GROWING ROSES IN WASHINGTON STATE: PLANTING ROSES

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Growing Roses in Washington State: Planting Roses

Roses are arguably the most attractive and favorite flowering shrub of Washington State home gardeners. Roses can be grown successfully in most regions of the state, but proper site selection, soil preparation, plant choice, and planting are important parts of that success.

Site Selection

Generally, roses grow and bloom best when provided with full sun, although they will still perform satisfactorily when provided with a minimum of 6 hours of direct sunlight a day. When full sunlight is not available, morning sun is preferable to afternoon sun. This is so leaves that are wet from the morning dew will dry off quickly, decreasing the chance of fungal disease infection.

Poor air circulation can contribute to problems with powdery mildew and other troublesome fungal diseases. Thus it is important to select a planting site with good air circulation, such as a spot that is not surrounded by buildings or plants or below the canopy of trees, the exception to this would be when strong winds could damage the rose canes or leaves. This may mean providing shrubs with some type of protection from the wind, such as a fence, building wall, or hedge.

Roses do not do well with “wet feet” or having their roots in standing water, especially during the winter. It is crucial to find a site that has good drainage. If the soil is very slow to drain, consider planting the roses in raised beds. Another factor to consider when selecting a site for planting roses is competition. Do not plant roses where they will have to compete with other trees and shrubs for space, light, water, or nutrients.

Finally, give your roses adequate space to grow. Planting roses too closely together reduces air circulation and exposure to sunlight, plus makes them more difficult to maintain.

What are Species, Modern, and Old Roses?

Roses are flowering, woody perennial shrubs. Botanically, roses are members of the genus *Rosa*, which is in the Rose family (*Rosaceae*). Species roses are naturally occurring species that have developed in nature in the Northern Hemisphere. Roses have been cultivated by man for thousands of years. Over time, many different hybrids and cultivars (cultivated varieties) have been developed.

Modern roses are considered to be roses bred and cultivated after 1867, the year when the first Hybrid Tea rose was developed. Groups of roses classified as modern roses are Hybrid Tea, Grandiflora, Miniature, Polyantha, Mini-flora, Floribunda, Low-growing Landscape, Shrub, Canadian Explorer, Parkland, Climber, and Rambler Roses. Many of these groups are repeat or continuous bloomers.

Hybrids and cultivars developed prior to 1867 are referred to as heritage, heirloom, or old garden roses. Heritage roses are broken into different groups for classification. Groups include Gallica, Damask, Centifolia, Alba, Moss, China, Tea, Noisette, Portland, Bourbon, and Hybrid Perpetual Roses.
A good general spacing is 3 feet apart for most hybrid tea, floribunda, and grandiflora roses. For other types of roses, check the supplier’s recommendations.

Soil Preparation

Rose shrubs prefer a fertile, slightly acid to neutral soil that is high in organic matter; however, they are tolerant of a variety of soil conditions. Before planting or applying fertilizer, it is advisable to have a soil test done to determine the soil’s current pH and nutrient levels. Whether planting roses directly in the soil or in raised beds, consider adding organic matter prior to planting if a soil test indicates a need for organic matter. A level of 5%–10% organic matter is ideal. Excessive organic matter can lead to drainage problems and nutrient overload. If needed, work a 1- to 2-inch layer of finished compost into the soil prior to planting. Loosen the soil to a depth of at least 12 inches if possible. If there is sufficient organic matter in the soil, apply a mulch of compost or wood chips after planting.

Consider having the soil tested at a soil-testing laboratory if you are unsure of the nutrient levels and pH in the planting bed. The local WSU Extension office can provide the location of analytical laboratories in the region that perform home garden soil tests.

Grafted Roses

Many roses available to gardeners are grafted. This horticultural process involves taking a bud of a desirable rose cultivar and placing it onto the roots of species roses, such as *Rosa canna* or *Rosa laxa*. Species roses tend to have more vigorous root systems than the more desirable cultivated varieties (cultivars), resulting in stronger and more vigorous plants.

The location on the stem where the bud is placed is called the bud union (or graft). This will be a swollen area near the base of the plant (Figure 1). Growth (canes, foliage, and blooms) that occurs above the union will be the desired cultivar.

