# PLANTING & Fall PLANTING GUIDE

# Easy Steps to Planting Nursery Stock

# Plant Right Away

Soak roots of bareroot trees, shrubs and roses for several hours before planting. Soak strawberries and perennials 1/2 hour. If you can't plant immediately, see No. 4.

# 2. Protect Plant Roots

Don't expose roots to air or sun—keep covered with wet burlap or towels.

# 3. Planting Tips

Dig a hole wide enough to hold the roots without crowding and deep enough to set stock at the same depth it grew in the nursery. Trim damaged roots before planting. If the ground is hard, break up the soil at the bottom of the hole and add a little topsoil. Position the stock and add several inches of soil. Firm soil gently to remove air pockets, then water. When water has soaked in, add remaining soil and water again. Water frequently the first year and mulch.

Since all fruit varieties (named cultivars such as Red Delicious apple, Reliance peach, etc.) are grafted, the planting depth should be carefully monitored. The graft or bud union (enlarged trunk area located 4-8 inches above the roots) should be planted so that the union is 2-3 inches above the soil line after settling. If planted deeper, the varietal section above the union will produce its own roots and become a full-size tree.

# 4. If Planting is Delayed

BEFORE PLANTING IN THE GAR-DEN: You may heel-in trees and shrubs by digging a trench in a shady spot and temporarily planting the roots under 6 inches of moist soil.

IF AREA IS NOT READY FOR PLANT-ING: Sprinkle roots of trees, shrubs and roses with water, rewrap and store in a cool basement or unheated garage. Do not allow the stock to freeze. Plant as soon as possible.

Store strawberries and bareroot perennials in a spare refrigerator (not used for fresh produce) or in an unheated area or basement until conditions are right for planting. Wrap roots in a damp paper towel and cover with a plastic bag to prevent drying. Keep bulbs and onion sets at 50°F. Store potted plants on a sunny windowsill or in an outdoor area protected from direct sun or frost. Remove the cardboard sleeve and water well until planting conditions improve. If potatoes show mold, spread them out to dry in an airy room.

# 5. Prune the Stock

Most stock is pruned before shipping to avoid damage in transit, so only minor pruning is needed. Remove crossed limbs and broken branches.

6. Keep Watering!

One tree or shrub may bud and leaf out quickly, while another will take much longer. This is normal. Keep watering on a weekly basis if adequate rainfall of 1 inch a week isn't received. If in doubt, lightly scratch the bark with your fingernail. If the wood is green, the plant is alive.

GEN-PG-21.indd 1 12/10/2020 12:24:22 PM

## ARTICHOKES

Jerusalem—Cut the tubers into pieces so that each knob has part of the main tuber attached. 4-6 weeks before the last frost date, plant the knobs 3-5 inches deep and 18-24 inches apart in rows 36-42 inches apart. Tubers are ready for digging after the tops are killed by frost. Cut tops with a mower and dig like potatoes or leave in the ground and harvest throughout the winter. Freezing won't hurt the tubers, but a heavy straw mulch will keep the ground from freezing and make digging easier.

## **ASPARAGUS**

Plant 12-18 inches apart in spring or fall. Prepare a trench 8 inches deep. Spread the crowns over the soil and cover them with 2 inches of soil. Gradually fill the trench with soil as the plants grow. (If your soil is clay or heavy, you may wish to add compost.) If planting in fall, fill the trench in completely. Each spring, apply 3-5 pounds of fertilizer per 100 square feet. Work into the soil before growth starts. Repeat application after the harvest is complete. Cut the tops back and mulch in late fall to help prevent deep freezing and sudden changes in soil temperature. Limit the first harvest to one or two cuttings by mid June of the second year. A full crop can be harvested the third year after planting, when the spears are 6-10 inches tall. (If planting 2-year crowns, you should harvest a good supply the second year.) Harvest for 6-8 weeks only, or until about the first of July in the North. When harvesting, snap off or cut spears at ground level to avoid injuring new growth.

# **BULBS**

We recommend planting your bulbs as soon as possible after they arrive. If planting must be delayed, open bulb bags to allow air circulation and place in a cool (45-55°F) location, away from direct sunlight. Do not place bulbs where they can freeze.

An excellent option for bulb storage is a spare refrigerator, though you should avoid storing your bulbs with fruit. The fruit emits ethylene gas which can be harmful to your bulbs.

Your bulbs will flourish in most types of well-drained soil. If your soil is sandy, plant bulbs 1 inch deeper than the recommendation on the bag label. If your soil is heavy clay, plant bulbs 1 inch shallower than the label recommends. The addition of light organic matter such as peat moss, leaf mold or compost will improve your soil and provide better drainage. After planting the bulbs, tamp the soil with your hands to eliminate any air pockets. Water thoroughly. Hardy bulbs, such as tulips and daffodils, do not need to be lifted in the fall, but a covering of mulch will help protect the bulbs in colder climates.

Important Note—Leave the foliage on all your bulbs after they bloom. Allow the foliage to turn yellow and wither naturally. The leaves provide nourishment to the bulbs for next season's blooms.

