

GREENBLUE URBAN

SOIL VOLUME GUIDE

Version 1.1



Trees and soil volume

For over a quarter of a century, GreenBlue Urban has been working to ensure that every tree, wherever planted, has the chance to achieve species potential. Now, we are closer than ever to arriving at this objective, and it is very clear that the soil volume provided for the tree is probably the most critical single element in achieving long term establishment.

There are many studies from leading academic institutions, and practical examples of real-life testing, providing formulae for calculating correct soil volume provision. These are worked out using different methods, including nutritional requirements, water storage, root establishment characteristics and others. GreenBlue Urban have carefully reviewed a large number of these and are pleased to offer this publication as a guide to best practice.

Any soil volume guide can only be that; a guide. Differing clones of the same tree species can have different rooting requirements, and water draw can be widely altered by something as simple as a windier planting location, as wind speeds radically change evapo-transpiration rates from the tree.

This new guide is the first ever in the world to bring together these soil volume studies with the extensive knowledge that we have relating to tree species. Now, a quick reference will show the recommended volume for the species under consideration (based on canopy size at 25 years), and a useful explanation of the likely tree pit cost, and lifespan of the tree given the volumes available.

We welcome you to our latest tool for specifiers helping us all to establish the future urban landscape.

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

How to use this guide

Indexed alphabetically, more than 80 tree species are listed with their corresponding recommended soil volumes. All of the species in this book have been placed into the classes below. For species not listed in this publication, a generalized target soil volume has also been provided.



Small Tree

(3m / 10 ft Canopy Diameter): 5½m³ / 190 cu ft



Small to Medium Tree

(4½ m / 15 ft Canopy Diameter): 10m³ / 350 cu ft



Medium Tree

(6 m / 20 ft Canopy Diameter): 14m³ / 500 cu ft



Medium to Large Tree

(8 m / 25 ft Canopy Diameter): 24m³ / 880 cu ft



Large Tree

(10 m / 35 ft Canopy Diameter): 31m³ / 1100 cu ft

These five categories can be used as a reference point when referring to pages [30](#) and [31](#) of this publication in order to assess projected tree longevity, soil volume and cost of planting.

You can click the tabs on the left to navigate through this guide.

**Acacia aneura**

Tree Species (Botanical Name)	Acacia aneura
Tree Species (Common Name)	Mulga
Canopy Spread	4.5m (15 ft)
Tree Height	6m (20 ft)
Required volume (cubic volume)	10m ³ (355 cu ft)
Type of Tree Class	Small Tree

**Acer buergerianum**

Tree Species (Botanical Name)	Acer buergerianum
Tree Species (Common Name)	Trident Maple
Canopy Spread	6m (20 ft)
Tree Height	20m (66 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree

**Acer campestre**

Tree Species (Botanical Name)	Acer campestre
Tree Species (Common Name)	Field Maple
Canopy Spread	7m (23 ft)
Tree Height	15m (49 ft)
Required volume (cubic volume)	23m ³ (830 cu ft)
Type of Tree Class	Medium to Large Tree

**Acer campestre 'Lienco'**

Tree Species (Botanical Name)	Acer campestre 'Lienco'
Tree Species (Common Name)	Field Maple
Canopy Spread	6m (20 ft)
Tree Height	15m (49 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



Acer campestre 'Streetwise'

Tree Species (Botanical Name)	Acer campestre 'Streetwise'
Tree Species (Common Name)	Field Maple 'Streetwise'
Canopy Spread	3m (10 ft)
Tree Height	7m (23 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



Acer platanoides 'Crimson King'

Tree Species (Botanical Name)	Acer platanoides 'Crimson King'
Tree Species (Common Name)	Purple Norway Maple
Canopy Spread	6m (20 ft)
Tree Height	15m (49 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



Acer pseudoplatanus

Tree Species (Botanical Name)	Acer pseudoplatanus
Tree Species (Common Name)	Sycamore
Canopy Spread	8m (26 ft)
Tree Height	15m (49 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



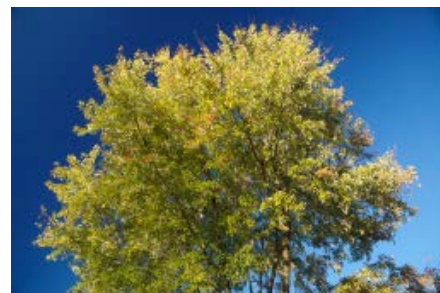
Acer rubrum 'Karpick'

Tree Species (Botanical Name)	Acer rubrum 'Karpick'
Tree Species (Common Name)	Red Maple
Canopy Spread	6m (20 ft)
Tree Height	9m (30 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



**Acer saccharinum**

Tree Species (Botanical Name)	Acer saccharinum
Tree Species (Common Name)	Silver Maple
Canopy Spread	10m (35 ft)
Tree Height	15m (50 ft)
Required volume (cubic volume)	54m ³ (1920 cu ft)
Type of Tree Class	Large Tree

**Ailanthus altissima**

Tree Species (Botanical Name)	Ailanthus altissima
Tree Species (Common Name)	Tree of Heaven
Canopy Spread	8m (26 ft)
Tree Height	12m (39 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree

**Alnus Incana**

Tree Species (Botanical Name)	Alnus Incana
Tree Species (Common Name)	Aurea
Canopy Spread	4m (12 ft)
Tree Height	12m (39 ft)
Required volume (cubic volume)	8m ³ (220 cu ft)
Type of Tree Class	Small Tree

**Amelacnchier ballerina**

Tree Species (Botanical Name)	Amelacnchier ballerina
Tree Species (Common Name)	Serviceberry
Canopy Spread	2.5m (10 ft)
Tree Height	7m (23 ft)
Required volume (cubic volume)	8m ³ (220 cu ft)
Type of Tree Class	Small Tree



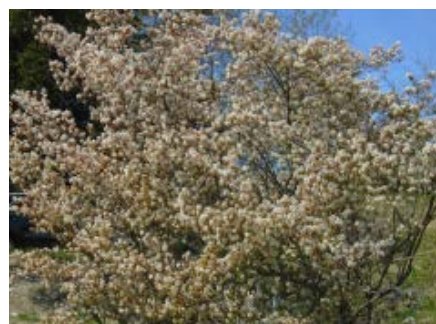
Amelanchier grandiflora

Tree Species (Botanical Name)	Amelanchier grandiflora
Tree Species (Common Name)	Robin Tree
Canopy Spread	3m (10 ft)
Tree Height	7m (23 ft)
Required volume (cubic volume)	5.4m ³ (190 cu ft)
Type of Tree Class	Small Tree



