

# Top 4 Projects For Off-Grid Gardening

*On my journey to self-reliance, I read endless books, attended many dozens of classes, and spent a small fortune to realize my dream of living off-grid. But I kept encountering the same troublesome snags...*

Like most Americans, I'm not wealthy and couldn't afford to simply write a check for a turnkey homestead. Now I'm glad I couldn't. Because if I had, it probably wouldn't have worked in the first place.

Why?

Because self-reliance isn't something you can buy. Instead, it's something we must build ourselves.



## 3 Easy Projects That Instantly Slash Your Water Bills

>>FREE REVEAL<<

Today, there seems to be too much emphasis on highly specialized time and labor-saving gadgets that only do one thing but do it well. Often this works fine. But at a price.

That's because when your circumstances change it's the highly specialized who struggle most. While the "Jacks of all trades" prosper.

So, without further ado, here's your first project.

# Vertical Outdoor Farm

The world's population is expected to grow by another 2 billion in the next 30 years or so. This will invariably lead to more industrial development and urbanization that, in turn, will lead to the loss of arable land. Of which, we've already lost a third over the past 40 years or so. As a result, increasing food demand along with ever decreasing arable land poses one of the greatest challenges facing us today. So, how can we solve it?

One option is to grow vertically.



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What's more, vertical farming does this by using up to 70% less water than what's required for normal cultivation.

You can also add an automated watering system to the vertical garden and tend it in even less time. It's also scalable. Allowing you to make it as big or as small as you need.

## Wicking Bed

A wicking bed is an agricultural low-tech irrigation system invented by Australian Colin Austin that is suitable in arid countries where water is scarce. It can be used both in (arid) fields as well as in containers (aka container gardening).



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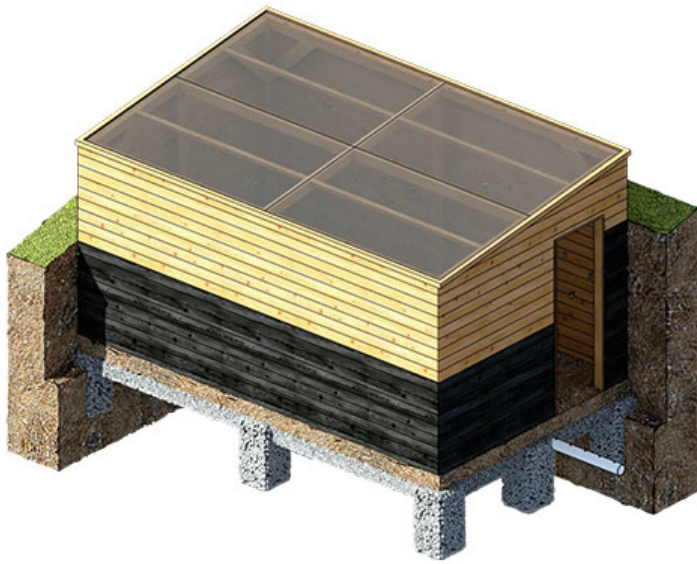
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You can modify the size to whatever you see fit so long as you keep in mind a few general rules. For example, the ratios between soil and gravel must stay the same. The soil must also be at least 10" (25cm) high, ideally between 10"(25cm) and 15" (40cm). The gravel stones should also be no larger than 0.3" (7mm). Otherwise, the sky's the limit.

## **The Pit (Walipini) Greenhouse**

This pit greenhouse design is based on a 1990's Benson Institute prototype that was built in Bolivia named the Walipini. What is a Walipini? It's a transparent-roofed enclosure, built low to the ground, used to protect plants from adverse weather, primarily excessive cold or wet. Or, in other words, an earth-sheltered cold frame construction. It derives its name from the Aymaran language. The transparent top admits sunlight and stops heat from escaping via convection, particularly at night. Essentially its cold frame functions as a miniature greenhouse to extend the growing season.

