

Survival Gardening: How To Plan Your Low Water Garden

[Droughts](#) are becoming more common. The impact of droughts on food production is very real. After all, plants need water to grow. But, you don't always need a ton of water to grow food. That's where low-water crops come in. They can produce food for your family to eat without taking nearly as much water.

If you don't have a large water stockpile, or you are concerned about a coming drought, it might be time for you to switch to a low-water garden.

Low-water gardens are designed to receive significantly less water than a traditional one. The soil, coverings, and seeds are all meant to work together to minimize your water needs.

Also known as dry farming, this method is a return to the roots of agriculture for many locations. Before dams and irrigation innovations, farmers didn't have the access to water. They planted, gave an initial soaking, and then let the plants tend to fetching water for themselves.

Winter is a great time to plan your low-water garden. But, no matter the season, here are some essentials to consider when working on this type of garden.

The Soil Is Essential

The quality of soil in your garden will help stretch the length of time between watering sessions. [You'll want plenty of compost and organic material in your soil.](#)

This will help absorb water and slowly release it. You'll also want some coarse sand in your soil. Sand helps draw in any moisture that does fall, so you'll maximize the benefit of

rain.

Clay is another component of low-water garden soil. The clay will hold the water, and slowly give it to the plants' root systems.

You'll want to thoroughly mix your soil, incorporating all the elements evenly. That way all your plants will grow well. Loose soil is recommended for this type of gardening, so tilling your soil to a depth of four to six inches will help.

Unfortunately, making the exact soil combination that you need for your climate will take time. There isn't one perfect formula that'll work everywhere.

[Set up highly nutritious soil for your plants! Get your A to Z guide on survival gardening!](#)

You Can't Skip the Mulch

In a low-water garden, [mulch](#) isn't just a suggestion. It's essential. You need this soil covering to ensure the water stays where it belongs.

Without mulch, you'll lose precious water to run-off. Evaporation will also be a problem.

A good layer of organic mulch prevents both of those from occurring. It'll keep the water around the plants longer, and allow it to soak deeply into the soil.

Mulch Much?

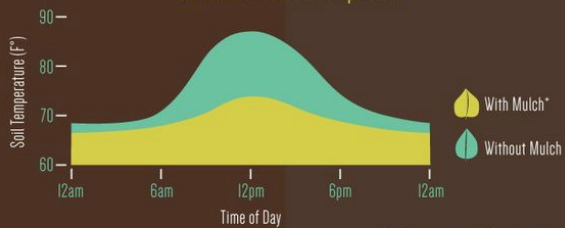
Mulch vs. No Mulch

Moisture Retention and Yields



Mulch Keeps Your Soil Cool

How Mulch Affects Soil Temperature



Pine Straw

Make sure to use with acid loving plants such as blueberries, strawberries, garlic, and potatoes!



Grass Clippings

Free and accessible! This type of mulch also adds nitrogen and nutrients to your garden.



Leaves

There are little to no drawbacks when mulching with leaves! Mowing them first helps to release moisture.



Newspaper

Particularly helpful at keeping weeds at bay. Helps to retain moisture if your garden is in a very dry location.



Compost

You can save and use your kitchen waste, or check around for chicken, horse, cow, or rabbit manure!



Wood Chips

Wood chips, shredded wood, or saw dust helps to keep your garden's soil moist and cool!



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What Plants to Choose

When picking plants, be sure to check out the hardiness zone recommendations so you don't plant something that won't grow well in your area. There are a variety of crops to pick from that don't take as much water.

You can also have a long-term vision when creating a low-water garden. If you have plenty of water now, you can plant some perennials that will take water initially. Once those plants are established, their water needs drop substantially.

For both long and short term planning, here are some crops to consider:

Grains

If a drought happens, you won't be able to depend on large grain producers to keep on growing. Even if you don't regularly plant grains, you'll want to have some low-water seeds stored on hand. That way you have them when you need them.

A bonus with these grains is they're easier to harvest than wheat. Many take minimal processing before being ready to eat. These grains would be a good addition to your low-water garden crops:

- Amaranth
- Buckwheat
- Quinoa
- Field Corn

Vegetables

Vegetables are a great way to add variety and nutrients to your diet. Here are some excellent options for a low-water

garden.

- Jerusalem artichoke (this takes more water the first year, but once it's established it needs very little.)
- Sweet potatoes
- Swiss chard
- Peppers
- Asparagus (another long-term crop)
- Drought tolerant zucchini

Fruits

To add some natural sweetness to your diet, be sure to include some fruits in your low-water garden. Here are some plants that grow well with little water.

- Watermelon
- Figs
- Pomegranates
- Most pit fruit trees (once established)
- Rhubarb (once established)

Legumes

Many legumes don't require much water. Consider adding these to your garden:

- Black eyed peas
- Chickpeas
- Tepary beans

Think Native

If you head to a natural area nearby, what plants are you going to see thriving? Chances are many of those are [wild edibles](#). Take time to learn about plants native to your region.

Some of the plants considered weeds by many will be the perfect purposeful addition to your low-water garden. After all, no one is out in the woods irrigating the weeds. They just grow.

If you can't find any seeds for these plants, try to dig up some established ones and transplant them. That way you'll get a variety that grows well in your area.

