

Hop Yard Trellis Design

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SCHMIDT FARM

Layout Selection

Straight

In-Line V

High Density V

Straight Design

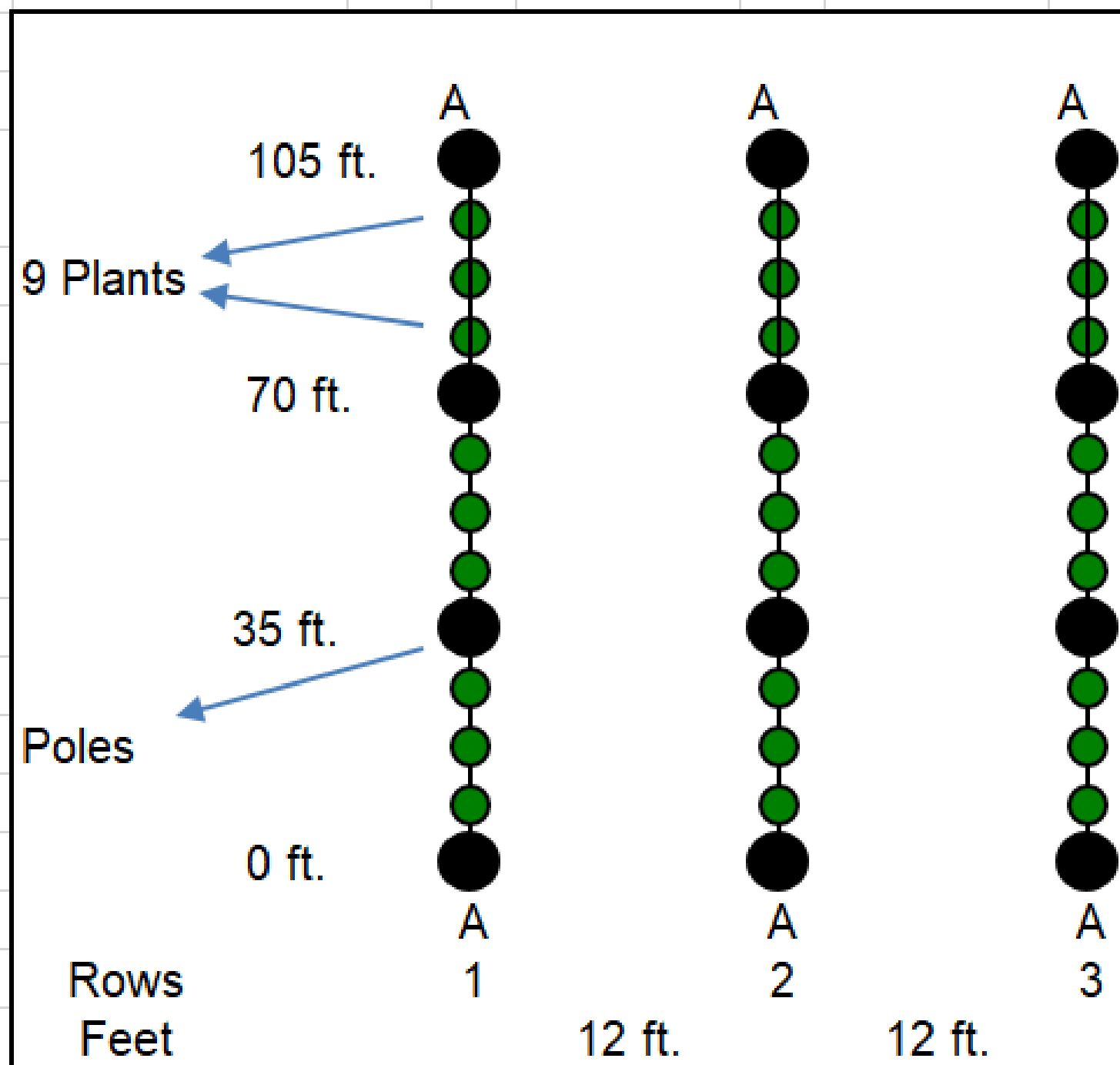
- Pole Spacing every 35'
- Plant Spacing every 3' 6"
- Row width 10'-12' (Varies on equipment)
- ½ acre or less
- Hobby / Showcase



