

The Enviropot

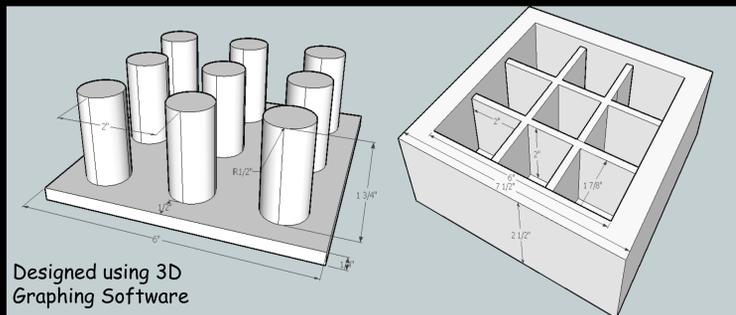
Shawn Ehlers & Zach Kemper

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Competition Final Presentation at the Indianapolis Rooftop Ballroom



Nine Cell Mold Casting



Materials Used

- Wiley Mill
- 1000g Scale
- Spatula
- 2x 25 ml Beakers
- 1 liter Mixing Container
- Oven set to 103°C
- Wooden Cast
- Non-stick Foil
- Wax Paper
- Double Sided Tape
- Recycled Packing Paper
- Bubble Wrap



Shawn Ehlers
Zach Kemper



Procedure:



Select Ingredients



Weigh Ingredients



Mill Ingredients to Uniform Size



Oven Dry Samples



Test Recipes



Improve Upon Findings

Recipe Selection Process:

Trial 1 Selection

Trial 2 Selection

Trial 3 Selection

Looking Back:

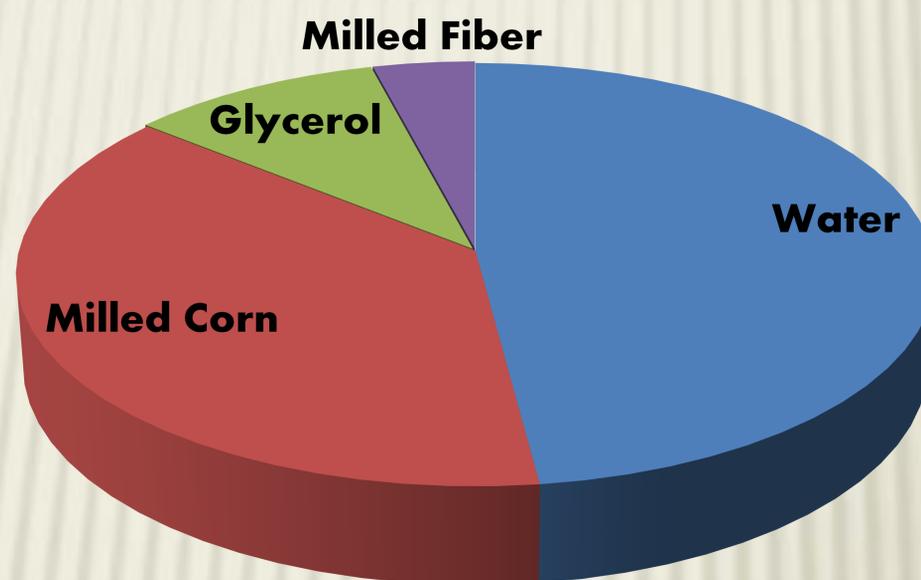
Upon completing this project certain modifications could be made before repeating this experiment. A nonstick mold surface would greatly improve extracting the containers. Also, we believe that higher baking temperatures would decrease the time required to make the product and give the finished container a harder surface.



Purpose:

The Enviropot is an environmentally friendly gardening container. As a starter container in greenhouses, it can be planted with its contents into a garden, minimizing plant damage caused by handling.

The Enviropot Recipe



Water (48%) + Milled Corn (38%) + Glycerol (10%) + Milled
Fiber (4%) + Heat (103°C)
=The Enviropot

