Root Rover

Mechanized crop-thinning device

Yellow B

Root crop thinning is necessary and tedious

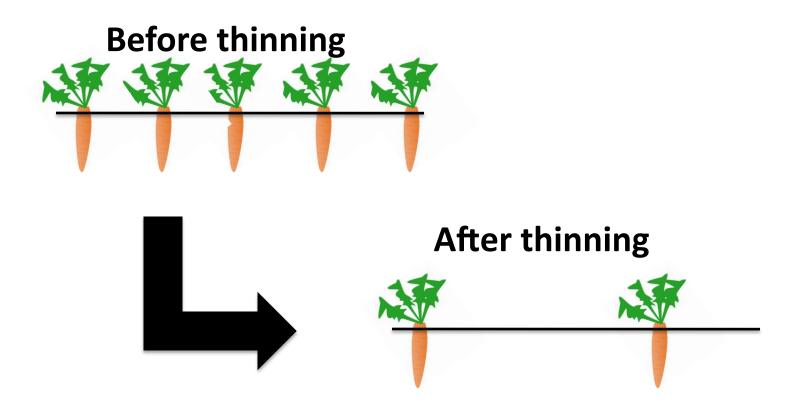
Process: Root crops are over-seeded, but then must be thinned for full growth

Problem: Small farms do it by hand, making it a tedious and time consuming process

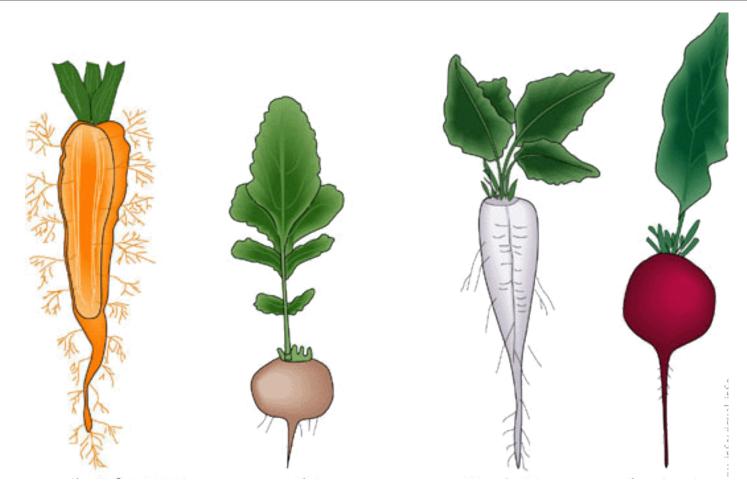


http://www.vegetablegardener.com/item/3510/thin-plants-for-a-healthy-crop

Process



Root Crops

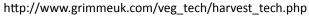


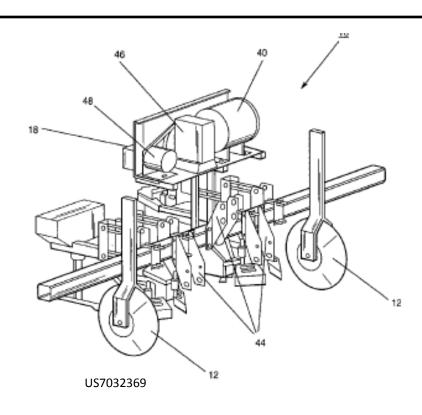
http://www.paintthelight.net/BotanyProject/Activities/uses_plants.htm

Root Rover

Existing products do not serve small farms







Existing solutions are expensive, bulky, high maintenance, and impractical for the small farmer

Root Rover

Local farms confirmed the need for a mechanized crop thinner

- The Farm School-Tyson Neukirch
 - Athol, MA



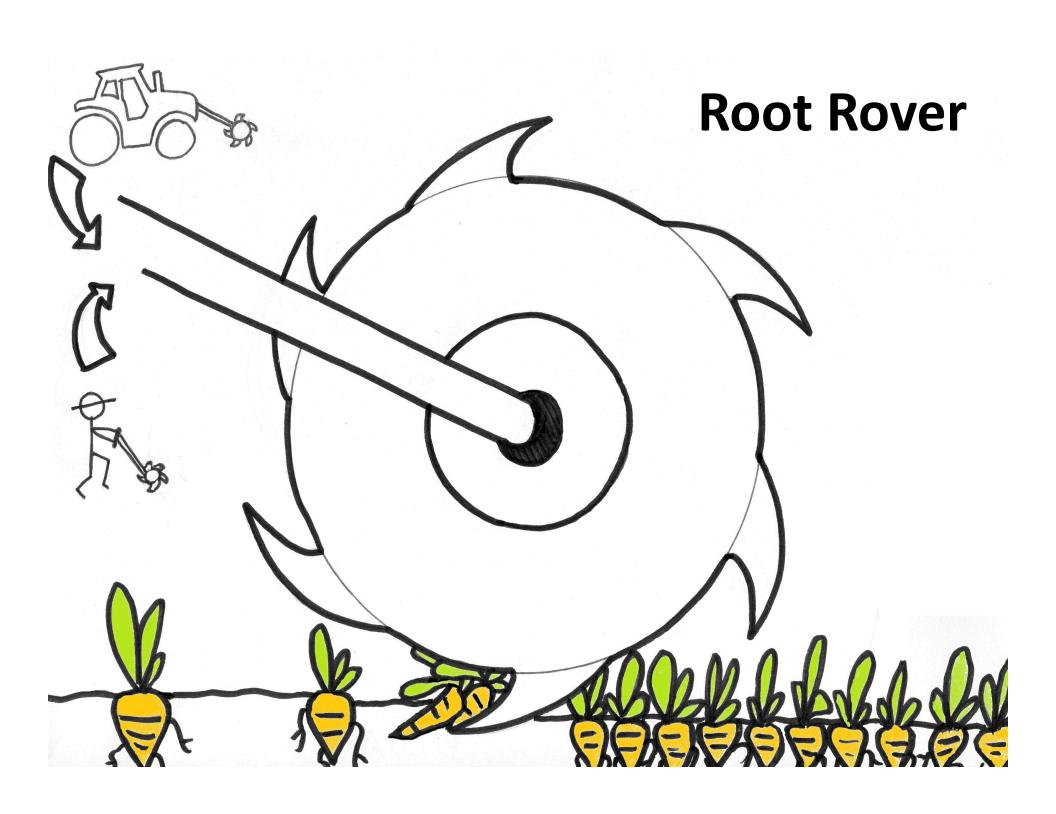
- Deepening Roots Farm-Bill Gillen
 - Amherst, MA
- Old Friends Farm-Casey Steinberg
 - Amherst, MA