Straight In-Line V Design

- Pole Spacing every 35'
- Plant Spacing every 6-7'
- Row width 10'-12' (Varies on equipment)
- ½ acre or less
- Hobby / Showcase

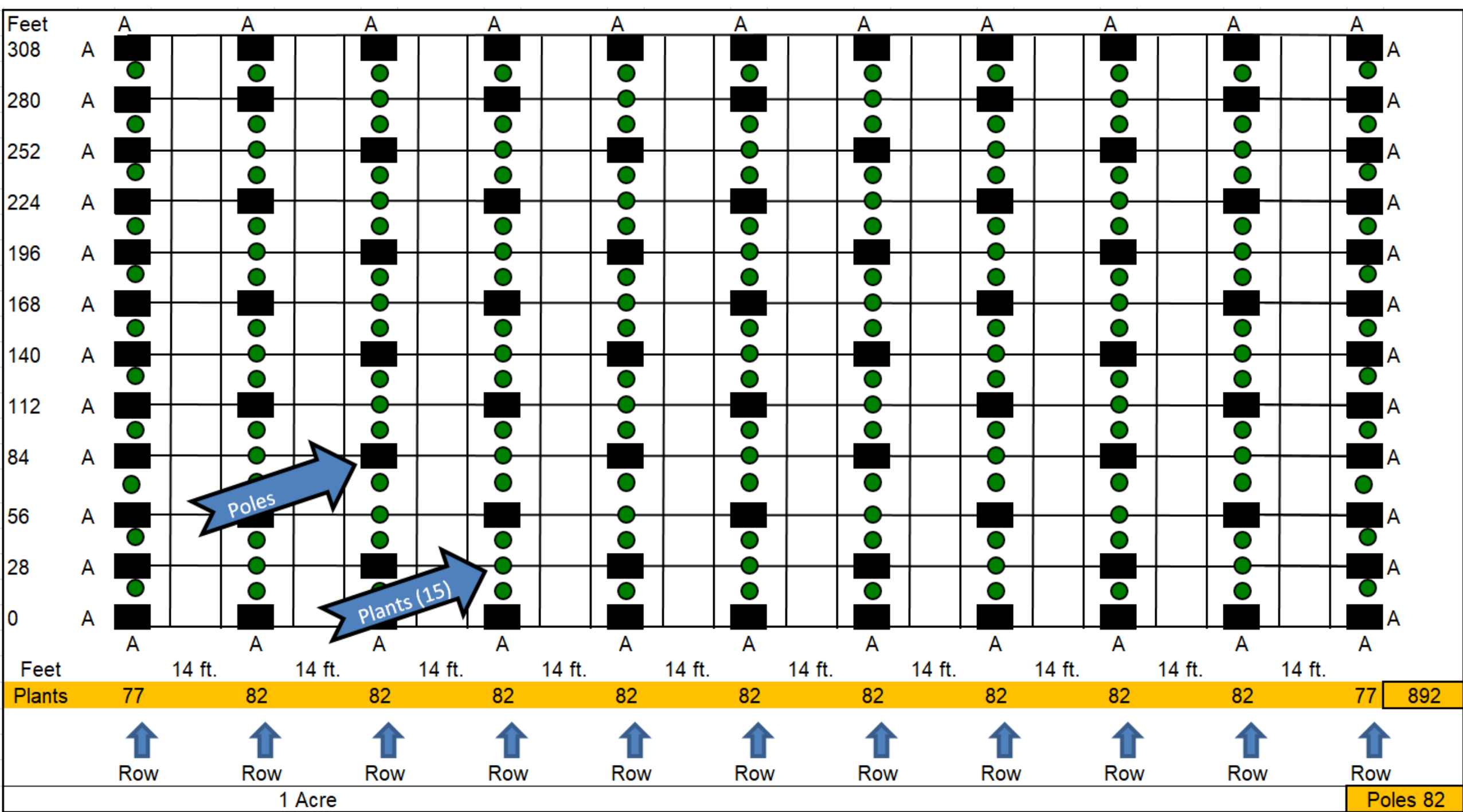


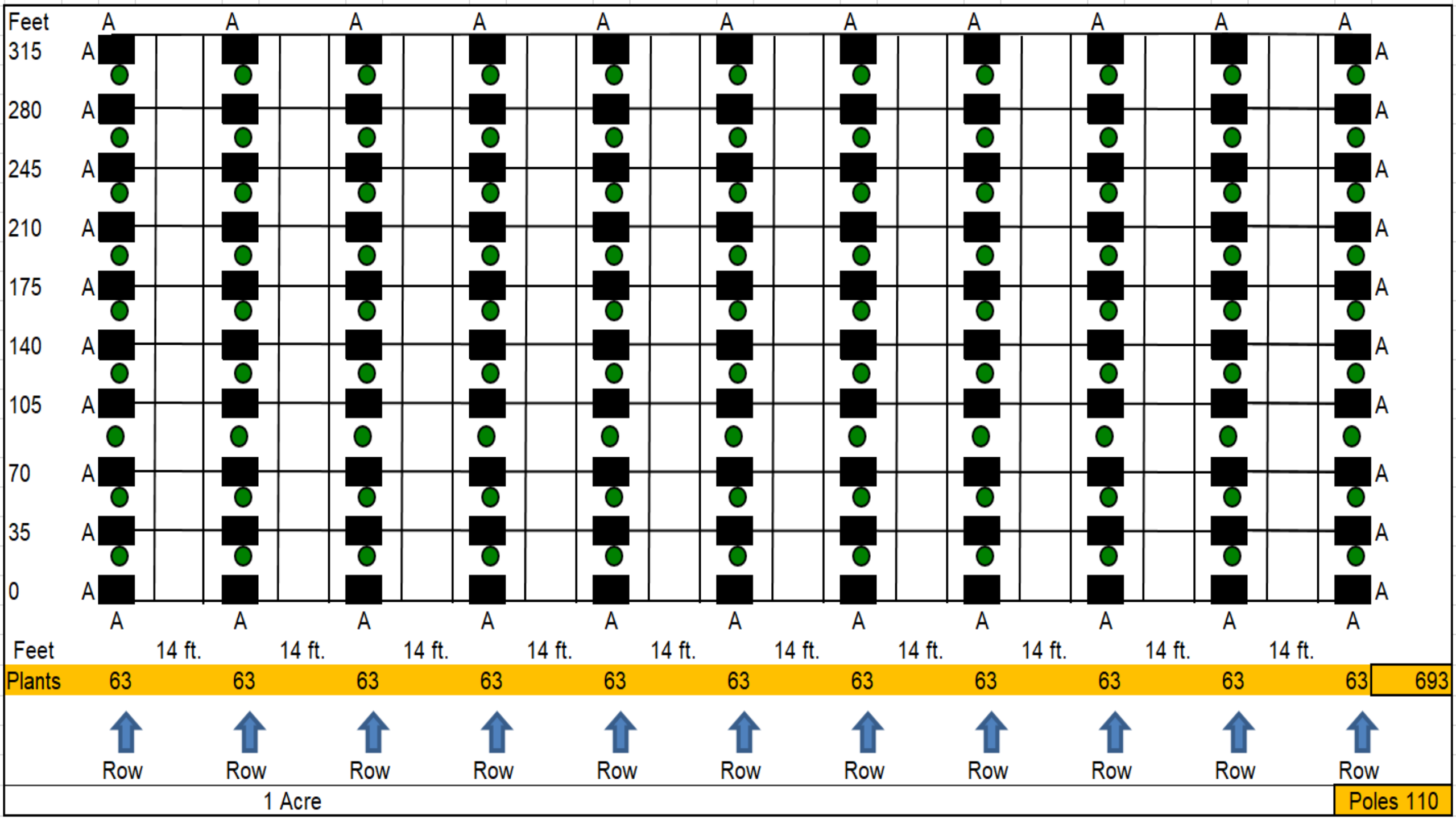


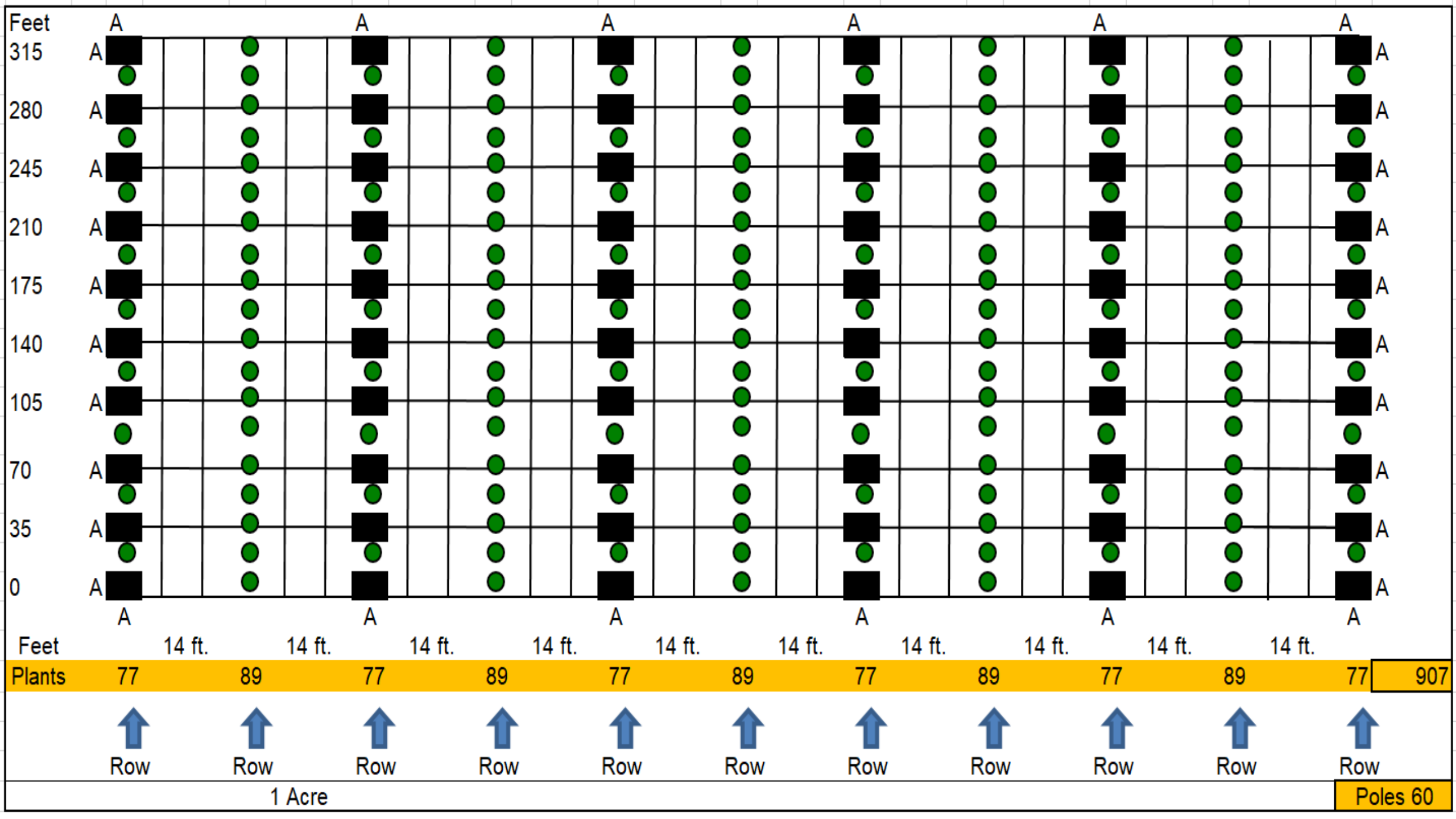
High Density V-Design

- Pole Spacing (Grid)
- Plant Spacing every 3' 6"
- Row width 12'-14' (Varies on equipment)
- ½ Plus
- Serious / Commercial









