

# Handmade on the Homestead Cattle Panel Greenhouse



Materials:

Product	Quantity	Price	Total Cost
2x6x16 pressure treated lumber	2	\$28	\$56
2x6x8 pressure treated lumber	2	\$14	\$28
Cattle Panel 16ft x 50 in. (Tractor Supply)	3	\$30	\$90
2x4x8 wood studs	10	\$6	\$60
1.5 inch galvanized fence staples (Tractor Supply)	1 Box	\$15	\$15
0.5 inch x 6 inch Foam Pipe Insulation (Lowes)	6	\$2	\$12
Automatic Greenhouse Vent Opener (Amazon)	1	\$30	\$30
20ft x 25ft Greenhouse Film 6 mil (Amazon)	1	\$85	\$85
Hinges	4	\$3	\$12
Landscaping fabric / weed barrier		\$25	\$25
Zip ties, 2.5 inch screws, 2 inch pocket hole screws, 2.5 inch brad nails		\$15	\$15
Total			\$428



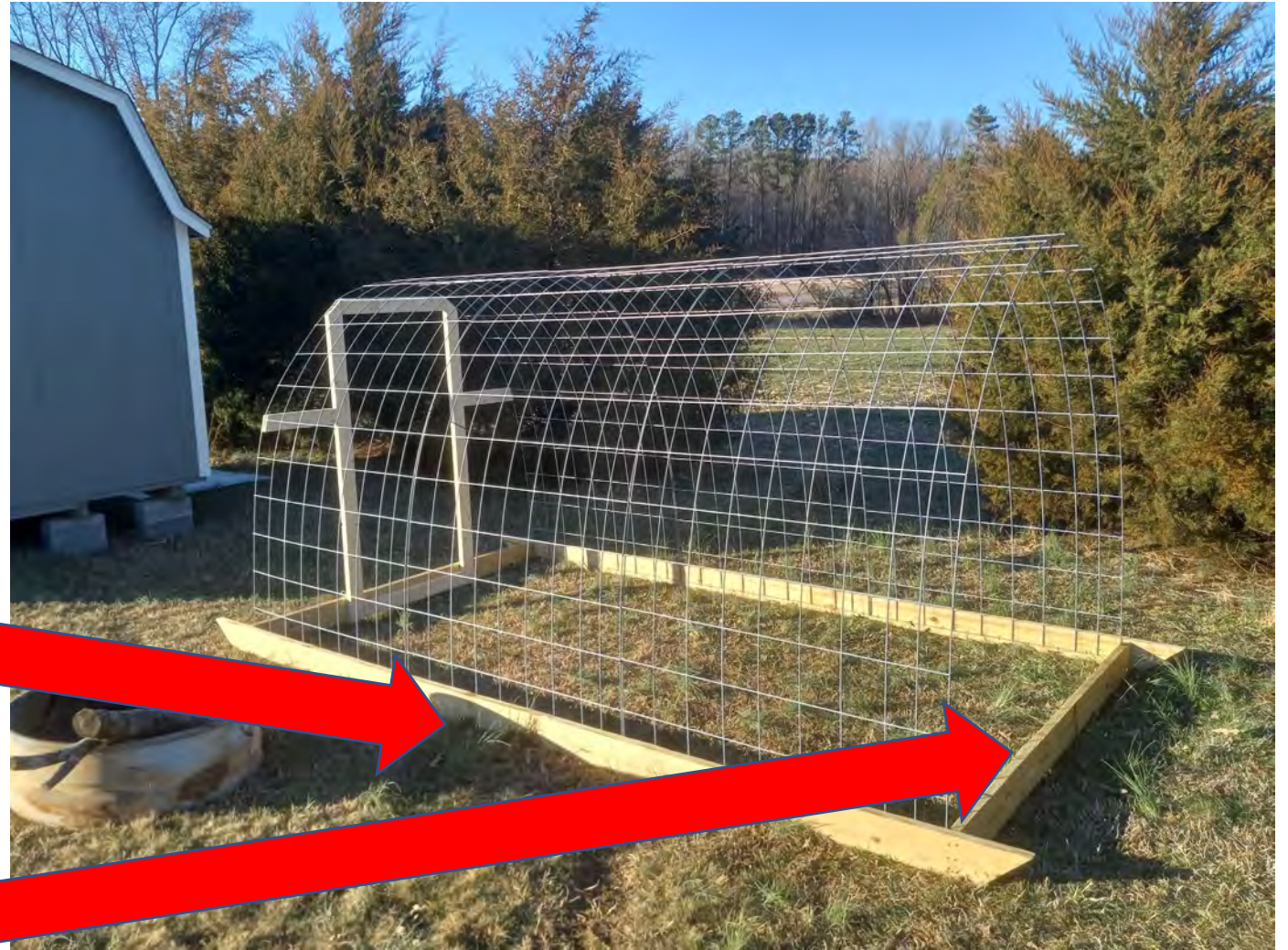


## Step 1: Build frame

Pressure Treated 2x6 lumber used for wood touching the ground.

