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# LANDSCAPE PLANTS

*for Iowa*

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# LANDSCAPE PLANTS

*for Iowa*

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# Landscape Plants for Iowa

*"Beauty in the landscape is enhanced by the wise selection and proper use of plant materials."*

This pamphlet, which supersedes "Iowa Landscape Plants," Pamphlet 5, has been prepared so it will be easier for you to make a *wise selection* of plants for your home grounds, farmsteads and public grounds.

The *wise selection* is based on deciding:

first: *why* you need to plant;

second: *where* you need to plant;

third and finally: *what* you need to plant.

In deciding on the "why," "where" and "what" to plant, you must keep in mind the three goals for the development of outdoor areas. Outdoor areas, in order to be satisfying over the years, must be:

1. Convenient and efficient in layout.
2. Beautiful (pleasing to look at).
3. Easy to take care of—within the time limits, energies, and amount of money that may be spent by an individual, group or community on upkeep. (If a place is not well maintained, its convenience and efficiency and its beauty will be lessened.)

Why do you want to plant? There may be several reasons; among them are the following:

1. To make the "man-made" place you are going to "plant" fit better in its surroundings.
2. To make it beautiful.
3. For protection from the sun's rays or from wind, rain or snow.
4. For privacy.
5. For added interest.
6. For flowers, foliage, fruit and twigs for cutting.
7. For food.
8. To attract birds by providing plant food and shelter for them.
9. For delightful odors and sounds.

After you have considered the reasons why you want to plant, then you must decide "where" and "what" you will need to plant in order to eventually get the results you desire. For example: First, you will have to decide where you will need to have plants:

- a. To make the buildings belong better in their surroundings.
- b. To make them look better.
- c. To provide shade where it is needed, etc.

Second, you will need to decide what height, shape and kind of plant will best meet the requirements of each location.

To do this you can make sketches of the proposed planting, either directly on dull-print snapshots of each side of each building or on sheets of transparent paper, such as white tissue paper or onionskin, placed over the snapshots. After you have made sketches that show you the relative location and size each plant

should be, then measure up on each building to learn the exact height each plant must reach when full grown to give you the results you want. You can study the locations and sizes of plants along boundaries, fences or walls in the same way. If you do this, the plantings put in will always be much better because you will never sketch in plants that will grow to the top of the roof or over the windows, or that will hide a view that you want to see.

After you know the locations and sizes of plants, then decide upon the best plant for each location. You will start by checking the plants in this bulletin that will grow to the right height and spread and that will do well in the location (adaptation). Finally, you will consider the plant's other characteristics: shape, growth rate, color and texture of stems and foliage, fruit, fall color, bloom, fragrance, disease and insect incidence and fruits that provide food for birds. You will also want to consider how the plant will look throughout the year with the buildings and other structures and with the other plants to be grown near it. For more detailed suggestions see "Your Farm Home Grounds," available at the Bulletin Office, Iowa State College, Ames, Iowa.

## NOTE

**IMPORTANT:** *In order to use this bulletin effectively, you must read the introduction above and the following explanation of terms.*

**KEY NO.**—On your sketches or plans, because of the limited space, you can use the "Key No." instead of the plant's name to indicate the plant to be used. If more than one of a kind is to be used, write in the quantity after a dash beside the "Key No."

**BOTANICAL NAME**—Name by which each plant is known all over the world and the one listed for it in "Standardized Plant Names—A Listing of Approved Scientific and Common Names of Plants."

**COMMON NAME**—One of several "nicknames" for each plant, which in each case is the one listed in "Standardized Plant Names."

**GROWTH RATE, HEIGHT IN FEET, SPREAD IN FEET, ADAPTATION**—The rate of growth of a plant and its ultimate size vary with the conditions under which it grows. In some cases too much water, in others too little; in some too much sunlight, in others not enough; competition from other plants; soil condi-



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tions that are not right for the plant; these will affect the rate of growth and size of a plant and even its ability to live.

Set plants  $\frac{3}{4}$  of their "Spread in Feet" apart as given in this bulletin; a little less than  $\frac{1}{2}$  their spread out from a building or fence; a little more than  $\frac{1}{2}$  their spread out from a walk or drive.

**SHAPE OR HABIT**—The silhouette of the plant when it is full grown.

"Conical," "pyramidal" and "columnar" shaped plants in order to look well should almost always be grown with foliage to the ground. Because of their commanding forms with their striking accent character, if used, they should be selected with great discrimination to see that they properly fit in each landscape picture.

Plants that are "compact," "spreading," "horizontal," "arching" and "upright" in habit are the most desirable ones for most locations. Shrubs that are "loose," "suckering," "stiff," "straggly" or "open" in habit should only be used in those locations where these less desirable habits will be an asset. For example: where a tracery of stems is desired against a wall; where a heavy mass thicket is wanted.

**TEXTURE**—The relationship between the size of the foliage and the twigs to the full size of the plant; coarse as exemplified by snowhill hydrangea and catalpa; medium by rugosa rose and American elm; fine, by willows and bridalwreath; very fine, by tamarisk and thunberg spirea. For most attractive effects avoid using fine-textured plants next to coarse-textured ones.

#### FOOTNOTES

- \*—Hardy plant and one generally recommended for home grounds use where a plant of this size and type is desired.
- N—Native (grows wild) in some sections of Iowa.
- H—Hardiness doubtful in colder and drier sections of Iowa.
- E—Does best in northeast Iowa.
- S—Southern Iowa only.
- D—Frequently affected by disease, insects or other growth inhibitors.
- C—Comparatively short-lived.
- :—If possible buy non-fruiting trees, as fruits have an obnoxious odor.
- R—Foliage colored throughout growing season.
- G—Good plant for clipped hedge.
- B—Fruits and seeds especially valuable for food for birds.
- J—Fruits used to make jams and jellies.
- M—Spreads, needs control to restrict it to a limited area.
- F—Flowers fragrant.
- X—Flowers close up at night.
- Z—Evergreen.

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## TREES

### Evergreen Trees

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adaptation	Shape	Growth Rate	Foliage Texture	Foliage Color	Fruit	Distinguishing Characteristics
<b>LARGE—40-100 FEET</b>											
200	<i>Abies concolor</i> —*B	White Fir	50	20-30	Dry, moist	Conical	Medium	Fine	Bluish-grn.	Cone	Soft appearance
201	<i>Picea abies</i> —B	Norway Spruce	80	30-40	Moist	Conical	Quick	Fine	Dk. green	Cone	Pendulous branchlets
202	<i>Picea glauca</i> —B	White Spruce	50	25	General	Conical	Slow	Fine	Bluish-grn.	Cone	Compact
202a	<i>Picea glauca densata</i> —B	Blackhills White Spruce	40	25	General	Conical	Slow	Fine	Green	Cone	Dense and compact
203	<i>Picea pungens</i> —B	Colorado Spruce	40	20-25	Moist	Conical	Slow	Fine	Green	Cone	Stiff, symmetrical
203a	<i>Picea pungens glauca</i>	Colorado Blue Spruce	40	20-25	Moist	Conical	Slow	Fine	blue-grn.	Cone	Stiff, symmetrical
204	<i>Pinus banksiana</i> —B	Jack Pine	75	20-25	Sand	Oval	Slow	Fine	Lt. green	Cone	Loose, open
205	<i>Pinus nigra</i> —*B	Austrian Pine	60	40-50	General	Oval	Medium	Coarse	Dk. green	Cone	Densely foliated
206	<i>Pinus ponderosa</i> —B	Western Yellow (Bull) Pine	60-80	30-40	Dry	Oval	Quick	Coarse	Green	Cone	Scaly bark
207	<i>Pinus strobus</i> —NDB	Eastern White Pine	75	40-50	Moist	Oval	Medium	Fine	Soft grn.	Cone	Soft appearance
208	<i>Pinus sylvestris</i> —B	Scotch Pine	60	40-50	General	Oval	Quick	Medium	Green	Cone	Salmon-colored bark
209	<i>Pseudotsuga taxifolia</i> —*B	Douglas Fir	60-80	30-40	Well drain.	Conical	Medium	Fine	Green	Cone	Ligulate cones
210	<i>Tsuga canadensis</i> —HB	Canada Hemlock	60-70	30-40	Shade, acid	Conical	Medium	Fine	Dk. grn.	Cone	Dark green foliage

### MEDIUM—15-40 FEET

220	<i>Juniperus chinensis</i> —B	Pyramid Chinese Juniper	20	6-8	Dry, sun	Columnar	Quick	Fine	Lt. grn.	Whit.-grn.	Sharp to touch
220a	<i>Juniperus chinensis (columnaris)</i> —B	Blue Columnar Juniper	15-20	6	Dry, sun	Columnar	Quick	Fine	Blue-grn.	Whit.-grn.	Sharp to touch
220b	<i>Juniperus chinensis (keteleeri)</i> —*B	Keteleer Juniper	15	4-6	Dry, sun	Pyramidal	Medium	Fine	Lt. grn.	Whit.-grn.	Scale-like foliage
221	<i>Juniperus scopulorum</i> —DB	Rocky Mt. Juniper	30	8-10	Dry, sun	Pyramidal	Medium	Fine	Green	Brt. blue	Densely foliated
222	<i>Juniperus virginiana</i> —NDB	Redcedar	40	10-15	Dry, sun	Pyramidal	Medium	Fine	Bronze grn.	Blue	In winter, bronze
222a	<i>Juniperus virginiana (burki)</i> —*DB	Burk Redcedar	20	5-6	Dry, sun	Narrow, pyr.	Medium	Fine	Silver grn.	Blue	Compactness
222b	<i>Juniperus virginiana (canaerti)</i> —DB	Canaert Redcedar	20	7-10	Dry, sun	Pyramidal	Medium	Fine	Dk. grn.	Blue	Loose, open
222c	<i>Juniperus virginiana (glauca)</i> —DB	Silver Redcedar	30	5-6	Dry, sun	Pyramidal	Medium	Fine	Silv. blue	Blue	Loose, open
222d	<i>Juniperus virginiana (hilli)</i> —*DB	Hill Dundee Juniper	20	5-6	Dry, sun	Pyramidal	Slow	Fine	Grey-grn.	Blue	Winter, plum colored
223	<i>Picea glauca conica</i>	Dwarf Alberta Spruce	7	2-3	Lt.-shade	Conical	Very slow	Fine	Green	None	Very compact
224	<i>Taxus cuspidata capitata</i>	Japanese Yew	15-20	6-8	Sh., moist	Pyramidal	Slow	Medium	Dk. grn.	Red	Dark color
225	<i>Thuja occidentalis</i> —EB	Eastern Arborvitae	40	8-10	Moist	Pyramidal	Medium	Medium	Lt. grn.	Cone	Open, lacy
225a	<i>Thuja occidentalis var.</i> —EB	Pyramidal Arborvitae	20	4-5	Moist	Columnar	Medium	Medium	Brt. green	Cone	Stiff, formal

### Deciduous Trees

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adaptation	Shape	Growth Rate	Foliage Texture	Foliage Fall Color	Fruit	Bark and Twigs	Distinguishing Characteristics
<b>VERY LARGE—75-100 FEET</b>												
300	<i>Acer saccharinum</i> —NCB	Silver (Soft) Maple	75-100	50-60	General	Round, sprdg.	Quick	Medium	Pale yellow	Wing-seed	Grey	Fast growth
301	<i>Acer saccharum</i> —*NEB	Sugar Maple	80	40-50	General	Oval	Medium	Medium	Yel. and red	Wing-seed	Dk. brn.	Fall color
302	<i>Fraxinus americana</i> —N	White Ash	80	50-60	General	Oval	Medium	Medium	Purp. or yel.	Clusters	Grey	Late leafing out
303	<i>Juglans nigra</i> —ND	Eastern Black Walnut	75-100	50-60	Rich, moist	Open, rnd.	Medium	Medium	None	Nut	Dark	Untidy
304	<i>Liriodendron tulipifera</i> —S	Tuliptree	80-90	30-40	General	Oblong	Medium	Medium	Brt. yellow	Cone-like	Grey	Showy blooms