Note for Pink Daffodils—When pink daffodils first unfold, the trumpet is a lovely apricot-yellow color that gradually changes to a soft pink. It is important to plant this variety in a shaded or partially shaded area, since the trumpet color fades in full sun.

In colder climates, **tender bulbs** such as gladiolus, cannas, dahlias or calla lilies that are planted in the spring, must be lifted in the fall. You may lift your bulbs prior to a killing frost or as soon as the frost has blackened the foliage. Dig up the bulbs gently, being careful not to cut or damage them. Cannas and dahlias can also be overwintered in zones 5-7 by covering with a 3- to 4-inch thick layer of mulch.

Store them in a well-ventilated, frost-free area until the foliage has dried up. Remove the dried foliage and place your bulbs in an unsealed paper bag, old nylon stocking or a shallow, plasticlined box with a blanket of peat moss or vermiculite.

Summer-flowering tender bulbs require winter storage temperatures between 45-60°F. An ideal storage location would be the vegetable compartment of a refrigerator or an unheated garage or basement. Most modern basements aren't cool enough for winter bulb storage.

Ever soil a soil v Prov

Prov for n the s out. tree 2 day days isn't summi befor

Plant plant the Fruit

This ensurate secon Property graft

trunl all fr the dwar nent after Supp and inch grou to it

Addi ject from lowe prote

As ye remo

The the n be

es of andy, comsoil is ower lition noss, your After your

Vater

ulips

ed in

help e on Allow natuent to

pink
is a
ually
nt to
tially
color

ch as lilies st be oulbs s the g up ot to hlias -7 by layer

frostl up. place bag, asticss or

quire ween ation ment trage nents bulb

## **EVERGREENS**

Evergreens do best in fertile, well-drained soil and prefer slightly acidic conditions—a soil with a pH level range of 5.8-6.8.

Provide some form of temporary shade for newly planted evergreens to help keep the sun from scorching and drying them out. This is the leading cause of young tree loss. Water well, 1-2 gallons every 2 days for 2 weeks, then once every 7-10 days if adequate rainfall of 1 inch a week isn't received. Prune juniper and cedar in summer; pine and spruce in May or June before new growth hardens.

# **FRUIT TREES**

Plant fruit trees as advised in the general planting directions on page 1, following the spacing recommendations from the Fruit Planting Chart on this page.

This spacing, less than 50 feet apart, ensures good pollination. Even trees that are self-fruitful bear heavier crops when a second variety is planted nearby.

Proper planting depth is also critical. The graft or bud union (swollen area on the trunk, about 4-6 inches above the roots of all fruit trees) must be 1-2 inches above the soil surface (after settling). With dwarf- and Reachables-size trees, permanent staking is mandatory immediately after planting. Use our patented Tree Support System, which lasts a lifetime and is very easy to install, or drive a 6-7 inch stake at least 18 inches into the ground near the tree and attach the trunk to it. If you use twine, tie it loosely to prevent girdling.

Additionally, young fruit trees are subject to damage during winter months from foraging rabbits. Until year four, the lower 18-24 inches of the trunk require a protective barrier during winter.

As your trees grow, prune in early spring, removing crossed or injured limbs and any branches which rub against each other. This allows light into the center of the tree. Don't cut short spurs from the main stem since these bear first fruit.

The general rule is to prune less during the juvenile or early years, removing only the limbs that compete with desired limbs. Apple and pear varieties with a natural upright habit should have their limbs spread to a 60-degree angle.

Starting in year five, prune out shaded or crowded limbs annually in late winter. Never leave stubs; cut limbs where they connect with the trunk or other limbs you want to keep.

Regular spraying stops insects before they can damage your crop. Apply dormant oil before buds begin to swell. Spray trees with liquid fruit tree spray when flower petals fall. Make follow-up applications every 10 days or so until the harvest nears.

With proper care, fruit trees will remain productive for many years. To maximize their productivity and quality, thin excess fruit each year. For apples and pears, remove one fruit per cluster. For peaches, nectarines, plums and apricots, leave only one fruit per 8-10 inches of limb space. Do this just after the flower petals have fallen or when tiny fruits become visible.