Amelanchier lamarckii

Tree Species (Botanical Name)	Amelanchier lamarckii
Tree Species (Common Name)	June Berry
Canopy Spread	3m (10 ft)
Tree Height	8m (26 ft)
Required volume (cubic volume)	5.4m ³ (190 cu ft)
Type of Tree Class	Small Tree



Arbutus unedo

Tree Species (Botanical Name)	Arbutus unedo
Tree Species (Common Name)	Strawberry tree
Canopy Spread	4m (13 ft)
Tree Height	8m (26 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree




Acer palmatum 'Bloodgood'

Tree Species (Botanical Name)	Acer palmatum 'Bloodgood'
Tree Species (Common Name)	Japanese Maple
Canopy Spread	4m (13 ft)
Tree Height	4m (13 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

 **Arecastrum romanzoffianum**

Tree Species (Botanical Name)	Arecastrum romanzoffianum
Tree Species (Common Name)	Queen Palm
Canopy Spread	8m (26 ft)
Tree Height	10m (33 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



 **Betula nigra**

Tree Species (Botanical Name)	Betula nigra
Tree Species (Common Name)	River Birch / Heritage River Birch
Canopy Spread	5m (18 ft)
Tree Height	10m (33 ft)
Required volume (cubic volume)	15m ³ (510 cu ft)
Type of Tree Class	Small to Medium Tree



 **Betula pendula**

Tree Species (Botanical Name)	Betula pendula
Tree Species (Common Name)	Silver Birch
Canopy Spread	5m (16 ft)
Tree Height	10m (33 ft)
Required volume (cubic volume)	11m ³ (400 cu ft)
Type of Tree Class	Small Tree



 **Betula utilis jacquemontii**

Tree Species (Botanical Name)	Betula utilis jacquemontii
Tree Species (Common Name)	Himalayan Birch
Canopy Spread	6m (20 ft)
Tree Height	8m (26 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

 **Bougainvillea glabra**

Tree Species (Botanical Name)	Bougainvillea glabra
Tree Species (Common Name)	Paper Flower
Canopy Spread	3m (10 ft)
Tree Height	6m (20 ft)
Required volume (cubic volume)	5.4m ³ (190 cu ft)
Type of Tree Class	Small Tree



 **Carpinus betulus**

Tree Species (Botanical Name)	Carpinus betulus
Tree Species (Common Name)	Common Hornbeam
Canopy Spread	6m (20 ft)
Tree Height	10m (33 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



 **Carpinus betulus**

Tree Species (Botanical Name)	Carpinus betulus
Tree Species (Common Name)	Frans fontaine
Canopy Spread	3m (10 ft)
Tree Height	9m (30 ft)
Required volume (cubic volume)	17m ³ (600 cu ft)
Type of Tree Class	Medium Tree



 **Catalpa bignonioides**

Tree Species (Botanical Name)	Catalpa bignonioides
Tree Species (Common Name)	Indian Bean Tree
Canopy Spread	6m (20 ft)
Tree Height	13m (45 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

 **Celtis australis**

Tree Species (Botanical Name)	Celtis australis
Tree Species (Common Name)	Nettle Tree
Canopy Spread	5m (16 ft)
Tree Height	10m (33 ft)
Required volume (cubic volume)	11m ³ (400 cu ft)
Type of Tree Class	Small Tree



 **Celtis occidentalis**

Tree Species (Botanical Name)	Celtis occidentalis
Tree Species (Common Name)	Hackberry
Canopy Spread	8m (26 ft)
Tree Height	11m (35 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



 **Ceratonia siliqua**

Tree Species (Botanical Name)	Ceratonia siliqua
Tree Species (Common Name)	Carob Tree
Canopy Spread	4m (13 ft)
Tree Height	10m (33 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



 **Cercidiphyllum japonicum**

Tree Species (Botanical Name)	Cercidiphyllum japonicum
Tree Species (Common Name)	Candyfloss Tree
Canopy Spread	4m (14 ft)
Tree Height	10m (33 ft)
Required volume (cubic volume)	8m ³ (310 cu ft)
Type of Tree Class	Small Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

 **Chamaerops humilis**


Tree Species (Botanical Name)	Chamaerops humilis
Tree Species (Common Name)	European Fan Palm
Canopy Spread	3m (10 ft)
Tree Height	2m (7 ft)
Required volume (cubic volume)	5.4m ³ (190 cu ft)
Type of Tree Class	Small Tree



 **Chrysalidocarpus lutescens**

Tree Species (Botanical Name)	Chrysalidocarpus lutescens
Tree Species (Common Name)	Butterfly Palm
Canopy Spread	3m (10 ft)
Tree Height	3m (10 ft)
Required volume (cubic volume)	5.4m ³ (190 cu ft)
Type of Tree Class	Small Tree



 **Citrus aurantium**

Tree Species (Botanical Name)	Citrus aurantium
Tree Species (Common Name)	Bitter Orange
Canopy Spread	5 (15 ft)
Tree Height	6m (20 ft)
Required volume (cubic volume)	10m ³ (350 cu ft)
Type of Tree Class	Small Tree



 **Cornus controversa 'Variegata'**

Tree Species (Botanical Name)	Cornus Controversa 'Variegata'
Tree Species (Common Name)	Wedding cake tree
Canopy Spread	5m (16 ft)
Tree Height	6m (20 ft)
Required volume (cubic volume)	11m ³ (400 cu ft)
Type of Tree Class	Small Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

 **Cornus florida**

Tree Species (Botanical Name)	Cornus florida
Tree Species (Common Name)	Flowering Dogwood
Canopy Spread	6m (18 ft)
Tree Height	8m (25 ft)
Required volume (cubic volume)	15m ³ (510 cu ft)
Type of Tree Class	Small to Medium Tree



