How to Prune Tomatoes

Do you want your tomato vines to be healthy and productive all summer? It helps to prune them. Here’s how to do it:

**Know which type of vine you are growing.** This makes a big difference. Varieties with determinate vines are compact and require minimal pruning. They grow no more than 4 feet tall and set a concentrated harvest of fruits. Popular determinate varieties include ‘Celebrity’, ‘Mountain Fresh Plus’, ‘Roma’, ‘Sheyenne’, and bush types such as ‘Better Bush’ and ‘Patio’.


**Remove the lower leaves.** After you trellis your vines, remove any leaves that touch the soil. These leaves become shaded, attract diseases from soil debris, and reduce air circulation in the planting.

**Find one good sucker.** Understand that each tomato leaf is a compound leaf, usually consisting of five to nine leaflets. Suckers form at the base of leaves (see drawing).

Find the first flower cluster. Below it is a sturdy sucker that can produce lots of fruits. Let’s call this Sucker One. We want to keep it.

Remove all suckers below Sucker One.

If you have a determinate variety, you are done pruning for the summer.

If you have an indeterminate variety, you need to remove the suckers above Sucker One as well. This will leave us with two stems: the main stem and Sucker One.

Undesired suckers are removed every week or so. You can be less aggressive at removing the higher suckers if you feel your vines are thin.

**Prune suckers when they are young and dry.** Prune suckers when they are about 3 inches long. Larger suckers will create larger wounds. Snap suckers off using your fingers or cut them with a scissors or pruners.

Prune suckers when vines are dry to prevent spreading diseases.

**Trim back overgrown plants later this summer.** Trim back vines if they are growing over your trellis.

Also, you can snip off the leaders of vines 30 days before frost is expected. This will channel the vine’s energy into ripening fruits rather than producing more leaves.

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The Toughest Shrubs

Do you need to select a tough shrub for your yard? Don’t go to your local garden center for inspiration. Go to the nearest gas station.

Gas stations are where plants go to die. Shrubs at gas stations are totally neglected. They are never watered and are surrounded by heat-trapping rock mulch. The air is polluted, and the soil is soaked with gas and salt. Shrubs at gas stations are never pruned—usually they die first.

Any shrub that can survive at a gas station can survive in your landscape. The next time you fill up your car’s gas tank, take a moment to see if any of the plants nearby are surviving. You likely will see one of these rugged shrubs:

The toughest shrub may be Japanese barberry (Fig. 1). These durable plants come in a wide range of colors including purple, yellow and green. Barberry can withstand heat, drought and poor soil. Its stems have sharp spines that make it deer-proof. Some scientists classify barberry as an invasive “weed,” but that is not always a bad quality. It’s hardy to Zone 4.

A rugged shrub with beautiful flowers is potentilla (Fig. 2). Its bright golden flowers adorn the shrub all summer long. Native to our area, it thrives in our harsh climate.

Pink-flowering spireas (Fig. 3) are tough plants. Some spireas have green leaves while others have gold leaves. The most vigorous varieties have dark green leaves. These leaves are packed full of chlorophyll, which produces energy for plants. Keep in mind that gold-leaf spirea and other gold-leaf shrubs don’t have as much chlorophyll and are naturally weaker. Spireas are hardy to Zone 4.

If you need a hardy shrub with purple leaves, a great choice is ‘Diabolo’ ninebark. It’s tough as nails.

If you want a shrub with fruits, consider aronia (Fig. 4). It is pest-free, grows quickly, develops blueberry-like fruits (unfortunately they taste bitter), and has red fall color.

Everyone loves roses, but most roses require lots of maintenance. Consider the rugosa rose (Fig. 5). These plants tolerate heat, drought, salt and wind—hey, that makes them perfect for us in North Dakota! Some varieties bloom all summer and have scarlet rose hips in winter. Popular selections include Blanc Double de Coubert (white), Therese Bugnet (pink), Lotty’s Love (purple) and Fru Dagmar Hartopp (light pink).

If you need an evergreen, nothing is tougher than junipers (Fig. 6). These shrubs are hardy, tolerate drought, and survive in saline soils.

