

Table 2-1. Quick reference guide to tree and shrub characteristics

<i>Shrubs</i>													
Common Name Scientific Name	20 Year Height (1)	Mature Height (1)	Mature Crown Spread (1)	Growth Rate (2)	Land- scape (3)	Flower (4)	Usable Fruit (5)	Fall Leaf Color (6)	Wild- Life Cover (7)	Wild- Life Food (8)	Wind- Breaks (9)	Forest Products (10)	Suckers (11)
Almond, Russian <i>Prunus tenella</i>	3-5	3-5	3-5	SLOW	M	Y	N	ORG.	Y	M	Y	N	Y
Buffaloberry, Silver <i>Shepherdia argentea</i>	6-12	6-14	8-14	MED.	N	M	Y	NONE	Y	Y	Y	N	Y
Caragana (Siberian Peashrub) <i>Caragana arborescens</i>	6-10	6-14	6-12	MED.	Y	Y	N	YEL.	Y	M	Y	N	N
Cherry, Mongolian <i>Prunus fruticosa</i>	3-6	3-6	3-6	SLOW	M	Y	M	YEL.	Y	M	M	N	Y
Cherry, Nanking <i>Prunus tomentosa</i>	6-10	6-10	6-10	MED.	M	Y	Y	YEL.	M	M	M	N	N
Chokecherry <i>Prunus virginiana</i>	10-12	12-25	10-20	MED.	M	Y	Y	YEL.	Y	M	Y	M	Y
Cotoneaster, European <i>Cotoneaster integerrimus</i>	8-12	8-12	8-12	MED.	Y	N	N	YEL./ BRN.	Y	M	Y	N	N
Cranberrybush, American <i>Viburnum trilobum</i>	6-8	8-12	8-12	MED.	Y	Y	M	PUR./ RED	M	M	M	N	N
Currant, Golden (Clove) <i>Ribes odoratum</i>	3-5	3-6	3-6	MED.	M	Y	Y	YEL.	Y	M	M	N	M
Dogwood, Redosier <i>Cornus sericea</i>	6-7	7-10	10-15	FAST	Y	M	N	PUR.	Y	M	M	N	M
Euonymus, Winterberry <i>Euonymus bungeana</i>	8-10	10-15	10-15	MED.	Y	N	N	YEL./ RED	Y	N	N	N	N
Forsythia, Meadowlark <i>Forsythia</i> x 'Meadowlark'	6-10	6-11	6-11	MED.	Y	Y	N	PUR./ YEL.	M	N	M	N	N
Honeysuckle, Amur <i>Lonicera maackii</i>	8-10	10-14	10-14	MED.	M	M	N	BRN./ PUR.	Y	M	Y	N	N
Honeysuckle, Freedom <i>Lonicera</i> x 'Freedom'	6-8	6-9	6-9	MED.	Y	M	N	BRN.	Y	M	Y	N	N
