Table 3.3 (cont'd)
Trees Suitable for Landscape and Conservation Plantings in New York

B. MEDIUM SIZED TREES (35'-75')

1. DECIDUOUS SPECIES	HEIGHT	VAR	FOLIAGE	SITE TOLERANCE: COLD	WET	DRY	SHADE	SEA	CITY	PEST	FEATURES: HABIT	BRK	FLR	FRU	LVS	USES: WIND	SHDE	STRT	WILD	BARR	ORN
ALDER, EUROPEAN Alnus glutinosa	75'		D	X	X						Ov					X					
ALDERS Alnus spp.	60'-75'	X	D,d	X	X					S	Ro			X		X					
ASH, FLOWERING Fraxinus ornus	60'		D,d								Ro		X,f					X			X
ASH, GREEN Fraxinus pennsylvanica	60'	X	D,c,d	X							Ro				X		X	X			
BIRCH, SWEET Betula lenta	75'		D,c	X							Py	X			X		X				X
CHERRY, EUROPEAN BIRD Prunus padus	45'	X	D,u	X							Op		X,f	X					F		
CHERRY, PIN 1 Prunus pensylvanica	36'		D,c,f	X		X	X				Op	X	X	X	X				F		X
CHERRY, SARGENT Prunus sargentii	75'	X	D,c,d								Up	X	X				X	X	F		X
CHESTNUT, CHINESE Castanea mollissima	60'		D,c,d,l								Ro				X				F		
CHOKECHERRY, AMUR Prunus maackii	45'		D,d	X							Ro	X	X						F		X
CRAB APPLE, SIBERIAN Malus baccata	50'	X	D,d	X						S	Na		X,f	X					F		X
CRIMEAN LINDEN X Tilia euchlora	60'	X	D,d,l								Pe		X,f				X	X			
DOGWOOD, FLOWERING Cornus florida	40'	X	D,c,d,l							F	Ho	X	X,u	X	X			X			X
ELM, SIBERIAN Ulmus pumila	75'	X	D,f			X					Ro/OpF					X					
HAWTHORN, COCKSPUR Crataegus crus-galli	36'	X	D,d,l			X				S	Ro/S		X	X	X				F	X	X
HOLLY, AMERICAN Ilex opaca	45'	X	E,d,u					X		F	Py			X	X				WC		X
HORNBEAM, AMERICAN Carpinus caroliniana	36'	X	D,c,d	X						F	Ro	X		X	X		X	X	F		
HORNBEAM, EUROPEAN Carpinus betulus	60'	X	D,d								Py				X			X		X	
HORNBEAM, HOP Ostrya virginiana	60'		D,d							F	Py			X	X				F	X	X

Table 3.3 (cont'd)
Trees Suitable for Landscape and Conservation Plantings in New York

B. MEDIUM SIZED TREES (35'-75')

1. DECIDUOUS SPECIES	HEIGHT	VAR	FOLIAGE	SITE TOLERANCE: COLD	WET	DRY	SHADE	SEA	CITY	PEST	FEATURES: HABIT	BRK	FLR	FRU	LVS	USES: WIND	SHDE	STRT	WILD	BARR	ORN
JAPANESE PAGODA TREE Sophora japonica	75'	X	D			X				F	Ro	X	X				X	X			X
LOCUST, BLACK [2] Robinia pseudoacacia	75'	X	D	X		X					Ov		X								
MAPLE, STRIPED Acer pensylranicum	36'	X	D,u	X			X				Op	X			X						X
MOUNTAIN-ASH, EUROPEAN Sorbus aucuparia	45'	X	D							S	S		X	X	X				F		X
MOUNTAIN-ASH, KOREAN Sorbus alnifolia	60'	X	D,d								Py/Ro	X	X	X	X						X
MULBERRY, WHITE Morus alba	45'	X	D,d,u			X		X			Ro			X	X				F		
OAK, RED Quercus borealis	75'		D,d,l	X					X		Ro			X	X		X	X	F		
OAK, SWAMP WHITE Quercus bicolor	60'		D,d	X	X						Na/Ro				X		X		F		
OAK, WILLOW Quercus phellos	50'		D,f								Ro							X			X
POPLAR, SIMON Populus simonii	50'	X	D,d	X							Na					X					X
REDBUD, EASTERN Cercis canadensis	36'	X	D,c,u								Wo		X		X						X
SASSAFRAS Sassafras albidum	60'		D,u								So	X		X	X						X
SERVICEBERRY Amelanchier spp.	25'-60'		D,c				X	X		S	S	X	X	X	X				F		X
SORREL TREE Oxydendrum arboreum	75'		D,c,d,l								Py		X	X	X						X
WILLOW, THURLOW WEEPING X Salix elegantissima	40'		D,f		X					S	Pe										X
WILLOW, WHITE Salix alba	75'	X	D	X	X						Up	Colored winter twigs									X
YELLOW-WOOD, AMERICAN Cladrastis lutea	50'	X	D,c,d	X							Ro	X	X		X						X