Historically, cold frames were used in addition to a heated greenhouse. The name itself exemplifies the distinction between a warm greenhouse and an unheated cold frame.



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Some crops suitable for growing in a cold frame include lettuce, parsley, salad onions, spinach, radishes, and turnips. One vegetable crop can occupy the whole of a cold frame or a combination of crops can be grown together so they mature in rotation in order to get a wide range of different nutrients throughout the year. Keeping you healthy.

With this project, it's best to take into consideration the number of people that will benefit from it. The surface for a single person's year-round consumption need is 94'x94' (28.65mx28.65m). Multiplying this per person should give you a rough estimate.

Keeping building costs as low as possible also depends on the amount of free labor you can rely on, or the free or used materials you have at your disposal, the size of the build and keeping the material list to a bare minimum. Of course, you can add insulation and heating, but it will raise cost. However, with recycled materials and a DIY mindset this project should be dirt cheap. Which is a big reason it's proven so popular.

After that, you'll have to find a good spot for the build where your biggest concern is water. That's because if water soaks into the wood walls, they will rot away and collapse.

If water seeps through the ground with no means to escape it will also drown your plants. So, try and find a spot where the bottom of the pit is at least 5' (12.7cm) above the water table.

Capturing and storing as many sun rays as possible is also crucial, especially in the winter. However, the sun's position in the sky differs in the winter and the summer. Therefore, aim is to face the slant of the roof to the North towards the winter sun if you're building in the southern hemisphere or to the South if you're living in the northern hemisphere. This will help to ensure your crops get all of the sunlight they

need.

## Square Foot Garden

Throughout history, the predominant gardening method has been single-row gardening. It was based on rows because of the use of the plough in farming, the oldest evidence of which dates back some 4,800 years. By contrast, square foot gardening was popularized by Mel Bartholomew's book written in 1981. This means, square foot gardening is a very new method. You see, Mel found the single-row gardening practices in his community garden were wasteful. Fertilizer, soil amendments, pesticides and water were spread over fields, but plants were grown in 6" (15.24cm) rows with 3' (0.91m) wide lanes on either side of them, wasting some 80% of the total garden area and everything put into it! Tilling that earth just to tread on it and compact it down created a lot of extra work, as did keeping it clear of weeds. Furthermore, he noted problems with planting in rows. Why use an entire packet of seed only to thin 95% of the spouts afterward? And why plant an entire 30' (9.14 m) row of a single vegetable that would all mature at the same time? This might make sense when large-crop farming, but not gardening. Especially for your own self-reliance.



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Square foot gardening reduces the amount of work to grow a garden, keeping it fun and preventing it from becoming a chore. Your raised bed is quite versatile and can be modified to meet your specific needs.

- You can add a lattice for plants that grow vertically by constructing a square frame from half-an-inch (1.27cm) pipe on one side of the box and then stretching a net on it which can be fastened in place with zip ties.
- You can also create a protective dome out of two crossed and bowed PVC pipes anchored to a 1"x1" (2.54cmx2.54cm) frame slightly larger than the raised bed and fastened in the center with a zip-tie.
- Or you can create a protective cover out of chicken wire by creating a 1"x1" (2.54cmx2.54cm) frame slightly larger than the raised bed and fastening a wall of chicken wire to it with zip ties or staples. Then create a slightly bowed roof out of chicken wire and fasten it to the walls using zip ties.

If you don't make your own compost yet, this would be a very good time to start a compost pile. By not planting everything at the same time, you can stagger your harvest, ensuring a steady flow of fresh vegetables.

## Conclusion

What makes all these projects special is they're made with adaptability in mind. Meaning if the sky falls, and you crawl

out of your bunker to glimpse little more than a barren, ashen waste, you'd still be able to assemble your own off-grid paradise. Or, save money on food when times are good.

So why not check it out? Click the image below for more info and the blueprints you need to build your own.



## **20 Best Projects for a post-SHTF World**

**>>FREE REVEAL<<**