

Propagation



There are three basic methods of starting or "propagating" plants. They are seed germination, rooting stem cuttings (cloning), and tissue culture. Tissue culture is an advanced form of cell division. We will concentrate on the simpler, more popular methods.

Rockwool is the most popular medium for germinating seeds hydroponically. Seeds or cuttings are inserted in small rockwool cubes. The slabs of cubes are then laid in a standard plastic nursery tray with a clear humidity dome placed over top. Once the seeds have sprouted the rockwool cubes are easily broken off and inserted in larger cubes, their home until harvest.

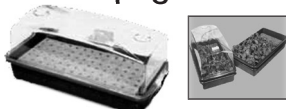
Stem cuttings from these types of plants can be rooted in seven to fourteen days, producing a plant that is an exact genetic duplication of the original, or 'mother' plant. Plants started in this way will mature much earlier than ones started from seed, saving valuable time and producing shorter, bushier plants.

Depending on the type of plant, each mother could produce tens, or even hundreds of identical offspring every couple of months. Asexual propagation is an invaluable tool used for many commercial greenhouse crops, as well as for hobby gardens.

Homegrown's Deluxe Propagators Available in Black or White



Stewart Propagator



- ▶ High quality acrylic tray 19"x15"x4" deep
- ▶ Trays come with or without drainage holes
- ▶ Sturdy acrylic dome has 2 ventilation holes

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|---------------------------------------|---------|
| JACK'S 1' x 2' PROPAGATION TRAY | \$16.95 |
| JACK'S 1' x 2' PROPAGATION DOME | \$13.00 |
| JACK'S 1' x 2' RESERVOIR | \$16.95 |
| 2'x3' DELUXE PROPAGATION TRAY | \$40.00 |
| 2'x3' DELUXE PROPAGATION DOME..... | \$22.50 |
| 2'x3' RESERVOIR | \$60.00 |

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| GREEN TRAY W/HOLES..... | \$20.90 |
| GREEN TRAY W/NO HOLES | \$20.90 |
| DOMES | \$29.99 |
| Complete | \$49.95 |

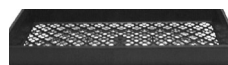
Nursery Propagation Trays and Domes



- ▶ Inexpensive standard nursery tray fits 96 rockwool starter cubes
- ▶ Green tray has holes for drainage
- ▶ White tray with no holes
- ▶ 3" clear humidity dome for seedlings
- ▶ 6" clear humidity dome for cuttings with optional vents

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| PROP DOME 3" HIGH | \$3.00 |
| PROP DOME 6" HIGH | \$6.00 |
| KORD GREEN TRAYS W/HOLES | \$3.00 |
| KORD WHITE TRAYS NO HOLES | \$3.00 |
| KORD 809 CELL PACKS..... | \$1.25 |

Lattice Bottom Flat



- ▶ Durable, black, mesh plastic
 - ▶ Easy Drainage
 - ▶ Allows for root expansion
-\$2.00

Deluxe Propagator

Inexpensive, sturdy propagator Holds 30 x1" rockwool cubes Once germinated, plants roots are suspended avoiding 'wet feet' or root rot.



.....\$49.99

Seedling Mat



- ▶ Warms seedlings and cuttings to the perfect temperature for speedy germination and root development
- ▶ 2 sizes: small 12"x 20" large 18"x 18"

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| RESERVOIR HEATER | \$57.60 |
| 12"x20" (FITS ONE TRAY) | \$44.95 |
| 18"x48" (FITS FOUR TRAYS) | \$99.99 |

tips

PROPAGATION SEEDS

- Optimum temperature 75°F to 85°F
- Optimum humidity 80% to 90%
- Remove humidity tent daily
- 24 hours light until first true leaves appear then remove humidity tent, 18hrs of light/day
- Use only diluted nutrient on seedlings
- Seed soak-foliar seed: ULTRA GRO
- Increase light and nutrients levels gradually
- Foliar feed nitrozyme for 3-5 day harden off period
- Bolting: increase light intensity and/or ventilation
- Yellow leaves: increase vegetative nutrient strength

Heating Mat Thermostat



- ▶ Thermometer can be used for up to 4 heating mats
 - ▶ Controls temperature with on/off seating
-\$49.99

Halcyon Reservoir Heater



- ▶ Halcyon Reservoir Heater is thermostat controlled to regulate temperature of nutrient solution
- 12" x 36"\$57.60

Rooting Hormones



- ▶ Ready to use formulas
- ▶ Stimulate rapid root growth
- ▶ For softwood and hardwood cuttings
- ▶ Fungicides protect against soil-borne diseases

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| STIM-ROOT ROOTING HORMONE 125ML..... | \$12.50 |
| STIM-ROOT ROOTING HORMONE 250ML..... | \$21.00 |
| STIM-ROOT ROOTING HORMONE 500ML..... | \$35.00 |
| BIO-GEL ROOTING COMPOUND 56GR..... | \$10.95 |
| BIO-GEL ROOTING COMPOUND 112GR..... | \$21.95 |
| ROOTS LIQUID ROOT STIMULATOR 50ML | \$6.99 |
| VITA GROW (WOODS) ROOTING COMPOUND 4OZ | \$9.99 |
| VITA GROW 8OZ | \$16.99 |
| B'CUZZ ROOT STIMULATOR 340ML | \$34.95 |
| NUTRI ROOT ROOTING GEL 2OZ..... | \$13.95 |
| NUTRI ROOT ROOTING GEL 6OZ..... | \$24.95 |