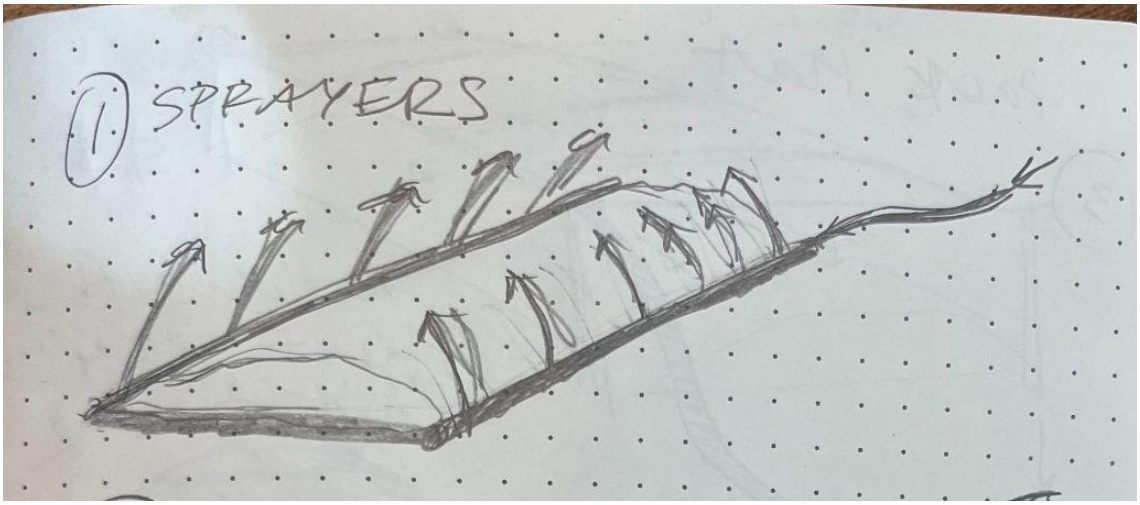
Option 1:

Rigid perimeter of PVC or similar piping around the compost pile. A valve at the hose connection point adjusts the distance that the water sprays.

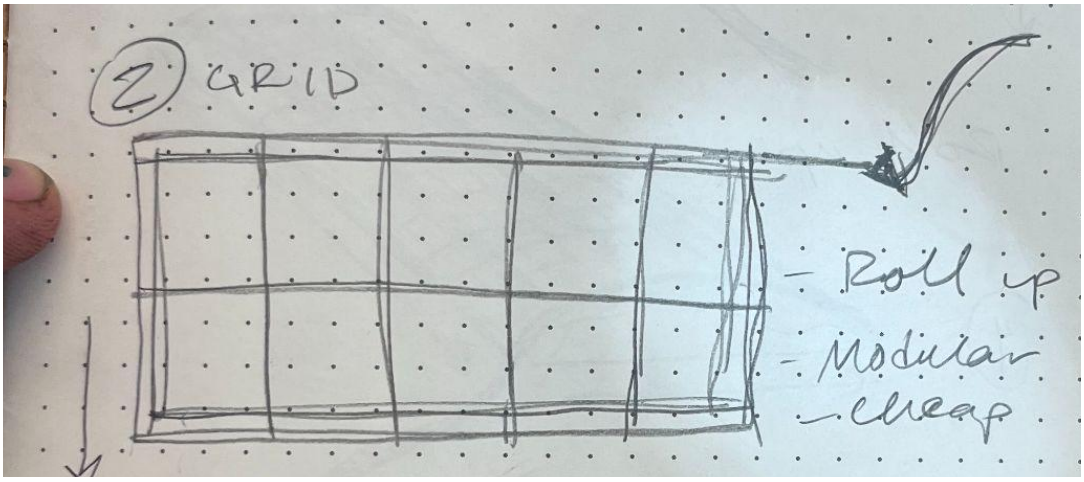


Pros	Cons
- Simplicity	- Might be hard to control water pressure
- Affordable/ Inexpensive - Uses few materials	- External weather factors could affect distribution of water
- Replicability	Easy to add or remove compost from the pile

Comments:

Option 2:

A grid structure designed to be fully modular, and adjustable to the size of the compost pile. Low cost and low materials make this design a practical choice for those trying to compost from home.

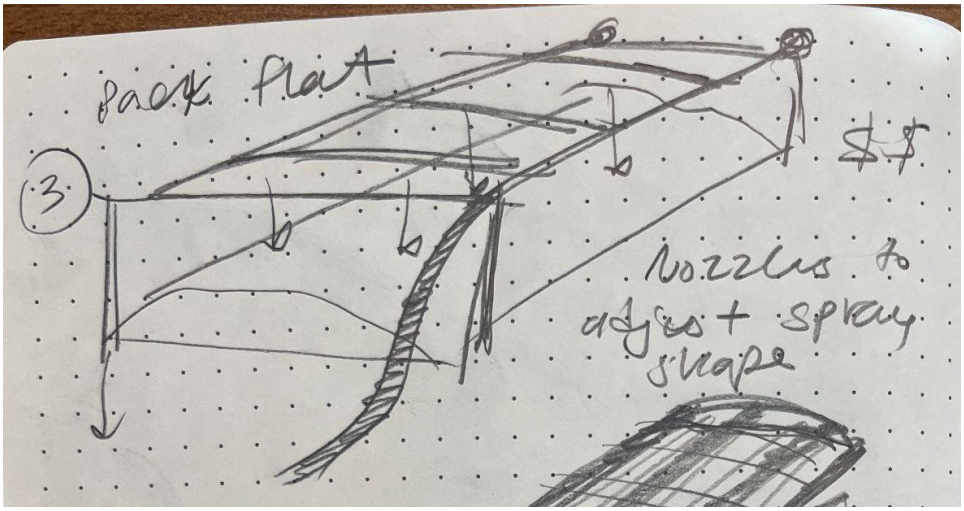


Pros	Cons
Modular Design ● Rows/columns can be added to adjust the size of the irrigation blanket according to the size of the pile	Prone to squirrel damage
Affordable/ Inexpensive	
Easy construction/replicable	

Comments:

Option 3:

This much more permanent design features a rectangular structure above the compost pile. Built out of PVC pipe, the water runs along one edge of the rectangle and is split down cross pieces to provide even coverage. The legs would be removable to allow the irrigation system to pack flat.