# Deciduous Trees—Continued

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adapta- tion	Shape	Growth Rate	Foliage Texture	Fall Color	Fruit	Bark and Twigs	Distinguishing Characteristics
<b>VERY LARGE—75-100 FEET—Continued</b>												
305	<i>Platanus occidentalis</i> —ND	Am. Planetree (Sycamore)	80–100	50	Moist	Open, rnd.	Medium	Coarse	Dingy-yel.	Balls	Peeling	Light colored bark
306	<i>Populus alba</i> —NC	White (Silver) Poplar	75–100	50–60	Dry, moist	Oblong	Quick	Medium	Late, golden	Cottony	Gr.-white	Suckers
307	<i>Populus deltoides</i> —NC	Eastern Poplar (Cottonwood)	80–100	50–60	General	Spreading	Quick	Medium	Golden	Cottony	Light buff	Quivering foliage
308	<i>Populus canadensis eugenei</i> —C	Carolina Poplar	80	30–40	General	Oblong	Quick	Coarse	Golden	No cotton	Light buff	Quivering foliage
309	<i>Quercus alba</i> —NBD	White Oak	70–80	60	Dry, acid	Round	Slow	Medium	Purplish red	Acorn	Rough, lt.	Leaves on in winter
310	<i>Quercus borealis</i> —NBD	Northern Red Oak	70–80	50–60	General	Oval	Medium	Medium	Red	Acorn	Rgh., dk.	Fast growing oak
311	<i>Ulmus americana</i> —*NDB	American Elm	80–100	50–80	General	Vase	Medium	Medium	Yellow	Flat, grn.	Rgh., dk.	Vase shape
311a	<i>Ulmus americana (molini)</i> —DB	Moline Elm	80	40–50	General	Round	Medium	Medium	Yellow	Flat, grn.	Rgh., dk.	Weak crotches
<b>LARGE—60-75 FEET</b>												
320	<i>Acer nigrum</i> —*NB	Black Maple	75	50–60	General	Oval	Medium	Medium	Golden yel.	Winged	Rgh., dk.	Dense foliage
321	<i>Acer platanoides</i> —DB	Norway Maple	75	30	General	Oblong, oval	Medium	Medium	None	Winged	Rgh., dk.	Dense foliage
321a	<i>Acer platanoides var.</i> —DRB	Crimson King Maple	60	30	General	Oblong, oval	Medium	Medium	None	Winged	Rgh., dk.	Purplish red foliage
321b	<i>Acer platanoides var.</i> —DRB	Schwedler Maple	60	30	General	Oblong, oval	Medium	Medium	None	Winged	Rgh., dk.	Foliage, purplish red to green
322	<i>Acer rubrum</i> —NB	Red Maple	60–70	30–40	Moist	Oval	Medium	Medium	Red	Winged	Silvery	Fall color
323	<i>Carya ovata</i> —N	Shagbark Hickory	75	30–40	General	Oblong	Slow	Coarse	Golden brn.	Nut	Grey	Shaggy bark
324	<i>Celtis occidentalis</i> —*NDB	Common Hackberry	60–70	50	General	Vase	Medium	Medium	Soft yellow	Berries	Rgh., grey	Curly bark
325	<i>Fagus grandifolia</i> —H	American Beech	60–70	30	General	Oval	Slow	Medium	Yellow	Nut	Silvery	Lacy twigs
326	<i>Fraxinus pennsylvanica</i> —N	Red Ash	60	40–50	General	Oval	Quick	Medium	Yellow	Clusters	Rgh., dk.	Stiff branching
326a	<i>Fraxinus pennsylvanica lanceolata</i> —N	Green Ash	60	40–50	Dry, moist	Oblong	Quick	Medium	Yellow	Clusters	Rgh., dk.	Shiny green leaves
327	<i>Gleditsia triacanthos inermis var.</i>	Moraine Locust	75	40–50	General	Spreading	Quick	Fine	Golden	None	Very dk.	Fine, dark grn. foliage
328	<i>Gymnocladus dioicus</i> —N	Kentucky Coffeetree	75	40–50	Rich, moist	Spreading	Medium	Medium	Yellow	Lge. pods	Wavy	Coarse in winter
329	<i>Larix decidua</i>	European Larch	75	40–50	Moist	Conical	Medium	Fine	Golden	Sm. cone	Dark	Needlelike foliage
330	<i>Quercus macrocarpa</i> —NDB	Bur Oak	75	50–60	Dry, moist	Spreading	Medium	Coarse	None	Acorn	Rgh., dk.	Stout ruggedness
331	<i>Quercus palustris</i> —NDB	Pin Oak	70	40–50	General	Conical	Medium	Medium	Scarlet	Acorn	Sm. dark	Pyramidal shape
332	<i>Quercus robur</i> —DB	English Oak	75	50	General	Oval	Medium	Medium	None	Acorn	Rgh., grey	Dark green leaves
333	<i>Quercus velutina</i> —NDB	Black Oak	75	50–60	General	Ov., sprdg.	Medium	Coarse	Red	Acorn	Rgh., dk.	Lustrous leaves
334	<i>Salix alba</i> —NDC	White Willow	60	40–50	Moist, wet	Spreading	Quick	Fine	Yellow	Cottony	Gr. twigs	Massive size
335	<i>Tilia americana</i> —*NF	Am. Linden (Basswood)	75	50–60	General	Oval	Medium	Coarse	Yellow	Nutlet	Rgh., grey	Fragrant flowers
336	<i>Ulmus fulva</i> —NDB	Slippery (Red) Elm	65	45–50	General	Vase	Medium	Medium	None	Flat, grn.	Rgh., dk.	Rough leaves
337	<i>Ulmus glabra</i> —DB	Scotch Elm	75	40–50	General	Oval	Medium	Medium	None	Flat, grn.	Rgh., dk.	Good shape
338	<i>Ulmus pumila</i> —CB	Siberian (Chinese) Elm	65	40	Dry, moist	Spreading	Quick	Fine	None	Flat, grn.	Rgh., dk.	Damage—wind, sleet

N—Native (grows wild) in some sections of Iowa.

D—Frequently affected by disease, insects or other growth inhibitors.

C—Comparatively short-lived.

B—Fruits and seeds especially valuable for food for birds.

R—Foliage colored throughout growing season.

\*—Hardy plant and one generally recommended for home grounds use where a plant of this size and type is desired.

H—Hardiness doubtful in colder and drier sections of Iowa.

F—Flowers fragrant.

—If possible buy non-fruiting trees, as fruits have an obnoxious odor.

E—Does best in northeast Iowa.

S—Southern Iowa only.



# Deciduous Trees—Continued

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adapta- tion	Shape	Growth Rate	Foliage Texture	Fall Color	Fruit	Bark and Twigs	Distinguishing Characteristics
<b>MEDIUM—45-60 FEET</b>												
345	<i>Aesculus hippocastanum</i> —H	Common Horsechestnut	40-50	30	General	Oval	Slow	Coarse	None	Buckeye	Scaly, dk.	Big flower clusters
346	<i>Betula nigra</i> *—N	River (Red, Black) Birch	60	40	General	Oval	Medium	Fine	Golden	Cone-like	Peeling	Pinkish bark
347	<i>Betula papyrifera</i> —ND	Paper (Canoe) Birch	60	30	General	Spreading	Quick	Medium	Golden	Cone-like	Peeling	White bark
348	<i>Catalpa speciosa</i> —NC	Northern Catalpa	40-50	25	General	Oval	Quick	Coarse	None	Long pods	Rgh., grey	Big flower clusters
349	<i>Ginkgo biloba</i> —:H	Ginkgo (Maidenhairtree)	60	40	General	Irregular	Slow	Medium	Clear yellow	Drupe	Grey	Fanshaped leaves
350	<i>Populus alba bolleana</i> —DC	Bolleana Poplar	60	6-8	General	Columnar	Quick	Medium	Golden	None	Smooth	Leaves, white beneath
351	<i>Populus nigra italica</i> —DC	Lombardy Poplar	60	6-8	General	Columnar	Quick	Medium	None	None	Grey	Very short-lived
352	<i>Prunus serotina</i> —NB	Black Cherry	40-60	40-50	General	Spreading	Quick	Medium	Grn. to red	Black	Scaly, dk.	Shiny leaves
353	<i>Quercus coccinea</i> —NDB	Scarlet Oak	60	50	General	Round	Slow	Medium	Scarlet	Acorn	Rgh., dk.	Fall color
354	<i>Salix nigra</i> —NC	Black Willow	60	25-35	Moist, wet	Irregular	Quick	Fine	None	Cottony	Rgh., dk.	Largest willow
355	<i>Tilia cordata</i> —SF	Littleleaf Linden	50	35	City, rich	Oval	Medium	Medium	None	Nutlets	Rgh., grey	Small, fragrant flowers
<b>SMALL—30-45 FEET</b>												
360	<i>Aesculus glabra</i> —NH	Ohio Buckeye	40	25	General	Oval	Slow	Coarse	Orange	Buckeye	Rgh., brn.	Grn.-yellow flowers
361	<i>Ailanthus altissima</i> —CH	Treeofheaven Ailanthus	40	30	General	Irregular	Quick	Coarse	None	Orange	Smooth	Suckers
362	<i>Amelanchier laevis</i> —BJ	Allegheny Serviceberry	35	15	Dry	Spreading	Slow	Fine	Yellow, red	Blueberry	Smooth	Wh. flowers, early
363	<i>Betula pendula (laciniata)</i> —D	Cutleaf (Weeping) Birch	30-40	25	General	Oval	Medium	Fine	Golden	Cone-like	Peeling	White bark
364	<i>Crataegus mollis</i> *—NDB	Downy Hawthorn (Red Haw)	30	20-30	General	½-round	Slow	Medium	None	Red pome	Grey	White flowers
365	<i>Elaeagnus angustifolia</i> —BF	Russianolive	40	30	Dry	Spreading	Quick	Fine	None	Grey	Grapevine	Grey-green foliage
366	<i>Malus baccata</i> —DBJ	Siberian Crabapple	30-40	30	General	½-round	Medium	Medium	None	Yel., red	Grey	White blossoms
367	<i>Malus var.</i> —BJ	Dolgo Crabapple	25-30	20	General	½-round	Medium	Medium	None	Deep red	Grey	Large fruit
368	<i>Morus alba</i> —NB	White Mulberry	30	25	General	Round	Quick	Medium	Golden	Red berry	Dark	Weed tree
369	<i>Ostrya virginiana</i> —N	American Hophornbeam	20-30	20	Dry, shade	½-round	Slow	Fine	Yellow	Hop-like	Flaking	Hard to transplant
370	<i>Phellodendron amurense</i>	Amur Corktree	30-40	30	General	½-round	Medium	Coarse	Yellow	Black	Cork-like	Winter interest
371	<i>Prunus padus commutata</i> *—B	Harbinger Birdcherry (Maydaytree)	30-40	20	General	Oval	Slow	Medium	Red & yel.	Black	Dark	Bloom and fall color
372	<i>Prunus virginiana</i> —NB	Common Chokecherry	20-30	10	General	Upright	Medium	Medium	None	Black	Dark	Sucker clump
373	<i>Salix blanda</i> —CD	Wisconsin Weeping Willow	45	35	Moist, wet	Weeping	Quick	Fine	None	Cottony	Greenish	Pendulous branches
374	<i>Salix-Niobe</i> —CD	Niobe Weeping Willow	40	20	Moist, wet	Weeping	Quick	Fine	None	None	Yel. twigs	Pendulous branches
375	<i>Salix alba vitellina</i> —CD	Yellowstem Willow	40	20	Moist	Upright	Quick	Medium	None	Cottony	Gold twigs	Twigs in winter
376	<i>Sorbus aucuparia</i> —DECB	European Mountainash	35	25	General	Oval	Medium	Fine	None	Orange	Apple bk.	Wh. flrs., red berries
<b>VERY SMALL—UNDER 30 FEET</b>												
700	<i>Acer ginnala</i> *—B	Amur Maple	20	20	General	½-round	Medium	Fine	Scarlet	Winged	Thin, dk.	Very hardy
701	<i>Acer tataricum</i> *—B	Tatarian Maple	25	15	General	Oval	Medium	Medium	Yellow	Red, wing.	Smooth dk.	Very hardy
702	<i>Amelanchier canadensis</i> —NHB	Shadblow Serviceberry	25	12	Well drained	Oval	Slow	Fine	Yel. to red	Purple berry	Smooth lt.	White flowers, early
703	<i>Carpinus caroliniana</i> —N	American Hornbeam (Blue Beech)	20	15	Moist slopes	Irregular	Slow	Fine	Grn. to red	Green clusters	Sinewed	Difficult to grow
704	<i>Cercis canadensis</i> *—NH	Eastern Redbud (Judastree)	20	12	City, rich	Round	Slow	Coarse	Yellow	Sm. pods	Dk. grey	Cerise pink flowers
705	<i>Cornus alternifolia</i> —NHB	Pagoda Dogwood	15	10	Shade	Horizontal	Slow	Medium	None	Bl.-berry	Reddish	Sm. creamy flowers
706	<i>Crataegus crusgalli</i> —B	Cockspur Hawthorn	25	18	General	Round	Very slow	Medium	Red-orange	Br't red	Flaky	Lustrous grn. leaves
707	<i>Crataegus intricata</i> —B	Thicket Hawthorn	20	15	General	Round	Slow	Medium	None	Dull red	Flaky	Glossy foliage
708	<i>Crataegus oxyacantha</i> —HDB	English Hawthorn	20	12	General	Oval	Slow	Fine	Green	Scarlet	Flaky	Wh. flower clusters
709	<i>Crataegus phaenopyrum</i> *—B	Washington Hawthorn	20	15	General	Oval	Slow	Medium	Red-orange	Br't red	Flaky	Wh. flower clusters
710	<i>Magnolia soulangeana</i> —S	Saucer Magnolia	20	15-20	Well drained	Round	Slow	Coarse	None	Pod	Smooth gr.	Large white-pink flowers



## Deciduous Trees—Continued

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adaptation	Shape	Growth Rate	Foliage Texture	Foliage Fall Color	Fruit	Bark and Twigs	Distinguishing Characteristics
<b>VERY SMALL—UNDER 30 FEET—Continued</b>												
711	<i>Magnolia stellata</i> —S	Star Magnolia	15	6–8	Well drained	Oval	Slow	Medium	Yellow	Pod	Smooth gr.	White fragrant flowers
712	<i>Malus arnoldiana</i> —BF	Arnold Crabapple	20–25	10–15	General	½-round	Medium	Medium	None	Yel., red	Apple bk.	Red buds, wh. flrs.
713	<i>Malus astrosanguinea</i> —*HB	Carmine Crabapple	15–20	15	General	½-round	Medium	Medium	None	Dark red	Apple bk.	Rose madder flowers
714	<i>Malus floribunda</i> —SBF	Japanese Flowering Crab	20	12	Rich	Oval	Medium	Medium	None	Yel., red	Apple bk.	Buds red, wh. flowers
715	<i>Malus ioensis</i> —NDBF	Prairie Crabapple	25	15	General	Oval	Slow	Medium	None	Green	Apple bk.	Shell pink flowers
715a	<i>Malus ionsis plena</i> —DBF	Bechtel Crabapple	15	10	Rich	Oval	Medium	Medium	None	Green	Apple bk.	Double pink flowers
716	<i>Malus purpurea</i> —*B	Purple Crabapple	20	15	General	Oval	Medium	Medium	Purplish	Purp.-red	Apple bk.	Purplish red flowers
716a	<i>Malus purpurea aldenhamensis</i> —B	Aldenhams Purple Crabapple	25	20	General	Round	Medium	Medium	Red-green	Purp.-red	Apple bk.	Semi-double purplish flowers
716b	<i>Malus purpurea eleyi</i> —B	Eley Purple Crabapple	15–20	15	General	Round	Medium	Medium	Purplish	Purp.-red	Apple bk.	Lt. purplish flowers
717	<i>Malus sargentii</i> —FB	Sargent Crabapple	6–8	10–15	General	Flat, oval	Medium	Medium	None	Dark-red	Apple bk.	Pure white flowers
718a	<i>Malus zumi</i> var.—FB	Bobwhite Crabapple	15–20	15	General	Round	Medium	Medium	None	Yellow	Apple bk.	Red buds, wh. flowers
718b	<i>Malus zumi</i> var.—FB	Calocarpa (Redbud) Crab	10–12	10	General	½-round	Medium	Medium	None	Br't red	Apple bk.	Pink buds, wh. flowers
719	<i>Malus</i> var.—BR	Echtermeyer Crabapple	15	10	General	½-weeping	Medium	Medium	Bronze-grn.	Reddish	Apple bk.	Purplish flowers
720	<i>Malus</i> var.—B	Flame Crabapple	25	15–20	General	Round	Medium	Medium	None	Br't red	Apple bk.	Pink buds, wh. flowers
721	<i>Malus</i> var.—BJR	Redflesh Crabapple	25	15–20	General	½-round	Medium	Medium	Bronze-grn.	Red	Apple bk.	Spirea red flowers
722	<i>Malus</i> var.—*BFJ	Hopa Crabapple	25–30	20–25	General	½-round	Medium	Medium	None	Or., red	Apple bk.	China rose flowers
723	<i>Malus</i> var.—BJR	Red Silver Crabapple	25–30	20	General	½-round	Medium	Medium	Red-green	Pur.-bl. red	Apple bk.	China rose flowers
724	<i>Prunus americana</i> —NJ	American (Wild) Plum	15	10	General	½-round	Quick	Medium	Yel. to red	Yel.-red	Rgh., dk.	Suckers
724a	<i>Prunus americana</i> var.—R	Newport (Purpleleaf) Plum	15	10	General	½-round	Quick	Medium	Blue-red	Dark red	Rgh., dk.	Pinkish flowers, early
725	<i>Salix caprea</i> —H	Goat (Pussy) Willow	20	10	Moist	Upright	Quick	Medium	None	Catkin	Greenish	"Pussies" in spring
726	<i>Salix discolor</i> —N	Pussy Willow	20	12	Wet	Upright	Quick	Medium	None	Catkin	Greenish	"Pussies" in spring
727	<i>Salix pentandra</i> —H	Laurel Willow	20–25	18	Wet	Oval	Quick	Coarse	None	Catkin	Shiny brn. twigs	Lustrous grn. leaves
728	<i>Syringa amurensis japonica</i> —*	Japanese Tree Lilac	15	10	General	Round oval	Medium	Coarse	None	Brown seeds	Cherry	Large, white flower clusters
729	<i>Syringa pekinensis</i>	Pekin Lilac	25	15	General	Oval	Medium	Medium	None	Brn. seeds	Cherry	Cream flowers