[1] **Spreads rapidly by root suckers**
[2] **Spreads rapidly by root suckers, do not plant near Pine Barrens ecosystems**

Table 3.3 (cont'd)
Trees Suitable for Landscape and Conservation Plantings in New York

B. MEDIUM SIZED TREES (35'-75')

2. EVERGREEN SPECIES	HEIGHT	VAR	FOLIAGE	SITE TOLERANCE: COLD	WET	DRY	SHADE	SEA	CITY	PEST	FEATURES: HABIT	BRK	FLR	FRU	LVS	USES: WIND	SHDE	STRT	WILD	BARR	ORN
ARBORVITAE, AMERICAN Thuja occidentalis	60'	X	E,u	X	X		X	X			Co					X			WC		X
FIR, KOREAN Abies koreana	50'		E,d								Py				X	X			WC		X
FIR, VEITCH Abies veitchii	75'		E,c	X							Py				X	X			WC		
HEMLOCK, CAROLINA Tsuga caroliniana	75'		E,d						X		Py/Pe					X	X		WC	X	
PINE, JACK Pinus banksiana	75'		E	X		X					Bo								WC		
PINE, PITCH Pinus rigida	75'		E			X					Op								WC		
PINE, RED Pinus resinosa	75'		E	X		X					Py					X			WC		
PINE, SCOTCH Pinus sylvestris	75'	X	E	X				X			Op/Py	X				X			WC		
PINE, SWISS STONE Pinus cembra	75'		E,d	X							PyS								WC		X
SPRUCE, BLACK	50'		E,d	X	X		X				Co					X			WC		
SPRUCE, BLACK HILLS	75'		E,d	X		X				F	Co					X			WC		

Table 3.3 (cont'd)
Trees Suitable for Landscape and Conservation Plantings in New York