### FRUIT PLANTING CHART

Variety	Planting Distance	Approx Height	Years to Bearing	Yield
Reachables Apple	6-10 Ft.	5-7 Ft.	2-3	.5 Bu.
Std. Apple	25-35 Ft.	20-25 Ft.	4-5	10-20 Bu.
Reachables Apricot	8-12 Ft.	6-8 Ft.	3-5	2-4 Bu.
Std. Apricot	15-20 Ft.	15-20 Ft.	5-7	3-5 Bu.
Bush Cherry	5 Ft.	4-8 Ft.	2-3	1-2 Qts.
Dwarf Cherry	5-7 Ft.	6-7 Ft.		2-5 Bu.
Dwf. Pie Cherry	10 Ft.	10-15 Ft.	2-3	1-2 Bu.
Std. Pie Cherry	25 Ft.	15-20 Ft.	3-4	2-5 Bu.
Std. Swt. Cherry	25 Ft.	25 Ft.	4-6	3-7 Bu.
Reachables Nectacot	8-12 Ft.	6-8 Ft.	2-3	1-3 Bu.
Std. Nectacot	15-20 Ft.	15-20 Ft.	3-4	3-8 Bu.
Reachables Nectarine	8-12 Ft.	6-8 Ft.	2-3	1-3 Bu.
Std. Nectarine	15-20 Ft.	15-20 Ft.	3-4	3-8 Bu.
Reachables Peach	8-12 Ft.	12-14 Ft.	2-3	2-5 Bu.
Std. Peach	15-20 Ft.	20 Ft.	4-5	3-8 Bu.
Semi-Dwf. Pear	10-15 Ft.	8-15 Ft.	3-4	2-3 Bu.
Std. Pear	20-25 Ft.	20-30 Ft.	4-7	4-8 Bu.
Reachables Plum	8-12 Ft.	8-12 Ft.	2-3	1-2 Bu.
Std. Plum	15-20 Ft.	15-25 Ft.	3-4	2-4 Bu.

# **GARLIC**

Garlic is adaptable to a wide range of soil types, but prefers well-drained soil high in organic matter. Plant hardneck types in late fall. Softnecks can be planted in early spring or fall, depending on your location. Just before planting, break bulbs apart into cloves, making sure not to let the cloves dry out. Plant cloves with pointed end up at least an inch deep (2 inches for Elephant Garlic) and 4 inches apart. After planting, a layer of mulch may be added to help retain moisture and maintain soil temperature. The tops will begin to die back as garlic reaches its peak maturity. Recommended harvest time is when most, but not all, of the foliage has died back. Hang your garlic up in a cool dry place for at least 2 weeks to allow it to cure. It can then be stored in mesh bags in a dark, cool, low humidity area.

## **HEDGES**

Dig a trench 12-18 inches wide, setting plants in a straight line or an offset zigzag pattern at the depth they grew in the nursery row. (An offset pattern will give you a thicker, fuller hedge but may require 1/3 more plants.) To stimulate branching, pinch off the ends of each new shoot. When new growth reaches 10-12 inches, trim it back several inches. Hedges should be trimmed several times a season. If a hedge is doing well, only minor pruning is needed-particularly if you favor an informal appearance. Be sure to prune the top narrower than the bottom so that the bottom gets sun. Prune flowering hedges. such as lilacs and spirea, after they have finished blooming. Hydrangeas, on the other hand, should be pruned later in summer, removing only the stems that have already flowered.

#### HORSERADISH

Horseradish thrives in sun or shade but can become invasive in rich soil; keep it in an out-of-the-way corner. Plant cuttings 3-4 inches below the surface and 8 inches apart in rows that are 16 inches apart. Keep the soil evenly moist during the growing season. Your crop will be ready to harvest in 2 years. Harvest large roots after frost, leaving the smaller roots for the next harvest.

# HOUSEPLANTS/ PATIO PLANTS

Remove your houseplant from its packaging immediately and place in a bright window out of direct sunlight. Water as needed. After several days, sun-loving plants may be placed in direct sunlight. Don't be surprised if some plants lose their leaves due to shipping stress—they are not dying. Keep your plant in its original pot until it has had time to recover from shipping stress and produces two new leaves. Watch watering needs closely while your plant is in a small pot. When repotting, place into a larger pot and water thoroughly. Avoid moving your plant into a very large pot until it is ready or root rot will likely result.

Most houseplants or patio plants thrive on a monthly application of water-soluble plant food. Be sure to follow the feeding directions on the package.

Before freezing weather (below 29°F) arrives, winterize patio plants. Angel Trumpets and Elephant Ears should be brought into your home. If this is not possible, an unheated garage or cool basement would also work. Withhold fertilizer, and water just enough to keep the soil slightly moist. In spring, when the danger of frost has passed, return the containers to their outdoor location and water thoroughly.

When night temperatures drop below 50°F in early fall, plants such as citrus, dwarf banana, dwarf fig, dwarf pomegranate, Mediterranean Olive, Coffee and Sweet Leaf Plant need to be moved indoors. Provide as much sun as possible; a south- or west-facing window is ideal. Avoid areas that would expose your plants to hot dry air, such as near heat registers. Growth will slow down in wintertime. Withhold fertilizer at this time and only water as needed. Return to a patio setting once danger of frost has passed in late spring.

