

# Equipment for Small Scale Vegetable Production

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# Hand-push Fertilizer Applicator

- Useful for uniform broadcast or band applications.
- Can uniformly apply fertilizer, lime or granular pesticides.





# Tillers

- Walk behind tiller.
- Tractor powered -3pt hitch tiller.



# BSC Hand-Operated Plastic Layer



- Suitable for large garden or small truck farm.
- 2-3 ft. plastic widths
- HP 5.5 – 14
- Can apply drip tape at the same time.



# BSC Tractor Plastic Layer



- Wheel tractor plastic layer.
- Can be adapted to lawn/garden tractor.
- Lays drip tape and 3 ft plastic.
- Has dibble wheel attachment for hole punching.



# Truck Garden Plastic Layer

- Will attach to lawn tractor.
- Flat bed application.
- 3 ft plastic 1000 ft rolls.
- Small 1000 ft drip tape rolls.





# Hand-held Hole Punch



- Tulip bulb planters.
- Useful to set vegetable transplants.
- Not as uniform in depth and spacing.
- Must be careful to set transplants straight.



# Flatbed Plastic Layer



- Small flatbed plastic layer.
- Requires 20 HP tractor.
- Benefits of mulch.
- Can apply drip tape.
- No improved drainage.



# Raised bed Plastic Layer



- Raised bed plastic layer.
- Requires 60+ HP.
- Mulch and drip tape.
- Better moisture control.



# Water wheel Setter

- HP required 50.
- Tractor may need weights if water tank filled.
- Can set transplants or direct seed.
- Plastic or bare ground.





# Punch wheel Setter



- Tractor mounted water wheel setter.
- Transplants or large seeded vegetables.
- Fast uniform placement.



# Push Vegetable Seeder



- Earth Way Seeder
- Seed plates for various crops.
- Fertilizer attachment.



# Earth Way Seed Plates

- Squash seed plate
  - To change seed spacing cover holes with duct tape.
  - Used for pumpkin, gourds, watermelons.



# Hand Planter - Seeder



- Plants through plastic.
- Better on large seeds
  - Corn
  - Beans
  - Pumpkin/squash
- Can drop transplants.
- Fertilizer side attachment.



# Backpack Mist Blower



- Fuel is an oil gas mix.
- Pesticide is air diluted.
- Applied as mist.
- Good coverage.



# Backpack Mist blower



- Fungicide, Insecticide applications.
- No agitation so premix pesticides.
- Mist blown
  - 5 gal tank
  - 5 hp motor



# Homemade Fertilizer Injector

- Made with:
  - Schedule 40 PVC
  - 3 ball valves
  - 2 quick-couplers
- Uses liquid or dry fertilizer





# Handheld Weed roller



- Round\*Up application.
- Padded roller.
- Use around perennial crops.
- Use along edge of mulch to kill weed avoids drift.



# High Pressure Vegetable Sprayers



- Boom Sprayer
  - Drop Nozzles
  - High gallonage/A
  - Must leave drive rows.
    - spacing must be accurate.
- Air Cannon
  - Application dependent on:
    - Field conditions
    - Wind
  - Must leave drive row
    - Spacing not as critical



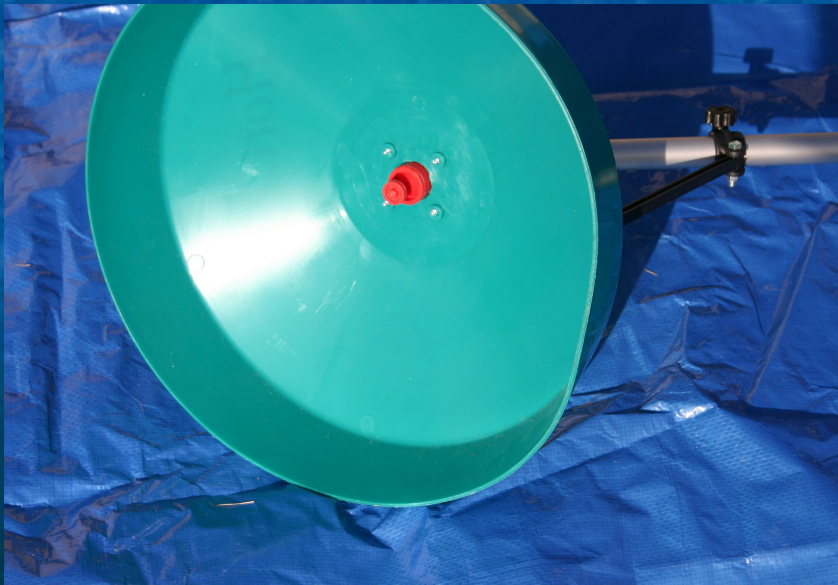
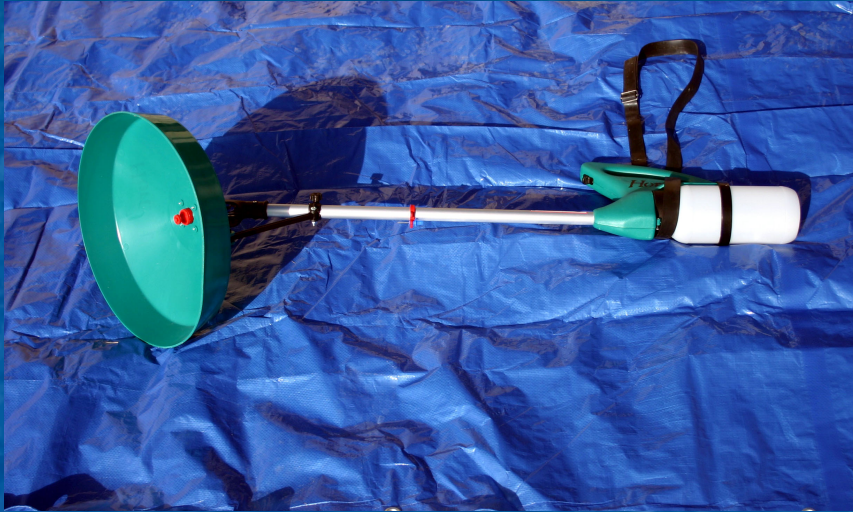
# Air Cannon Sprayer



- Useful on fruit and vegetable crops.
- Air assisted application of fungicides and insecticides.
- Must not extend coverage.



# Shielded Herbicide Sprayer



- Battery powered.
- Concentrated herbicide
  - Used primarily with Round\*Up and Gramoxone.
- Post emergent to weeds.



# Small Tractor Driven Weed Roller



- 35 gal tank. 4 ft width.
- Herbicide wets roller.
- Roller application to weeds.
- Roundup, Gramoxone tank mixes.



# Solo Backpack Weed Sprayer



- Useful for applying herbicide to surfaces
- With wand can apply along plastic edge.
- Wand can be shielded.





# Tow Behind Weed Sprayer



- Lawn tractor or 4 wheeler pulled.
- Brush boom herbicide sprayer.
- Battery powered
- Can change spray width with shut-off valves.



# Vegetable Harvesting Aide



- Modeled after 4 Star harvester.
- Allows fewer people to harvest more, faster.
- Reduces carrying heavy loads and back bending stoop labor.



# Harvest Stool



- Strap on Milk Stool – Harvest Stool.
  - American Livestock Supply, 613 Atlas Ave. Madison, Wisconsin 53714 Catalog.
  - Ph # 800 356-0700



# Property Alarm and Surveillance System

- Simple
- Effective
- Reliable
- Will work for food

