	Chinese, Tree #68,	Bell, MD, original Ko	rea
104	S-68	Beattie #61731, Yol		crenata
	T	Beattie #751	78629	crenata
	U	Beattie #744	78623	crenata
	V	Beattie #736	78030	crenata
	W	Beattie #722	78015	crenata
	Χ	Beattie #703	78003	crenata
	Υ	Beattie #771	78648	crenata
	Z	Beattie #770	78647	crenata
	?	Beattie #754	78632	crenata
	?	Beattie #767 ½	78643	crenata
	AA	Beattie #763	78639	crenata
	AB	Beattie #89	75469	crenata
		Beattie #90	75470	crenata
		Beattie #91	75471	crenata
		Beattie #92	75472	crenata
		Beattie #93	75473	crenata
		Beattie #94	75474	crenata
		Beattie #95	75475	crenata
		Beattie #96	75476	crenata
	AC	Beattie #97	75477	crenata
	AD	Beattie #98	75478	crenata
	ΑE	Beattie #99	75479	crenata
	AF	Beattie #100	75480	crenata
	AG	Beattie #101	75481	crenata
	AH	Beattie #102	75482	crenata
	ΑI	Beattie #103	75483	crenata
	AJ	Beattie #104	75484	crenata
		Beattie #105	75485	crenata
		Beattie #106	75486	crenata

	Beattie #107	75487	crenata
	Beattie #108	75488	crenata
	Beattie #109	75489	crenata
	Beattie #110	75490	crenata
AK	Beattie #111	75491	crenata
AL	Beattie #112	75492	crenata
AM	Beattie #113	75493	crenata
	Beattie #114	75494	crenata
AN	Beattie #115	75495	crenata
AO	Beattie #116	75496	crenata
AP	Beattie #117	75497	crenata
AQ	Beattie #118	75498	crenata
AR	Beattie #119	75499	crenata
AS	Beattie #120	75500	crenata
	Beattie #121	75501	crenata
ΑT	Beattie #122	75502	crenata
AU	Beattie #123	75503	crenata
ΑV	Beattie #124	75504	crenata
AW	Beattie #125	75505	crenata
AX	Beattie #125	75506	crenata
ΑY	Beattie#127	75507	crenata
BA	Beattie #128	75508	crenata
BB	Beattie #758	78636	crenata
BC	Beattie #129	75509	crenata
BD	Beattie #130	78023	crenata
BE	Beattie #131	75511	crenata
BF	Beattie #132	75512	crenata
BG	Beattie #133	75513	crenata
BH	Beattie #134	75514	crenata
BI	Beattie #135	75515	crenata
BJ	Beattie #136	75516	crenata
BK	Beattie #137	75517	crenata
BL	Beattie #138	75518	crenata
BM	Beattie #139	75519	crenata
BN	Beattie #140	75520	crenata
ВО	Beattie #141	75521	crenata
BP	Beattie #142	75522	crenata
BQ	Beattie #143	75523	crenata
BR	Beattie #144	75524	crenata
BS	Beattie #145	75525	crenata
BU	Beattie #208, 209, 2		, 245, 262
		75803	crenata
BV	Beattie #211, 212, 2		crenata
BW		75816	crenata
BX	Beattie #228, 229	75818	crenata

BY	Beattie #231	75820 crena	ta
٥,		fair in Kyoto 13 Nov	
	third prize (prize "ta	-	crenata
	Beattie #240	75820	crenata
ΒZ	Beattie #237, 238	75825	crenata
CC	Beattie #756	78634	crenata
DD	Beattie #755	78633	crenata
DE	Beattie #853	85767	crenata
DF	Beattie #854	85768	crenata
DG	Beattie #855	85769	crenata
DH	Beattie #856	85770	
			crenata
DJ	Beattie #857	85771	crenata
DK	Beattie #858	85772	crenata
DL	Beattie #859	85773	crenata
DM	Beattie #860	85774	crenata
DN	Beattie #861	85775	crenata
DO	Beattie #862	85776	crenata
DP	Beattie #863	85777	crenata
DQ	Beattie #864	85778	crenata
DR	Beattie #865	85779	crenata
DS	Beattie #866	85780	crenata
DT	Beattie #867	85781	crenata
DU	Beattie #868	85782	crenata
DV	Beattie #869	85783	crenata
DW	Beattie #870	85784	crenata
DX	Beattie #871	85785	crenata
DY	Beattie #872	85786	crenata
DΖ	Beattie #873	85787	crenata
EE	Beattie #739	78617	crenata
EF	Beattie #874	85788	crenata
EG	Beattie #875	85789	crenata
ΕH	Beattie #876	85790	crenata
EJ	Beattie #877	85791	crenata
EK	Beattie #878	85792	crenata
EL	Beattie #879	85793	crenata
EM	Beattie #880	85794	crenata
EN	Beattie #881	85795	crenata
EO	Beattie #882	85796	crenata
EP	Beattie #883	85797	crenata
EQ	Beattie #884	85798	crenata
ES	Beattie #886	85801	crenata
ET	Beattie #888	85801	crenata
EU	Beattie #888b	85803	crenata
ΕV	Beattie #888c	85894	crenata
FA	Beattie #730	78023	crenata
FF	Beattie #735	78029	crenata