Design Comparison

	Straight Design	Straight In Line V	V Design
# Poles	110	110	60 / 87 / 110
# Plants	819	572	907 / 892 / 693
# Strings Per Plant	1	2	2
Bines Per String	3/4	3/4 x 2	3/4 x 2
Yield (North East)	.5 0 - .75lb per plant 410 - 615 lbs Dry	1 – 1.5lb per plant 572 – 858 lbs Dry	1 – 1.5lb per plant 693 – 1,360 lbs Dry
Recommended	1/2 Acre or Less	1/2 Acre or Less	1/2 acre +
	Hobby / Showcase	Hobby / Showcase	Serious Grower

Poles (4' in ground / 18' in air)

- Pressure Treated (\$50-\$90 ea.)

- Red Pine (Bad)
- Lodge Pole Pine
- Southern Yellow Pine

- 20 – 25 Years

- Treated (No Organic)

- Size

- Interior (4"-5")
- Exterior (6"-7")

- Trees (Free / \$35 - \$50)

- Black Locust (30+ Years)
- Red Cedar (20/25 Years)
- Tamarack / Larch (15/20 Years)

- Harvest

- Only in winter
- Summer – 5 Years

- Treating

- Strip Bark (all)
- Foundation Tar Bottom 5'

Cable Types at a Glance...

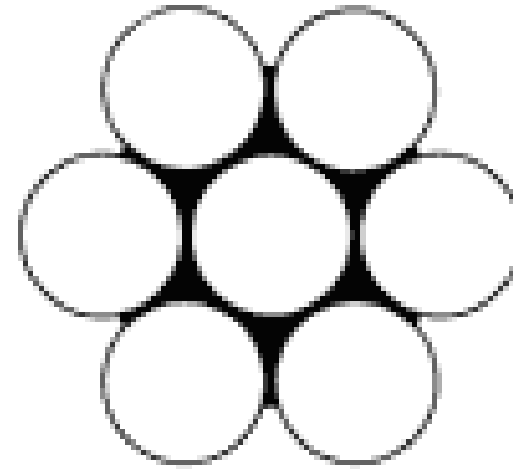
Cable

1x7 (Yes)

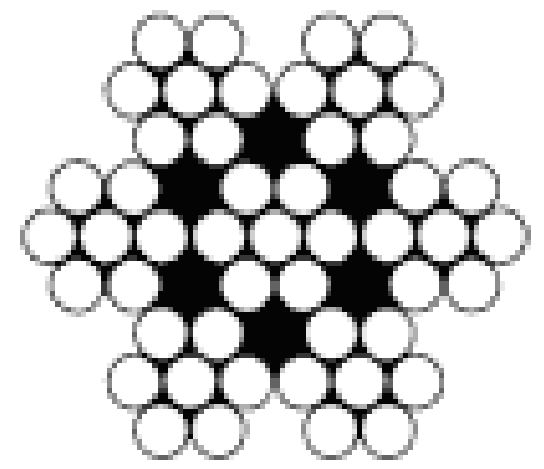
7x7 (ok)

7x19 (Straight ok / V NO)