![Diagram of own root bare-root rose and grafted bare-root rose](image-url)
Sprouts or suckers that develop from below the union come from the rootstock. The species rootstocks usually have less desirable growth habits, leaves, and flowers than that of the desired top cultivar. When a rose plant seemingly changes flower colors, such as when a pink hybrid tea rose begins to have red flowers, it means the graft union has failed and the foliage and flowers can be attributed to the rootstock.

**Own-Root Roses**

Own-root roses are plants that are not grafted. These are plants of desirable cultivars that are started from rooted cuttings and grown on their own roots. Because there is no graft, there is no swollen area or bud union at the base of the plant (Figure 1).

When gardeners decide to plant roses, understanding the advantages and disadvantages of grafted versus own-root roses will increase growing success. Table 1 summarizes the advantages and disadvantages of both grafted roses and own-root roses.

There are three grades of grafted bare-root roses, 1, 1.5, and 2. The grade should be indicated on the package or in the catalog. Grade 1 roses are 2-year-old plants with three or more strong canes. A balanced plant with evenly spaced canes is best. Grade 1 roses are considered the best grade and will be the most expensive, but are the most likely to thrive. Grade 1.5 roses are also 2-year-old plants with at least two strong canes. Grade 2 plants must have two canes, but these tend to be weaker plants that should be avoided.

**Purchasing Roses to Plant**

Roses can be purchased from a wide variety of sources, including mail order companies, local nurseries and garden centers, hardware and big box stores, and even grocery stores. Plants are usually sold as bare-root plants in packages, individually potted plants, or boxed. Each are handled and planted somewhat differently. Potted plants are available at nurseries throughout the growing season. They are best planted early in the growing season to help establish root growth before the heat of the summer months. Bare-root plants are dormant plants that should be planted in early spring before new growth begins.

<table>
<thead>
<tr>
<th>Grafted Roses</th>
<th>Own-Root Roses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Most modern rose cultivars are grafted onto rootstocks, but an increasing number of producers are offering the same cultivars as own-root roses.</td>
<td>Most heirloom or old garden roses are grown on their own roots. David Austen roses are primarily grafted, but some are becoming available as own-root roses.</td>
</tr>
<tr>
<td><strong>Advantages</strong></td>
<td><strong>Advantages</strong></td>
</tr>
<tr>
<td>Depending on the cultivar, tend to be more vigorous with more flowers.</td>
<td>If killed back to the roots by winter damage, regrowth from the root system will be the same cultivar.</td>
</tr>
<tr>
<td>Are generally more vigorous and can be grown to a desirable size more quickly, as a result they tend to be less expensive than own-root roses, which stay in the nursery longer to develop an adequate root system and stronger plant.</td>
<td>Suckers that come from roots will be the same cultivar as planted.</td>
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<tr>
<td>Tend to have a better, more developed root system</td>
<td>Plants tend to be longer-lived than grafted roses.</td>
</tr>
<tr>
<td>May be the only way to commercially produce some cultivars that have very weak root systems.</td>
<td><strong>Disadvantages</strong></td>
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<tr>
<td><strong>Disadvantages</strong></td>
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<tr>
<td>Rootstock may send up suckers that have different flowers and leaves than the desirable top cultivar.</td>
<td>Depending on cultivar, tend to be less vigorous.</td>
</tr>
<tr>
<td>Rootstock will usually takeover when top of plant and graft are killed by winter temperatures</td>
<td>Depending on cultivar, tend to have poorly developed root systems.</td>
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<tr>
<td>Potential incompatibility between the rootstock and top cultivar can result in poor plant performance or the loss of the top cultivar.</td>
<td>In the nursery, the plants take longer to produce an adequate size plant with a good root system, making the plants more costly to produce.</td>
</tr>
<tr>
<td>Greater chance of introducing virus diseases to plant by not using clean tools for grafting or not using virus-free rootstock</td>
<td>Grafted plants tend to be shorter lived</td>
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</table>
Bare-Root Roses

Bare-root roses are dormant plants with their roots packed in various types of moist packing materials, such as sawdust, peat, or sphagnum moss. The canes of bare-root roses should be green, not shriveled, and have green buds that have not begun to swell. Sometimes, the canes and buds will be coated with wax to prevent drying. This wax will usually break down and slough off with time once the plant begins to grow. Do not attempt to remove it.

Examine the roots in the package, and look for plants with well branched, fibrous root systems. When purchasing plants from a retail outlet, avoid any that are no longer dormant and have new growth sprouting. This shoot growth uses stored carbohydrate resources and limits resources available for potential root growth and establishment.