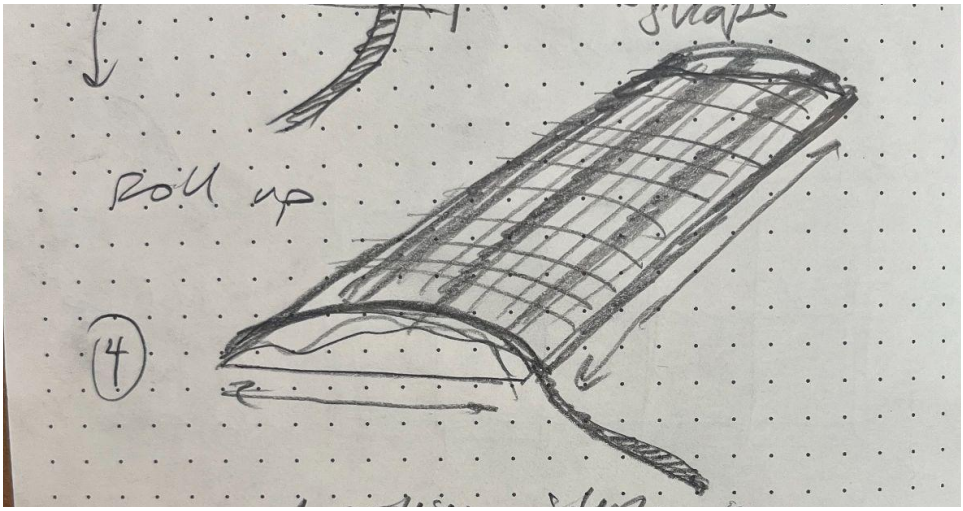


Pros	Cons
- Nozzles would allow even distribution of water to the pile	- More complex compared to other designs, harder to store
- Structurally strong by using legs that prop up the grid lines	- Might be expensive / more materials
- Permanent solution	- Less feasible as a DIY/at home solution
- Space above the compost pile allows material to be added without removing the irrigation system	

Comments:

Option 4:

Using a metal mesh as a base, rigid pipes run lengthwise along the compost pile to provide irrigation. Flexible piping runs along the ends which connect to the hose to supply water.

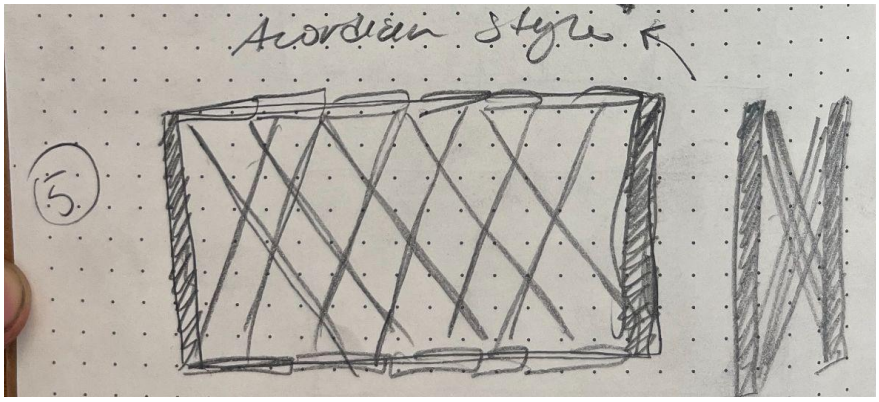


Pros	Cons
- Semi-portable (roll-up)	- Could be expensive depending on the material of the squirrel guard
- Chicken wire (or other material) discourages squirrels from chewing through	Not modular

Comments:

Option 5:

Similar to an accordion, this irrigation blanket sports a very flexible design. A layer of crossed, flexible piping allows for the blanket to be stretched lengthwise according to the size of the compost pile. This design also makes the blanket very portable as it can be packed down into a small bundle.



Pros	Cons
Very manageable and compact	Complex construction
Adjustable irrigation coverage	Could be prone to joint damage due to lots of movement
Easy to store	

Comments:

Criteria	Weight (1-5)	Solution 1		Solution 2		Solution 3		Solution 4		Solution 5	
		Rating	Weight Score	Rating	Weight Score	Rating	Weight Score	Rating	Weight Score	Rating	Weight Score
Replicability/DIY	5	4	20	4	20	3	15	3	15	2	10
Durability	5	2	10	3	15	5	25	5	25	2	10
Effectiveness	5	3	15	4	20	5	25	4	20	5	25
Cost efficiency	4	5	20	3	12	3	12	3	12	3	12
Simplicity	3	5	15	5	15	3	9	3	9	1	3
Ease of use	3	5	15	5	15	4	12	4	12	3	9
Sustainability	3	4	12	4	12	3	9	3	9	3	9
Scalability	2	5	10	5	10	4	8	2	4	5	10
Storability	1	4	4	5	5	2	2	4	4	5	5
Total		33	117	33	119	30	115	27	106	24	88