## SHRUBS

### Evergreen Shrubs

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adaptation	Shape	Growth Rate	Foliage Texture	Foliage Color	Fruit	Distinguishing Characteristics
<b>LARGE—5-10 FEET</b>											
250	<i>Juniperus chinensis maneyi</i> —B	Maney Juniper	4–5	4–6	Dry, sun	Uprt., sprdg.	Medium	Fine	Blue-green	Gr.-wh. berry	Upright, dense
251	<i>Juniperus chinensis pfitzeriana</i> —*B	Pfitzer Juniper	4–5	8–12	General	Flat, sprdg.	Quick	Fine	Green	Gr.-wh. berry	Plume-like growth
252	<i>Juniperus sabina</i> var.—B	Vonehron Savin Juniper	6–8	6–8	General	Uprt., sprdg.	Quick	Fine	Bright green	Bluish	Loose, open apprnce.
253	<i>Juniperus squamata meyeri</i> —B	Meyer Singleseed Juniper	6	2–3	General	Irregular	Slow	Medium	Silvery blue	None	Shape and color
254	<i>Pinus mugo mughus</i>	Mugho Pine	8–15	8–10	General	Round	Slow	Medium	Green	Cone	Round, sprdg. shape
255	<i>Taxus cuspidata</i> var.	Spreading Japanese Yew	10	10–15	Shade, moist	Round	Slow	Medium	Dark green	Red berries	Darkest, grn. foliage
256	<i>Taxus media hicksi</i>	Hicks Anglojap Yew	6–8	2–3	Shade, moist	Columnar	Medium	Medium	Dark green	Red berries	Darkest, grn. foliage
257	<i>Thuja occidentalis robusta</i> —B	Ware Arborvitae	6–8	5	Moist	Conical	Slow	Medium	Green	Cone	Fron-like foliage

D—Frequently affected by disease, insects or other growth inhibitors.

B—Fruits and seeds especially valuable for food for birds.

F—Flowers fragrant.

\*—Hardy plant and one generally recommended for home grounds use where a plant of this size and type is desired.

C—Comparatively short-lived.

H—Hardiness doubtful in colder and drier sections of Iowa.

R—Foliage colored throughout growing season.

J—Fruits used to make jams and jellies.

N—Native (grows wild) in some sections of Iowa.

S—Southern Iowa only.

E—Does best in northeast Iowa.



### Evergreen Shrubs—Continued

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adaptation	Shape	Growth Rate	Texture	Foliage Color	Fruit	Distinguishing Characteristics
<b>SMALL—UNDER 5 FEET</b>											
260	<i>Juniperus horizontalis</i> Admirabilis—B	Prostrate Juniper	1½–2½	4–6	Dry, sun	Flat	Quick	Fine	Silver green	Blueberry	Horizontal habit
261	<i>Juniperus chinensis</i> pfitzeriana compacta—B	Compact Pfitzer Juniper	3–4	5–6	Dry, sun	Flat, spreading	Medium	Fine	Green	Gr.-wh. berry	Plume-like growth
262	<i>Juniperus chinensis</i> sargentii—B	Sargent Juniper	2	5–6	Dry, sun	Prostrate	Medium	Fine	Gr. or silv. bl.	Gr.-wh. berry	Formal mound
263	<i>Juniperus communis</i> depressa—B	Oldfield Juniper	4	4–6	Dry, sun	Spreading	Medium	Fine	Green	Bluish berries	Brownish color in winter
264	<i>Juniperus</i> (glauca hetzi)—B	Hetz Juniper (Blue Pfitzer)	4–5	6–8	Dry, sun	Flat, spreading	Medium	Fine	Silvery	Whitish berries	Plume-like growth
265	<i>Juniperus horizontalis</i> plumosa—*B	Andorra Creeping Juniper	1–1½	4–5	General	Upright, spreading	Quick	Fine	Silver green	Blue berry	Purple in winter
266	<i>Juniperus horizontalis</i> douglasii—B	Waukegan Creeping Juniper	½	4–5	Dry, sun	Flat	Medium	Fine	Greyish blue	Blue berry	Low, trailing form
267	<i>Juniperus procumbens</i> —*B	Japgarden Juniper	1–2	5	General	Flat	Quick	Medium	Bluish green	None	Spiny-pointed foliage
268	<i>Juniperus sabina</i> —B	Savin Juniper	4	4	Dry, sun	Spreading	Medium	Fine	Green	Dk. purp. ber.	Upright, vase shape
269	<i>Juniperus virginiana</i> kosteri—B	Koster Redcedar	3	6	Dry, sun	Flat, sprdg.	Quick	Fine	Bright green	Blue berries	Like Pfitzer Juniper
270	<i>Taxus cuspidata</i> nana—*	Dwarf Japanese Yew	3–4	4–5	Shade, moist	Round	Slow	Medium	Dark green	Red berry	Compact, refined
271	<i>Taxus media</i> browni	Browns Anglojap Yew	4–5	4–5	Shade, moist	Round	Medium	Medium	Dark green	Red berry	Upright branching
272	<i>Thuja occidentalis</i> globosa—B	Globe Arborvitae	5	5	Moist	Round	Medium	Medium	Bright green	Cone	Round, compact form

### Deciduous Shrubs

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adaptation	Habit	Foliage Texture	Foliage Fall Color	Fruit	Twigs	Flowers Color	Season
<b>VERY LARGE—12 FEET AND OVER</b>												
400	<i>Caraganea arborescens</i>	Siberian Peashrub	12–15	8	Dry	Upright	Fine	None	Pod	Green	Yellow	May
401	<i>Chionanthus virginicus</i>	White Fringetree	15	6	Moist	Upright	Coarse	Yellow	Dark blue	Grey	Fleecy white	May–June
402	<i>Cotinus coggygria</i> —S	Common Smoketree	10–15	6	General	Oval	Coarse	Yellow to orange	Inconspicuous	Brown	“Smoke” (flowerstems)	Mid-summer
403	<i>Euonymus atropurpureus</i> —N	Eastern Wahoo	15	8	Moist	Upright	Medium	Red	Red, yellow	Green	Inconspicuous	
404	<i>Lonicera bella</i> albida—BFG	Wh. Belle Honeysuckle	12	10	General	Round	Medium	None	Red berries	Grey	White	Late May
405	<i>Rhus typhina</i> —NB	Staghorn Sumac	20	12	Dry	Irregular	Coarse	Red, yellow	Scarlet	Brown	Greenish	Late June
405a	<i>Rhus typhina</i> lanciniata—B	Cutleaf Staghorn Sumac	15	12	Dry	Irregular	Coarse	Red, yellow	Scarlet	Brown	Greenish	Late June
406	<i>Staphylea trifolia</i> —N	American Bladdernut	12	8	Sh., moist	Upright	Medium	None	Green pod	Grey	White	May
407	<i>Syringa oblata</i> dilatata	Korean Early Lilac	12	8	General	Upright	Coarse	Dull red	Brn. seeds	Drab	Lilac	Early May
408	<i>Syringa vulgaris</i>	Common Lilac	15	10	General	Upright	Coarse	None	Brn. seeds	Drab	Lilac	Mid-May
409	<i>Tamarix</i> (species)	Tamarisk	10–15	8	Dry, sun	Irregular	Very fine	None	None	Brown	Fluffy pink	June–July
410	<i>Viburnum lantana</i> —*N	Wayfaringtree Viburnum	15	8	Sun, sh.	Upright	Coarse	Dull red	Red to blk.	Dark	White	May
411	<i>Viburnum lentago</i> —NB	Nannyberry Viburnum	12	6	General	Upright	Coarse	Purp.-red	Black	Dark	White	Late May
412	<i>Viburnum prunifolium</i> —*B	Blackhaw Viburnum	20	10	Sun, sh.	Spreading	Medium	Shining red	Blue-black	Dark	White	Late May
413	<i>Viburnum sieboldi</i>	Siebold Viburnum	20	10	General	Rounded	Coarse	Red	Red to blk.	Dark	Creamy white	Late May
<b>LARGE—8-12 FEET</b>												
420	<i>Amorpha fruticosa</i> —N	Indigobush Amorpha	8–10	8	Poor soil	Round	Fine	None	Pods	Greenish	Purple	May–June
421	<i>Aronia arbutifolia</i>	Red Chokeberry	8	5	General	Spreading	Medium	Red	Red berries	Dark	White	Late May
422	<i>Cornus alba</i> sibirica—DB	Siberian Dogwood	8	6	Moist	Spreading	Coarse	Red	White ber.	Coral red	White	Early June
423	<i>Cornus racemosa</i> —NDB	Gray Dogwood	8	5	General	Upright	Medium	Purplish	White ber.	Grey	White	June
424	<i>Cornus sanguinea</i> —DB	Bloodtwig Dogwood	10	6	Moist	Spreading	Medium	Dull red	Black ber.	Dull red	White	Late June
425	<i>Cornus stolonifera</i> flaviramea—DB	Yellowtwig Dogwood	8	5	Moist	Spreading	Coarse	None	Dull white	Brilliant yellow	White	May–June
426	<i>Cotoneaster acutifolia</i> —DB	Peking Cotoneaster	8	6	General	Spreading	Fine	None	Black ber.	Dull brown	Pink	Early June
427	<i>Euonymus alatus</i> —*	Winged Euonymus	8	10	General	Stiff, sprdg.	Medium	Scarlet	Scarlet	Corky	Inconspicuous	



# Deciduous Shrubs—Continued

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adaptation	Habit	Texture	Foliage Fall Color	Fruit	Twigs	Color	Flowers Season
<b>LARGE—8-12 FEET—Continued</b>												
428	<i>Forsythia intermedia</i> —H	Border Forsythia	8	6	General	Spreading	Medium	None	Capsule	Dull yellow	Yellow	April
428a	<i>Forsythia intermedia spectabilis</i> —H	Showy Border Forsythia	8	8	General	Spreading	Medium	None	Capsule	Dull yellow	Deep yellow	April
429	<i>Forsythia ovata</i>	Early Forsythia	8	6	General	Spreading	Medium	None	Capsule	Buff	Yellow	April
430	<i>Forsythia suspensa fortunei</i> —H	Fortune Weeping Forsythia	10	8	General	Upright	Medium	None	Capsule	Tan	Bright yellow	April
431	<i>Forsythia</i> var.—H	"Spring Glory"	8	8	General	Upright	Medium	None	Capsule	Tan	Pale yellow	April
432	<i>Hamamelis virginiana</i> —N	Common Witchhazel	10-12	8	Shade	Loose	Coarse	Yellow	Capsule	Grey	Yellow	Oct.-Nov.
433	<i>Hibiscus syriacus</i> —S	Shrubalthea	8-10	5	General	Stiff, uprt.	Medium	None	Brown	Grey	White to blue	Aug.-Sept.
434	<i>Ligustrum amurense</i>	Amur Privet	10	6	General	Stiff, uprt.	Fine	None	Black ber.	Grey	White	June
435	<i>Ligustrum vulgare</i>	European Privet	10	8	General	Spreading	Fine	None	Black ber.	Grey	White	June
436	<i>Lonicera tatarica</i> —*BF	Tatarian Honeysuckle	10-12	8	General	Upright	Medium	None	Red, yel. ber.	Light grey	White to red	Late May
437	<i>Lonicera (zabeli)</i> —FB	Zabel Honeysuckle	8-10	6	General	Upright	Medium	None	Red berries	Grey	Red	Late May
438	<i>Philadelphus coronarius</i> —F	Sweet Mockorange (Syringa)	10-12	6	Sh., sun	Stiff, uprt.	Medium	None	Tan seed pods	Chestnut	White	June
439	<i>Philadelphus</i> var.—F	"Minnesota Snowflake"	8	6	Sun	Upright	Medium	None	None	Grey	Double white	June
440	<i>Physocarpus opulifolius</i> —N	Common Ninebark	8	8	Sun, sh.	Spreading	Medium	Yellowish	Capsules	Flaking	White	June
440a	<i>Physocarpus opulifolius luteus</i>	Goldenleaf Ninebark	8	6	Sun, sh.	Spreading	Medium	Yellowish	Capsules	Flaking	White	June
441	<i>Prunus triloba (plena)</i> —*	Doubleflowering Plum	10	8	General	Round	Medium	None	None	Rich brown	Double pink	April
442	<i>Ptelea trifoliata</i> —N	Common Hoptree	10	8	Dry	Round	Medium	None	Disc wafer	Grey	Inconspicuous	
443	<i>Rhus glabra</i> —NB	Smooth Sumac	8-10	4-5	Dry	Upright	Coarse	Bright red	Scarlet	Brown	Greenish	Late June
444	<i>Rhus copallina</i> —B	Flameleaf Sumac	8-10	6-8	Dry	Loose	Medium	Bright red	Red	Brown	Greenish	July
445	<i>Sambucus canadensis</i> —NB, J	American Elder	8	6	Moist	Open	Coarse	None	Black ber.	Tan	White	Early June
446	<i>Spiraea vanhouttei</i> —*	Vanhoutte Spirea (Bridalwreath)	8-10	8	General	Recurving	Fine	Orange to red	Flower heads	Reddish-brown	White	Early May
447	<i>Syringa chinensis (rothomagensis)</i> —*	Chinese Lilac	10-12	8	General	Upright	Medium	None	Capsule	Dark grey	Reddish-lilac	Mid-May
448a	<i>Syringa josiflexa</i> var.—F	Lilac—"Enid"	8-10	6	General	Upright	Coarse	None	Capsule	Drab	Pink	Early May
448b	<i>Syringa josiflexa</i> var.—F	Lilac—"Guinevere"	7-8	6	General	Upright	Medium	None	Capsule	Drab	Lilac	Early May
449	<i>Syringa persica</i> —*	Persian Lilac	8-10	7	Dry	Upright	Medium	None	Capsule	Drab	Pale lilac	Late May
450	<i>Syringa prestoniae</i> var.—F	Lilac—"Olivia"	8-10	7	General	Rounded	Medium	None	Capsule	Drab	Purple lilac	May
451	<i>Syringa villosa</i>	Late Lilac	8-10	7	General	Upright	Coarse	None	Capsule	Drab	Pinkish white	June
452	<i>Syringa vulgaris</i> var.	French Hybrid Lilacs	8-12	6-8	General	Upright	Coarse	None	Capsule	Dark	Various	May-June
<b>Single French Hybrid Lilacs</b>												
452a	Ambassadeur	Azure blue										
452b	Charles X	Bluish red										
452c	Congo	Wine-red										
452d	Etna	Claret-purple										
452e	Ludwig Spaeth	Red-purple										
452f	Macrostachya	Pink, white										
452g	Marechal Foch	Magenta										
452h	Marie Legraye	Creamy-white										
452i	Marie Finon	White										
452j	Monge	Deep red										
452k	President Lincoln	Wedgewood blue										
452l	Vestale	White										
<b>Double French Hybrid Lilacs</b>												
452m	Belle de Nancy	Satiny rose										
452n	Charles Joly	Purple-red										
452o	Edith Cavell	Pure white										
452p	General Pershing	Purplish-violet										
452q	Katherine Havemeyer	Mauve pink										
452r	Leon Gambetta	Lilac										
452s	Mme. Lemoine	White										
452t	Mme. Casimir Perier	White										
452u	Michael Buchner	Lilac shades										
452v	Miss Ellen Willmott	Creamy-white										
452w	President Falliers	Orchid shades										
452x	President Grevy	Light blue										
452y	Victor Lemoine	Bluish-pink										
452z	Violetta	Violet-red										
453	<i>Viburnum opulus</i> —D	European (High-bush) Cranberry	10	6-8	Shade	Spreading	Coarse	Red	Red	Light tan	White	Early June
453a	<i>Viburnum opulus (sterile)</i> —D	Common Snowball	10	6-8	Sun	Spreading	Coarse	Red	None	Light tan	White	May-June
454	<i>Zanthoxylum americanum</i> —N	Common Pricklyash	10	8	Shade	Open, suckers	Medium	None	Red berries	Dark thorny	Inconspicuous	