Indigo, False <i>Amorpha fruticosa</i>	6-8	8-12	6-10	SLOW	M	M	N	YEL.	Y	M	N	N	N
Juneberry (Saskatoon Serviceberry) <i>Amelanchier alnifolia</i>	6-10	6-15	5-12	SLOW	M	Y	Y	YEL.	Y	Y	Y	N	Y
Lilac, Common <i>Syringa vulgaris</i>	8-10	8-12	6-12	MED.	Y	Y	N	BRN.	Y	N	Y	N	Y
Lilac, Late <i>Syringa villosa</i>	6-10	6-10	5-10	MED.	Y	Y	N	BRN.	M	N	Y	N	N
Plum, American <i>Prunus americana</i>	5-8	8-10	8-10	MED.	M	Y	Y	YEL./ ORG.	Y	Y	Y	M	Y
Potentilla (Shrubby Cinquefoil) <i>Potentilla fruticosa</i>	2-4	2-4	2-5	SLOW	Y	Y	N	BRN.	M	N	Y	N	N
Rose, Hansen Hedge <i>Rosa</i> species	4-5	4-6	4-6	MED.	M	Y	M	PUR.	Y	Y	Y	N	Y
Sandcherry, Western <i>Prunus besseyi</i>	3-6	3-6	3-6	MED.	M	Y	Y	YEL.	M	M	M	N	M
Sea-buckthorn <i>Hippophae rhamnoides</i>	8-12	10-15	8-10	MED.	M	N	M	NONE	M	M	M	M	Y
Silverberry <i>Elaeagnus commutata</i>	4-8	5-9	3-6	MED.	M	M	N	NONE	M	Y	Y	N	Y
Spiraea, Vanhoutte <i>Spiraea</i> x <i>vanhouttei</i>	4-8	4-8	4-8	MED.	Y	Y	N	PUR.	M	N	N	N	N
Sumac, Fragrant <i>Rhus aromatica</i>	3-9	3-9	6-10	SLOW	M	M	M	RED/ YEL.	M	M	M	N	M
Sumac, Skunkbush (Lemonade) <i>Rhus trilobata</i>	3-8	3-8	4-10	MED.	M	M	M	RED/ YEL.	M	M	Y	N	N
Sumac, Smooth <i>Rhus glabra</i>	5-12	5-15	10-15	SLOW	M	M	M	RED	M	M	M	N	Y
Sumac, Staghorn <i>Rhus typhina</i>	10-15	10-15	10-20	MED.	M	Y	M	RED/ ORG.	M	M	N	N	Y
Viburnum, Arrowwood <i>Viburnum dentatum</i>	6-10	6-10	6-10	MED.	Y	Y	M	RED	M	M	M	N	M
Viburnum, Nannyberry <i>Viburnum lentago</i>	8-12	10-14	8-12	MED.	Y	Y	M	YEL./ RED	M	Y	M	N	M
Willow, Sandbar <i>Salix interior</i>	5-10	5-10	5-10	FAST	N	N	N	NONE	Y	N	Y	N	Y