Have the planting bed or holes ready when bare-root roses arrive. Whether purchased locally or mail-ordered, plant bare-root roses as soon as possible. If it will be a day or two before planting, the plants should be stored in a cool (40 degrees), dark location so they will remain dormant. Also, check the packing material to make sure the roots are still moist.

Planting Bare-Root Roses

When ready to plant, carefully remove the packaging and the packing materials from around the roots. Soak the roots for a period of several hours (but no more than 12 hours) in a bucket of clean, tepid water. Immediately prior to planting, remove the plant from the water and trim the roots using clean pruning shears to remove any dead, damaged, or broken roots. Prune broken roots just above the break. Cut back any extra-long, straggly roots to a length of no less than 10 inches.

The planting hole should be wide enough and deep enough to comfortably accommodate the root system (Figure 2). A hole 24 inches wide and 12 inches deep is generally adequate, but should be no deeper than the distance from the bud union to the base of the roots. Before placing the bare-root plant in the planting hole, place a mound of soil in the bottom hole to make it easier to place the plant.

Rotate the plant so that the larger canes are facing the backside of the bed and the smaller canes are facing forward. As you place the plant on the mound of soil in the hole, spread the roots out evenly over the mound.

The depth of planting is dependent on the climate in each region of the state. In milder regions of the state where winter injury to roses is not usually a concern, the bud union at the base of grafted plants should be at soil level. In colder parts of the state (USDA Plant Hardiness Zones 7 and below) where winter temperatures predictably drop below 20 degrees, the graft should be 1 to 2 inches below the soil. Bare-root own-root roses should be planted at the same level that they were growing in the nursery, with the roots just below the soil.

Fill 2/3 of the planting hole with the original soil that was removed from the hole. Stop and add enough water to fill the hole and then let the excess water drain. Fill the hole completely and water again to help settle the soil around the roots and remove any air pockets. Do not press down or firmly on the soil when wet, as this compacts the soil and forces the oxygen out of soil pores.
The final step in planting bare-root roses is to mound soil or mulch over the base of the plant, covering the lower half of the shrub. This prevents the canes from drying out. Keep the soil or mulch moist until new growth begins in several weeks. Once shoots and leaves begin to develop, carefully remove the mound (Figure 3).

Remove the pot before planting and gently loosen the roots, then remove as much of the media as possible. Encircling roots should be cut off if they cannot be loosened from the soil ball. If grafted, the graft should be the same as indicated for bare-root roses. Plant own-root roses at the same level they were in the nursery.

### Planting Boxed Roses

Sometimes roses are offered for sale with their roots boxed, along with directions to plant the rose with the box and all. Experts recommend against planting roses in boxes because the plant will not establish as quickly as bare-root or potted roses. This is because the box must decay before the roots can grow out into the surrounding soil. In the drier areas of the state, boxed roses fail for many gardeners because it takes too long for the box to decompose. Remove a boxed plant from the package and any media surrounding the roots and simply treat like a bare-root rose (Figure 4).
Care Immediately After Planting

After the soil is settled and the planting is complete, check to make sure the bud union of grafted plants is at the recommended placement. It is important to have the graft at the desired depth. Replant if necessary.

The next step is to prune any damaged or broken canes to below the injured area. On dormant, bare-root plants, prune canes back to a length of 6 to 8 inches, leaving at least three to five buds per cane. Prune off ends of canes that were shredded by mechanical pruners. When pruning, it is best to prune back to an outward facing bud. Make the pruning cut 1/4 inch above the bud at a 45 degree angle sloping away from the direction the bud is pointing.

After Planting

Whether bare-root or potted, remove any wires or tags still on the plant. Wires that are left on for several growing seasons may girdle the stem, causing damage. Check the soil moisture frequently, being sure to keep the soil in the root zone slightly moist so the roots can grow and become established.

Further Reading


University of Illinois Website. Our Rose Garden.

USDA Plant Hardiness Zone Map.
Use pesticides with care. Apply them only to plants, animals, or sites as listed on the label. When mixing and applying pesticides, follow all label precautions to protect yourself and others around you. It is a violation of the law to disregard label directions. If pesticides are spilled on skin or clothing, remove clothing and wash skin thoroughly. Store pesticides in their original containers and keep them out of the reach of children, pets, and livestock.