For two long pieces, start with 2x6x16 pressure treated lumber. Cut both pieces down to 14.5ft, with 45 degree angles on both ends.

For two short pieces, start with 2x6x8 pressure treated lumber. Cut both pieces down to 7ft.



Attach the 4 boards, allowing for 151 inches between the inside of each of the 7ft boards. This is enough to fit 3 cattle panels. I used pocket holes to attach the boards, but other methods such as screws, brackets, lag bolts would work fine.

## Step 2: Attach Cattle Panels

3 cattle panels 16ft x 50 in, bought from Tractor Supply

Bend the 3 cattle panels into position and staple into place. I aligned everything so that the bottom of the panels were about an inch off the ground on both sides. Use galvanized fencing staples to secure.





### Step 3: Build Door Frames

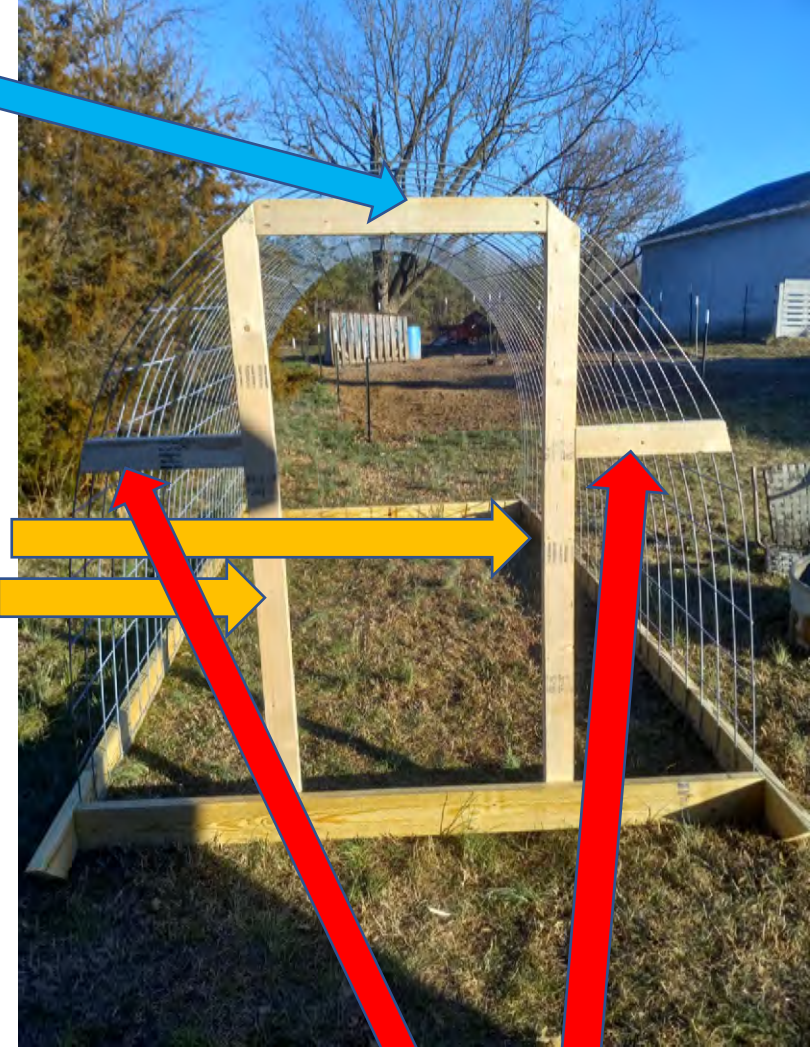
Non-pressure treated 2x8 lumber for the door frame.