 **Corylus colurna**

Tree Species (Botanical Name)	Corylus colurna
Tree Species (Common Name)	Turkish Hazel
Canopy Spread	6m (20 ft)
Tree Height	8m (26 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



 **Crataegus monogyna 'Stricta'**

Tree Species (Botanical Name)	Crataegus monogyna 'Stricta'
Tree Species (Common Name)	Upright Hawthorn
Canopy Spread	4m (13 ft)
Tree Height	6m (20 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



 **Cycas revolute**

Tree Species (Botanical Name)	Cycas revolute
Tree Species (Common Name)	Sago Palm
Canopy Spread	2m (7 ft)
Tree Height	3m (10 ft)
Required volume (cubic volume)	5.4m ³ (190 cu ft)
Type of Tree Class	Small Tree



Small Tree



Small to Medium Tree



Medium Tree




Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

 **Cypressus sempervirens**

Tree Species (Botanical Name)	Cypressus sempervirens
Tree Species (Common Name)	Mediterranean Cypress
Canopy Spread	4m (14 ft)
Tree Height	10m (30 ft)
Required volume (cubic volume)	9m ³ (310 cu ft)
Type of Tree Class	Small Tree



 **Delonix regia**


Tree Species (Botanical Name)	Delonix regia
Tree Species (Common Name)	Royal Poinciana
Canopy Spread	7m (23 ft)
Tree Height	8m (26 ft)
Required volume (cubic volume)	24m ³ (830 cu ft)
Type of Tree Class	Medium to Large Tree



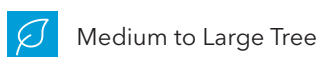
 **Fagus sylvatica**

Tree Species (Botanical Name)	Fagus sylvatica
Tree Species (Common Name)	Dawyck Gold
Canopy Spread	10m (35 ft)
Tree Height	25m (80 ft)
Required volume (cubic volume)	55m ³ (1925 cu ft)
Type of Tree Class	Large Tree



 **Ficus microcarpa**

Tree Species (Botanical Name)	Ficus microcarpa
Tree Species (Common Name)	Curtain Fig
Canopy Spread	6m (20 ft)
Tree Height	11m (35 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



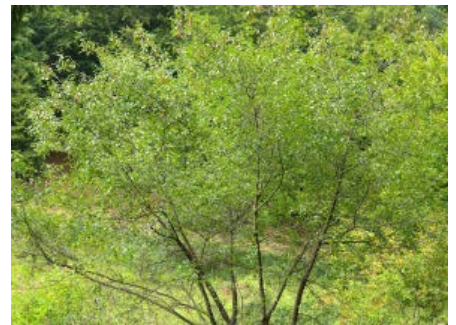
Ficus rubiginosa 'Australis'

Tree Species (Botanical Name)	Ficus rubiginosa 'Australis'
Tree Species (Common Name)	Rusty Fig
Canopy Spread	6m (20 ft)
Tree Height	15m (49 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



Frangula alnus

Tree Species (Botanical Name)	Frangula alnus
Tree Species (Common Name)	Alder Buckthorn
Canopy Spread	4m (13 ft)
Tree Height	10m (30 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



Fraxinus angustifolia

Tree Species (Botanical Name)	Fraxinus angustifolia
Tree Species (Common Name)	Narrow Leafed Ash
Canopy Spread	6m (20 ft)
Tree Height	21m (70 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



Ginkgo biloba

Tree Species (Botanical Name)	Ginkgo biloba
Tree Species (Common Name)	Maidenhair Tree / Ginkgo
Canopy Spread	8m (27 ft)
Tree Height	22m (72 ft)
Required volume (cubic volume)	33m ³ (1145 cu ft)
Type of Tree Class	Large Tree



A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

 **Gleditsia triacanthos**

Tree Species (Botanical Name)	Gleditsia triacanthos
Tree Species (Common Name)	Honey Locust Tree / Skyline Honey Locust
Canopy Spread	6m (20 ft)
Tree Height	12m (40 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



 **Jacaranda mimosifolia**

Tree Species (Botanical Name)	Jacaranda mimosifolia
Tree Species (Common Name)	Fern Tree
Canopy Spread	8m (26 ft)
Tree Height	15m (50 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



 **Juniperus oxycedrus**

Tree Species (Botanical Name)	Juniperus oxycedrus
Tree Species (Common Name)	Prickly Juniper
Canopy Spread	5m (16 ft)
Tree Height	8m (26 ft)
Required volume (cubic volume)	12m ³ (400 cu ft)
Type of Tree Class	Small Tree



 **Koelreuteria paniculata**

Tree Species (Botanical Name)	Koelreuteria paniculata
Tree Species (Common Name)	Golden Rain Tree
Canopy Spread	6m (16 ft)
Tree Height	8m (26 ft)
Required volume (cubic volume)	12m ³ (400 cu ft)
Type of Tree Class	Small Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

 **Lagerstroemia**

Tree Species (Botanical Name)	Lagerstroemia
Tree Species (Common Name)	Crape Myrtle
Canopy Spread	6m (20 ft)
Tree Height	6m (20 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



 **Liquidambar styraciflua 'Worpelsdon'**

Tree Species (Botanical Name)	Liquidambar styraciflua 'Worplesdon'
Tree Species (Common Name)	Sweet Gum
Canopy Spread	6m (20 ft)
Tree Height	10m (33 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



 **Liquidamber styraciflua**

Tree Species (Botanical Name)	Liquidamber styraciflua
Tree Species (Common Name)	Sweet Gum
Canopy Spread	6m (20 ft)
Tree Height	17m (56 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



 **Liriodendron tulipifera**

Tree Species (Botanical Name)	Liriodendron tulipifera
Tree Species (Common Name)	Tulip tree
Canopy Spread	8m (26 ft)
Tree Height	30m (100 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

 **Magnolia grandiflora**

Tree Species (Botanical Name)	Magnolia grandiflora
Tree Species (Common Name)	Southern Magnolia
Canopy Spread	4m (13 ft)
Tree Height	12m (40 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



 **Magnolia kobus**


Tree Species (Botanical Name)	Magnolia kobus
Tree Species (Common Name)	Magnolia
Canopy Spread	5m (16 ft)
Tree Height	10m (33 ft)
Required volume (cubic volume)	11m ³ (400 cu ft)
Type of Tree Class	Small Tree



