

We have a compelling need to get the beans and cucumbers off the ground and onto trellis.

This document contains a [trellis proposal](#) for beans and cucumbers with images.

In a different document are [ideas for season extension](#).

Trellis Proposal

Ingredients:

100 ft Trellis Netting: Hortonova 58" tall long to be purchased/ordered soon

~52 Trellis Support Posts: 6ft metal or bamboo poles to be gathered and processed

Fastening devices: twine might work

As of 1/12/2022 We have 10 metal posts, 41 wood posts, 0 bamboo posts

Metal posts would be preferred as we can leave them in the ground all year without decay.

Tools:

Post pounder—in shed (belongs to Tom)

Labor:

Numerous helpers to measure, pound posts, trim and fit trellis netting

Details:

Initial trellis costs are \$50-\$200 depending on support costs and shipping.

If maintained carefully, the recurring cost of Hortonova netting would be ~\$30 every two years plus shipping. Support costs may be minimal if we look for donated metal and bamboo.

For beans in bed 1 and cucumbers in bed 2 we will cut Hortonova trellis netting in short panels running between the posts. See Image 1 below.

Hortonova trellis netting: Hortonova trellis netting is useful for beans, cucumbers, and maybe tomatoes. It has approximately 6"x6" openings. The proposed size is 59" high from Hoss Tools ~\$30 plus shipping for 100' of netting to service beds 1 and 2 with some extra. This would be enough netting for 2022. If treated carefully, the Hortonova netting may be re-used for multiple seasons.

<https://hosstools.com/product/hortonova-trellis-netting-59-x-100/>

Trellis support: Using 6' posts pounded down one foot deep (5' exposed) spaced about 5 ft apart down the length of a bed.

Each "panel" will be about 5ft high and 3ft wide. With 13 panels for bed #2 and 7-13 panels in bed #1 we will need between 65 ft – 85 ft of netting.

Posts inserted about 6" from the edge of the bed.

Bed 2 will require 26 posts.

Bed 2 will require 14-26 posts depending on bed length.

It may be possible to pound bamboo poles in addition to metal poles if we cannot attain enough metal.

Another trellis option will be to build teepee structures with bamboo (see Image 4).

Note that tomatoes in bed #3 do not require the Hortonova netting. We can use twine strung down the length in the fashion of Florida weave. The 5' trellis spacing will offer better support. We might try to grow determinate varieties of plum tomatoes. Determinate varieties grow shorter and more stout, requiring less support that will be more appropriate for Florida weave trellis.

I suggest that we do not use trellis support for peppers in 2022.

Images below

Image 1: A general idea of the size of a panel.

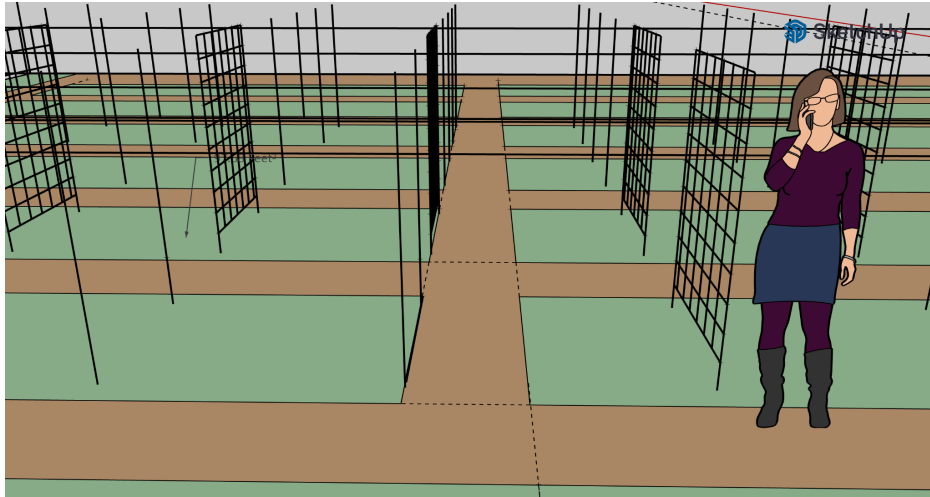


Image 2: Bean and cucumber/squash trellis netting in beds #1 and #2 from the west side. Each panel of trellis is separated by 5ft. Parallel tomato trellis in bed #3. Posts in bed #4 may not be necessary in 2022.