Use pocket holes or brackets to build the door frame. Screw the bottom of the frame into the inside of the 2x6 piece on the ground. Staple the cattle panels to the wood wherever the wood meets the cattle panels.

Tip - I cut a extra 30 inch 2x4 and temporarily screwed it to the bottom of the greenhouse frame. This worked as a guide to ensure the door frame was centered and had a consistent 30 inch width at the bottom and top.

2x4 cut to 30 inches

2x4 cut to 73 inches with a 40 degree angle on the end that touches the panel



2x4 cut to 17 ¼ inches with a 15 degree angle on the end that touches the panel



## Step 4: Build Window Frame

Repeat previous step on the other side of the greenhouse so you have the same frame on both sides.

Attach a horizontal 30 in. 2x4 to the vertical frame using pocket holes or brackets. This will be the bottom of your window frame. Top of 2x4 is 20 inches below the bottom of the top of the door frame. Window opening is 30 inches wide, 20 inches tall



## Step 5: Zip tie the cattle panels

Zip tie the three cattle panels together where they meet.

Metal zip ties or galvanized wire would work best.





## Step 6: Add Padding on the Edges

Add padding on along the edge of the front and back of the greenhouse to protect the edges of the cattle panels from ripping the poly. We used foam piping installation and zip ties. Pool noodles would also work.





## Step 7: Cut / Attach Greenhouse Plastic Covering

Purchase 20ft x 25ft greenhouse 6 mil poly.

Cut the poly down to 18ft x 20ft for the section that fits over the greenhouse. Save the remaining poly for the window and door.

Drape the poly over the cattle panels and center the poly so there is approximately an equal amount of excess on each side.

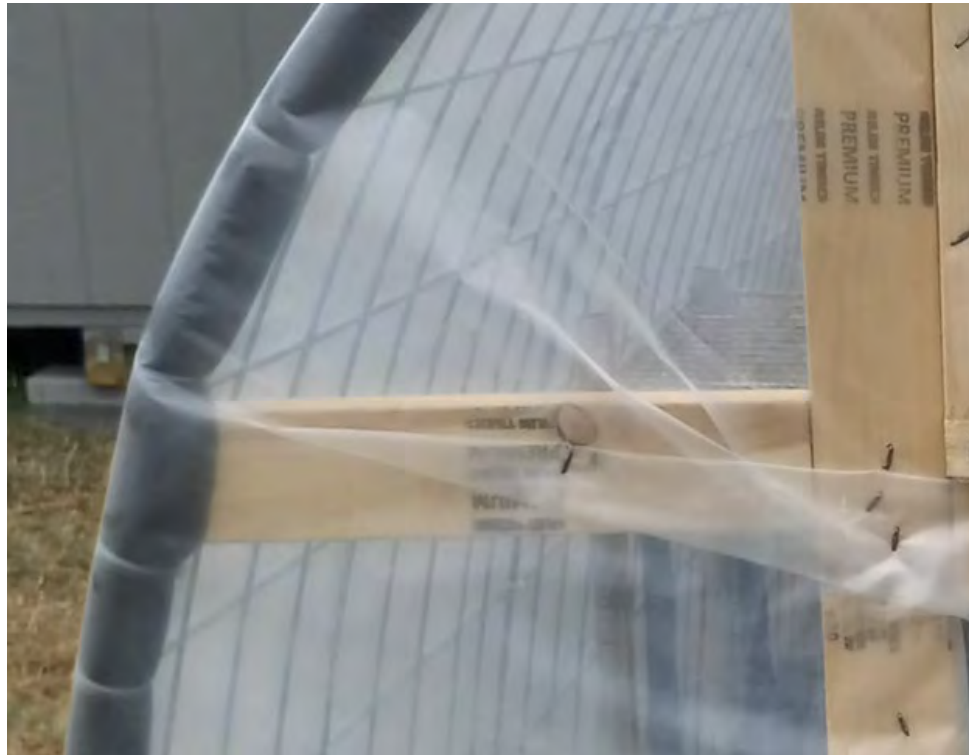
Staple the ply into the outside of one of the 14.5ft pressure treated 2x6's, then pull taught and staple the opposite side.