 **Malus baccata**

Tree Species (Botanical Name)	Malus baccata
Tree Species (Common Name)	Crab Apple
Canopy Spread	4m (13 ft)
Tree Height	8m (26 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



 **Malus sylvestris**

Tree Species (Botanical Name)	Malus sylvestris
Tree Species (Common Name)	Apple Tree
Canopy Spread	4m (13 ft)
Tree Height	8m (26 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



Small Tree



Small to Medium Tree



Medium Tree




Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

 **Malus tschonoskii**

Tree Species (Botanical Name)	Malus tschonoskii
Tree Species (Common Name)	Chonosuki Crab Apple
Canopy Spread	4m (13 ft)
Tree Height	6m (20 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



 **Myoporum laetum**

Tree Species (Botanical Name)	Myoporum laetum
Tree Species (Common Name)	Mousehole Tree
Canopy Spread	3m (10 ft)
Tree Height	8m (26 ft)
Required volume (cubic volume)	5.4m ³ (190 cu ft)
Type of Tree Class	Small Tree



 **Nerium oleander**

Tree Species (Botanical Name)	Nerium oleander
Tree Species (Common Name)	Oleander
Canopy Spread	2m (7 ft)
Tree Height	1.5m (5 ft)
Required volume (cubic volume)	5.4m ³ (190 cu ft)
Type of Tree Class	Small Tree



 **Olea europaea**

Tree Species (Botanical Name)	Olea europaea
Tree Species (Common Name)	European Olive
Canopy Spread	5m (16 ft)
Tree Height	2m (7 ft)
Required volume (cubic volume)	11m ³ (400 cu ft)
Type of Tree Class	Small Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree

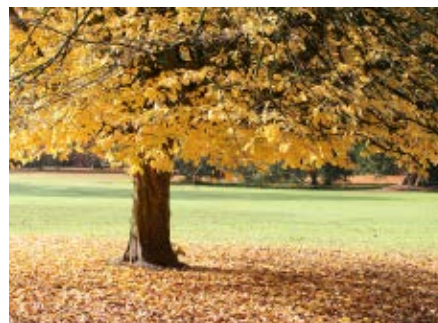



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

 **Parrotia persicum 'Venessa'**

Tree Species (Botanical Name)	Parrotia persicum 'Venessa'
Tree Species (Common Name)	Persian Ironwood
Canopy Spread	3m (10 ft)
Tree Height	4.5m (15 ft)
Required volume (cubic volume)	5.4m ³ (190 cu ft)
Type of Tree Class	Small Tree



 **Pinus halepensis**

Tree Species (Botanical Name)	Pinus halepensis
Tree Species (Common Name)	Aleppo Pine
Canopy Spread	8m (26 ft)
Tree Height	25m (82 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



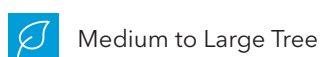
 **Pinus pinea**

Tree Species (Botanical Name)	Pinus pinea
Tree Species (Common Name)	Stone Pine
Canopy Spread	5m (16 ft)
Tree Height	25m (82 ft)
Required volume (cubic volume)	11m ³ (400 cu ft)
Type of Tree Class	Small Tree



 **Pinus sylvestris**

Tree Species (Botanical Name)	Pinus sylvestris
Tree Species (Common Name)	Scots Pine
Canopy Spread	8m (26 ft)
Tree Height	21m (70 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W



Pistacia lentiscus

Tree Species (Botanical Name)	Pistacia lentiscus
Tree Species (Common Name)	Mastic Tree
Canopy Spread	3m (10 ft)
Tree Height	5m (16 ft)
Required volume (cubic volume)	5.4m ³ (190 cu ft)
Type of Tree Class	Small Tree



Platanus x acerifolia / hispanica

Tree Species (Botanical Name)	Platanus x acerifolia
Tree Species (Common Name)	London Plane
Canopy Spread	8m (26 ft)
Tree Height	15m (49 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



Plumeria alba

Tree Species (Botanical Name)	Plumeria alba
Tree Species (Common Name)	White Frangipani
Canopy Spread	3m (11 ft)
Tree Height	6m (20 ft)
Required volume (cubic volume)	5.4m ³ (190 cu ft)
Type of Tree Class	Small Tree



Podocarpus macrophyllus

Tree Species (Botanical Name)	Podocarpus macrophyllus
Tree Species (Common Name)	Buddhist Pine
Canopy Spread	6m (20 ft)
Tree Height	15m (49 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

 **Prunus avium 'Lapins'**

Tree Species (Botanical Name)	Prunus avium 'Lapins'
Tree Species (Common Name)	Lapins Cherry
Canopy Spread	3m (11 ft)
Tree Height	4m (13 ft)
Required volume (cubic volume)	5.4m ³ (190 cu ft)
Type of Tree Class	Small Tree



 **Prunus avium 'Plena'**

Tree Species (Botanical Name)	Prunus avium 'Plena'
Tree Species (Common Name)	Prunus avium 'Plena'
Canopy Spread	4m (13 ft)
Tree Height	10m (33 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



 **Prunus dulcis**

Tree Species (Botanical Name)	Prunus dulcis
Tree Species (Common Name)	Almond
Canopy Spread	5m (18 ft)
Tree Height	12m (39 ft)
Required volume (cubic volume)	15m ³ (510 cu ft)
Type of Tree Class	Small to Medium Tree



 **Prunus 'Ichiyo'**

Tree Species (Botanical Name)	Prunus 'Ichiyo'
Tree Species (Common Name)	Japanese Flowertip Cherry
Canopy Spread	4m (13 ft)
Tree Height	7m (23 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A

B

C

D

F

G

J

K

L

M

N

O

P

Q

R

S

T

U

W



Prunus padus (Albertii)

Tree Species (Botanical Name)	Prunus padus (Albertii)
Tree Species (Common Name)	Bird Cherry
Canopy Spread	4m (13 ft)
Tree Height	7m (23 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



Prunus serrulata 'Kanzan'

Tree Species (Botanical Name)	Prunus serrulata 'Kanzan'
Tree Species (Common Name)	Cherry 'Kanzan'
Canopy Spread	5m (18 ft)
Tree Height	7m (23 ft)
Required volume (cubic volume)	15m ³ (530 cu ft)
Type of Tree Class	Small to Medium Tree