You might even have a separate area where you encourage these plants to grow. That way they don't take over your dedicated garden space. That will also help spread out your gardening efforts and minimize your risk of losing everything from theft. [Hidden food sources](#) are wonderful!

- Burdock
- Dandelions
- Lamb's quarter
- Stinging nettles
- Plantain

Shopping for Seeds

When selecting varieties, you'll want to go with heirloom seeds. Many modern versions of these plants have been altered and turned into very needy seeds. This is especially true with [corn](#).

Back in the day, irrigation options were very limited. Plants often didn't get much water unless it rained. You want plants that survived then—not the needy variations humans have turned those plants into.

The one exception would be plants that have been selectively bred for dry-land planting. You can often find drought-resistant varieties of many of your favorites.

Another tip is to plant mini-varieties of the plants you most

want to grow. For instance, it takes much less water to grow a cherry tomato than it does a beefsteak. Planting a few of your favorite water-loving plants in the mini-form will help you keep from feeling deprived with your garden.

Save Your Seeds

By [saving your own seeds](#) each year, you'll be selecting varieties that did the best in your soil. Over time, your seeds will be essential to increasing your yield. They are locally adapted plants that thrive in your garden.

[Get your step-by-step instructions on how to plant over 125 plants inside your garden!](#)

Companion Planting

The Native Americans knew much about growing food. One method they used is known as the three sisters. This method of companion planting grouped plants together to maximize their yield.

Corn, beans, and squash were the original three sisters. These crops work together in harmony. The beans give nitrogen to the soil, which the corn and squash need. The beans grow up on the tall corn stalks, reducing the need for additional scaffolding.

Finally, the low-lying squash leaves protect the soil from the sun's rays and help ensure water doesn't run-off.

Planting companion crops will also help you plant more in a smaller space. This is essential if you're just getting your low-water garden established and don't have much soil built up.

VEGETABLE BEST FRIEND PLANTING SUGGESTIONS

Flats	Good Companions	Bad Companions
 ASPARAGUS	 PARSLEY, THYME	
 BASIL	 TOMATO, ONION, ARUGULA	
 BUSH BEANS	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 BEETS	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 CABBAGE FAMILY	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 CARROTS	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 CELERY	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 CORN	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 CUCUMBERS	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 EGGPLANT	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 GARLIC	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 KOHLRABI	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 LEEKS	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 LETTUCE	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 MELON	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 ONION	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 PARSLEY	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 PEAS	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 POTATO	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 RADISH	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 PUMPKIN	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 RADISH	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 SPINACH	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 SQUASH	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 SWEET AND TURNIPS	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 STRAWBERRY	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP
 TOMATO	 BUTTER BEANS, CARROTS, CUMIN, CORIANDER, DILL, FENNEL, GARLIC, LEMON, PARSLEY, SAGE, THYME, YARROW	 ONION, GARLIC, RADISH, TURNIP

Give Plants Space

Because your dry land plants will need to establish a deep root system, you can't plant individual plants or companion groupings as closely together as you do in a traditional garden. That means your yield won't be the same.

When to Plant

Your soil needs to accumulate the winter moisture. This built-in reserve is what will get your plants through until harvest.

If you wait too long to plant, your soil will be too dry. Conversely, if you plant too early you risk a killing frost freezing your garden.

When you plant your seeds, you want the soil to be nice and moist. Keep an eye on both the weather and the soil. You'll want to plant after the last killing frost, but before the daytime temperatures get so high that they dry up your soil.

Once planted, you need to seal in the moisture in the ground by applying a good layer of mulch. Have your mulch on hand and ready to go before you plant.

Caring for Your Low-Water Garden

Low-water gardens are easy to care for once they're planted. You don't want to water most of them, because you'll risk cracking the dry soil. Cracked soil loses moisture much faster than soil that isn't cracked.

Any watering that you do for your long-term plants that are just getting established needs to be done gently. You can't turn a hose on full-blast. Rather, gently water the soil around the plant instead of the plant itself.

You don't want to overwater any of the low-water varieties you are planting. Plants that don't get watered will grow a deeper root system than ones that are frequently watered. You want to start your plants off trying to seek water from the ground.

Besides doing less watering, low-moisture gardens bring a couple of other benefits. They take much less time than a traditional garden.

For instance, you'll notice that you won't get as many weeds in a low-water situation once your plants are up. There just won't be enough water for them to grow.

But, you'll want to pluck out any weeds that do creep in. You'll also want to be diligent about weeding as your plants are just sprouting. That way weeds aren't competing with your plants for resources.

Many garden pests thrive in moist environments. They'll often leave your dry land crops alone. So you'll have fewer to deal with.

You might notice your plants starting to shrivel up before harvest. The leaves may turn brown and you might see spots. These are typical signs in a low-water garden, and they don't necessarily mean you're going to lose your harvest.

Are you a dry farmer?

What tips can you add to help others get started in this style of gardening? It's a different approach to growing food, and everyone can benefit from you sharing your knowledge.

[Start growing your survival garden that will keep you and your](#)

[family fed for life!](#)

*This article has been written by **Lisa Tanner** for Survivopedia.*