20ft side of the poly aligned this way. Drape the 18ft side over the cattle panels.

## Step 7 Continued: Cut / Attach Greenhouse Plastic Covering

On the front and back of the greenhouse, pull the poly taught and as straight as you can and staple to the wood. This won't be perfect as your folding a rectangular object over a curved object, so fold the poly as needed (see below). Staple and trim excess with scissors or knife.



Don't cover the door/window frames at this stage. It's easier to come back later and use the leftover section of poly to cut to size for this part.



## Step 8 Make Door

The door is made of 2x4s that were ripped into 2x2s, then nailed together with a brad nailer.

Make door, staple poly to outside of door, and attach with hinges.



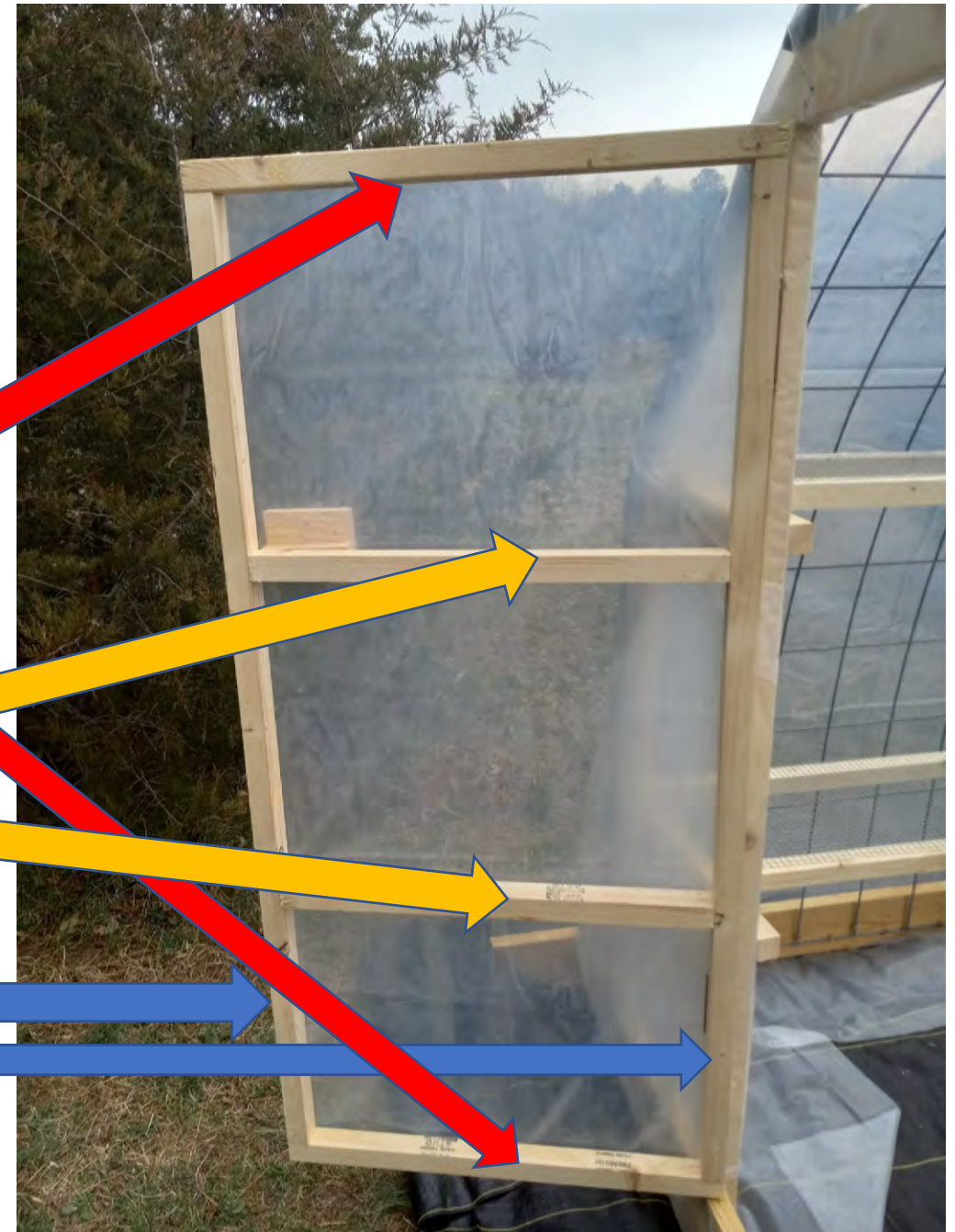
Fancy door lock



23  $\frac{3}{4}$  inches

21  $\frac{3}{4}$  inches

61 inches



## Step 9: Make Window

The window is made of 2x4s that were ripped into 2x2s, then nailed together with a brad nailer.

Make window, staple poly to outside of door, and attach with hinges on the outside.

Also staple poly to the frame under the window.



29 <sup>3</sup>/<sub>4</sub> inches

19 inches



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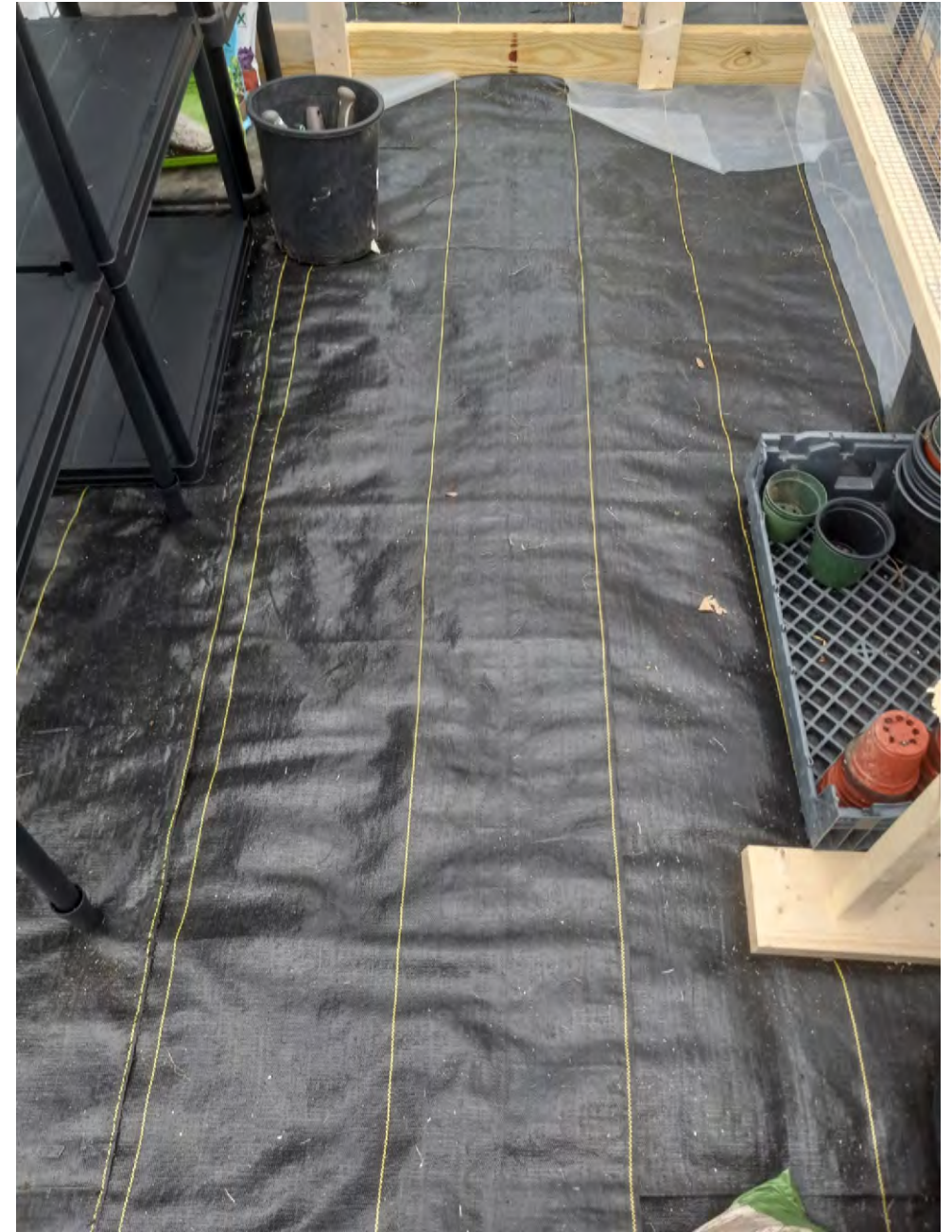
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## Step 10: Ground Cover