Follo on p char and ' few 1 with are s flowe time in gi with polli polli nuts of wa botto

> Almon Butter Chest

Shel

ľ

Hazel Hicko Pecan Walnu

Walnu

Sets can lat 1-2 Plan mate Onic of the leave few out of 2-3 v skin, bulb

Shal 4-6 i

airy

as th

p the g seat in 2 leavest.

aging adow eded. ay be rised ue to Keep s had ering small

hrive luble ding

er pot

your dy or

19°F) Angel d be possiment , and ghtly frost their

50°F lwarf nate, t Leaf de as st-facvould ch as

y.

down this to a assed

# **NUT TREES**

Follow the general planting directions on page 1 and space as directed in the chart below. Nut trees thrive in full sun and well-drained soil. You can control the few pests and diseases that trouble them with liquid fruit tree spray. Most nut trees are self-fruitful, but the male and female flowers don't always develop at the same time. For best results, plant nut trees in groups of two or more of like variety within 50 feet to increase their chances of pollination. Those not self-fruitful need a pollinator planted nearby. Test harvested nuts for soundness by placing in a bucket of water. Save only those that sink to the bottom. Dry and store in a cool place. Shelled nuts can be frozen up to a year.

## **NUT PLANTING CHART**

Variety	Planting Distance	Approx. Height	Years to Bearing	Average Yield
Almond	25 Ft.	15-20 Ft.	3-7	12-15 Lbs.
Butternut	40-50 Ft.	40-60 Ft.	10-15	50-100 Lbs.
Chestnut	40 Ft.	40-60 Ft.	7+	30-40 Lbs.
Hazelnut	15 Ft.	15 Ft.	3-4	20-30 Lbs.
Hickory	40-50 Ft.	60 Ft.	7-10	25-50 Lbs.
Pecan	50 Ft.	40-75 Ft.	10-15	50-100 Lbs.
Walnut, Blk.	40-50 Ft.	50-75 Ft.	10-20	50-100 Lbs.
Walnut, Eng	. 40-50 Ft.	40-60 Ft.	6-8	50-100 Lbs.

### **ONIONS**

Sets—Plant sets as soon as the ground can be worked. One pint will plant 25 feet at 1-2 inches deep and 3-4 inches apart.

Plants—Plant in early spring, approximately 1 inch deep and 5 inches apart.

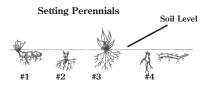
Onions are ready to harvest when 3/4 of the top has fallen over. After digging, leave bulbs in the garden to cure for a few days until roots are brittle. Spread out on newspaper in a dry, dark spot for 2-3 weeks. Then remove dirt and papery skin. Cut tops 1 1/2 inches above the bulb. Store bulbs in mesh bags in a cool, airy spot. Use those with thick necks first as they are likely to be the first to spoil.

**Shallots**—Plant sets 1-2 inches deep and 4-6 inches apart. When foliage starts to

wither, dig bulbs and cure 2-3 weeks before storing like onions.

# PERENNIALS & GROUND COVERS

Perennials come back year after year if left undisturbed. Some do not bloom the first year but develop roots and foliage to support flowers the next year and after. The illustration below shows typical planting depths. The packaging your perennials come in will have detailed instructions for planting depth and spacing.



Set irises and yuccas with roots barely covered with soil (#1). Plant peonies, lilies of the valley and hostas with buds 1-2 inches below the surface of the soil (#2). Set plants with a distinct crown with the crown even with the soil surface (#3). Plant those without a distinct crown, that look like a chunk of root, 1 inch deep. If you can't tell which end is up, lay the root on its side (#4).

Perennials require little care after planting. Mulching helps keep weeds down and retains soil moisture. Fall-planted perennials should be mulched heavily to prevent frost damage. Remove faded and dying flowers often to prolong the plant's flowering period. Most perennials need to be divided every 3-5 years to rejuvenate the plant as it spreads. Ground covers are a special breed of low-growing plant often used on banks and slopes where it's difficult to mow.

Potted Perennials—When you receive your potted perennials, you might find that some of the leaves are yellow or dried. That does not mean the plants are dead. As long as the root system is healthy, upper foliage will soon regenerate. Remove your perennial from the pot it was shipped in by lightly squeezing or tapping medium. Cut or tear off the bottom third of the root ball. Use a trowel or knife to then score a vertical indentation on all four sides of the root ball. This helps the roots to grow directly into the surrounding soil rather than staying in the potting soil they are grown in.

**Ground Covers**—Ground cover plants prefer deeply worked, properly fertilized soil that is free of weeds.

To create the most natural effect, stagger your ground cover plants so individual plants aren't lined up like ranks of soldiers. When planting on a slope, stagger the plant arrangement and follow the contour of the slope. Leave a depression around each plant as a natural basin to hold water.

Spread a 1-2 inch layer of mulch over the area surrounding the plants, being careful not to bury them. This helps to retain moisture in the soil and retard weed growth. Maintain the mulch covering until your ground cover plants have spread over the entire planting area.

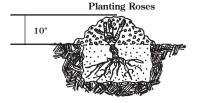
# **POTATOES**

Many varieties of potatoes produce large seed with many growth buds called eyes. In order to achieve greater yields, these larger whole seed potatoes (2" or more in diameter) may be cut into pieces. Be sure that each potato seed piece has at least one or two eyes, cut into sections and allow them to air dry at room temperature for 2-4 days prior to planting.

