

# BACKYARD LIBERTY QUICKSTART GUIDE

## For tanks

- IBC (International Bulk Container)
- Barrels
- Discarded bathtub
- Swimming pools

## Frames

- OSB
- Plywood

## Media and co.

- Gravel
- ¾-inch crushed granite.
- Expanded shale
- Hydroton
- Vermicompost
- Heirloom crops

## Tools and co.

- EcoPlus Submersible pump
- Lightning systems
- Jiffy pellets
- Heat mats
- Mason jars
- 5 to 6 feet of ¾-inch black polyethylene tubing

- Three barbed 3/4-inch L fittings.
- Three feet of 2-inch PVC pipe.
- One 2-inch female-threaded-to-female-slip coupling.
- One female-slip-to-male-threaded coupling
- One 10-inch piece of 4-inch or 6-inch PVC pipe
- One 3/4-inch L barbed-to-male-threaded fitting
- One T with a female-threaded fitting to slip on either side
- 15 feet of 1-inch PVC
- Four 1-inch L's slip-to-slip PVC couplings
- Teflon tape.
- Angle grinder with a cutting disk
- Reciprocating saw
- Jigsaw
- A permanent marker
- Tape measure
- A 1/2-inch drill bit
- A 2 1/4-inch hole saw
- A pipe cutter
- PVC pipe weld or PVC glue.
- Heat gun or blow dryer
- Safety goggles and gloves
- RO filter (optional)

### Nutrients & Supplements

- Calcium hydroxide
- Chelated iron
- Epsom salt
- Potassium chloride
- Agricultural lime
- Caustic lye

## Fish

- Tilapia (White Tilapia, Blue Tilapia, Nile Tilapia)
- Common carp
- Channel Catfish
- Yellow perch
- Rainbow trout
- Bluegill
- Goldfish

## Additional plants & animals

- Seaweed extract
- Water hyacinth
- Duckweed
- Red worms
- Black soldier fly
- Heirloom crops