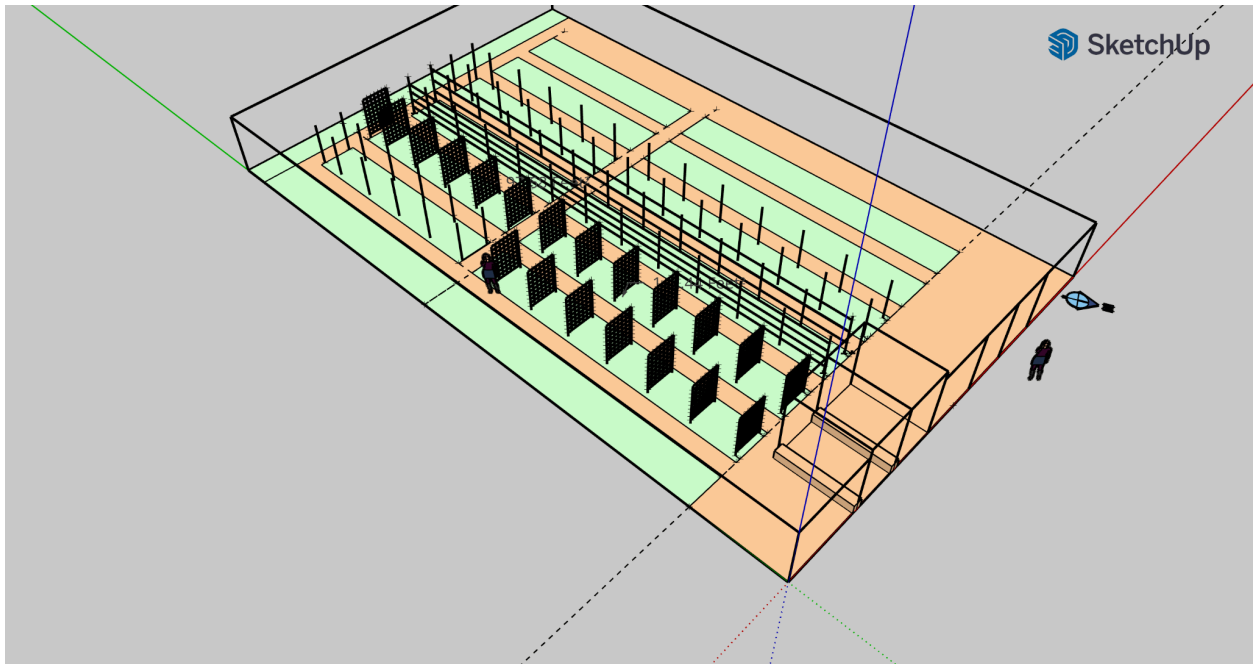


Image 3: View from the east side, tomato trellis in bed #3 in the foreground. Posts in Bed #4 may not be necessary in bed #4 if we do not include trellis for peppers in 2022.

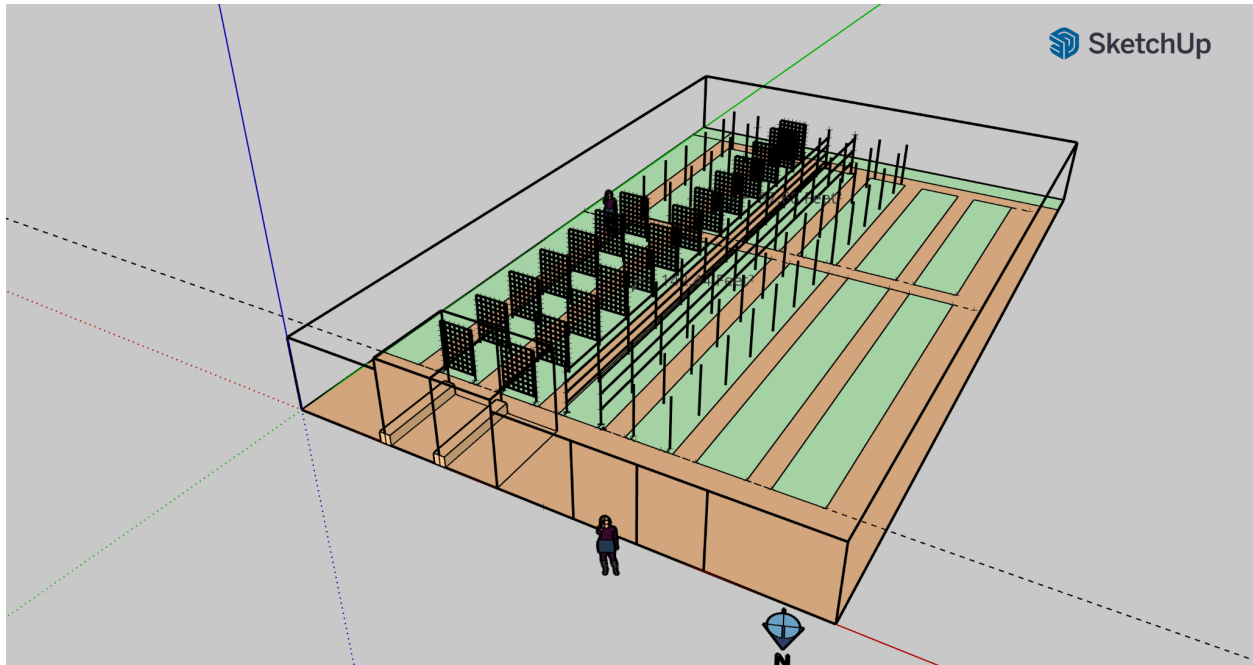


Image 4: This trellis teepee idea will not require trellis netting. This design will require twine and bamboo. We will need to consider methods for securing the teepee to the ground in case of high winds or storms. We need to figure out spacing to determine how many poles to gather.