Shrubs (cont.)

Power Lines (12)	USDA Hard. Zones (13)	N.D. Hard. Zones (13)	----- Soil Adaptation -----				- Temp. Adapt. -		Shade Tolerance (16)	Estab-lishment (17)	Snow/Ice Tolerance (18)	Unique Feature (19)	Common Name <i>Scientific Name</i>
			Dry (14)	Wet (14)	Sodic/ Saline (14)	Alka- line (14)	Cold/ Wind (15)	Hot/ Wind (15)					
Y	2	A,B,C	M	N	N	M	Y	M	N	M	M	Seeds	Almond, Russian <i>Prunus tenella</i>
Y	2	A,B,C	Y	N	Y	Y	Y	Y	N	Y	N	Thorns, fruit	Buffaloberry, Silver <i>Shepherdia argentea</i>
Y	2	A,B,C	Y	N	Y	Y	Y	Y	M	Y	M	Seed pods	Caragana (Siberian Peashrub) <i>Caragana arborescens</i>
Y	2	A,B	M	N	N	N	Y	M	N	M	M	Fruit color	Cherry, Mongolian <i>Prunus fruticosa</i>
Y	2	A,B	M	N	N	M	Y	M	N	Y	M	Leaf texture, short-lived	Cherry, Nanking <i>Prunus tomentosa</i>
Y	2	A,B,C	M	N	N	M	Y	Y	M	Y	Y	Fruit	Chokecherry <i>Prunus virginiana</i>
Y	3	A,B	M	N	N	M	Y	Y	M	Y	M	Fruit color	Cotoneaster, European <i>Cotoneaster integerrimus</i>
Y	2	A,B	N	N	N	M	Y	M	Y	Y	M	Fall color, fruit color	Cranberrybush, American <i>Viburnum trilobum</i>
Y	2	A,B,C	M	N	Y	Y	Y	Y	M	Y	M	Spicy flower	Currant, Golden (Clove) <i>Ribes odoratum</i>
Y	2	A,B	N	Y	N	M	Y	M	Y	Y	M	Red twigs	Dogwood, Redosier <i>Cornus sericea</i>
Y	4	A,B*	N	N	N	M	M	M	M	M	M	Pink/red fruit	Euonymus, Winterberry <i>Euonymus bungeana</i>
Y	3	A,B	M	N	N	M	Y	M	M	Y	M	Early flower	Forsythia, Meadowlark <i>Forsythia x 'Meadowlark'</i>
Y	2	A,B,C	M	M	N	Y	Y	Y	Y	Y	M	Aphid resistant	Honeysuckle, Amur <i>Lonicera maackii</i>
Y	4	A,B	Y	M	Y	Y	Y	Y	N	Y	M	Aphid resistant	Honeysuckle, Freedom <i>Lonicera x 'Freedom'</i>
Y	3	A,B	M	Y	N	M	M	M	N	Y	M	Purple flower	Indigo, False <i>Amorpha fruticosa</i>
Y	2	A,B,C	M	N	N	M	Y	M	M	M	M	Fruit	Juneberry (Saskatoon Serviceberry) <i>Amelanchier alnifolia</i>
Y	2	A,B,C	Y	N	Y	Y	Y	Y	N	Y	M	Fragrant flower	Lilac, Common <i>Syringa vulgaris</i>
Y	2	A,B	M	N	N	M	Y	M	N	Y	M	Late flower	Lilac, Late <i>Syringa villosa</i>
Y	3	A,B,C	M	N	N	M	Y	Y	M	Y	M	Fruit	Plum, American <i>Prunus americana</i>
Y	2	A,B,C	Y	N	N	M	Y	Y	N	Y	M	Flower	Potentilla (Shrubby Cinquefoil) <i>Potentilla fruticosa</i>
Y	2	A,B,C	Y	N	N	Y	Y	Y	M	Y	M	Flower, thorns	Rose, Hansen Hedge <i>Rosa species</i>
Y	3	A,B,C	M	N	N	M	Y	Y	N	Y	M	Fruit, short-lived	Sandcherry, Western <i>Prunus besseyi</i>
Y	3	A,B	M	M	Y	Y	Y	Y	N	Y	M	Fruit, thorns	Sea-buckthorn <i>Hippophae rhamnoides</i>
Y	2	A,B,C	Y	M	Y	Y	Y	Y	N	M	M	Leaf color, fruit	Silverberry <i>Elaeagnus commutata</i>
Y	3	A,B	M	N	N	M	M	M	M	M	M	Flower	Spiraea, Vanhoutte <i>Spiraea x vanhouttei</i>
Y	4	A,B*	M	M	N	M	M	M	M	Y	M	Fall color	Sumac, Fragrant <i>Rhus aromatica</i>
Y	3	A,B,C	M	N	Y	M	Y	M	M	Y	M	Fall color	Sumac, Skunkbush (Lemonade) <i>Rhus trilobata</i>
Y	3	A,B,C	M	M	N	M	Y	Y	M	Y	M	Fall color	Sumac, Smooth <i>Rhus glabra</i>
Y	3	A	M	M	N	M	N	M	M	Y	M	Seed heads, fall color	Sumac, Staghorn <i>Rhus typhina</i>
Y	2	A	N	M	N	N	M	M	M	M	M	Leaf color, fruit	Viburnum, Arrowwood <i>Viburnum dentatum</i>
Y	2	A,B,C	M	M	N	M	Y	M	M	Y	M	Winter food for wildlife	Viburnum, Nannyberry <i>Viburnum lentago</i>
Y	3	A,B,C	N	Y	N	M	Y	M	N	Y	M	Thickets	Willow, Sandbar <i>Salix interior</i>