Potatoes do best in well-drained, wellcultivated, rich soil. Dig a shallow trench about 4 inches wide and 6-8 inches deep. Place cut seed pieces in the trench 8-10 inches apart, and cover with 3 inches of soil. Continue to mound soil about halfway up the stem of the plant as it grows. Ensure that there is enough soil over the forming potatoes so that they do not push out of the hill and get exposed to light. Keep rows weeded, but do not cultivate too deeply and irrigate weekly during dry periods. Harvest young potatoes whenever tubers are large enough to eat, usually 7-8 weeks after planting. Do not dig up the entire plant. Instead, dig carefully around the plant and remove large tubers. The smaller tubers can continue to grow. Dig for winter storage when plant tops begin to dry. Take care not to bruise the skin. Dry for 2-3 hours, then store in a cool, dark, well-ventilated spot.

#### ROSES

Soak bareroot roses in water for several hours before planting. Plant in a sunny, well-drained spot in early spring. Place



the joint or bud union 1 inch above the ground in warm regions and up to 2 inches below the ground in cold areas. Mound 8-10 inches of soil around the top of the plant and leave until new growth appears (see illustration above). This protects the bud union, where most canes originate, and helps roots get established before top growth begins.

Once new growth appears, carefully remove the soil mound and add mulch. A 2- to 4-inch layer conserves moisture and helps keep weeds down. Water to supply the equivalent of 1 inch of rain weekly, soaking soil to a depth of 8-10 inches. Fertilize after pruning in early spring and just before plants bloom. An additional feeding should be given as one flowering period ends to stimulate the next one. However, in cold climates, roses should not be fed after August.

Prune just before new growth begins, as the buds begin to swell. Hold off pruning until danger of frost has passed or newly trimmed tips may be killed. (NOTE: bene after Whe

Clim

of the suck as the brane so aid (see ing r

M.

S)

To i as the prun when Rose region plant coup should be for the general coup and the general coup should be for the general coup and the

Follo

Climbing roses are the exception. They benefit from a light pruning immediately after flowering.)

g dry

vheneat.

o not

care-

large

tinue

when

ot to

then

spot.

veral

inny,

Place

bove

ıp to

reas.

e top

owth

s pro-

anes

shed

efully

ch. A

e and

apply

ekly,

ches.

g and

ional

ering

one.

ıould

is, as

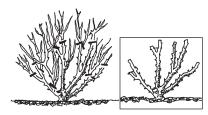
prun-

ed or

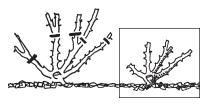
OTE:

When pruning roses, remove 1/3 to 1/2 of the previous year's growth. Trim off suckers (canes emerging from the roots) as they appear. Remove any damaged branches and work to open the plant up so air and sunlight can reach the center (see illustration below). Additional pruning may be needed in cold climates.

#### **Proper Pruning for Roses**



Remove deadwood, weak and twiggy branches and any crossed branches



In cold climates, reduce bush to half the size it was in fall

To improve production, remove flowers as they fade. To keep climbers blooming, prune just above the first five-leaf grouping when the first flush of flowers has faded. Roses need winter protection in northern regions. Mound dirt, leaves or straw over plants or cover with rose cones after a couple of good, hard frosts. (The ground should be frozen to a depth of 2 inches before cones are added.) Lay climbers on the ground and cover with heavy mulch.

#### TREES

Follow the general planting directions

on page 1. Varieties that grow taller than 50 feet are best located at least 30 feet from the street and the house. Larger varieties look best alone; smaller ones are more appealing planted in clusters of two or three. After planting, trunks can be wrapped to protect the bark from sun, wind, insects, rodents and deer. This is best done in fall and should be removed the following spring. Wrap the tree from the ground to the crotch of the first major branches. Most trees are pruned before shipment to avoid damage in transit. However, they may need some additional pruning. Prune out crossed limbs and remove broken or injured branches by trimming just outside the branch "collar"the small, raised area around the branch where it grows from the main stem.

## **SHRUBS**

Follow the general planting directions on page 1. Give shrubs room to grow by setting them rather far apart unless you want to form a dense, upright hedge. It's better to allow too much room than too little since cramped quarters will cause shrubs to lose their natural shape. Set shrubs far enough from the house so that they won't touch the walls when mature. This avoids a cluttered look in the landscape and, more importantly, protects the health of the plants. It permits air to circulate freely, lessening the chance of disease. Never plant directly under the drip line of a roof where shrubs could be damaged by falling icicles or snow. Avoid planting under overhangs where the plants won't get sufficient moisture. Don't place a shrub in an exposed site if it's a variety that needs shelter from winter winds. Most shrubs need very little pruning—just enough to maintain the basic shape of the bush and to keep deadwood trimmed out. Shrubs should not be pruned straight across the top because this spoils their natural habit of growth. Lightly prune early-blooming shrubs immediately after they finish flowering. Midseason and late bloomers can be pruned in late fall after flowering or in early spring.