C. SMALL SIZED TREES (15'-35')

1. DECIDUOUS SPECIES	HEIGHT	VAR	FOLIAGE	SITE TOLERANCE: COLD	WET	DRY	SHADE	SEA	CITY	PEST	FEATURES: HABIT	BRK	FLR	FRU	LVS	USES: WIND	SHDE	STRT	WILD	BARR	ORN
BIRCH, GRAY Betula populifolia	30'		D	X		X				S	several stems	X			X						X
BLACKHAW Viburnum prunifolium	30'		D,c,1	X									X	X	X	X			F	X	
CHERRY, CORNELIAN Cornus mas	24'	X	D,1							F	Ro		X	X	X				F		
CHERRY, SOUR Prunus cerasus	30'	X	D	X							Ro		X	X					F		X
CORK TREE, AMUR Phellodendron amurense	30'		D	X							Wo	X		X	X						
CRABAPPLES Malus spp	15'-30'		D	X						S	Ro		X,s	X				X	F		X
DOGWOOD, JAPANESE Cornus kousa	20'	X	D,d,1								Ho		X,s	X	X						X
HAWTHORNS Crataegus spp	15'-30	X	D,d	X		X				S	Ro/thorny		X	X	X	X			F	X	
LABURNUM SCOTCH Laburnum alpinum	30'	X	D								U		X,u			X					
LILAC, JAPANESE TREE Syringa amurensis japonica	30'		D,coarse									X	X,u			X					X
MAPLE, AMUR Acer ginnala	20'	X	D,c,d,	X			X				Up/Ro		X,f	X	X	X					X
MAPLE, MOUNTAIN Acer spicatum	25'		D,coarse	X			X				Ov			X	X						X
MOUNTAIN-ASH, SHOWY Sorbus decora	30'	X	D	X						S	shrubby		X	X							X
NANNYBERRY Viburnum lentago	30'		D,c,1	X			X				dense/ shrubby		X	X	X	X			F		X
RHODODENDRON, ROSEBAY Rhododendron maximum	12'-36'	X	E	X			X				Ro		X								X
SEA-BUCKTHORN, COMMON Hippophae rhamnoides	30'			X					X		Ro/o		X	X	X						X

Table 3.4
Susceptibility of Tree Species to Compaction[1]

Resistant:

Box elder……	*Acer negundo*	Willows……	*Salix spp.*
Green ash……..	*Fraxinus pennsylvanica*	Honey locust……	*Gleditsia triacanthos*
Red elm……..	*Ulmus rubra*	Eastern cottonwood…….	*Populus deltoides*
Hawthornes……	*Crataegus spp.*	Swamp white oak…….	*Quercus bicolor*
Bur oak……..	*Quercus macrocarpa*	Hophornbeam……	*Ostrya virginiana*
Northern white cedar….	*Thuja occidentalis*		

Intermediate:

Red maple…….	*Acer rubrum*	Sweetgum…….	*Liquidambar styraciflua*
Silver maple……..	*Acer saccharinum*	Norway maple…….	*Acer platanoides*
Hackberry…….	*Celtis occidentalis*	Shagbark hickory…….	*Carya ovata*
Black gum……	*Nyssa sylvatica*	London plane……..	*Platanus x hybrida*
Red oak……	*Quercus rubra*	Pin oak…….	*Quercus palustris*
Basswood…….	*Tilia americana*		

Susceptible:

Sugar maple…….	*Acer saccharum*	Austrian Pine……	*Pinus nigra*
White pine……	*Pinus strobus*	White ash…….	*Fraxinus americana*
Blue spruce……..	*Picea pungens*	Paper birch……..	*Betula papyrifera*
White oak……	*Quercus alba*	Moutain ash…….	*Sorbus aucuparia*
Red pine……..	*Pinus resinosa*	Japanese maple……	*Acer palmatum*

[1] If a tree species does not appear on the list, insufficient information is available to rate it for this purpose.

Table 3.5
Size and Weight of Earth Ball Required to Transplant Wild Stock

Shade Trees (Maple, Ash, Oak, Birch, etc.)			Small Trees & Shrubs (Crabapple, Thornapple, Viburnum, Dogwood, etc.)		
Caliper[1] (Inches)	Minimum Diameter Ball (Inches)	Weight of Ball (lbs.)	Up to 6 ft. Height — 6 ft. and Caliper[1]	Minimum Diameter Ball (Inches)	Weight of Ball (lbs.)
1/2	14	88	2	12	55
3/4	16	130	3	14	88
1	18	186	4	16	130
1-1/4	20	227	5	18	186
1-1/2	22	302	3/4	18	186
1-3/4	24	390	1	20	227
2	28	621	1-1/2	22	302
3	32	836	1-3/4	24	390
3-1/2	38	1,400	2	28	621
4	42	1,887	2-1/2	32	836
			3	38	1,400

[1]Caliper is a diameter measurement of trees at a height of 6 inches above the ground.

(American Standards for Nursery Stock)

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