Prunus serrulata sunset boulevard

Tree Species (Botanical Name)	Prunus serrulata sunset boulevard
Tree Species (Common Name)	Cherry 'Sunset boulevard'
Canopy Spread	5m (15 ft)
Tree Height	10m (33 ft)
Required volume (cubic volume)	10m ³ (350 cu ft)
Type of Tree Class	Small to Medium Tree



Prunus x schmittii

Tree Species (Botanical Name)	Prunus x schmittii
Tree Species (Common Name)	Hybrid Cherry
Canopy Spread	5m (15 ft)
Tree Height	10m (33 ft)
Required volume (cubic volume)	10m ³ (350 cu ft)
Type of Tree Class	Small to Medium Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A

B

C

D

F

G

J

K

L

M

N

O

P

Q


R

S

T


U

W

 **Prunus x subhirtella**

Tree Species (Botanical Name)	Prunus x subhirtella
Tree Species (Common Name)	Autumnalis Rosea
Canopy Spread	4m (13 ft)
Tree Height	5m (16 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



 **Prunus yedoensis**

Tree Species (Botanical Name)	Prunus yedoensis
Tree Species (Common Name)	Yoshino Cherry
Canopy Spread	4m (13 ft)
Tree Height	8m (26 ft)
Required volume (cubic volume)	9m ³ (310 cu ft)
Type of Tree Class	Small Tree



 **Pyrus calleryana**

Tree Species (Botanical Name)	Pyrus calleryana
Tree Species (Common Name)	Chanticleer
Canopy Spread	4m (10 ft)
Tree Height	17m (56 ft)
Required volume (cubic volume)	9m ³ (310 cu ft)
Type of Tree Class	Small Tree



 **Pyrus calleryana**

Tree Species (Botanical Name)	Pyrus calleryana
Tree Species (Common Name)	Red Spire
Canopy Spread	4m (10 ft)
Tree Height	12m (39 ft)
Required volume (cubic volume)	9m ³ (310 cu ft)
Type of Tree Class	Small Tree



A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W



Quercus cerris

Tree Species (Botanical Name)	Quercus cerris
Tree Species (Common Name)	Turkeu Oak
Canopy Spread	8m (26 ft)
Tree Height	12m (39 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



Quercus coccifera

Tree Species (Botanical Name)	Quercus coccifera
Tree Species (Common Name)	Kermes Oak
Canopy Spread	5m (15 ft)
Tree Height	6m (20 ft)
Required volume (cubic volume)	10m ³ (350 cu ft)
Type of Tree Class	Small Tree



Quercus palustris

Tree Species (Botanical Name)	Quercus palustris
Tree Species (Common Name)	Pin Oak
Canopy Spread	8m (26 ft)
Tree Height	20m (66 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



Quercus rober 'Fastigiata'

Tree Species (Botanical Name)	Quercus rober 'Fastigiata'
Tree Species (Common Name)	Cypress Oak
Canopy Spread	5m (18 ft)
Tree Height	17m (56 ft)
Required volume (cubic volume)	15m ³ (510 cu ft)
Type of Tree Class	Small to Medium Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

 **Quercus rubra**

Tree Species (Botanical Name)	Quercus rubra
Tree Species (Common Name)	Northern Red Oak
Canopy Spread	8m (26 ft)
Tree Height	18m (60 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



 **Quercus virginiana**

Tree Species (Botanical Name)	Quercus virginiana
Tree Species (Common Name)	Southern Live Oak
Canopy Spread	9m (30 ft)
Tree Height	19m (65 ft)
Required volume (cubic volume)	41m ³ (1415 cu ft)
Type of Tree Class	Large Tree



 **Robinia pseudoacacia**

Tree Species (Botanical Name)	Robinia pseudoacacia
Tree Species (Common Name)	False Acacia
Canopy Spread	8m (26 ft)
Tree Height	14m (46 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



 **Roystonea regia**

Tree Species (Botanical Name)	Roystonea regia
Tree Species (Common Name)	Royal Palm
Canopy Spread	8m (26 ft)
Tree Height	25m (82 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

 **Sequoiadendron giganteum**

Tree Species (Botanical Name)	Sequoiadendron giganteum
Tree Species (Common Name)	Giant Redwood
Canopy Spread	8m (26 ft)
Tree Height	30m (100 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



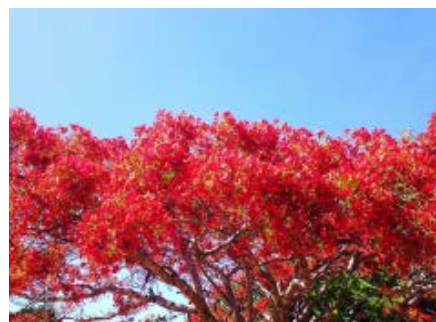
 **Sorbus aria 'Lutescens'**

Tree Species (Botanical Name)	Sorbus aria 'Lutescens'
Tree Species (Common Name)	White Beam
Canopy Spread	4m (12 ft)
Tree Height	12m (39 ft)
Required volume (cubic volume)	6.5m ³ (230 cu ft)
Type of Tree Class	Small Tree



 **Sorbus aucuparia 'Edulis'**

Tree Species (Botanical Name)	Sorbus aucuparia 'Edulis'
Tree Species (Common Name)	Rowan
Canopy Spread	4m (13 ft)
Tree Height	7m (23 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



 **Sorbus aucuparia Sheerwater seedling**

Tree Species (Botanical Name)	Sorbus aucuparia Sheerwater seedling
Tree Species (Common Name)	Upright Mountain Ash
Canopy Spread	4m (13 ft)
Tree Height	7m (23 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

 **Sorbus aucuparia 'streetwise'**

Tree Species (Botanical Name)	Sorbus aucuparia 'streetwise'
Tree Species (Common Name)	Rowan
Canopy Spread	4m (13 ft)
Tree Height	7m (23 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



 **Sorbus x arnoldiana Schouten**

Tree Species (Botanical Name)	Sorbus x arnoldiana Schouten
Tree Species (Common Name)	Mountain Ash
Canopy Spread	3m (10 ft)
Tree Height	7m (23 ft)
Required volume (cubic volume)	7.5m ³ (265 cu ft)
Type of Tree Class	Small Tree