Hydrangeas—These plants thrive in rich, moist soil and flower freely in sun or shade. Flower color is determined by soil acidity. Where soils are acidic, blooms are blue. Where soils are alkaline, blooms are pink. For pink flowers, sprinkle 1/2 to 1 cup lime around the plants at planting time. For blue flowers, add 1/2 to 1 cup aluminum sulphate. Prune stems which have just borne flowers and leave those that won't flower until next year (see illustration below). Older, darker canes can be removed almost at the ground. Go easy on young, vigorous green shoots; they shouldn't be drastically pruned.



Lilacs—Lilacs prefer cool temperatures and early planting—as soon as the soil can be worked—in a soil pH of 6.0 to 7.0. Never prune lilacs severely—just trim off the old blooms immediately after flowering. It's easy to see where you should make the cut; you'll notice next year's buds developing just below this season's flower clusters (see illustration below). As soon as the blooms are spent, remove them to make way for next year's crop of blossoms.

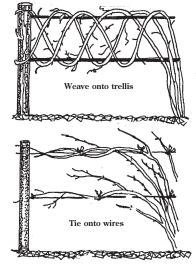


# SMALL FRUITS

Follow the general planting instructions on page 1. Prune any crossed limbs or branches which rub against each other. This lets light into the center of the plant and becomes more important with each successive season as plants get bigger and bushier. Work the soil well so that the plants' roots aren't restricted. Avoid crowding—berry bushes need lots of room because they're heavy feeders, and the brambles put out numerous suckers. Place small fruits away from fruit and shade trees which might need spraying when the berries are ripening.

Blackberries—All brambles require deep, well-drained loam soil high in organic matter. They can't tolerate sandy soil or soil that's so heavy it leaves moisture standing around the roots. Apply a balanced fertilizer at a rate of 10 pounds per 1,000 square feet. Cut plants back to 6 inches and place them in the hole at the same depth they grew in the nursery row. Space blackberries 5-6 feet apart in rows 8-10 feet apart and provide a trellis for trailing types (see illustration below.) Canes can be woven or tied to keep them in place. Do not allow

Training Blackberries



GEN-PG-21.indd 8 12/10/2020 12:24:24 PM

cane ily ar ers ( and type Blue ed w day a wellmatt syste mulo keep top g in ro of or

> Cur wor

ing

inste

In coa this Prum remote on your Boys rows post. ries. the fi

stopp Cove grou build feet l the g a fan long

cane

canes to set fruit the first year. Water heavily and mulch to reduce weeds. Thick layers of shredded bark, leaves, wood chips and hay make excellent mulches for any type of berry.

tions

os or

ther.

plant

each

gger

that

lvoid

ts of

, and

kers.

and

aying

deep,

mat-

r soil

iding

fertil-

uare

place

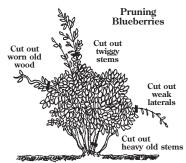
they

kber-

apart

(see

en or allow Blueberries—Blueberries must be planted where they have full sun most of the day and acidic soil (a pH of 4.5-5.5) that's well-drained, porous and high in organic matter. The plants have shallow root systems and must be irrigated. A heavy mulch will help retain soil moisture and keep the roots cool. Prune off half of the top growth and space plants 4-5 feet apart in rows 8-10 feet apart. Incorporate plenty of organic matter in and around the planting holes. Control weeds with mulch instead of cultivation.



In cold climates, blueberries benefit from a thick layer of mulch during the winter. Prune for fewer but larger berries by removing old branches; fruit is produced on year-old wood.

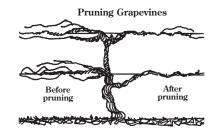
Boysenberries—Set plants 6 feet apart in rows 8 feet apart. Mulch with straw or compost. Culture is the same as for blackberries. Plants can be left to trail on the ground the first season. In the fall, after growth has stopped, prune back half of new growth. Cover with additional mulch just before the ground freezes. When vines begin to bud, build a three-wire trellis with the top wire 5 feet high and the bottom wire 2 feet above the ground. Weave vines onto the trellis in a fan shape. Remove small canes and prune long ones to fit. Do not cultivate. Cut out old canes and destroy them after the harvest.

Cranberries—Grow this ground coverlike plant in an environment similar to blueberries, spacing the plants 3 feet apart. While the plants do not need to be grown in a bog, they do prefer plentiful moisture. Cover the plants when frost threatens in the spring to prevent damage to flowers or fruits.

Currants, Gooseberries and Jostaberries—These plants do best in rich soil that is cool and moist but has good drainage. Plant 5 feet apart, in rows 8 feet apart, in full sun where summers are mild and in a partially shaded location where summers are hot and dry. Trim stems back by 2/3 after planting. Prune in spring after flowering. Fruit is produced on older wood—in the fall, remove any wood more than 3 years old.

Elderberries—Elderberries thrive in moist, heavy soil and do not tolerate drier conditions. Plant 7-20 feet apart in full sun. Plants grow 12-14 feet tall; some pruning is necessary to maintain size and shape. Berries are produced on the end of the current season's growth.