G—Good plant for clipped hedge.

D—Frequently affected by disease, insects or other growth inhibitors.

B—Fruits and seeds especially valuable for food for birds.

\*—Hardy plant and one generally recommended for home grounds use where a plant of this size and type is desired.

H—Hardiness doubtful in colder and drier sections of Iowa.

N—Native (grows wild) in some sections of Iowa.

S—Southern Iowa only.

F—Flowers fragrant.

J—Fruits used to make jams and jellies.



# Deciduous Shrubs—Continued

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adapta- tion	Habit	Foliage Texture	Fall Color	Fruit	Twigs	Color	Flowers Season
<b>MEDIUM—6-8 FEET</b>												
460	<i>Acanthopanax sieboldianus</i>	(Fiveleaf Aralia)	5-10	5	General	Spreading	Medium	None	None	Tan, thorny		Inconspicuous
461	<i>Amelanchier alnifolia</i> —HBJ	Saskatoon Serviceberry	6-8	6	Shade	Upright	Medium	Red	Blue berries	Silver grey	White	Early May
462	<i>Caragana frutex</i>	Russian Peashrub	6-8	6	General	Sukrs., uprt.	Fine	None	Pod	Greenish	Yellow	May
463	<i>Cornus amomum</i> —NB	Silky Dogwood	6-8	6-8	Moist	Spreading	Coarse	Red	Blue berries	Dull, red.	White	Early June
464	<i>Cornus stolonifera</i> —B	Redosier Dogwood	6	6	General	Spreading	Coarse	Reddish	Dull, wh.	Brilliant red	White	June
465	<i>Corylus americana</i> —N	Am. Filbert (Hazelnut)	6-10	6	Dry	Upright	Coarse	Dull red, yel.	Nut	Brown	(Catkins)	March
466	<i>Cotoneaster multiflora calocarpa</i> —HB	Manyflowered Cotoneaster	6-8	6-8	General	Spreading	Fine	None	Red berry	Brown	White	May
467	<i>Forsythia suspensa</i> —H	Weeping Forsythia	6	5	General	Drooping	Fine	None	Capsule	Buff	Yellow	April
468	<i>Hydrangea paniculata (grandiflora)</i>	Peegee Hydrangea	6-8	5	Dry	Stiff	Coarse	None	Flower-heads	Buff-grey	White	August
469	<i>Ilex verticillata</i> —Z	Common Winterberry	6	8	Acid	Spreading	Medium	Yellow	Bright red	Green-grey		Inconspicuous
470	<i>Kolkwitzia amabilis</i> —H	Beautybush	8	6	General	Upright	Medium	None	Brn. seeds	Grey, peel.	Pink	May-June
471	<i>Ligustrum obtusifolium regelianum</i> —*H	Regels Border Privet	6	6	General	Horizontal	Medium	Purplish	Black	Grey	White	June
472	<i>Lonicera morrowi</i> —*BF	Morrow Honeysuckle	8	8	General	Spreading	Fine	None	Red, yellow	Grey	Cream	May
473	<i>Philadelphus lemoinei</i> var.—F	Innocence Mockorange	6	4	General	Upright	Medium	None	Br. sd. pods	Grey	White	June
474	<i>Philadelphus virginialis</i> var.—F	Virginal Mockorange	6-8	4	Sun	Leggy	Medium	None	Seed pod	Grey	Double, white	June
475	<i>Prunus cistena</i> —BFR	Purpleleaf Sandcherry	6	6	Sun	Oval	Medium	Purple	Dk. purple	Dark	White	May
476	<i>Prunus maritima</i> —F	Beach Plum	6-8	6	General	Spreading	Medium	None	Dull purple	Dark	White	May
477	<i>Prunus tomentosa</i> —BF	Manchu Cherry	8	8	Dry	Spreading	Medium	None	Scarlet	Dark	White	Late April
478	<i>Rhus aromatica</i> —DHB	Fragrant Sumac	6	5	General	Loose	Medium	Yel., scarlet	Red	Brownish	Yellowish	April
479	<i>Ribes odoratum</i> —BF	Clove (Fragrant) Currant	6-7	5	Shade	Loose	Medium	Dull red	Black	Tan	Yellow	Early May
480	<i>Rosa harisoni</i> —F	Harison Yellow Rose	6	4	General	Suckering	Fine	None	Black	Thorny	Double, yellow	June
481	<i>Rosa hugonis</i> —F	Father Hugo Rose	6	6	Sun	Upright	Fine	None	Dark red	Thorny	Single, yellow	May-June
482	<i>Rosa primula</i> —F	Primrose Rose	8	6	Sun	Upright	Fine	None	Red	Thorny	Light yellow	Late May
483	<i>Rosa rubrifolia</i> —FR	Redleaf Rose	6	4	General	Spreading	Medium	Bluish and red-green	Bright red	Purplish	Rose	June
484	<i>Rosa setigera</i> —F	Prairie Rose	6	8	Sun	Spreading	Medium	Reddish	Red	Thorny	Pink	July
485	<i>Spiraea prunifolia plena</i> —*H	Double Bridalwreath Spirea	6	6	Sun	Upright	Fine	Red to orange	None	Burnished gold	Double, white	May
486	<i>Syringa potanini</i>	Potanin Lilac	6	4	General	Upright	Medium	None	Seed cap.	Dull	Pink	May
487a	<i>Syringa vulgaris</i> var.—*D	Lilac—Capitaine Baltet	6-8	4	General	Upright	Coarse	None	Seed cap.	Dull	Single, pur. lilac	May
487b	<i>Syringa vulgaris</i> var.—*D	Lilac—DeCroncels	6-8	4	General	Upright	Coarse	None	Seed cap.	Dull	Single, magenta	May
487c	<i>Syringa vulgaris</i> var.—*D	Lilac—Lucie Baltet	6-8	6	General	Upright	Medium	None	None	Dull	Sing., flesh pink	May
487d	<i>Syringa vulgaris</i> var.—*D	Lilac—President Harding	6-8	6	General	Rounded	Medium	None	Seed cap.	Dull	Single, reddish	May
487e	<i>Syringa vulgaris</i> var.—*D	Lilac—Rochambeau	6-8	6	General	Upright	Medium	None	Seed cap.	Dull	Single, pur.-lilac	May
488	<i>Viburnum dentatum</i> —*B	Arrowwood Viburnum	6-8	6	Sun, sh.	Stiff, uprt.	Medium	Glossy red	Blue berries	Dull	White	June
489	<i>Viburnum pubescens canbyi</i>	Canby Downy Viburnum	8	5	Sun, sh.	Upright	Medium	Purplish-red	Blue berries	Dull	White	June



# Deciduous Shrubs—Continued

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adapta- tion	Habit	Texture	Foliage Fall Color	Fruit	Twigs	Color	Flowers Season
<b>SMALL—4-6 FEET</b>												
500	<i>Berberis mentorensis</i>	Mentor Barberry	4-5	4	Hot, dry	Upright	Fine	Deep reds	Dull red	½-evergrn.	Yellow	Late May
501	<i>Berberis thunbergi</i> —*	Japanese Barberry	4-5	4	Sun, part shade	Compact	Fine	Bright scarlet	Bright red	Mahogany	Yellow	Late May
501a	<i>Berberis thunbergi atropurpurea</i> —*R	Redleaf Japanese Barberry	4-5	5	Sun	Compact	Fine	Mahogany red	Bright red	Thorny mahogany	Yellow	Late May
502	<i>Calycanthus floridus</i> —F	Common Sweetshrub	4-6	4	Sun, sh.	Straggly	Coarse	None	Pod	Flattened	Reddish-brown	June
503	<i>Cephalanthus occidentalis</i> —N	Common Buttonbush	5-6	6	Moist	Upright	Coarse	None	Sds. in balls	Brown	White	July-Aug.
504	<i>Chaenomeles lagenaria</i> var.—*HJ	Common Flowering-quince	6	5	Rich	Spreading	Medium	None	Quince	Brownish	White, pink, red	April
505	<i>Deutzia lemoinei</i> —S	Lemoine Deutzia	4	3	Sun	Upright	Medium	None	Capsule	Light grey	White	June
506	<i>Euonymus alatus</i> (compactus)	Dwarf Winged Euonymus	6	4	General	Compact	Medium	Red	Red	Winged	Inconspicuous	
507	<i>Hydrangea arborescens grandiflora</i>	Snowhill Hydrangea	4	4	Shade	Stiff	Coarse	None	Flowerheads	Tan	White	July
508	<i>Lonicera fragrantissima</i> —SBF	Winter Honeysuckle	6	6	General	Loose	Medium	None	Red berries	Tan	Cream	April
509	<i>Lonicera standishi</i> —SBF	Standish Honeysuckle	4-6	4	General	Loose	Medium	None	Red berries	Grey	Cream	April
510	<i>Philadelphus lemoinei</i> —*F	Lemoine Mockorange	5	4	Sun	Stiff	Medium	None	Capsule	Buff	White	June
511	<i>Philadelphus virginialis</i> var.—F	Bouquet Blanc Mockorange	5	4	Sun	Arching	Medium	None	Capsule	Grey	White	June
512	<i>Prunus glandulosa flora plena</i>	Double Almond Cherry (Flowering Almond)	4	3	Sun	Upright	Medium	None	None	Dark	Pink, white	May
513	<i>Rhododendron molle</i> —S	Chinese Azalea	4-5	3	No lime, shade	Compact	Medium	None	None	Brown	Orange shades	May
514	<i>Rhododendron yedoensis</i> —S	Yodogawa Azalea	4-5	3	No lime, shade	Compact	Fine	Purplish	None	Brown	Purple	May
515	<i>Rhodotypos scandens</i> —H	Black Jetbead	5	4	Shade	Spreading	Medium	None	Black ber.	Grey	White	May
516	<i>Ribes alpinum</i> —*	Alpine Currant	4	3	General	Compact	Fine	None	Scarlet	Grey	Inconspicuous	
517	<i>Ribes cynosbati inerme</i> —B	Smooth Pasture (Wild) Gooseberry	4	4	General	Round	Fine	Red	Purple	Grey	Inconspicuous	
518	<i>Rosa blanda</i> —HF	Meadow Rose	3-5	3	Sun	Suckering	Fine	Red	Red	Red	Pink	Early June
519	<i>Rosa virginiana</i> —HF	Virginia Rose	4	4	Sun	Suckering	Fine	Red	Red	Red	Pink	June
520a	<i>Rosa rugosa</i> var.—F	Rugosa Rose—Agnes	5	4	General	Spreading	Medium	Yel. to red	Brick red	Brown	Pale yellow	June
520b	<i>Rosa rugosa</i> var.—F	Rugosa Rose—Hansa	5	4	General	Spreading	Medium	Yel. to red	Brick red	Brown	Rose	June
520c	<i>Rosa rugosa</i> var.—F	Rugosa Rose—Grootendorst	5	4	General	Spreading	Medium	Yel. to red	Brick red	Brown	Pink and red	All sum.
521	<i>Sorbaria sorbifolia</i>	Ural Falsespirea	4	3-4	Shade	Suckering	Fine	None	None	Tan	White	July
522	<i>Spiraea arguta</i> —*	Garland Spirea	4-6	4	General	Spreading	Very fine	Yellow	None	Mahogany	White	April-May
523	<i>Spiraea billiardi</i>	Billiard Spirea	4-6	3	General	Loose, uprt.	Fine	None	None	Brown	Pink spikes	July-Aug.
524a	<i>Syringa vulgaris</i> var.	Lilac—Grand-Duc Constantin	4-6	4	General	Upright	Coarse	None	None	Dull	Dbl. blu.-lilac	May
524b	<i>Syringa vulgaris nana</i>	Dwarf Common Lilac	5-6	4	General	Upright	Coarse	None	None	Dull	Sing., blu.-lilac	May
524c	<i>Syringa vulgaris</i> var.	Lilac—Triste Barbaro	4-5	3-4	General	Upright	Coarse	None	None	Dull	Violet-purple	May
524d	<i>Syringa vulgaris</i> var.	Lilac—True Blue	4-6	4	General	Upright	Medium	None	None	Dull	Blue	May
525a	<i>Weigela</i> var.—H	Bristol Ruby Weigela	4-6	5	General	Spreading	Medium	None	Brown	Grey	Red	June
525b	<i>Weigela</i> var.—H	Eva Rathke Weigela	4-6	6	General	Spreading	Medium	None	Brown	Grey	Crimson	June

\*—Hardy plant and one generally recommended for home grounds use where a plant of this size and type is desired.  
D—Frequently affected by disease, insects or other growth inhibitors.  
B—Fruits and seeds especially valuable for food for birds.  
R—Foliage colored throughout growing season.  
Z—Evergreen.