GA to	GD	95576 to 95579	crenata
GE		98256	crenata
GF		98733	crenata
GG	Beattie #732	78026	crenata
GH to	GJ	98734 to 98736	crenata
GK		101705	crenata
GL		101704	crenata
GM to	GT	104014 to 104021	crenata
GU		98733	crenata
GV		108815	crenata
GW		113678	crenata
GX		113677	crenata
GY		113676	crenata
GZ		113679	crenata
HA		95631	henryi
HB		95633	henryi
HC		101587	henryi
HD		104057	henryi
HE		104058	henryi
HF		113662	henryi
HG		108550	henryi
HH	Beattie #724	78017	crenata
HJ		108551	henryi
HK		113661	henryi
HL		120646	henryi
HM		128570	henryi
II	Beattie #719	78010	crenata
JJ	Beattie #713	78006	crenata
	Beattie #714	78007	crenata
KK	Beattie #769	78646	crenata
LL	Beattie #766 ½	78642	
MI		86872	mollissima
MJ	"Mammoth"	86873	crenata
MK		95615	mollissima
ML to	MS	95641 to 95648	mollissima
MT		97853	mollissima
MU to	MW	98001 to 98003	mollissima
MX to	MZ	101588 to 101590	mollissima
NN	Beattie #766 ½	78642	crenata
00	Beattie #764	78640	crenata
PP	Beattie #750	78628	crenata
QQ	Beattie #741	78621	crenata
RG1			crenata
RR	Beattie#737	78617	crenata
SA		101607	seguinii
SB		104064	seguinii