* Refer to Quick Reference Legend #13

Table 2-1. Quick reference guide to tree and shrub characteristics

Small Trees

Common Name <i>Scientific Name</i>	20 Year Height (1)	Mature Height (1)	Mature Crown Spread (1)	Growth Rate (2)	Land- scape (3)	Flower (4)	Usable Fruit (5)	Fall Leaf Color (6)	Wild- Life Cover (7)	Wild- Life Food (8)	Wind- Breaks (9)	Forest Products (10)	Suckers (11)
Apple, Common <i>Malus pumila</i>	15-18	15-25	10-25	MED.	M	Y	Y	BRN./ YEL.	N	M	M	M	N
Apricot, Manchurian <i>Prunus armeniaca</i> var. <i>mandshurica</i>	8-14	10-15	12-18	MED.	M	Y	Y	YEL./ ORG.	M	Y	Y	M	N
Chokecherry, Amur <i>Prunus maackii</i>	15-20	15-25	15-25	MED.	Y	Y	M	YEL.	N	M	N	M	N
Crabapple, Flowering <i>Malus</i> hybrids	10-15	10-25	15-25	MED.	Y	Y	Y	YEL./ RED	M	Y	M	M	N
Crabapple, Siberian <i>Malus</i> hybrids	10-15	15-25	15-25	MED.	Y	Y	M	YEL.	M	Y	Y	M	N
Hawthorn, Arnold <i>Crataegus arnoldiana</i>	10-12	15-20	15-20	SLOW	M	Y	M	YEL.	Y	M	Y	N	N
Ironwood (American Hop-hornbeam) <i>Ostrya virginiana</i>	10-15	15-30	12-25	SLOW	Y	M	N	YEL./ ORG.	M	N	N	M	N
Lilac, Japanese Tree <i>Syringa reticulata</i>	12-15	20-25	15-25	MED.	Y	Y	N	BRN.	M	N	M	N	N
Maple, Amur <i>Acer ginnala</i>	10-12	15-20	15-20	MED.	Y	M	N	YEL./ RED	M	N	Y	N	N
Maple, Tatarian <i>Acer tataricum</i>	10-12	18-30	15-25	MED.	Y	M	N	YEL.	M	N	Y	N	N
Mountain-ash, European <i>Sorbus aucuparia</i>	15-20	20-30	15-25	MED.	Y	Y	M	RED/ YEL.	M	M	N	N	N
Pear, Ussurian (Harbin) <i>Pyrus ussuriensis</i>	12-14	15-30	15-20	MED.	M	Y	M	ORG./ YEL.	M	Y	Y	N	N
Russian-olive <i>Elaeagnus angustifolia</i>	10-16	15-25	12-25	FAST	M	M	N	NONE	M	Y	Y	M	N

Medium and Tall Trees

Common Name <i>Scientific Name</i>	20 Year Height (1)	Mature Height (1)	Mature Crown Spread (1)	Growth Rate (2)	Land- scape (3)	Flower (4)	Usable Fruit (5)	Fall Leaf Color (6)	Wild- Life Cover (7)	Wild- Life Food (8)	Wind- Breaks (9)	Forest Products (10)	Suckers (11)
Ash, Black <i>Fraxinus nigra</i>	18-20	30-50	15-30	MED.	Y	N	N	YEL.	M	M	M	Y	N
Ash, Green <i>Fraxinus pennsylvanica</i>	20-30	35-65	30-40	MED.	Y	N	N	YEL.	M	M	Y	Y	N
Ash, Manchurian <i>Fraxinus mandshurica</i>	18-20	30-55	25-35	MED.	Y	N	N	YEL.	M	M	M	N	N
Aspen, Quaking <i>Populus tremuloides</i>	25-30	25-60	20-30	FAST	M	M	N	YEL.	Y	Y	M	Y	Y
Birch, Paper <i>Betula papyrifera</i>	20-25	30-55	20-40	MED.	Y	M	N	YEL.	N	M	N	Y	N
Boxelder <i>Acer negundo</i>	18-20	30-60	30-60	FAST	N	M	N	YEL./ BRN.	M	M	Y	M	N
Buckeye, Ohio <i>Aesculus glabra</i>	12-15	20-40	20-35	SLOW	M	Y	N	YEL./ RED	M	Y	N	N	N
Cottonwood <i>Populus deltoides</i>	38-46	50-100	40-75	FAST	M	M	N	YEL.	M	M	Y	Y	N
Elm, American <i>Ulmus americana</i>	25-30	45-65	30-50	MED.	M	N	N	YEL.	M	M	Y	Y	N
Elm, Japanese <i>Ulmus davidiana</i> var. <i>japonica</i>	25-30	35-55	25-35	MED.	Y	N	N	YEL.	M	M	M	M	N
Elm, Siberian <i>Ulmus pumila</i>	24-30	25-50	20-40	MED.	N	N	N	BRN.	M	M	Y	N	M
Hackberry, Common <i>Celtis occidentalis</i>	18-22	40-60	25-45	MED.	Y	N	N	YEL.	M	Y	M	Y	N
Honeylocust, Common <i>Gleditsia triacanthos</i>	15-20	30-50	30-40	FAST	M	N	N	YEL.	N	M	N	M	N
Linden, American (Basswood) <i>Tilia americana</i>	20-25	50-70	30-50	MED.	Y	Y	N	BRN./ YEL.	M	M	N	Y	M