F—Flowers fragrant.  
N—Native (grows wild) in some sections of Iowa.  
H—Hardiness doubtful in colder and drier sections of Iowa.  
J—Fruits used to make jams and jellies.  
S—Southern Iowa only.



# Deciduous Shrubs—Continued

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adapta- tion	Habit	Foliage			Flowers		
							Texture	Fall Color	Fruit	Twigs	Color	Season
VERY SMALL—UNDER 4 FEET												
530	Berberis thunbergi (erecta)	Truehedge Columnberry	4	2–3	General	Vertical	Fine	Red	Bright red	Mahogany	Yellow	Late May
531	Cotoneaster divaricata	Spreading Cotoneaster	3	3	General	Airy, sprdg.	Fine	Dull red	Shiny, red	Brownish	Pink	June
532	Chaenomeles japonica—*HJ	Dwarf Floweringquince	3	3	Sun	Spreading	Medium	None	Yel. quince	Grey-green	Shades of red	May
533	Deutzia gracilis—S	Slender Deutzia	3	3	Sun	Upright	Fine	None	None	Yel.-grey	White	May
534	Hypericum prolificum—HB	Golden St. Johnswort	3	3	General	Stiff	Fine	None	Seed pods	Shiny brn.	Yellow	July-Aug.
535	Hypericum kalmianum—HB	Kalm St. Johnswort	3	3	General	Straggly	Fine	None	Seed pods	Shiny brn.	Bright yellow	Early July
536	Kerria japonica (pleniflora)—S	Double Japanese Kerria	3	3	General	Bushy	Medium	None	None	Green	Yellow	Mid-May
537	Lonicera tatarica nana—BF	Low Tatarian Honeysuckle	3	3	General	Round	Medium	None	Red	Grey	Pink	May
538	Philadelphus coronarius (nanus)—F	Dwarf Sweet Mockorange	4	3	Sun	Compact	Medium	Yellowish	Seed pods	Brown	White	June
539	Philadelphus lemoinei var.—F	Mont Blanc Mockorange	4	3	General	Arching	Medium	None	Seed pods	Grey	White	June
540	Physocarpus monogynus—*	Mountain Ninebark	4	3	Sh., sun	Spreading	Medium	None	Seed pods	Brown	Fuzzy white	Late May
541	Potentilla fruticosa—H	Bush Cinquefoil	3	3	General	Bushy	Fine	None	Seed pods	Brown	Yellow	Summer
542	Prunus pumila (hybrid)—BJ	Hansen's Bush Cherry	3	3	General	Suckering	Medium	Yel. to red	Purp. black	Grey	White	Early May
543	Rosa nitida—HF	Shining Rose	3	3	Dry	Loose	Fine	Red	Red	Thorny, red	Pink	June
544	Rosa spinosissima—*F	Scotch Rose	3–4	3–4	Sun	Compact	Fine	None	Black	Brown	Pink, cream	June
545a	Rosa (polyantha) var.	Floribunda Rose in var.	2–3	1–2	Sun	Upright	Medium	None	Red	Green	Lge. wh. to red	To frost
545b	Rosa (polyantha) var.	Polyantha Rose in var.	1–2	1–2	Sun	Upright	Medium	None	Red	Green	Sm. wh. to red	To frost
546a	Spiraea bumalda var.—H	Anthony Waterer Spirea	3	3	Sun	Stiff, bushy	Medium	Reddish	Flowerhead	Red.-brown	Magenta	Summer
546b	Spiraea bumalda (froebeli)—*	Froebel Spirea	3	3	Sun	Spreading	Medium	Reddish	Flowerhead	Red.-brown	Magenta	June
547	Spiraea japonica ovalifolia	Ovalleaf Japanese Spirea	2	2	Sun	Compact	Fine	None	Flowerhead	Red.-brown	White	Summer
548	Spiraea superba	Striped Spirea	3	3	General	Upright	Medium	None	Flowerhead	Red.-brown	Light pink	Summer
549	Spiraea thunbergi—H	Thunberg Spirea	4	4	General	Recurving	Feathery	Yel. to or.	None	Buff	White	Early May
550	Symphoricarpos albus—*DB	Common Snowberry	4	4	Shade	Spreading	Fine	None	White	Grey	Pinkish	June
551	Symphoricarpos chenaulti—B	Chenault Coralberry	3–4	4	Sh., sun	Loose	Fine	None	Small, red	Grey	Pinkish	July
552	Symphoricarpos orbiculatus—NB	Indiancurrant, Coralberry (Buckbrush)	3–4	3–4	Shade, sun	Recurving	Fine	None	Purp. red	Grey	Pinkish	June-July
553	Viburnum carlesii—HF	Koreanspice Viburnum	4	3–4	Sun	Open	Coarse	Red. to wine	Black ber.	Grey	Pinkish white	May
554	Viburnum opulus nanum	Dwarf Cranberrybush	2	2	General	Compact	Medium	Reddish	Red berries	Grey, buff	White	May

## VINES

### Woody Vines

Key No.	Botanical Name	Common Name	Normal Height	Climbs	Light	Use	Habit	Growth Rate	Foliage		Fruit	Flowers	
									Texture	Fall Color		Color	Season
600	<i>Akebia quinata</i> —HF	Fiveleaf Akebia	10-15	Twinner	Sun, sh.	Grills	Graceful	Slow	Fine	½-evergrn.	Pur. pods	Dark red	June
601	<i>Aristolochia durior</i> —H	Common Dutchmans-pipe	20-30	Twinner	Shade	Porches, arches	Vigorous	Quick	Very coarse	None	Pod	Purple	June-July
602	<i>Campsis radicans</i> —N	Common Trumpetcreeper (Trumpet Vine)	20-30	Root holdfasts	Sun	Lattice, masonry	Suckers	Quick	Medium	None	Pods	Orange	July-Aug.
603	<i>Campsis tagliabuna</i> var.	Hybrid Trumpetcreeper var. Mme. Galen	20-30	Root holdfasts	Sun	Lattice, masonry	Suckers	Quick	Medium	None	Pods	Large, orange	July-Aug.
604	<i>Celastrus orbiculata</i> —B	Oriental Bittersweet	18-20	Twinner	Sun	Porches, fences	Rambling	Quick	Medium	Yellow	Or., scar.	Inconspicuous	



# VINES

## Woody Vines—Continued

Key No.	Botanical Name	Common Name	Normal Height	Climbs	Light	Use	Habit	Growth Rate	Foliage		Fruit	Flowers	
									Texture	Fall Color		Color	Season
605	<i>Celastrus scandens</i> —*HB	American Bittersweet	20-40	Twiner	Sun	Porches, fences	Rambling	Quick	Medium	Yellow	Or., scar.	Inconspicuous	
606	<i>Clematis jackmani</i> —HD	Jackman Clematis	5-15	Tendrils	Sun	Porch, lattice	Neat	Slow	Medium	None	Plumy	Purple	Summer
606a	<i>Clematis jackmani</i> var.—D	Clematis—Mme. Andre	5-15	Tendrils	Sun	Porch, lattice	Neat	Slow	Medium	None	Plumy	Velvety-red	Summer
607	<i>Clematis lawsoniana henryi</i> —D	Henry Clematis	5-15	Tendrils	Sun	Porch, lattice	Neat	Slow	Medium	None	Plumy	Creamy	Summer
608	<i>Clematis paniculata</i> —*F	Sweetautumn Clematis	15-20	Tendrils	Sun	Porch, lattice	Neat	Medium	Medium	None	Plumy	White	Aug.-Sept.
609	<i>Clematis texensis</i> —H	Scarlet Clematis	5-15	Tendrils	Sun	Porch, lattice	Neat	Medium	Medium	None	Plumy	Bright scarlet	June
610	<i>Clematis virginiana</i> —N	Virgins Bower	15-20	Tendrils	Sun	Porch, lattice	Neat	Quick	Medium	Purple	Plumy	White	June
611a	<i>Euonymus fortunei radicans</i> —HZ	Common Wintercreeper Euonymus	10	Root holdfasts	Shade	General	Neat	Slow	Medium	Evergreen	None	Inconspicuous	
611b	<i>Euonymus fortunei vegetus</i> —*HZ	Bigleaf Wintercreeper Euonymus	10	Root holdfasts	Shade	General	Neat	Slow	Medium	Evergreen	Orange	Inconspicuous	
612	<i>Lonicera heckrottii</i> —HBF	Everblooming Honeysuckle	5	Twiner	Sun	General	Neat	Medium	Medium	None	None	Purple, yel.	Summer
613	<i>Lonicera japonica halliana</i> —HBF	Halls Japanese Honeysuckle	10-15	Twiner	Sun	General	Spreading	Medium	Medium	½-evergrn.	Black	White	June-Sept.
614	<i>Lonicera sempervirens</i> —HD	Trumpet Honeysuckle	12-18	Twiner	Sun, sh.	General	Semi-finish	Medium	Medium	None	Red	Or.-red	June-Sept.
615	<i>Lycium chinense</i>	Chinese Wolfberry (Matrimonyvine)	5-10	Weaver	Sun, sh.	Banks, walls	Rampant	Quick	Medium	None	Red	Purple	June-Sept.
616	<i>Menispermum canadense</i> —N	Common Moonseed	10-15	Twiner	Shade	Thickets	Suckers	Quick	Coarse	None	Black	Inconspicuous	
617	<i>Parthenocissus quinquefolia</i> —NB	Virginia Creeper (Woodbine)	20-40	Tendrils	Sun, sh.	Porch, fence	Loose	Quick	Coarse	Brt. red	Bl.-black	Inconspicuous	
617a	<i>Parthenocissus quinquefolia engelmanni</i> —*B	Engelmann Virginia Creeper	20-40	Pads on tendrils	Sun	Masonry	More compact	Quick	Coarse	Brt. red	Bl.-black	Inconspicuous	
618	<i>Parthenocissus tricuspidata</i> —*HB	Japanese Creeper (Boston Ivy)	10-25	Pads on tendrils	Shade	Masonry	Close, compact	Quick	Medium	Scarlet	Bl.-black	Inconspicuous	
619	<i>Polygonum auberti</i> —S	Silvertine Fleeceflower	15-20	Twiner	Sun	Trellis porch	Thick	Quick	Medium	None	None	White	August
620a	<i>Rosa</i> var.—HF	American Pillar	10-15	Weaver	Sun	Fence	Rambler	Medium	Medium	None	None	Pink, white	June
620b	<i>Rosa</i> var.—HF	Blaze	10-15	Weaver	Sun	Fence	Rambler	Medium	Medium	None	None	Scarlet	June
620c	<i>Rosa</i> var.—HF	Crimson Rambler	10-15	Weaver	Sun	Fence	Rambler	Medium	Medium	None	None	Crimson	June
620d	<i>Rosa</i> var.—HF	Dr. VanFleet	10-15	Weaver	Sun	Fence	Rambler	Medium	Medium	None	None	Pink	June
620e	<i>Rosa</i> var.—HF	Dorothy Perkins	10-15	Weaver	Sun	Fence	Rambler	Medium	Medium	None	None	Shell pink	June
620f	<i>Rosa</i> var.—HF	Excelsa	10-15	Weaver	Sun	Fence	Rambler	Medium	Medium	None	None	Red	June
620g	<i>Rosa</i> var.—HF	Golden Climber	10-15	Weaver	Sun	Fence	Rambler	Medium	Medium	None	None	Yellow	June
620h	<i>Rosa</i> var.—HF	New Dawn	10-15	Weaver	Sun	Fence	Rambler	Medium	Medium	None	None	Pink	June
620i	<i>Rosa</i> var.—HF	Paul's Scarlet Climber	10-15	Weaver	Sun	Fence	Rambler	Medium	Medium	None	None	Scarlet	June
621	<i>Vitis riparia</i> —NBF	River (Wild) Grape	20-30	Tendrils	Sun, sh.	Arbors	Loose	Quick	Medium	Yellow	Dk. purple	Inconspicuous	
622	<i>Wistaria sinensis</i> —HF	Chinese Wisteria	20-30	Twiner	Sun	Porch, arbors	Refined	Slow	Medium	Yellow	Pod	Violet	May

H—Hardiness doubtful in colder and drier sections of Iowa.  
 F—Flowers fragrant.  
 N—Native (grows wild) in some sections of Iowa.  
 B—Fruits and seeds especially valuable for food for birds.  
 J—Fruits used to make jams and jellies.

\*—Hardy plant and one generally recommended for home grounds use where a plant of this size and type is desired.  
 D—Frequently affected by disease, insects or other growth inhibitors.  
 Z—Evergreen.  
 S—Southern Iowa only.