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SC
                                            seguinii
                         108555
SD
                         112753
                                            seguinii
SE
                         120647
                                            seguinii
SS
      Beattie #723
                         78016
                                            crenata
TT
      Beattie #729
                         78011
                                            crenata
UU
      Beattie 704 to 711
                         78004
                                            crenata
VA, VB
                         102266, 102267
                                            sativa
VC
                         103975
                                            sativa
VV
                                            Castanea sp.
      Beattie
                         80388
WW
      Beattie #768
                         78644
                                            crenata
XX
      Beattie #746
                         78625
                                            crenata
YY
      Beattie #742
                         78622
                                            crenata
ZZ
      Beattie #733
                         78027
                                            crenata
AAA Beattie #729-
                         78022
                                            crenata
BBB Beattie #727
                         78020
                                            crenata
CCC Beattie #726
                         78019
                                            crenata
DDD Beattie #738
                         78618
                                            crenata
EEE Beattie, lost i.d., and seed picked up from previously planted
            Beattie crenata in Randle probably crenata
no rowBeattie #703
                         78003
                                            crenata
      Beattie #704-711
                         78004
                                            crenata
      Beattie #712 & 715 78005
                                            crenata
      Beattie #713
                         78006
                                            crenata
      Beattie #714
                         78007
                                            crenata
      Beattie #716-717
                         78008
                                            crenata
      Beattie #718
                         78009
                                            crenata
      Beattie #719
                         78010
                                            crenata
      Beattie #720
                         78011
                                            crenata
      Beattie #721
                         78012
                                            crenata
ERA Beattie #885A
                         85799
                                            crenata
ERB
      Beattie #885B
                         85800
                                            crenata
FFF
      Beattie #725
                         78018
                                            crenata
GAA and GAB
                         113674 and 113675 crenata
MAA to MAF
                         101591 to 101596
                                            crenata
MAG to MAL
                         101599 to 101604
                                            crenata
MAM
                         101606
                                            mollissima
MAN, MAO
                         101982, 101983
                                            mollissima
MAP, MAQ
                         101597, 101598
                                            mollissima
MAR
                         101601
                                            mollissima
MAS
                                            mollissima
                         101605
                   104059 to 101063 mollissima
MAT to MAW
MAX
                         104060
                                            mollissima
MAY and MAZ
                         108553 and 108554 mollissima
MBA
                         108552
                                            mollissima
MBB and MBC
                         113664 and 113665 mollissima
MBD
                         113663
                                            mollissima
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	MBE	113666	mollissima	
	MBF	113669	mollissima	
	MBG, MBJ=MBH	113667, 113668		
	MBK to MBS	134722 to 134730		
	MBT	153153	mollissima	
	MCH seed of PI 78744 se			
			gs of those planted at Bell	
		ter Liu, 'Tiger Paw'		
		from rows MK to MS		
146	Gravett #1		mollissima X chinquapin	
147			chinquapin hybrid	
188	Madison, NJ		dentata	
355	Conroe, Texas		margaretta	
385	mollissima at Bell, o	o.p.	3	
393	mollissima 70315 a	•		
431		, , ,	mollissima X crenata	
432			mollissima X S8	
530	900 lbs. nuts from Tientsir	n, purchased		
	San Francis	co market	mollissima	
531	1100 lbs. of nuts, as above	e	mollissima	
546	Hacketstown, NJ scions		dentata	
555	Glendale, MD		dentata	
564	58602 F2		mollissima	
616	San Francisco market		mollissima	
617	San Francisco market		crenata	
685	Scions, (GA) R2T12 5860	2	mollissima	
686	Scions, (GA) R4T11 5860	2	mollissima	
687	Scions, (GA) R6T5 58602		mollissima	
688	Scions, (GA) R8T16 5860	2	mollissima	
710	San Francisco market		mollissima	
719	58602 o.p.		mollissima	
1000A Scions from F. Gravett, "Scientist's Cliff," MD				
	may have some blight res	istance	dentata	
1170	58602 o.p.		mollissima	
1175			dentata	
1200	66037 o.p.	,	mollissima 	
1320	58602 (6 tre	es o.p.)	mollissima	
1344	O-16		mollissima X crenata (?)	
1346	FP 555 X PI 10783	2	dentata X mollissima	
1349			mollissima X mollissima	
	to 1358		o.p. <i>mollissima</i>	
1445	55984		mollissima	
1464/	4		dentata	
1490			crenata	
1498	1.00	_	mollissima	
1515	L-23 mollissima at Bell o	o.p.		

1520	58602 o.p.	mollissima
1533	66037 o.p.	mollissima
2144		mollissima X (moll. X crenata)
2748		mollissima X mollissima
2849		mollissima X mollissima
4046	<i>mollissima</i> F1 o.p.	
5150		(mollissima X dentata) X moll.
5246		F2 mollissima X dentata
5744		[(moll. X dent.) X moll.] X moll.
5850		(mollissima X dentata) X moll.
6450		(mollissima X dentata) X moll.

R. Kent Beattie notes (no date) Chestnut locations in China

Castanea mollissima sent to the Plant Introduction Station, Bell, MD

Chihli	Chee-san near Chang-li, Meyer Pangshan, N.E. of Peking, Meyer Ming Tombs, Reed Anshan Shihkiachwang Wan Chia Chang, 45 li NW of Changli Fa Hua Ssu, Dorsett	PI 17876 PI 44198 PI 56392 PI 56393 PI 56396 PI 56761 PI 65619
Anhwei	Anking, J. Bailie	PI 44448
Kiangan	Nanking, J. Bailie Soochow, Ding Dong Mt. Isee	PI 40209 PI 58719
Shantung	Chiningchow, Taishan region near Tainfu, Meyer "trees badly attacked by bark disc Tsinan Yangchialou, N of Yihsien, Gordon Taian-hsien Kiukou, Stephens (Reisner) Chuchenghsien, Stephens (Reisner) Tang-hsien, Romig (Reisner) Yen-cheng, Romig (Reisner) Pei-hsien, Romig (Reisner)	PI 38182 ease" (Endothia, 1914) PI 56394 PI 58659 PI 58719 PI 58720 PI 58721 PI 58722 PI 58723
Chekiang	Hangchow Shanyu, Shoemaker (Reisner)	PI 45255 PI 58724
Shensi	Yatzko, S. of Sianfu, PI 40508 Meyer "somewhat more resistant to the bark disease than ordinary Chinese chestnut, propagated by grafting"	
Hupeh	Hankow Ichang	PI 6530 PI 45947
Kansu	Hui-hsien, Meyer Cheng-hsein, Meyer	PI 40035 PI 40036
Yunnan	Tangyueh, Rock Shiku Valley, two days west of Likiang	PI 56130 PI 56488