Lay landscaping fabric on the ground to prevent grass/weeds from growing.



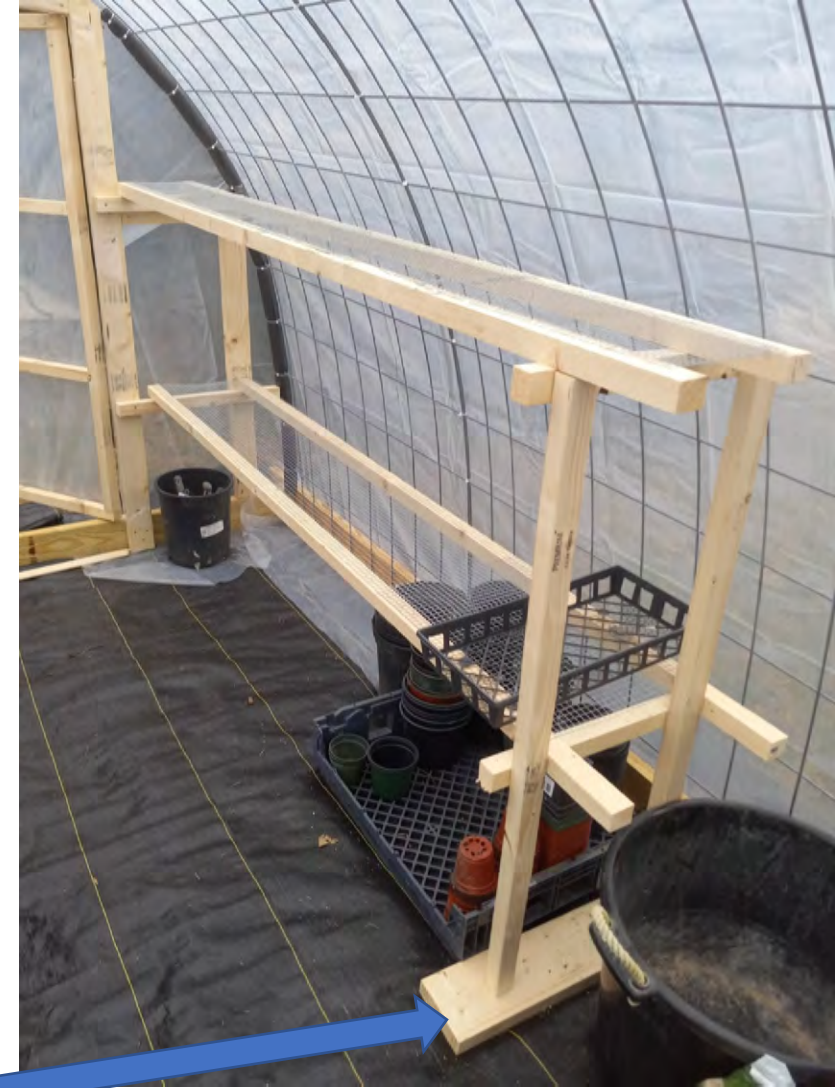
## Step 11: Optional Shelving

I used the table saw to rip 2x4's down to 2x2's to use for shelving, then cut/stapled hardware cloth in between the two boards.

Be mindful of the angle of the sun when making shelving.

2x2's screwed in to act as the shelving supports

Extra 2x4 added to the frame



2x6 base attached with pocket holes.

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## Step 12: Reclaim porch from wife.