## ANNUAL VINES

Key No.	Botanical Name	Common Name	Normal Height	Adaptation	Use	Habit	Growth Rate	Texture	Fruit	Flowers	
										Color	Season
630	<i>Cardiospermum halicacabum</i>	Balloonvine Heartseed	5-10	Sun	Trellis, fence	Tendrils	Quick	Medium	Infl. pods	Inconspicuous	
631	<i>Cobaea scandens</i>	Purplebell Cobea	10-20	Sun	Trellis, porch	Tendrils	Quick	Medium	Seed pods	Violet	Summer
632	<i>Cucurbita</i> sp.	Gourd	10-15	Wet, dry	Trellis, fence	Tendrils	Quick	Coarse	Wh. gourds	White	June
633	<i>Dolichos lablab</i> —*	Hyacinth Bean	10	Sun	Trellis, wire	Twiner	Quick	Medium	Purple pods	Violet	Summer
634	<i>Humulus japonicus</i>	Japanese Hop	10	General	Rope, string	Twiner	Quick	Coarse	Sm., hop-like	Inconspicuous	
635	<i>Ipomoea</i> (in var.)—*	Morning Glory	15-20	Sun	Trellis, porch	Twiner	Quick	Coarse	Seed pod	Blue to red	Summer
636	<i>Lagenaria siceraria</i>	Calabash Gourd	10-15	Sun	Trellis, porch	Tendrils	Quick	Coarse	Or. gourd	Light	Summer
637	<i>Momordica balsamina</i>	Balsamapple	15-20	Sun	Trellis, porch	Tendrils	Quick	Medium	Or., warty	Inconspicuous	
638	<i>Phaseolus coccineus</i> —*	Scarlet Runner Bean	6-8	Sun	Trellis, fence	Twiner	Quick	Medium	Pods	Scarlet	Summer
639	<i>Quamoclit sloteri</i>	Cardinal Starglory	10-15	Sun, shade	Trellis, wire	Twiner	Quick	Fine	Seeds	Scarlet	Summer

## GROUND COVERS

Key No.	Botanical Name	Common Name	Height in Feet	Adapta- tion	Use	Growth Rate	Foliage Texture	Foliage Color			Fruit	Flowers	
								Winter	Summer	Fall		Color	Season
600	<i>Akebia quinata</i> —F	Fiveleaf Akebia	1	Sun, sh.	Slopes	Slow	Fine	None	Dk. grn.	None	Pur. pods	White	May-June
640	<i>Aegopodium podogaria variegatum</i>	Silveredge Bishop's Goatweed	1-2	Sun	Betw. walk, house	Quick	Medium	None	Varies	None	None	White	June
8	<i>Convallaria majalis</i> —F	Lilyofthevalley	1	Shade	Shady places	Medium	Coarse	None	Green	None	Red berry	White	May
611c	<i>Euonymus fortunei</i> (coloratus)—*S	Purpleleaf Winter-creeper Euonymus	1	Shade	Slopes and carpeting	Slow	Medium	Pur.-red	Green	Pur.-red	None		Inconspicuous
641	<i>Euphorbia cyparissias</i>	Cypress Euphorbia	8"-12"	Sun	Carpeting	Slow	Fine	None	Dk. grn.	None	None		Inconspicuous
613	<i>Lonicera japonica halliana</i> —*HBF	Halls Japanese Honeysuckle	1-2	Sun	Slopes	Medium	Medium	½-evergr.	Dk. grn.	Bronze	Black	White	June-Sept.
615	<i>Lycium chinense</i>	Chinese Wolfberry	3-4	Sun, sh.	Slopes	Quick	Medium	None	Green	None	Red	Purple	June-Sept.
642	<i>Lysimachia nummularia</i> —H	Moneywort (Creeping Charlie)	1"-2"	Sun, ½-shade	Carpeting	Quick	Fine	None	Lt. green	None	None	Yellow	June
616	<i>Menispermum canadense</i> —N	Common Moonseed	1	Dry, sh.	Slopes	Medium	Coarse	None	Green	None	Black		Inconspicuous
617	<i>Parthenocissus quinquefolia</i> —NB	Virginia Creeper (Woodbine)	1	Sun, sh.	Slopes	Quick	Coarse	None	Green	Red	Bl.-black		Inconspicuous
18	<i>Phlox subulata</i>	Moss Phlox	4"-6"	Sun	Carpeting	Slow	Very fine	None	Green	None	None	Pink, white	April
643	<i>Sedum acre</i> —*	Goldmoss Sedum	2"-3"	Dry, sun	Carpeting	Slow	Fine	None	Lt. green	None	Tan	Yellow	June
644	<i>Sedum lydium</i> (glaucum)—*	Lyodium Stonecrop	3"-6"	Sun, dry	Carpeting	Slow	Fine	½-evergr.	Red edged	None	Tan	Pink	Aug.-Sept.
20	<i>Vinca Minor</i> —*	Common Periwinkle	6"-8"	Shade	Carpeting	Medium	Fine	Evergreen	Shiny gr.	None	None	Violet-blue	May
645	<i>Viola</i> sp.—*F	Violet	6"-8"	Sun, ½-shade	Carpeting	Quick	Medium	None	Green	None	None	Yel., blue, white	April-May



## FERNS

Key No.	Botanical Name	Common Name	Height in Feet	Adaptation	Texture	Distinguishing Characteristics
650	<i>Adiantum pedatum</i>	American Maidenhair	8"-14"	Shade	Medium	Difficult to grow*
651	<i>Athyrium filixemina</i> —*	Ladyfern	2-3	Sun, shade	Medium	Refined
652	<i>Osmunda cinnamomea</i>	Cinnamonfern	4-6	Moist, shade	Coarse	Coarse
653	<i>Osmunda claytoniana</i>	Interrupted-fern	2-3	Open, shade	Coarse	Arching fronds
654	<i>Pteritis nodulosa</i>	Ostrichfern	1-2	Sun, shade	Coarse	Very large fronds

## FLOWERS

### Perennial Flowers

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adaptation	Use	Quality	Foliage Texture	Color	Color	Flowers Time	Cutting
<b>SPRING FLOWERING</b>												
1	<i>Alyssum saxatile</i> —*	Goldentuft Alyssum	1	1	Sun	Rock garden, edging	Good	Fine	Grey-green	Yellow	May	Fair
2	<i>Anchusa myosotidiflora</i>	Bugloss (Brunnera)	1	1-1½	Shade, sun	Border	Good	Coarse	Green	Blue	May	Good
3	<i>Anemone pulsatilla</i> —N	European Pasqueflower	6"-9"	1	Acid, sun	Wild garden	Good	Medium	Grey-green	White	April-May	Good
4	<i>Aquilegia coerulea</i> —D	Colorado Columbine	1½-2½	1	Shade	Border	Good	Medium	Light green	Blue	May	Good
5	<i>Aquilegia</i> var.—D	Long-spurred Hybrids	1½-2½	1	Shade	Border	Good	Medium	Light green	Various	May-June	Good
6	<i>Arabis alpina</i> —*	Alpine Rockcress	6"	1	Sun, half-shade	Rock garden, edging	Good	Fine	Grey-green	White	April-May	Good
7	<i>Cerastium tomentosum</i>	Snow-in-Summer	½	1	Sun	Rk. gar., edg.	Good	Fine	Silvery	White	May-June	Fair
8	<i>Convallaria majalis</i> —F	Lilyofthevalley	1	9"	Shade	Alone	Good	Coarse	Green	White	May	Excellent
9	<i>Dicentra spectabilis</i> —*	Common Bleedingheart	2	3	Shade	Border	Dies	Medium	Green	Pink	May-June	Good
10	<i>Iris germanica</i> (in var.)—*D	German (Common) Iris	2-3	1	Sun	Accent, border	Medium	Poor, cse.	Green	Various	May	Good
11	<i>Iris pumila</i>	Dwarf Iris	8"	1	Sun	Edging	Fair	Coarse	Green	Blue, yel., wh.	April-May	Fair
12	<i>Mertensia virginica</i> —*N	Virginia Bluebells	2	1	Sun, ½-sh.	Border	Dies	Medium	Green	Blue	Mar.-Apr.	Fair
13	<i>Myosotis (palustris) scorpioides</i> —E	True Forgetmenot	8"	1	Sun, ½-shade	Edging	Fair	Fine	Green	Blue, pink	May-July	Fair
14	<i>Paeonia albiflora</i> (in var.)—*	Chinese Peony	2-3	3	Sun	Border	Good	Coarse	Dark green	Wh., pink, red	May-June	Excellent
15	<i>Papaver nudicaule</i> —E	Iceland Poppy	1	1	Sun	Border	Dies	Medium	Light green	Or., yel., wh.	Apr.-May	Fair
16	<i>Papaver orientale</i> (in var.)—*	Oriental Poppy	2	3	Sun	Border	Dies	Coarse	Light green	Shades—wh., red, yellow	May-June	Fair
17	<i>Phlox divaricata</i> —*NF	Sweetwilliam Phlox	10"	1	Sun	Border	Good	Medium	Dark green	Lavender	May-June	Good
18	<i>Phlox subulata</i>	Moss Phlox	6"	1	Sun	Rock garden, edging	Good	Very fine	Green	Wh., blue, pink, red	Apr.-May	Not good
19	<i>Polemonium</i> (in var.)—M	Polemonium (Jacob's Ladder)	1-3	1½	Half-shade	Border	Fair	Fine	Green	Blue, white	May-June	Not good
20	<i>Vinca minor</i> —*	Common Periwinkle	3"	1	Sh., ½-sh.	Edging	Excellent	Fine	Shiny green	Blue	April	Not good

\*—Hardy plant and one generally recommended for home grounds use where a plant of this size and type is desired.

F—Flowers fragrant.

S—Southern Iowa only.

H—Hardiness doubtful in colder and drier sections of Iowa.

B—Fruits and seeds especially valuable for food for birds.

N—Native (grows wild) in some sections of Iowa.

D—Frequently affected by disease, insects or other growth inhibitors.

E—Does best in northeast Iowa.

M—Spreads, needs control to restrict it to a limited area.



# FLOWERS

## Perennial Flowers—Continued

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adaptation	Use	Quality	Foliage Texture	Color	Flowers Color	Time	Cutting
<b>EARLY SUMMER FLOWERING</b>												
30	<i>Althaea rosea</i> (biennial)—D	Hollyhock	5	2	Sun	Border	Fair	Very cse.	Light green	All but blue	June-July	Fair
31	<i>Anchusa azurea</i>	Italian Bugloss	3-4	1½	Sun	Border	Fair	Coarse	Green	Blue	June	Good
32	<i>Artemisia albula</i>	Silverking Sagebrush	3	1½	Sun	Border	Good	Fine	Silver	Silvery	June	Good
33	<i>Baptisia australis</i>	Blue Wildindigo	2-4	2-3	Sun	Border	Good	Medium	Sea-green	Blue	June	Fair
34	<i>Campanula garganica</i> —H	(Gargano Hairbell)	3"-6"	1	Sun	Rock garden, edging	Good	Medium	Green	Pale blue	May	Not good
35	<i>Campanula medium</i> (biennial)—E	Canterburybells	2-3	1½	Sun	Border	Fair	Medium	Green	Blue, pink, white	June	Fair
36	<i>Chrysanthemum coccineum</i> —*	Florists Pyrethrum	2-3	1½	Sun	Border	Fair	Fine	Green	Pinks, white	June-July	Excellent
37	<i>Chrysanthemum maximum</i> (in var.)—*	Pyrenees Daisy (Shasta Daisy)	1½-2	1½	Sun	Border	Good	Medium	Green	White	May-Aug.	Excellent
38	<i>Clematis recta</i> —F	Ground Clematis	3	2	Sun	Border	Good	Medium	Green	White	June-July	Good
39	<i>Delphinium</i> (in var.)	Larkspur	4-6	2	Sun, ½-sh.	Border	Fair	Coarse	Green	White, blue	June-July	Fair
40	<i>Delphinium grandiflorum chinense</i> —*	Slender Siberian Larkspur	2-3	½	Sun	Border	Fair	Fine	Green	Blue, white	June	Excellent
41	<i>Dianthus barbatus</i> (biennial)—F	Sweetwilliam	15"	1	Sun	Border	Fair	Medium	Green	Reds, white pink	June	Fair
42	<i>Dianthus deltoides</i> —F	Maiden Pink	8"	1	Sun	Edging	Good	Fine	Grey, green	Pinks, white	June-July	Good
43	<i>Dicentra eximia</i>	Fringed Bleedingheart	10"	1	Shade	Edging	Good	Fine	Green	Pink	June-Sept.	Fair
44	<i>Dictamnus albus</i> —*F	Gasplant Dittany	2½	2-3	Sun, ½-sh.	Border	Excellent	Medium	Dark green	White, pink	June	Fair
45	<i>Digitalis</i> (biennial)—E	Foxglove	2-3	1	Sun, ½-sh.	Border	Medium	Coarse	Light green	Various	June-July	Good
46	<i>Echinops ritro</i>	Small Globethistle	2-3	1½	Sun	Border	Fair	Medium	Silvery-blue	Silvery-blue	July	Good
47	<i>Filipendula hexapetala</i>	Dropwort	1-2½	1	Sun	Edging	Excellent	Fine	Green	White	June	Good
48	<i>Gaillardia aristata</i> —*	Common Gaillardia	1½-2	1½	Sun	Border	Fair	Medium	Light green	Yel., red, or.	June-Oct.	Excellent
49	<i>Geranium grandiflorum</i>	Lilac Geranium	1½	1	Shade	Native border	Good	Coarse	Green	Deep blue	June	Fair
50	<i>Geum chilense</i> var.—E	Chile Avens	1-2	1	Sun	Edging	Fair	Medium	Green	Orange-red	June	Good
51	<i>Hemerocallis</i> (in var.)—*X	Daylily	2-4	1½	Sun	Border, house	Excellent	Medium	Light green	Yellow, red, orange	June-July	Good
52	<i>Hesperis matronalis</i> —FM	Dames (Sweet) Rocket	2-3	1	Sun, ½-sh.	Border	Fair	Medium	Green	White, purple	June-July	Good
53	<i>Heuchera sanguinea</i> (in var.)—*	Coralbells	1-2	1	Sun, ½-sh.	Edging	Excellent	Medium	Green	Wh., red, pk.	June-Aug.	Good
54	<i>Iris kaempferi</i>	Japanese Iris	3	1	Sun, moist	Border	Good	Medium	Green	Various	July	Good
55	<i>Iris sibirica</i> —*	Siberian Iris	2-3	1	Sun	Border	Good	Fine	Green	Bl., wh.	May-June	Good
56	<i>Linum perenne</i>	Perennial Flax	1½	1	Sun, ½-sh.	Border	Fair	Fine	Blue-green	Clear blue	June-July	Not good
57	<i>Lupinus polphyllus</i> —D	Washington Lupine	2-3	2-3	Sun	Border	Fair	Medium	Green	Bl., pink, wh.	June	Fair
58	<i>Lythrum salicaria roseum</i>	Rose Loosestrife	3	1	Sun, moist	Border	Good	Fine	Green	Rose	July-Aug.	Good
59	<i>Nepeta mussini</i>	Persian Nepeta (Catmint)	1	1	Sun	Edging	Excellent	Medium	Grey-green	Blue	June-Oct.	Not good
60	<i>Platycodon grandiflorum</i> —*	Balloonflower	2-3	1½	Sun, ½-sh.	Border	Fair	Medium	Green	White, blue	June-Aug.	Fair
61	<i>Scabiosa caucasica</i>	Caucasian Scabious	1½	1	Sun	Border	Good	Medium	Green	White, blue	June-Sept.	Good
62	<i>Sedum</i> (in var.)—*	Stonecrop	10"-15"	1	Sun	Ground-cover, edging	Good	Fine	Green	Various	May-Aug.	Not good
63	<i>Tradescantia</i> (in var.)	Spiderwort	1-3	1½	Sun, ½-sh.	Border	Fair	Medium	Green	Wh., pk., blue	May-Aug.	Not good
64	<i>Valeriana officinalis</i> —FM	Common Valerian (Garden Heliotrope)	2-5	1½	Sun	Border	Fair	Medium	Green	Pink	June	Good
65	<i>Viola cornuta</i> (in var.)—F	Horned Violet	½	6"-8"	Sun, ½-shade	Edging	Good	Medium	Green	White, blue, yel., purple	May-Oct.	Good
66	<i>Yucca filamentosa</i> —F	Adamsneedle Yucca	3-6	2-3	Sun	Accent, entrance	Good	Coarse	Evergreen	White	June-July	Not good



