NRCS Natural Resources Conservation Service

Seasonal High Tunnel System for Crops

Approved Product List & Selection Criteria *NH-798*

April 2010

Subject to update – product lists with later dates will supersede this list.
This product list is not all inclusive and does not imply NRCS endorsement of any product, company, or position.

Source	Model
Atlas Manufacturing, Inc. Alapaha, GA 800-346-9902 www.atlasgreenhouse.com	Snow Arch Budget Plus 2" Square Structure
FarmTek South Windsor, CT 800-327-6835 www.FarmTek.com	ClearSpan Gro-Max Gothic with wood or metal framed endwalls
Growers Supply South Windsor, CT 800-476-9715 www.growerssupply.com	
Griffin Greenhouse & Nursery Supplies Tewksbury, MA 978-851-4346 www.griffins.com	New England Windjammer Series 5000
Ledgewood Farms Moultonborough, NH 603-476-8829 www.ledgewoodfarm.com	Ledgewood Farm Gothic
Rimol Greenhouse Systems, Inc. Hooksett, NH 603-494-9426 www.rimol.com	Nor'Easter Northpoint Eastpoint Rolling Thunder (using models above)
Harnois Industries St. Thomas, Quebec 888-427-6647 www.harnois.com	Ovaltech I

Models above must also meet all the criteria on the following page. Models that are not listed above may also be allowed, providing they meet all the criteria on the following page.

NRCS Natural Resources Conservation Service

High Tunnel Selection Criteria:

- ☐ Frame is gothic style (peaked versus round)
- ☐ Tunnel width does not exceed 30 feet
- ☐ Bows and ground posts are either:
  (i) 1.90" round 14 gauge galvanized steel or stronger for tunnels ≥ 26 ft. wide
  (ii) 1.66" round 14 gauge galvanized steel or stronger for tunnels < 26 ft. wide
  (iii) 2.00" square 16 gauge galvanized for all tunnel widths
  (iv) 1.625" x 2.750" oval 16 gauge for all tunnel widths
- ☐ Bows are spaced 4 ft. apart
- ☐ 3 purlins for tunnels < 26 ft. wide, 5 purlins for tunnels ≥ 26 ft. wide
- ☐ Frame is covered with at least 6-mil, 4-year UV resistant polyethylene film
- ☐ Roll-up or drop-down sides are installed on both sides
- ☐ End walls are framed with wood lumber or metal
- ☐ Endwalls are covered with UV resistant polyethylene film (at least 6-mil, 4-year), polycarbonate, or plywood
- ☐ At least one end wall contains a door for access

High Tunnel Selection Considerations

- Construct a minimum 6 ft. x 6 ft. opening on <u>each</u> endwall for increased ventilation and access (e.g. 2- 36 inch wide doors on each end or larger roll-up, sliding, or hinged doors).
- Evaluate the size of the equipment to be used in the tunnel when constructing the endwalls and the height of the sidewall as it relates to the height of the target crops (and personnel who will be working in the tunnel).
- Use a truss at least every other bow. For tunnels ≥ 26 ft. wide consider using trusses with braces/cross-ties on every bow.
- Add more purlins and/or wind bracing kits in windier areas.
- Avoid plywood on southern sides of the tunnel. Paint plywood white to increase light reflectance.