 **Taxodium distichum**

Tree Species (Botanical Name)	Taxodium distichum
Tree Species (Common Name)	Bald Cypress / Swamp
Canopy Spread	6m (20 ft)
Tree Height	12m (40 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



 **Terminalia catapa**

Tree Species (Botanical Name)	Terminalia catapa
Tree Species (Common Name)	Indian-almond
Canopy Spread	8m (26 ft)
Tree Height	18m (59 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

 **Tilia americana**

Tree Species (Botanical Name)	Tilia americana
Tree Species (Common Name)	American Linden / Baswood
Canopy Spread	26ft
Tree Height	80ft
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



 **Tilia cordata**

Tree Species (Botanical Name)	Tilia cordata
Tree Species (Common Name)	Lime 'Streetwise' / Greenspire
Canopy Spread	6m (20 ft)
Tree Height	10m (33 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



 **Tilia cordata**

Tree Species (Botanical Name)	Tilia cordata
Tree Species (Common Name)	Little Leaf Lindens
Canopy Spread	6m (20 ft)
Tree Height	18m (60 ft)
Required volume (cubic volume)	18m ³ (630 cu ft)
Type of Tree Class	Medium Tree



 **Ulmus morton**

Tree Species (Botanical Name)	Ulmus morton
Tree Species (Common Name)	Accolade Elm
Canopy Spread	5m (18 ft)
Tree Height	15m (50 ft)
Required volume (cubic volume)	15m ³ (530 cu ft)
Type of Tree Class	Small to Medium Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

SOIL VOLUME GUIDE



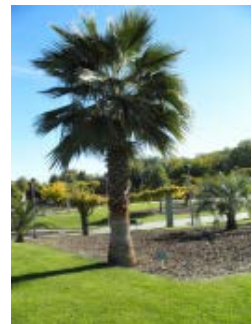
Ulmus new horizon

Tree Species (Botanical Name)	Ulmus new horizon
Tree Species (Common Name)	Elm
Canopy Spread	6m (19 ft)
Tree Height	10m (33 ft)
Required volume (cubic volume)	16m ³ (530 cu ft)
Type of Tree Class	Small to Medium Tree



Washingtonia robusta

Tree Species (Botanical Name)	Washingtonia robusta
Tree Species (Common Name)	Mexcan Fan Palm
Canopy Spread	8m (26 ft)
Tree Height	25m (82 ft)
Required volume (cubic volume)	30m ³ (1060 cu ft)
Type of Tree Class	Large Tree



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree

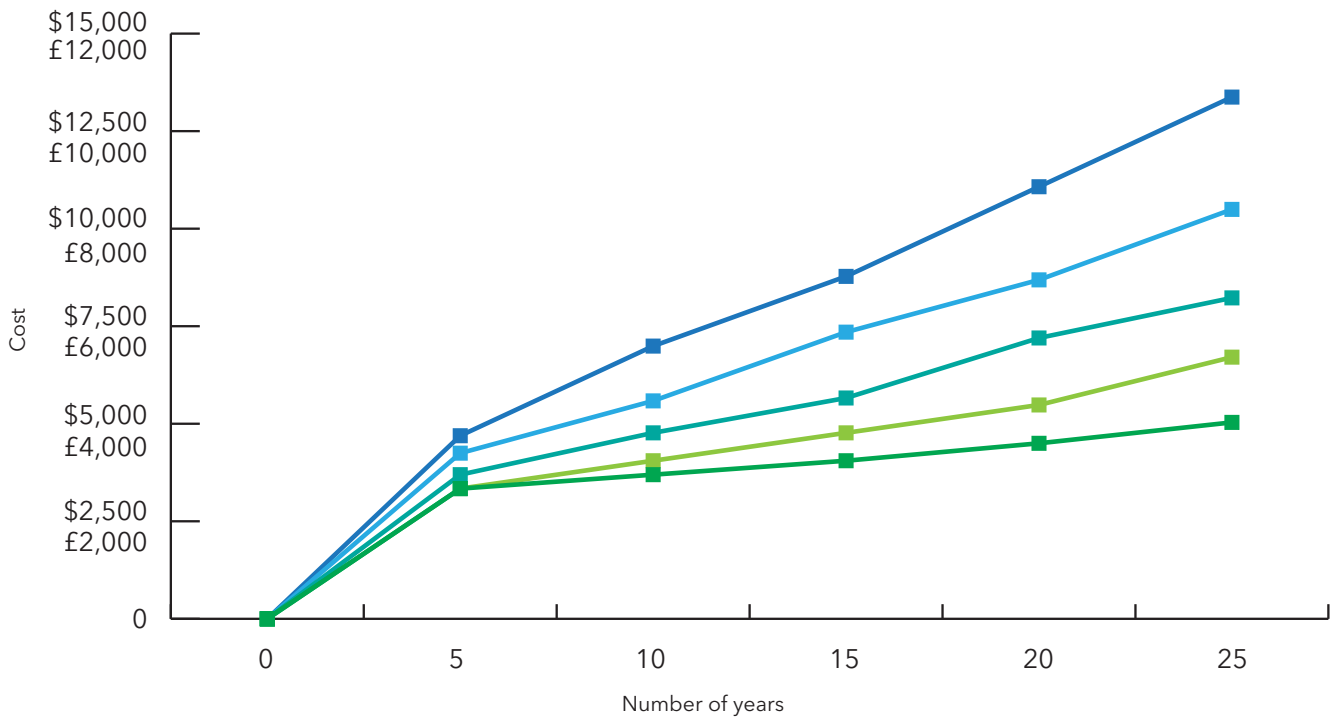


Large Tree

Soil Volumes

Based on product cost

Use the graph on the opposite page and the charts below in order to work out your trees life expectancy and the associated cost, broken down into individual products.