# FLOWERS

## Perennial Flowers—Continued

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adaptation	Use	Quality	Foliage Texture	Color	Flowers Color	Time	Cutting
<b>LATE SUMMER FLOWERING</b>												
70	<i>Achillea ptarmica</i>	Sneezewort Yarrow	2	1-2	Sun	Border	Fair	Fine	Green	White	June-Aug.	Good
71	<i>Anthemis tinctoria</i>	Golden Camomile	15"	1½	Sun	Border	Fair	Fine	Green	Yellow	July-Sept.	Excellent
72	<i>Asclepias tuberosa</i> —N	Butterfly Milkweed	1½-2	1½	Sun	Border	Fair	Medium	Green	Red-orange	July-Aug.	Fair
73	<i>Belamcanda chinensis</i>	Blackberrylily	2-3	1	Sun	Border	Fair	Iris-like	Green	Crimson	July-Aug.	Not good
74	<i>Buddleia</i> (in var.)—H	Butterflybush	4-6	3-4	Sun	Background	Fair	Coarse	Green	Purple	Aug.-Sept.	Good
75	<i>Campanula carpatica</i> —H	Carpathian Bellflower	½	1	Sun	Edging	Good	Medium	Green	White, blue	July-Aug.	Not good
76	<i>Campanula persicifolia</i> —*	Peachleaf Bellflower	2-3	1	Sun	Border	Fair	Fine	Green	White, blue	July-Aug.	Not good
77	<i>Centaurea montana</i>	Mountainbluet	2	1½	Sun	Border	Fair	Medium	Green	Blue	July-Sept.	Good
78	<i>Cimicifuga racemosa</i>	Cohosh Bugbane	3-8	3	Sun, shade	Background	Good	Coarse	Green	White	July-Aug.	Not good
79	<i>Coreopsis grandiflora</i> —*H	Bigflower Coreopsis	2-3	1½	Sun	Border	Fair	Medium	Green	Yellow	June-Aug.	Excellent
80	<i>Echinacea</i> (Rudbeckia) <i>purpurea</i> —N	Purple Echinacea (Coneflower)	3	1½	Sun	Native border	Fair	Coarse	Green	Pinkish	July-Sept.	Fair
81	<i>Eryngium planum</i>	Seaholly	2-2½	1½	Sun	Border	Good	Coarse	Green	Steel-blue	July-Aug.	Good
82	<i>Eupatorium</i> (in var.)	Eupatorium (Hardy Ageratum)	2-3	1½	Sun	Border	Fair	Medium	Green	White, blue	Aug.-Oct.	Good
83	<i>Gypsophila paniculata</i> (florepleno)	Double Babysbreath	2-2½	3	Sun	Border	Fair	Fine	Green	White	August	Excellent
84	<i>Heliopsis helianthoides</i> <i>pitcheriana</i>	Pitcher Heliopsis	3	3	Sun	Border	Fair	Medium	Green	Deep yellow	July-Aug.	Good
85	<i>Hosta</i> (Funkia) (in var.)—*	Plantainlily	1½-2	2-3	Shade	Border	Excellent	Coarse	Green	White, blue	July-Aug.	Fair
86	<i>Lathyrus latifolius</i>	Perennial Peavine (Sweetpea)	2	3	Sun, shade	Border	Good	Medium	Grey-green	White, pink	July-Aug.	Fair
87	<i>Liatris pycnostachya</i> —N	Kansas Gayfeather	3-4	1	Sun, ½-sh.	Border	Fair	Fine	Green	Red, purple	Aug.-Sept.	Good
88	<i>Limonium latifolium</i>	Wildleaf Sea-lavender	2	1-1½	Sun	Border	Good	Coarse	Green	Pale purple	July-Aug.	Good
89	<i>Lychnis</i> (in var.)	Campion (Catchfly)	1-3	1	Sun	Border	Fair	Medium	Green	White, red, orange, pink	July-Aug.	Good
90	<i>Macleaya cordata</i> —M	Pink Plumepoppy	5-6	3	Sun	Background	Fair	Coarse	Grey-green	Pink	August	Not good
91	<i>Matricaria</i> (in var.)	Mayweed (Feverfew)	1½-2	1	Sun	Border	Good	Fine	Green	White, yellow	June-Oct.	Good
92	<i>Monarda didyma</i>	Oswego Beebalm	2-3	1	Sun, shade	Border	Fair	Medium	Green	Reds	June-Aug.	Good
93	<i>Oenothera missouriensis</i> —X	Ozark Sundrops (Evening primrose)	10"	1	½-shade	Edging	Good	Medium	Green	Yellow	June-Aug.	Not good
94	<i>Pentstemon torreyi</i>	Torrey Pentstemon	½-2	1	Sun	Edging	Good	Medium	Grey-green	Red, pink	July	Good
95	<i>Phlox paniculata</i> (in var.)—*D	Summer Phlox	2-3	1½	Sun, ½-sh.	Border	Good	Medium	Green	White to red	July-Aug.	Fair
96	<i>Physostegia virginiana</i> —M	Virginia Lionsheart (False Dragonhead)	3	1½	Sun	Border	Fair	Medium	Green	Pink	Aug.-Sept.	Good
97	<i>Sanguisorba obtusa</i>	Japanese Burnet	3	2	Sun	Border	Good	Medium	Green	Crimson	July	Good
98	<i>Sidalcea</i> (in var.)	Checkermallow	2	1	Sun	Border	Fair	Medium	Green	Wh., pk., lav.	June-Sept.	Fair
99	<i>Thalictrum</i> (in var.)	Meadowrue	2-3	1-1½	Half-shade	Border	Excellent	Fine	Blue-green	White, blue	June-Sept.	Good
100	<i>Verbascum olympicum</i>	Olympic Mullein	4-6	2-3	Sun	Border	Fair	Coarse	Grey-green	Deep yellow	July-Aug.	Not good
101	<i>Veronica</i> (in var.)—*	Speedwell	1-3	1	Sun	Border	Fair	Medium	Blue-green	White, blue	June-Aug.	Excellent

D—Frequently affected by disease, insects or other growth inhibitors.

H—Hardiness doubtful in colder and drier sections of Iowa.

E—Does best in northeast Iowa.

\*—Hardy plant and one generally recommended for home grounds use where a plant of this size and type is desired.

F—Flowers fragrant.

X—Flowers close up at night.

M—Spreads, needs control to restrict it to a limited area.



## FLOWERS

### Perennial Flowers—Continued

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adaptation	Use	Quality	Foliage Texture	Color	Flowers Color	Time	Cutting
<b>AUTUMN FLOWERING</b>												
110	<i>Anemone japonica</i> (in var.)—E	Japanese Anemone (Windflower)	2	1½	Cool, ½-shade	Border	Excellent	Medium	Grey-green	White, pink	Sept.-Nov.	Excellent
111	<i>Aster</i> (in var.)—*	Fall Aster	3-6	2	Sun	Background	Good	Medium	Green	Various	Sept.-Oct.	Excellent
112	<i>Boltonia</i> (in var.)	Boltonia	4-6	2	Sun	Background	Fair	Medium	Green	White, pink	Aug.-Sept.	Good
113	<i>Chrysanthemum</i> (in var.)—*	(Garden) Chrysanthemum	2-4	1½	Sun	Border	Good	Medium	Green	Various	Sept.-Oct.	Excellent
114	<i>Chrysanthemum uliginosum</i>	Giantdaisy	4-5	2	Sun	Background	Good	Medium	Light green	White	Aug.-Sept.	Good
115	<i>Helenium autumnale</i> (in var.)	Common Sneezeweed	3-6	2	Sun	Background	Good	Medium	Green	Yellow, red	Aug.-Sept.	Excellent
116	<i>Helianthus decapetalus</i> fl. pl.	Double Thinleaf Sunflower	4	2	Sun	Border	Fair	Medium	Green	Yellow	Aug.-Sept.	Good
117	<i>Physalis alkekengi</i> —M	Strawberry Groundcherry (Chinese Lantern)	2	3	Sun	Border	Fair	Medium	Green	Orange fruit	Sept.-Oct.	Excellent
118	<i>Physostegia virginiana</i> Vivid—M	Virginia Lionsheart var. Vivid	1	1	Sun	Edging	Fair	Medium	Green	Salmon-pink	Sept.	Good
119	<i>Salvia pitcheri</i> —H	Pitchers Sage	3-5	1½	Sun	Border	Good	Medium	Grey-green	Sky blue	Aug.-Sept.	Good
120	<i>Sedum spectabile</i> —*	Showy Stonecrop	1½-2	2	Sun	Border	Good	Coarse	Grey-green	White, pink	Aug.-Sept.	Good

### Bulb Plants

#### SPRING FLOWERING—(plant in fall)

125	<i>Crocus</i> (in var.)	Crocus	½	4"	Sun, ½-shade	Lawn or border	Good	Fine	Shiny, dark green	Various	April	Fair
126	<i>Fritillaria meleagris</i>	Checkered Fritillary	1	4"	Shade	Border	Fair	Fine	Green	Checked	April-June	Fair
127	<i>Galanthus nivalis</i>	Common Snowdrop	4"-6"	4"	Sun, ½-shade	Lawn or border	Fair	Fine	Green	White	April	Fair
128	<i>Hyacinthus</i> (in var.)—F	Hyacinth	9"-15"	½	Sun	Border	Good	Coarse	Rich, dk. gr.	Various	Apr.-May	Good
129	<i>Muscari</i> (in var.)	Grapehyacinth	½	4"	Sun, ½-sh.	Border	Fair	Fine	Green	Blue	Apr.-May	Good
130	<i>Narcissus</i> (in var.)—*	Daffodil, Jonquil, Narcissus	12"-15"	½	½-shade	Naturalized border	Dies	Coarse	Green	White, yellow	Apr.-May	Excellent
131	<i>Ornithogalum umbellatum</i>	Common Star-of-Bethlehem	½	½	Sun	Naturalized border	Good	Fine	Grn., white	White	May-June	Fair
132	<i>Scilla hispanica</i>	Spanish Squill	4"-6"	4"	Sun, ½-sh.	Border	Good	Fine	Green	Wh., pk., bl.	May	Good
133	<i>Scilla sibirica</i> —*	Siberian Squill	4"-6"	4"	Sun, ½-shade	Under shrubs or border	Good	Fine	Green	Deep blue	April	Good
134	<i>Tulipa</i> (in var.)—*	Tulip	10"-15"	4"	Sun	Border	Fair	Coarse	Green	Various	Apr.-May	Excellent

#### SUMMER AND FALL FLOWERING—(not hardy; plant in spring)

140	<i>Begonia</i> (tuber hybrida)	Tuberous Begonia	1	1½	Moist, sh.	Pot, border	Good	Coarse	Green	No blues	To frost	Fair
141	<i>Canna</i> (in var.)	Canna	3-6	1½	Sun	Background	Good	Coarse	Gr., bronze	Reds, yellows	To frost	Fair
142	<i>Colchium autumnale</i>	Common Autumncrocus	3"-4"	4"	Sun, ½-sh.	Novelty	Disap.	Coarse	Green	Purple	Aug.-Sept.	Fair
143	<i>Dahlia</i> sp.	Dahlia	2-6	2	Sun	Border	Good	Coarse	Green	Various	To frost	Good
144	<i>Gladiolus</i> (in var.)	Gladiolus	3-4	½	Sun	Border	Fair	Coarse	Green	Various	July-Oct.	Excellent

#### SUMMER AND FALL FLOWERING—(hardy; plant in spring or fall)

145	<i>Lilium auratum</i> —*	Goldband Lily	2-4	1	½-shade	Border	Fair	Medium	Green	White	July-Aug.	Excellent
146	<i>Lilium candidum</i> —*	Madonna Lily	3-5	1	Sun	Border	Fair	Medium	Green	White	June-July	Excellent
147	<i>Lilium elegans</i> (in var.)—*	Thunberg Lily	1-2	1	Sun	Border	Fair	Coarse	Green	Yel., red, or.	June-July	Excellent
148	<i>Lilium henryi</i>	Henry Lily	4-6	1-2	½-shade	Background	Fair	Medium	Green	Soft orange	Aug.-Sept.	Excellent
149	<i>Lilium leucanthum chloraster</i> (centifolium) (in var.)	Greenstrip Ichang Lily	3-5	2	½-shade	Border	Good	Fine	Green	White	July	Excellent
150	<i>Lilium pumilum</i> (tenuifolium)—*	Coral Lily	1-2	1	Sun	Border	Fair	Fine	Green	Waxy red	June-July	Good



# Bulb Plants—Continued

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adaptation	Use	Quality	Foliage Texture	Color	Flowers Color	Time	Cutting
<b>SPRING FLOWERING (plant in fall)—Continued</b>												
151	<i>Lilium regale</i> —*	Regal Lily	4-6	1	Sun	Border	Good	Medium	Green	White	June	Good
152	<i>Lilium speciosum</i> (in var.)—*F	Speciosum Lily	2-4	1	½-shade	Border	Fair	Medium	Green	White, pink	Aug.-Sept.	Good
153	<i>Lilium tigrinum</i>	Tiger Lily	2-5	1	Sun, ½-sh.	Border	Fair	Medium	Green	Orange	July-Sept.	Good
154	<i>Lilium umbellatum</i> (in var.)—*	Western Orangetup Lily	1-2	1	Sun, ½-sh.	Border	Fair	Medium	Green	Yel., red, or.	June-July	Good
155	<i>Lycoris squamigera</i>	Autumn Lycoris (Surprise Lily)	1	1½	Sun, ½-shade	Novelty	Disappears	Coarse	Green	Rosy-like	August	Fair