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Small Trees (cont.)

Power Lines (12)	USDA Hard. Zones (13)	N.D. Hard. Zones (13)	Soil Adaptation				Temp. Adapt.		Shade Tolerance (16)	Establishment (17)	Snow/Ice Tolerance (18)	Unique Feature (19)	Common Name Scientific Name
			Dry (14)	Wet (14)	Sodic/Saline (14)	Alkaline (14)	Cold/Wind (15)	Hot/Wind (15)					
Y	3	A,B,C*	M	N	N	N	M	M	N	M	M	Fruit	Apple, Common <i>Malus pumila</i>
Y	3	A,B,C	M	N	N	M	Y	Y	N	Y	M	Fruit	Apricot, Manchurian <i>Prunus armeniaca</i> var. <i>mandshurica</i>
Y	3	A,B	M	N	N	M	Y	M	N	Y	M	Orange bark	Chokecherry, Amur <i>Prunus maackii</i>
Y	3	A,B,C*	M	N	N	M	M	M	N	M	M	Varied shape, fruit, flowers	Crabapple, Flowering <i>Malus</i> hybrids
M	2	A,B,C	M	N	N	M	Y	Y	N	Y	M	Disease resistance	Crabapple, Siberian <i>Malus baccata</i>
Y	3	A,B,C	Y	M	M	M	Y	Y	N	M	M	Thorns, Fruit	Hawthorn, Arnold <i>Crataegus arnoldiana</i>
M	3	A,B	N	M	N	N	M	M	Y	N	M	Shape of fruit drupe	Ironwood (American Hop-hornbeam) <i>Ostrya virginiana</i>
Y	3	A,B	M	N	N	M	Y	M	N	M	M	Flower	Lilac, Japanese Tree <i>Syringa reticulata</i>
Y	2	A,B,C	M	N	N	N	Y	Y	N	Y	M	Fall color variation	Maple, Amur <i>Acer ginnala</i>
M	2	A,B,C	M	N	N	N	Y	Y	N	Y	M	Fall color variation	Maple, Tatarian <i>Acer tataricum</i>
M	3	A,B	N	N	N	M	M	M	N	M	M	Fruit, flower	Mountain-ash, European <i>Sorbus aucuparia</i>
M	3	A,B,C	M	N	N	M	Y	M	N	Y	M	Fruit, flower	Pear, Ussurian (Harbin) <i>Pyrus ussuriensis</i>
Y	2	A,B,C	Y	M	Y	Y	Y	Y	M	Y	M	Thorns, spreads	Russian-olive <i>Elaeagnus angustifolia</i>