Grapes—Grapes thrive in fertile, well-drained soil. Choose a site that offers protection from wind and late frost. If possible, run vines east/west to reduce shade cast by the trellis. Work in fair amounts of compost before planting but don't overfertilize. Set the plants 8 feet apart in rows 10 feet apart. For the first year, main stems should be allowed to grow unchecked, and vines should be trained on a trellis using two support wires. Prune in winter when dormant but before the weather becomes too cold.



Canes that have borne fruit should be pruned back sharply (see illustration on p. 9). Remove old canes coming from the main stem and leave four new canes (shoots that started to grow the previous spring). The new canes should be cut back to 6 or 8 inches and 3 or 4 buds. These buds, found at the joints, produce the new shoots that bear leaves and grapes the following summer. Four of these new shoots will be used to repeat the same fruiting and pruning process the following winter.

Goji Berries—Plants do best in well-drained soil with moderate fertility. They will tolerate almost any soil type except for wet, soggy soil. Plant 5-8 feet apart in full sun to partial shade. Prune heavily in the fall to maintain plant and increase fruit production. Plants will typically begin bearing fruit after their 2nd or 3rd growing season.

Hardy Figs—This pest-free plant does best in moist, well-drained soil and full sun. Space plants 10 feet apart. North of zone 6, figs may be grown in pots. Bring potted figs indoors during winter months. North of zone 7, plants may die back to the ground unless protected by mulch for the winter.

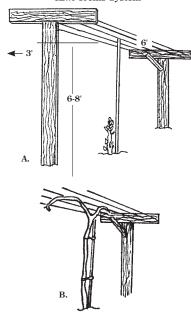
Honeyberries—Plants do best in moderately drained, moist soil. Mulch to retain moisture. Plant in full sun where summers are mild; in partial shade where summers are hot and dry. Set plants 4-5 feet apart, fertilize and mulch annually, and prune to maintain shape. It is best to plant at least two varieties as cross-pollination is required to produce fruit.

Kiwis—Plant in any well-drained soil, mulch to retain moisture and keep plants shaded during the hot part of the day until well established. This is a fruiting vine that requires support, like a trellis similar to one you'd use for grapes, only stronger. (See illustration at right.) Endposts should be 46 inches in diameter and 68 feet tall, with strong wires stretched between them. Place a temporary stake the height of the trellis next to each plant.

The first season's growth should be tied to this stake and allowed to grow to the top of the trellis (see A). Remove suckers and all but four lateral branches cut back to 18 inches, directing the plant's energy toward a single trunk. After the vine reaches a top wire, cut it back 3-6 inches to just above a plump bud. This causes the central vine to split and grow into a Y shape. Train lateral growth to wires but don't allow the two new leaders to twine around the wire supports (see B).

Once trained to a trellis, prune your kiwi regularly. In late winter or early spring, trim away 3-year-old branches (those that have finished a second year of fruiting) and any damaged or twisted wood. Keep fruiting laterals pruned to 12 buds. You should also prune where necessary to keep branches 2 feet above the ground. Hardy kiwi generally begin bearing 3-10 years after planting. The Issai and Arctic Beauty varieties bear within 4-7 years if properly pruned.

Kiwi Trellis System



Mulberries—Mulberries prefer a damp location in fertile, loam soil. Add a generous helping of organic matter to the site before planting and work it in well. Male and female flowers are produced on separate trees, so it is best to plant in groups of three to five to ensure proper pollination. Set plants 15 feet apart or 3 feet apart for a hedge. Water frequently the first few years,

espe Mult years Paw

mois of rofeet is but or mance spells fruit black

Pers

to 30 them ging curlin kill the Water as the until after slight

Rasp bramas you erect a similes 2 and p (NO) to pr

Pull out sucke

the coproduces. L

When canes

been

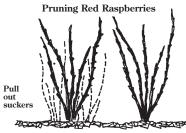
e, cut bud. grow wires twine

reguaway ished ged or necesound. years y varied. especially during fruit development. Mulberries grow 2540 feet tall and bear 4-5 years after planting.

Pawpaws—Plant pawpaws in a fertile, moist location where they will have plenty of room to grow; the trees can reach 30 feet in height. Pawpaws do best in full sun but will tolerate partial shade. Plant two or more for best pollination. Little maintenance is required. Simply water during dry spells and fertilize each spring. Harvest when fruit is soft and coppery brown to almost black.

Persimmons—These trees can grow to 30 feet or more, so be sure to give them lots of room. Plant in full sun, digging a deep hole so the taproot fits without curling. Curling or crowding the taproot can kill the tree. Fertilize and mulch each spring. Water during dry periods. Prune out suckers as they appear. Persimmons do not ripen until late in the fall. The crop is best harvested after a frost, when the fruit is softened and slightly creased.

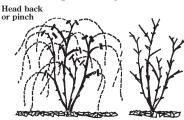
Raspberries—Raspberries are a bramble fruit and should be cultivated as you would blackberries. Plants are more erect, however, and still benefit greatly from a simple trellis. Space red and yellow varieties 2 feet apart in rows 6 feet apart; blacks and purples 3 feet apart in rows 8 feet apart (NOTE: Plant blacks and reds 300 feet apart to prevent the spread of disease.) Except in



the case of fall-bearing types, new canes don't produce fruit and put out few, if any, branches. Little thinning is needed until plants have been in the ground for a few years.