Recommended Soil Volumes					
Years	5	10	15	20	25
Species of Tree					
Small Tree	£2,669.77 / \$3,357.60	£2,955.67 / \$3,717.15	£3,241.57 / \$4,076.71	£3,598.95 / \$4,526.17	£4,027.80 / \$5,065.50
Small to Medium Tree	£2,669.77 / \$3,357.60	£3,241.57 / \$4,076.71	£3,813.37 / \$4,795.83	£4,385.17 / \$5,514.94	£5,365.67 / \$6,748.05
Medium Tree	£2,955.67 / \$3,717.15	£3,813.37 / \$4,795.83	£4,528.12 / \$5,694.72	£5,758.78 / \$7,242.44	£6,580.75 / \$8,276.18
Medium to Large Tree	£3,396.76 / \$4,271.88	£4,468.88 / \$5,620.22	£5,878.23 / \$7,392.67	£6,950.36 / \$8,741.02	£8,395.44 / \$10,558.40
Large Tree	£3,754.13 / \$4,721.33	£5,592.33 / \$7,033.11	£7,021.83 / \$8,830.90	£8,860.03 / \$11,142.68	£10,698.23 / \$13,454.47

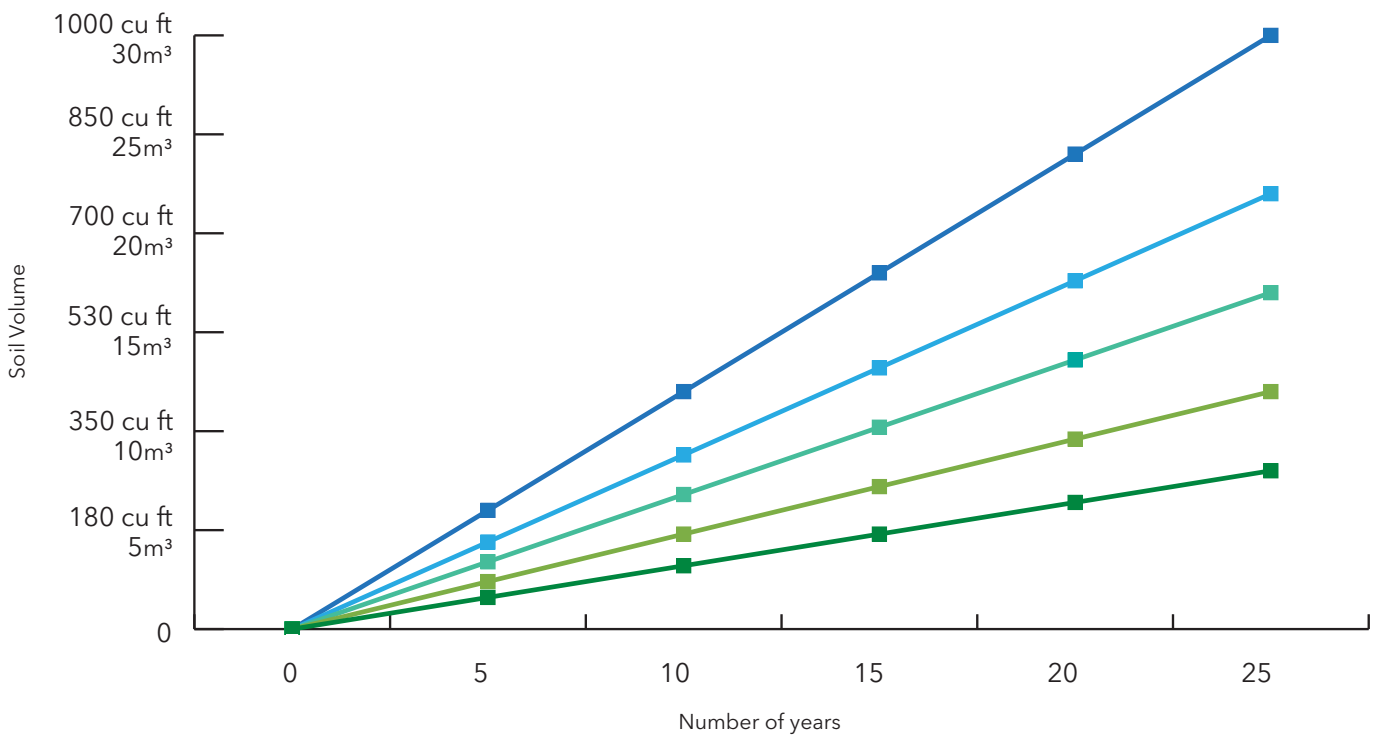
Prices based on 2019 rates. *Excludes installation, tree, soil and tax.



Soil Volumes

Based on years and species

Use the above graph and table below to calculate your trees longevity based upon its species size.



Recommended Soil Volumes					
Years	5	10	15	20	25
Species of Tree					
Small Tree	1.6m³ / 57 cu ft	3.2m³ / 113 cu ft	4.8m³ / 170 cu ft	6.4m³ / 226 cu ft	8m³ / 283 cu ft
Small to Medium Tree	2.4 m³ / 85 cu ft	4.8m³ / 170 cu ft	7.2 m³ / 254 cu ft	9.6m³ / 339 cu ft	12m³ / 424 cu ft
Medium Tree	3.4 m³ / 120 cu ft	6.8m³ / 240 cu ft	10.2m³ / 360 cu ft	13.6m³ / 480 cu ft	17m³ / 630 cu ft
Medium to Large Tree	4.4m³ / 155 cu ft	8.8m³ / 311 cu ft	13.2m³ / 466 cu ft	17.6m³ / 622 cu ft	22m³ / 777 cu ft
Large Tree	6m³ / 212 cu ft	12m³ / 424 cu ft	18m³ / 636 cu ft	24m³ / 848 cu ft	30m³ / 1060 cu ft



A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

Index by Latin Name

A

Acacia aneura	4
Acer buergerianum	4
Acer campestre	4
Acer campestre 'Lienco'	4
Acer campestre 'Streetwise'	5
Acer palmatum 'Bloodgood'	7
Acer platanoides 'Crimson King'	5
Acer pseudoplatanus	5
Acer rubrum 'Karpick'	5
Acer saccharinum	6
Ailanthus altissima	6
Alnus incana	6
Amelanchier ballerina	6
Amelanchier grandiflora	7
Amelanchier lamarckii	7
Arbutus unedo	7
Arecastrum romanzoffianum	8

B

Betula nigra	8
Betula pendula	8
Betula utilis jacquemontii	8
Bougainvillea glabra	9