Medium and Tall Trees

Power Lines (12)	USDA Hard. Zones (13)	N.D. Hard. Zones (13)	Soil				Temperature		Shade Tolerance (16)	Establishment (17)	Snow/Ice Tolerance (18)	Unique Feature (19)	Common Name Scientific Name
			Dry (14)	Wet (14)	Sodic/Saline (14)	Alkaline (14)	Cold/Wind (15)	Hot/Wind (15)					
N	3	A,B	N	Y	N	M	Y	M	M	Y	Y	Dark buds	Ash, Black <i>Fraxinus nigra</i>
N	2	A,B,C	Y	Y	Y	Y	Y	Y	M	Y	Y	Hardy tree	Ash, Green <i>Fraxinus pennsylvanica</i>
N	3	A,B	M	Y	N	M	Y	M	N	Y	M	Oval dense form	Ash, Manchurian <i>Fraxinus mandshurica</i>
N	1	A,B,C	N	M	N	M	Y	M	N	N	Y	Quaking leaf	Aspen, Quaking <i>Populus tremuloides</i>
N	2	A,B,C	N	N	N	N	Y	M	M	M	M	White bark	Birch, Paper <i>Betula papyrifera</i>
N	2	A,B,C	M	Y	N	M	Y	Y	N	Y	M	Herbicide susceptibility	Boxelder <i>Acer negundo</i>
M	3	A,B	N	N	N	M	M	M	M	M	M	Seeds	Buckeye, Ohio <i>Aesculus glabra</i>
N	2	A,B,C	N	Y	N	Y	Y	Y	N	Y	M	Cotton	Cottonwood <i>Populus deltoides</i>
N	2	A,B,C	M	Y	N	M	Y	Y	M	Y	Y	Dutch elm disease (DED)	Elm, American <i>Ulmus americana</i>
N	2	A,B	M	M	N	M	Y	Y	M	Y	Y	DED tolerant	Elm, Japanese <i>Ulmus davidiana</i> var. <i>japonica</i>
N	3	A,B,C	Y	M	Y	Y	Y	Y	M	Y	Y	Herbicide susceptibility	Elm, Siberian <i>Ulmus pumila</i>
N	2	A,B,C	M	Y	N	M	Y	Y	M	M	Y	Ridged bark	Hackberry, Common <i>Celtis occidentalis</i>
N	4	A*	N	Y	N	M	N	M	N	M	M	Thorns seeds	Honeylocust, Common <i>Gleditsia triacanthos</i>
N	2	A, B	N	M	N	M	Y	M	M	M	M	Flowers, seeds	Linden, American (Basswood) <i>Tilia americana</i>

* Refer to Quick Reference Legend #13

(Continued)

Table 2-1. Quick reference guide to tree and shrub characteristics

Medium and Tall Trees continued

Common Name Scientific Name	20 Year Height (1)	Mature Height (1)	Mature Crown Spread (1)	Growth Rate (2)	Land- scape (3)	Flower (4)	Usable Fruit (5)	Fall Leaf Color (6)	Wild- Life Cover (7)	Wild- Life Food (8)	Wind- Breaks (9)	Forest Products (10)	Suckers (11)
Linden, Littleleaf <i>Tilia cordata</i>	18-20	30-45	20-30	MED.	Y	Y	N	BRN./ YEL.	M	M	M	N	M
Maple, Silver <i>Acer saccharinum</i>	25-30	40-65	30-50	FAST	M	M	N	YEL.	M	M	M	M	M
Oak, Bur <i>Quercus macrocarpa</i>	18-20	40-70	35-60	SLOW	Y	M	N	YEL./ BRN.	M	Y	Y	Y	N
Oak, Mongolian <i>Quercus mongolica</i>	18-20	30-50	30-40	SLOW	Y	M	N	BRN./ PUR.	M	Y	M	M	N
Poplar, Hybrid <i>Populus hybrids</i>	35-40	40-60	20-35	FAST	M	N	N	BRN./ YEL.	M	M	M	M	M
Poplar, White <i>Populus alba</i>	28-35	40-60	35-50	FAST	M	N	N	NONE/ YEL.	M	M	Y	M	Y
Walnut, Black <i>Juglans nigra</i>	20-25	35-60	30-50	MED.	M	M	Y	BRN./ YEL.	M	Y	N	Y	N
Willow, Golden <i>Salix alba</i> 'Vitellina'	20-25	40-55	40-55	FAST	M	M	N	NONE	M	M	Y	M	N
Willow, Laurel <i>Salix pentandra</i>	20-25	25-40	20-35	FAST	M	M	N	NONE	M	M	Y	N	N
Willow, Redstem <i>Salix alba</i> 'Chermesina'	20-25	40-60	30-45	FAST	M	M	N	NONE	M	M	Y	M	N
Willow, White <i>Salix alba</i>	20-25	40-65	30-50	FAST	M	M	N	NONE	M	M	Y	Y	N