# ANNUAL FLOWERS

Key No.	Botanical Name	Common Name	Height in Feet	Spread in Feet	Adaptation	Use	Quality	Foliage Texture	Color	Flowers Color	Time	Cutting
160	<i>Ageratum houstonianum</i> (in var.)—*F	Mexican Ageratum	1-2	1	Sun	Bedding, edging	Good	Medium	Lt. green	Blue	To frost	Good
161	<i>Antirrhinum</i> (in var.)—*D	Snapdragon	1-3	1	Sun, ½-sh.	Border	Good	Medium	Green	Various	To frost	Excellent
162	<i>Callistephus chinensis</i> —D	China-aster	2	1	Sun, ½-sh.	Border	Good	Coarse	Green	Various	To frost	Good
163	<i>Centaurea cyanus</i>	Cornflower (Bachelorbutton)	2	1	Sun, semi-shade	Border	Fair	Fine	Green	Various	Summer	Good
164	<i>Cleome</i> (in var.)	Spiderflower	3-6	1½	Sun, shade	Border	Fair	Medium	Green	Wh., pink	To frost	Good
165	<i>Coreopsis</i> (in var.)	Annual Coreopsis (Calliopsis)	2	1	Sun	Border	Fair	Fine	Green	Yellow, red, brown	To frost	Good
166	<i>Cosmos</i> (in var.)	Cosmos	3	1	Sun	Border	Good	Fine	Green	Wh., pink	To frost	Good
167	<i>Delphinium</i> (in var.)—*	Annual Larkspur	3	1	Sun	Border	Good	Fine	Green	Wh., pk., blue	June	Good
168	<i>Dianthus chinensis</i> —F	China Pink	1	1	Sun	Edging	Good	Fine	Green	Red shades	June	Good
169	<i>Eschscholtzia californica</i>	California Poppy	½	8"	Sun	Edging	Good	Fine	Grey-green	Brt. yellow	To frost	Fair
170	<i>Gaillardia</i> (in var.)—*	Annual Gaillardia	1½	1	Sun	Border	Good	Medium	Green	Red to yel.	To frost	Excellent
171	<i>Gypsophila elegans</i> (in var.)	Annual Babysbreath	1½	1	Sun	Border	Fair	Fine	Green	White	To Sept.	Excellent
172	<i>Helichrysum bracteatum</i>	Strawflower	2	1	Sun	Border	Fair	Medium	Green	Various	Lasting	Excellent
173	<i>Heliotropium</i> (in var.)—F	Heliotrope	1-1½	1	Sun	Border	Good	Coarse	Dusty grn.	Purple	To frost	Fair
174	<i>Iberis affinis</i>	Candytuft	1-1½	1	Sun	Edging	Good	Fine	Green	Wh., purple	To Sept.	Fair
175	<i>Lantana</i> —*	Lantana	1	1½	Sun	Windowbox	Good	Medium	Green	Or., purple	July-frost	Fair
176	<i>Lochnera rosea</i>	Madagascar-periwinkle	2	1½	Sun	Border	Good	Medium	Shiny, grn.	Wh., magenta	To frost	Fair
177	<i>Lobelia erinus</i> (in var.)—*	Edging Lobelia	6"-8"	6"-8"	Sun, shade	Edging	Good	Fine	Green	White, blue	To frost	
178	<i>Lobularia maritima</i> (in var.)—*F	Sweet Alyssum	½-1	1	Sun	Edging	Good	Fine	Green	Wh., lavender	To frost	Fair
179	<i>Nicotiana</i> (in var.)—*F	Flowering Tobacco	3-5	1-2	Sun, shade	Border	Fair	Coarse	Green	White, red	To frost	Fair
180	<i>Papaver rhoeas</i> (in var.)	Shirley Poppy	1-1½	1	Sun	Border	Fair	Medium	Soft green	White, reds	July-Aug.	Good
181	<i>Petunia hybrida</i> (in var.)—*F	Petunia	1	1	Sun	Edging	Good	Medium	Green	Various	To frost	Good
182	<i>Phlox drummondii</i>	Drummond Phlox	½-1½	9"	Sun	Border	Fair	Medium	Green	Various	To frost	Good
183	<i>Portulaca</i> (in var.)—*	Portulaca	½	1	Sun, dry	Edging	Good	Fine	Green	Various	To frost	No good
184	<i>Salvia farinacea</i>	Mealycup Salvia	3	1½	Sun	Border	Good	Medium	Grey-green	Blue	July-Aug.	Good
185	<i>Salvia splendens</i>	Scarlet Sage	1-2	1-2	Sun	Border	Good	Medium	Dark green	Scarlet	July-Sept.	Good
186	<i>Scabiosa atropurpurea</i>	Sweet Scabiosa	2-2½	1	Sun	Border	Fair	Medium	Green	Various	To Sept.	Excellent
187	<i>Tagetes erecta</i> (in var.)—*	Aztec (African) Marigold	2-4	1	Sun	Border	Good	Medium	Green	Yel., orange	To frost	Excellent
188	<i>Tagetes patula</i> (in var.)—*	French Marigold	1	1	Sun	Edging	Good	Fine	Green	Yel., maroon	To frost	Excellent
189	<i>Tropaeolum</i> (in var.)—*FD	Nasturtium	1	1	Sun	Edging	Excellent	Coarse	Pale green	Red, yellow	To frost	Excellent
190	<i>Verbena</i> (Hortensis)	Garden Verbena	1	1	Sun	Edging	Good	Medium	Green	Various	To frost	Good
191	<i>Viola tricolor hortensis</i> —*	Garden Pansy	½-1	1	Shade	Edging	Good	Medium	Green	Various	To frost	Excellent
192	<i>Zinnia</i> (in var.)—*	Zinnia	1-3	1	Sun	Border	Fair	Coarse	Green	Various	To Sept.	Excellent

E—Does best in northeast Iowa.

\*—Hardy plant and one generally recommended for home grounds use where a plant of this size and type is desired.

M—Spreads, needs control to restrict it to a limited area.

H—Hardiness doubtful in colder and drier sections of Iowa.

F—Flowers fragrant.

D—Frequently affected by disease, insects or other growth inhibitors.

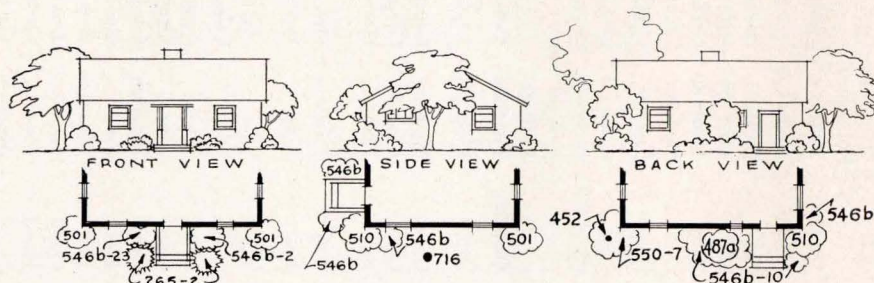


## PLANNING PLANTINGS AROUND BUILDINGS

Plant on all four sides of a building where plantings are needed to improve its appearance. The planting should complement the building, not dominate it; be arranged and selected to conform with its design (symmetrically balanced if the side of the building is symmetrically balanced; small and in small groups if the building is small and set close to the ground; larger plants in larger masses, if it is a big building); serve as a transition (leading the eye) between the ground and the building (for this purpose use plants that are compact with foliage growing right down to the ground, and usually plant the tallest ones at the corners); serve to add interest or pattern on an unbroken wall space (small trees or shrubs that are open in habit can be used for this purpose or, on masonry walls, vines may be used).

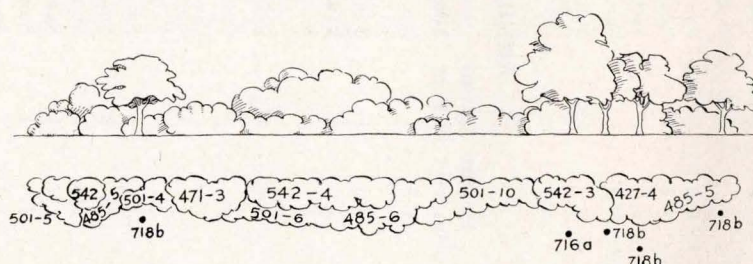
In addition to the plants close to a building there should be large-growing shade trees to complete the picture. Plant them at least 20 feet out from a building and on curved lines out from its corners where they will not block views looking out from or toward it.

# Planning Plantings



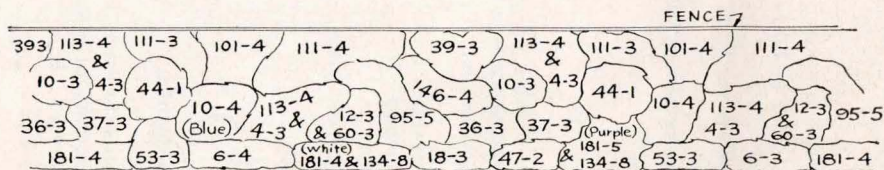
## THE SHRUB BORDER

The plantings in the shrub border should be varied as to height, texture and numbers. Small trees or large shade trees can be planted in front of the border to add interest and contrast in size and form, and to provide a shadow pattern on the lawn. If the grounds are small, a fence with vines on it or a clipped hedge can be substituted for the informal shrub border. Flowers may be planted along them and individual shrubs or flowering trees introduced now and then at focal points to add interest.



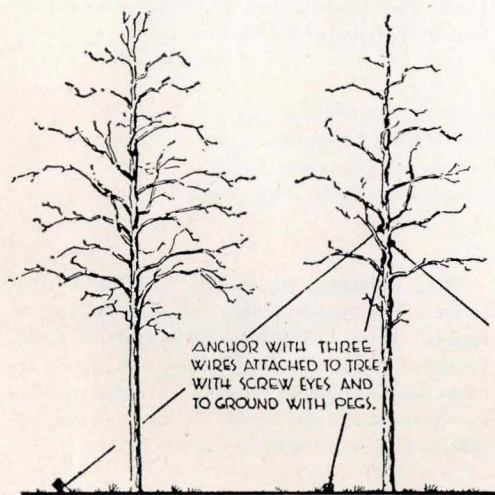
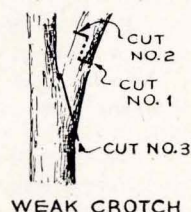
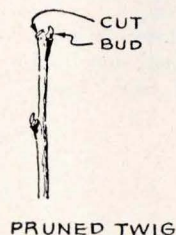
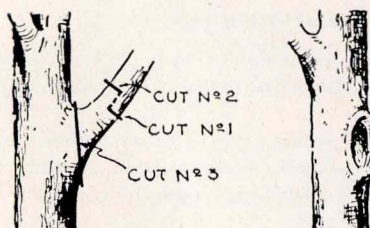
## THE PERENNIAL BORDER

Usually the flowers in a perennial border should be arranged to provide color throughout the growing season and attractive color combinations. They should be planted in groups, with those with good foliage in front of those with poor foliage. Key plants should be repeated throughout the border.





# Pruning Trees



## PRUNING MATURE TREES

Never top a shade tree. Prune to strengthen it and to retain its natural, beautiful shape. Each cut should be clean and as close as possible to the main stem. When larger branches are removed, cuts should be made in the order shown. Cuts No. 1 and No. 2 are made to prevent stripping of the bark.

## PRUNING YOUNG SHADE TREES

When twigs and small branches are to be pruned, the cut should be made just above a bud.

A weak union at a sharp-angled crotch will cause splitting and eventually decay. One branch should have been removed when the tree was young. One still should be removed as shown at left.

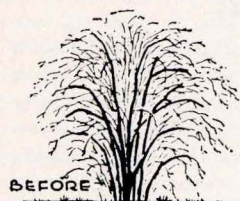
To balance top with remaining roots, remove about  $\frac{1}{3}$  of top of newly transplanted trees by:

1. Removing weaker or sharp-angled and crowded branches.
2. Removing all but one leader if top is divided. Never shorten central leader which is left.
3. Cutting back side branches to just above a bud, retaining natural shape of tree, to accomplish the full  $\frac{1}{3}$  reduction of top.

Note: As a young tree grows, remove lower branches each year while they are still small enough to be cut off with hand shears. This should be done until the lowest branch is the height you want it from the ground when the tree is full grown; for a shade tree, 8 to 12 feet from the ground, depending upon the tree's location. Also, continue to remove the weaker of sharp-angled, crowded or crossing branches while they are still small.



# Pruning Shrubs



BEFORE



AFTER



BEFORE



AFTER



END VIEW



SIDE VIEW

CORRECTLY PRUNED



END VIEW



SIDE VIEW

INCORRECTLY PRUNED

## PRUNING MATURE SHRUBS

Prune to maintain and improve upon the natural, beautiful shape of each shrub. Do not top.

Prune sucker type of shrub (spirea) by cutting dead and oldest canes to ground. Select few well distributed canes to remain. Leave young growth.

Prune shrubs which come up from one main stem (honeysuckle) by cutting some old branches part way and some at base. Leave young wood.

## PRUNING YOUNG SHRUBS AND HEDGES

When transplanting a young shrub, reduce the top by  $\frac{1}{3}$  to balance the top with the roots. Prune just above a bud and retain the natural beautiful shape of the shrub.

After planting, cut hedge back to 2 to 4 inches. The second spring cut back to 8 to 10 inches. Trim frequently during the summer. Frequent pruning when the hedge is young insures heavy, compact growth. This and pruning the hedge narrower at the top than at the bottom will prevent openness at the base.



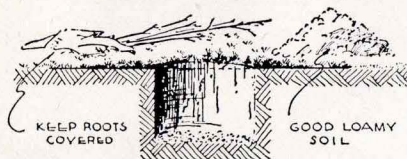
# Planting



Never allow roots of plants to dry! On receiving plants from nursery, give roots a good soaking and keep damp until ready for planting. Keep out of wind and away from heat.



For balled and burlapped evergreens dig hole a foot larger and deeper than the ball. Set evergreen at same depth it was in nursery row. Fill hole  $\frac{2}{3}$  full, water, cut twine and turn back burlap. Fill and pack firmly.



For bare-root plants dig hole large enough to prevent crowding of roots. Loosen subsoil if very hard. Keep roots covered.



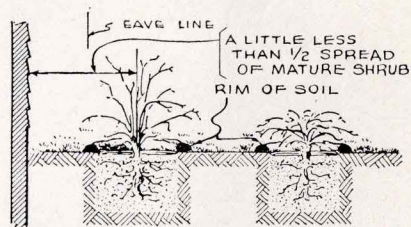
Put mound of soil in bottom of hole with roots spread to natural position over it. Set plant at same depth as it grew in nursery.



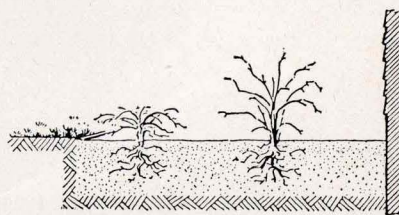
Work soil about roots by hand as hole is filled with soil or when hole is completely filled, by settling with water. After watering, settle plant by shaking gently.



Pack soil firmly. Leave basin to catch water. Put on layer of loose soil to act as mulch. Water deeply once a week for the first 2 years.



Shrubs next to the house are planted at a distance of a little less than half the spread of the mature shrub. Plant outside eave line.



When soil is very poor around foundation, which is often the case, the entire bed should be dug out to a depth of  $1\frac{1}{2}$  to 2 feet and replaced with good soil.







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