C

Carpinus betulus	9
Catalpa bignonioides	9
Celtis australis	10
Celtis occidentalis	10
Ceratonia siliqua	10
Cercidiphyllum japonicum	10
Chamaerops humilis	11
Chrysalidocarpus lutescens	11

Citrus aurantium	11
Cornus controversa 'Variegata'	11
Cornus florida	12
Corylus colurna	12
Crataegus monogyna 'Stricta'	12
Cycas revolute	12
Cypressus sempervirens	13

D

Delonix regia	13
---------------	----

F

Fagus sylvatica	13
Frangula alnus	14

G

Ginkgo biloba	14
Gleditsia triacanthos	15

J

Jacaranda mimosifolia	15
-----------------------	----

K

Koelreuteria paniculata	15
-------------------------	----

L

Lagerstroemia	16
Liquidambar styraciflua 'Worpelsdon'	16
Liquidamber styraciflua	16
Liriodendron tulipifera	16

M

Magnolia grandiflora	17
Magnolia kobus	17



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

SOIL VOLUME GUIDE

Malus baccata	17	Quercus rober 'Fastigiata'	24
Malus syvestris	17	Quercus rubra	25
Malus tschonoskii	18	Quercus virginiana	25
Myoporum laetum	18		
N		R	
Nerium oleander	18	Robinia pseudoacacia	25
		Roystonea regia	25
O		S	
Olea europaea	18	Sequoiadendron giganteum	26
P		Sorbus aria 'Lutescens'	26
Parrotia persicum 'Venessa'	19	Sorbus aucuparia 'Edulis'	26
Pinus halepensis	19	Sorbus aucuparia sheerwater seedling	26
Pinus sylvestris	19	Sorbus aucuparia 'Streetwise'	27
Platanus x acerifolia / hispanica	20	Sorbus x arnoldiana schouten	27
Plumeria alba	20	T	
Podocarpus macrophyllus	20	Taxodium distichum	27
Prunus avium 'Lapins'	21	Terminalia catapa	27
Prunus avium 'Plena'	21	Tilia americana	28
Prunus dulcis	21	Tilia cordata	28
Prunus 'Ichiyo'	21	U	
Prunus padus (Albertii)	22	Ulmus morton	28
Prunus serrulata 'Kanzan'	22	Ulmus new horizon	29
Prunus serrulata sunset boulevard	22	W	
Prunus x schmittii	22	Washingtonia robusta	29
Prunus x subhirtella	23		
Prunus yedoensis	23		
Pyrus calleryana	23		
Q			
Quercus cerris	24		
Quercus coccifera	24		
Quercus palustris	24		



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

Index by Common Name

A		European Olive	18
Accolade Elm	28	F	
Alder Buckthorn	14	False Acacia	25
Aleppo Pine	19	Fern Tree	15
Almond	21	Field Maple	4
American Linden / Baswood	28	Field Maple Lienco	4
Apple Tree	17	Field Maple 'Streetwise'	5
Aurea	6	Flowering Dogwood	12
Autumnalis Rosea	23	Frans fontaine	9
B		G	
Bald Cypress / Swamp	27	Giant Redwood	26
Bird Cherry	22	Golden Rain Tree	15
Bitter Orange	11	H	
Buddhist Pine	20	Hackberry	10
Butterfly Palm	11	Himalayan Birch	8
C		Honey Locust Tree /	
Candyfloss Tree	10	Skyline Honey Locust	15
Carob Tree	10	Hybrid Cherry	22
Chanticleer	23	I	
Cherry 'Kanzan'	22	Indian-almond	27
Cherry 'Sunset boulevard'	22	Indian Bean Tree	9
Chonosuki Crab Apple	18	J	
Common Hornbeam	9	Japanese Flowertip Cherry	21
Crab Apple	17	Japanese Maple	7
Crape Myrtle	16	June Berry	7
Curtain Fig	13	K	
Cypress Oak	24	Kermes Oak	24
D		L	
Dawyck Gold	13	Lapins Cherry	21
E			
Elm	29		
European Fan Palm	11		



Small Tree



Small to Medium Tree



Medium Tree



Medium to Large Tree



Large Tree

A
B
C
D
F
G
J
K
L
M
N
O
P
Q
R
S
T
U
W

SOIL VOLUME GUIDE

Lime 'Streetwise' / Greenspire	28	Rowan	26
Little Leaf Lindens	28	Rowan Streetwise	27
London Plane	20	Royal Palm	25
		Royal Poinciana	13
M		Rusty Fig	14
Magnolia	17	S	
Maidenhair Tree / Ginkgo	14	Sago Palm	12
Mastic Tree	20	Scots Pine	19
Mediterranean Cypress	13	Serviceberry	6
Mexcan Fan Palm	29	Silver Birch	8
Mountain Ash	27	Silver Maple	6
Mousehole Tree	18	Southern Live Oak	25
Mulga	4	Southern Magnolia	17
N		Stone Pine	19
Narrow Leafed Ash	14	Strawberry tree	7
Nettle Tree	10	Sweet Gum	16
Northern Red Oak	25	Sycamore	5
O		T	
Oleander	18	Tree of Heaven	6
P		Trident Maple	4
Paper Flower	9	Tulip tree	16
Persian Ironwood	19	Turkeu Oak	24
Pin Oak	24	Turkish Hazel	12
Prickly Juniper	15	U	
Prunus avium 'Plena'	21	Upright Hawthorn	12
Purple Norway Maple	5	Upright Mountain Ash	26
Q		W	
Queen Palm	8	Wedding cake tree	11
R		White Beam	26
Red Maple	5	White Frangipani	20
Red Spire	23	Y	
Robin Tree	7	Yoshino Cherry	23





Establishing the future urban landscape

GreenBlue Urban Ltd
Northpoint, Compass Park,
Bodiam, TN32 5BS
United Kingdom

www.greenblue.com
enquiries@greenblueurban.com
Sales and Service: +44 (0)1580 830 800

GreenBlue Urban Ltd - USA
4405 Anderson Road
Knoxville, TN 37918
United States

www.greenblue.com
inquiries@greenblue.com
Sales and Service: 1 866 282 2743

GreenBlue Urban Ltd - Canada
71 Bysham Park Drive
Woodstock, ON N4T 1P1
Canada