These “gas station plants” can survive the most brutal conditions your landscape can offer. But don’t treat your landscape like a gas station. Show a bit of love to your plants and they’ll reward you many times over.
Trees and Shrubs

Cankers on Poplar
Fungal pockets in trunks and branches stop the flow of water and nutrients. Plants die back. Cut out the cankers going at least 8 inches (more is better) into healthy wood. Infected trunks are often removed.

Spruce Sawfly
Yellowheaded spruce sawfly defoliates spruce, beginning with young needles. Insecticidal soap kills young larvae. Carbaryl, acephate or cyfluthrin is recommended for large infestations.

Dutch Elm Disease
A major branch shows yellowing and wilts. Take a one-inch-diameter sample and look for brown streaking in sapwood and beneath bark. Prompt removal of the tree is recommended.

Aphids
Pry open the curled leaves to reveal the pests. Aphid excrement is sticky and glistens; it may attract ants. Aphids cause little damage. Leave them alone or spray them with a jet stream of water. Acephate may be justified for young trees.

Rose Mosaic Virus
Unusual bands, splochtes or rings appear. The virus infects the entire plant and cannot be cured. Remove the plant once it loses vigor. This virus does not spread to other roses or other plants.

Wooly Oak Gall
Fuzzy balls appear, especially on leaf midribs. Inside is a developing wasp. The gall will drop off and an adult wasp will emerge. These galls are virtually harmless and no treatments are needed.

Petiole Galls on Poplar
Bumps appear on petioles, and the leaves may drop. Aphids develop inside galls and later emerge to feed on mustards. Defoliation is minor. Rake leaves. No pesticides are needed.

Bumps on Tree Leaves
Mites or psyllids pierce leaves, creating bumps. Silver maple, hackberry and linden are often affected. Damage is mostly aesthetic, and pesticides are not required.
Plant Health Care

Fruits and Vegetables

Herbicide Injury in Gardens
Exposure to pesticide drift or pesticide-contaminated manure/clippings may cause curling of foliage. Potato and tomato vines are very sensitive. Plants will be stunted and yields may be poor.

Cabbage Moths
White moths are beginning to lay eggs on cabbage and broccoli. Eggs hatch into larvae that create tunnels. Spray with Bacillus thuringiensis while caterpillars are small. Use carbaryl or pyrethroids on mature caterpillars.

Fire Blight on Raspberry
Cane tips appear scorched and will curl downwards into a shepherd's crook (see arrow). It is difficult to save infected plantings. Prune canes down at the base. Disinfect pruners between cuts using a solution of 1 part bleach, 9 parts water.

Plum Spindle Gall
Eriophyid mites fed on the leaves in spring, causing a reaction that led to unusual columns forming. Fruits are edible. Damage is cosmetic and no pesticides are needed.

Chokecherry Leaf Holes
Infected spots fall out of chokecherry and plum leaves, creating shotholes. Rake leaf litter. Keep foliage dry. Inspect branches for cankers; remove if found.

Colorado Potato Beetle
Scout for orange eggs now on leaf undersides. Squish eggs; remove larvae (shown inset). Sprays of spinosad, neem, cyflurin and esfenvalerate are effective, especially before adults mature.

Apple Maggot
Flies are laying eggs now. Apple maggot traps can be hung to monitor for pests. If flies are found, spray at 2–3 week intervals using malathion, carbaryl or a pyrethroid.

Herbicide Injury on Apple
Leaves become elongated, curled or cupped. Most trees survive. In the future, use herbicides only when needed. Spray when wind is minimal and avoid hot days.
Weather Almanac for July 1–July 7, 2019

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\(^1\) Temperatures are specified by the photographers.

\(^2\) Daytime temperatures range from about 6 to 30°F.

\(^3\) Rain data begin April 1. GDDs for garden vegetables are not available. GDD data in this table are for corn, which responds to temperature as most vegetables grown in gardens. Data begin May 1 with base minimum and maximum temperatures of 50 and 86°F., respectively.

\(^4\) Rain data by North Dakota Agricultural Weather Network, www.sunrisesunset.com, and National Weather Service, respectively.

\(^5\) Rain data begin April 1. GDDs for garden vegetables are not available. GDD data in this table are for corn, which responds to temperature as most vegetables grown in gardens. Data begin May 1 with base minimum and maximum temperatures of 50 and 86°F., respectively.

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