Conifers

Common Name Scientific Name	20 Year Height (1)	Mature Height (1)	Mature Crown Spread (1)	Growth Rate (2)	Land- scape (3)	Flower (4)	Usable Fruit (5)	Fall Leaf Color (6)	Wild- Life Cover (7)	Wild- Life Food (8)	Wind- Breaks (9)	Forest Products (10)	Suckers (11)
Arborvitae, American <i>Thuja occidentalis</i>	6-12	15-40	10-20	SLOW	Y	N	N	NONE	Y	M	N	M	N
Arborvitae, Siberian <i>Thuja occidentalis</i> 'Wareana'	6-12	10-18	10-18	SLOW	Y	N	N	NONE	Y	M	M	N	N
Douglas-fir, Rocky Mountain <i>Pseudotsuga menziesii</i> var. <i>glauca</i>	12-18	40-70	20-30	SLOW	Y	M	N	NONE	M	M	M	M	N
Fir, White (Concolor) <i>Abies concolor</i>	12-18	25-40	15-25	SLOW	Y	M	N	NONE	M	N	N	M	N
Juniper, Rocky Mountain <i>Juniperus scopulorum</i>	10-12	20-40	12-20	SLOW	M	N	N	NONE	Y	Y	Y	Y	N
Larch, Siberian <i>Larix sibirica</i>	16-20	30-60	15-25	MED.	Y	N	N	YEL.	M	N	M	M	N
Pine, Jack <i>Pinus banksiana</i>	10-14	25-50	20-30	SLOW	M	M	N	NONE	M	N	M	M	N
Pine, Limber <i>Pinus flexilis</i>	12-20	30-45	15-30	MED.	Y	M	M	NONE	M	M	M	N	N
Pine, Lodgepole <i>Pinus contorta</i> var. <i>latifolia</i>	12-20	25-55	15-25	MED.	Y	M	N	NONE	M	N	M	M	N
Pine, Mugo <i>Pinus mugo</i>	1-15	3-20	5-30	SLOW	Y	M	N	NONE	M	N	M	N	N
Pine, Ponderosa <i>Pinus ponderosa</i>	16-20	50-70	25-30	MED.	Y	M	N	NONE	M	N	Y	Y	N
Pine, Scotch <i>Pinus sylvestris</i>	14-16	25-50	20-35	MED.	Y	M	N	NONE	M	N	Y	Y	N
Red-cedar, Eastern <i>Juniperus virginiana</i>	10-12	30-45	15-30	SLOW	M	N	N	NONE	Y	Y	Y	Y	N
Spruce, Black Hills <i>Picea glauca</i> var. <i>densata</i>	16-20	30-60	15-25	MED.	Y	M	M	NONE	Y	N	Y	Y	N
Spruce, Colorado (Blue) <i>Picea pungens</i>	16-20	30-65	15-25	MED.	Y	M	M	NONE	Y	N	Y	Y	N

Medium and Tall Trees (cont.)