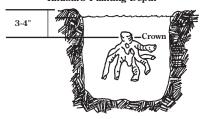
When thinning brambles, leave the thickest canes and remove the thinnest (see illustration above.) Prune red and yellow raspberries back to 8-12 buds on a cane, leaving the thickest canes at least 4-6 inches apart in the spring. Remove the fruiting canes after harvest. Prune blacks and purples when new growth starts in the spring, leaving 10-15 buds per cane and four-five canes per clump. Encourage branching by pinching back the tips of black raspberry plants in late summer (see illustration below.) With reds, remove suckers rather than canes from original plants.

#### **Pruning Black Raspberries**



Rhubarb—Plant divisions in spring, spacing plants 3 feet apart in fertile soil. Position crowns 3-4 inches below the soil surface (see illustration below). Water heavily, cultivate regularly and feed generously the first year. Stalks can be lightly harvested the second year. After that, they may be pulled during a 6-week period from early spring until early summer. Plants can be mowed, dug and divided in either fall or spring.

#### Rhubarb Planting Depth



Saskatoon Blueberries—Native to North America, this hardy shrub provides blueberry-like fruit in harsher climates and drier, more alkaline soils than true blueberries. Plant in full sun to partial shade and water regularly for best fruit production. Prune only to maintain an attractive shape or to remove crowded or damaged branches.

GEN-PG-21.indd 11 12/10/2020 12:24:25 PM

damp genere site Male sepaups of ation. for a

ears,

Strawberries—Strawberries need well-worked soil with good drainage and plenty of organic matter. Add 1 pound of fertilizer per 100 square feet. Plant so that the crown is even with the surface of the soil and make sure all the roots are covered.

Junebearing strawberries produce a single crop. Everbearers produce one crop during the regular strawberry season and another smaller one later in fall, plus a few fruits in between. Day neutrals are the truest everbearers, producing fruit spring, summer and fall.

Set strawberries 15-24 inches apart, water well and mulch with straw. Remove blossoms from Junebearers the first year. Remove everbearer and day-neutral blossoms until July 1, then allow the plants to set fruit. This allows the plants to become established so they'll set far more berries the second year than they ordinarily would have. Water them well, keeping the top 2 inches of soil evenly moist all season long. Protect in cold climates with a winter mulch.

## VEGETABLE PLANTS

If your vegetable seedlings arrive on a cloudy day, plant them right away. If it is hot and sunny, wait to set the plants out until late afternoon or early evening, digging to the correct depth and spacing for each. Fill the holes with water and let it soak in. This first soaking gives the roots plenty of moisture to get seedlings off to a good start. Set the plants in the holes and firm the soil around them to remove air pockets. Leave a slight depression around each plant to collect and hold moisture; water well. If temperatures still dip below freezing at night, protect newly planted seedlings by covering them with protective caps or floating row covers.

### **VINES**

Plant vines a minimum distance of 1 foot from the house to ensure adequate air circulation. After they're planted, cut them back and stake them securely. Lightly firm the soil around the roots and fertilize after new growth appears. Remember that climbing vines need plenty of water and well-drained soil.

Bittersweet—This vine does well in poor soil and full sun to shade. Both a male and female plant must be planted for fruiting to occur. Great for fences, rock piles or old trees.

Clematis—A key essential to establishing your clematis plant is to make sure the root system is kept cool. A sunny location where roots can grow under a cool covering, such as other perennials, mulch or a large flat rock is ideal. Deep planting—about a half inch deeper than it was grown in the nursery—encourages extra-strong root development. Frequent, thorough watering stimulates vigorous growth.

**Honeysuckle**—This twining vine needs full to partial sun and a sturdy support such as a fence. Prune in spring, removing deadwood or broken vines.

**Hops**—Lay root cuttings on their side in a 6-inch trench, covering them with 2 inches of soil. Gradually fill in trench as the vine grows. Keep well watered.

**Silver Lace**—Another twining type, it adapts to most conditions. Provide good support and prune in late fall or early spring.

**Trumpet**—Place in full sun and secure to a support. This vine can take 3-7 years to bloom after planting. Prune vigorously in spring, as it flowers on new growth.

Wisteria—Wisteria prefers slightly acidic, organic soil and flowers 3-5 years after planting. Provide a sturdy support and trim back aggressive growth during the summer. Regular pruning in spring encourages formation of flower spurs.

#### WINDBREAKS

Plant windbreaks to the north and west of the area you're planning to shelter. The first row should be planted 100-150 feet away from the house or building to be protected. Follow the general planting directions on page 1. Trees will grow two to three times faster if weeds are kept down the first 2 years.

© 2021 Gardens Alive, Inc. All rights reserved. Gurney's® is a registered trademark of Gardens Alive, Inc. Printed in the USA. GEN-PG-21