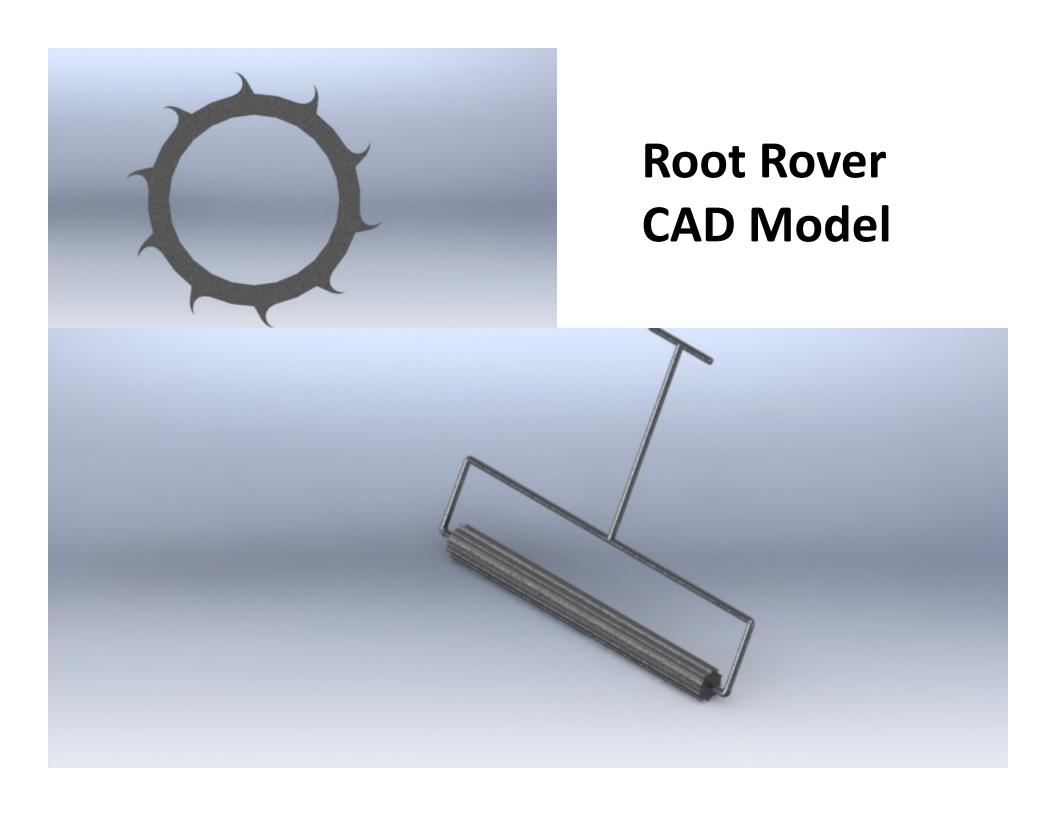
Root Rover is the answer for small farms

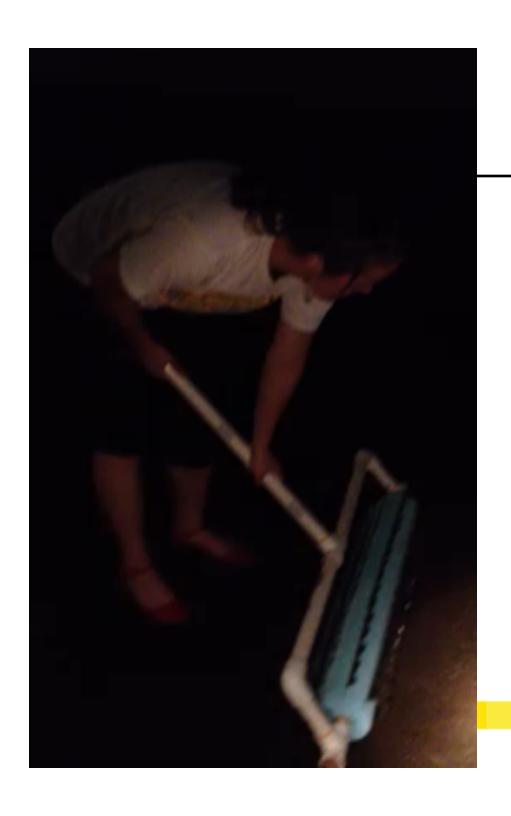
- Affordable and easy to use
- Makes the thinning process faster and more cost effective
- Tractor attachment or hand push device



http://ballebros.netpotential.co.nz/Gallery/Photos/tabid/72/AlbumID/417-22/Default.aspx







Moving Forward

- Our blade curvature and design were not ideal
- More force needed
- More rigid handle

Root Rover