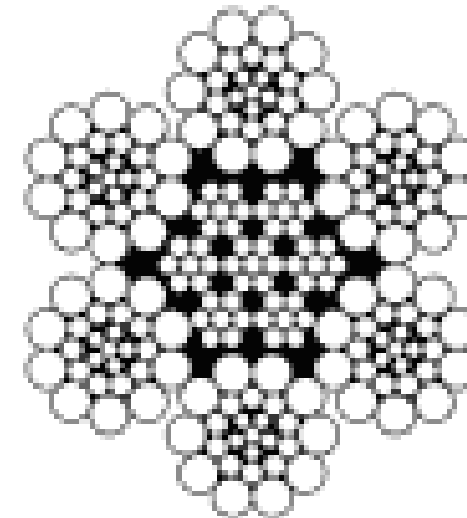
V Design Cable Cross



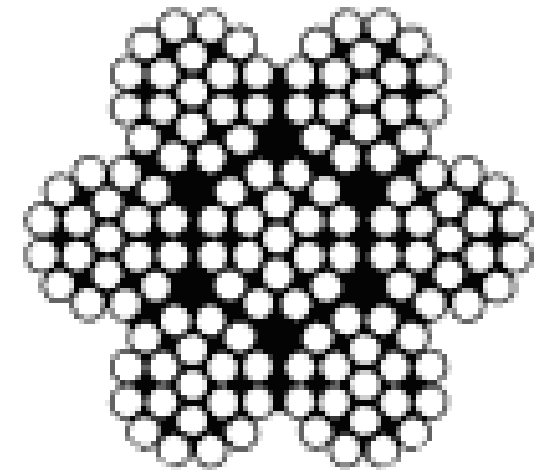
1 x 7 cable



7 x 7 cable



6 x 26 cable



7 x 19 cable

Anchors

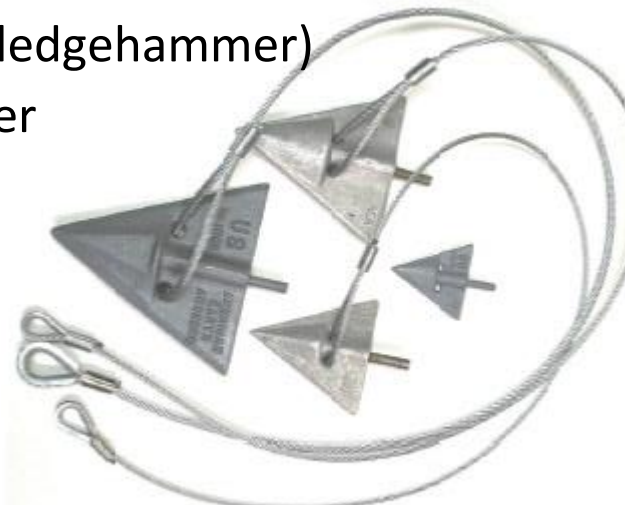
- Helix

- Soil type (Sand, Clay, Gravel)
- Check soil 4' deep (Shale)
- Row Length will determine size
- Min. 4' x 6"
- Install
 - By Hand
 - Skid Steer
 - NO Tractor



- ArrowHead

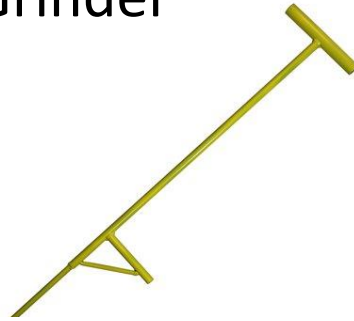
- Soil type (Sand, Clay, Gravel, Rocks)
- Rocks 12" and less
- Larger rocks (??)
- Row length will determine size
- Min. 4' x 4"
- Install
 - By Hand (Sledgehammer)
 - Jackhammer



Other Supplies

- Tools

- Cable Cutter / Angle Grinder
- Havens Grip
- Come A-Long
- Applicator Tool



- Hop Yard Parts

- Eye Bolts
- Staples (3")
- Post caps
- Tensioners
- Rope Clips
- Coir
- W-Clips



Plants vs. Rhizomes

- Plants

- Clean Network
- No Virus / Disease
- 1 Plant per Hill
- SAFER but.....

- Rhizomes

- Roots from Main Hop Plant
- Multiple Rhizomes per Hill
- % infected with Virus/Disease
- DO NOT BUY

Cost

- Acre
 - \$15,000 - \$20,000
- Variables
 - Yard Size
 - Poles
 - Plants/Rhizomes/Propagation
 - Design (Straight vs V Design)
 - Labor