Power Lines (12)	USDA Hard. Zones (13)	N.D. Hard. Zones (13)	Soil Adaptation				Temp. Adapt.		Shade Tolerance (16)	Establishment (17)	Snow/Ice Tolerance (18)	Unique Feature (19)	Common Name Scientific Name
			Dry (14)	Wet (14)	Sodic/Saline (14)	Alkaline (14)	Cold/Wind (15)	Hot/Wind (15)					
N	3	A,B	N	M	N	M	Y	M	M	M	M	Flowers, seeds	Linden, Littleleaf <i>Tilia cordata</i>
N	3	A,B*	N	Y	N	N	M	M	M	Y	N	Soft wood	Maple, Silver <i>Acer saccharinum</i>
N	2	A,B,C	Y	Y	N	M	Y	Y	M	M	Y	Acorn	Oak, Bur <i>Quercus macrocarpa</i>
N	3	A,B	M	M	N	M	Y	Y	N	M	Y	Partial leaf retention	Oak, Mongolian <i>Quercus mongolica</i>
N	3	A,B	N	Y	N	M	M	M	N	Y	M	Fast growth	Poplar, Hybrid <i>Populus</i> hybrids
N	3	A,B,C	N	Y	N	Y	M	M	N	Y	M	Silver leaves	Poplar, White <i>Populus alba</i>
N	4	A*	N	N	N	M	N	M	N	M	M	Wood, nuts	Walnut, Black <i>Juglans nigra</i>
N	2	A,B	N	Y	N	M	M	M	N	Y	M	Yellow twigs	Willow, Golden <i>Salix alba</i> 'Vitellina'
M	3	A,B	N	Y	N	M	M	M	N	Y	M	Shiny leaf	Willow, Laurel <i>Salix pentandra</i>
N	2	A,B	N	Y	N	M	M	M	N	Y	M	Red twig	Willow, Redstem <i>Salix alba</i> 'Chermesina'
N	2	A,B	N	Y	N	M	M	M	N	Y	M	Willow posts	Willow, White <i>Salix alba</i>

Conifers

Power Lines (12)	USDA Hard. Zones (13)	N.D. Hard. Zones (13)	Soil				Temperature		Shade Tolerance (16)	Establishment (17)	Snow/Ice Tolerance (18)	Unique Feature (19)	Common Name Scientific Name
			Dry (14)	Wet (14)	Sodic/Saline (14)	Alkaline (14)	Cold/Wind (15)	Hot/Wind (15)					
M	3	A	N	N	N	M	M	M	M	M	M	Winter burn	Arborvitae, American <i>Thuja occidentalis</i>
Y	2	A,B	N	N	N	M	Y	M	M	M	M	Winter hardy	Arborvitae, Siberian <i>Thuja occidentalis</i> 'Wareana'
N	3	A,B,C*	M	N	N	M	M	M	N	N	M	Cone	Douglas-fir, Rocky Mountain <i>Pseudotsuga menziesii</i> var. <i>glauca</i>
N	4	A,B,C*	N	N	N	N	N	M	M	N	M	Needle color	Fir, White (Concolor) <i>Abies concolor</i>
M	3	A,B,C	Y	N	Y	Y	Y	Y	M	M	M	Wildlife value	Juniper, Rocky Mountain <i>Juniperus scopulorum</i>
N	2	A,B,C	N	N	M	M	Y	M	N	M	M	Fall color	Larch, Siberian <i>Larix sibirica</i>
N	2	A,B	N	N	M	N	M	M	N	N	N	Slow growth	Pine, Jack <i>Pinus banksiana</i>
N	3	B,C*	M	N	M	M	Y	Y	N	N	N	Five-needled	Pine, Limber <i>Pinus flexilis</i>
N	2	B,C*	M	N	M	M	Y	Y	N	N	N	Cone	Pine, Lodgepole <i>Pinus contorta</i> var. <i>latifolia</i>
Y	2	A,B,C	M	N	M	M	M	Y	N	Y	M	Shape	Pine, Mugo <i>Pinus mugo</i>
N	3	A,B,C	Y	N	Y	Y	Y	Y	N	N	N	Long life	Pine, Ponderosa <i>Pinus ponderosa</i>
N	3	A,B	M	N	M	M	M	Y	N	M	M	Bark color	Pine, Scotch <i>Pinus sylvestris</i>
M	2	A,B,C	Y	M	Y	Y	M	Y	Y	M	M	Wildlife value	Red-cedar, Eastern <i>Juniperus virginiana</i>
N	2	A,B,C	M	M	M	M	Y	Y	N	M	M	Spider mites	Spruce, Black Hills <i>Picea glauca</i> var. <i>densata</i>
N	2	A,B,C	M	N	M	M	Y	Y	N	M	M	Needle color	Spruce, Colorado (Blue) <i>Picea pungens</i>

* Refer to Quick Reference Legend #13