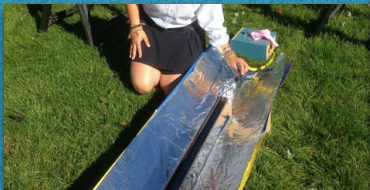


Our Purpose:
To find a cleaner, greener, safer, and cost effective method to sequester atmospheric carbon

FOCIS Furthering Ohio's Carbon Initiative for Sequestration

Methods



Twigs put into a coffee-thermos-like tube in a low oxygen environment

Repurposed Solar Tube

This worked we found our solution!

Conclusion:
We were able to make biochar quickly, cleanly, inexpensively, and safely in amounts useful as a soil additive fertilizer to local landowners while helping reduce atmospheric carbon.



We were also able to produce biochar in the winter

Parabolic Mirror

This did not work

Brainstorming and Research

- Communicating with an inorganic chemist and local graduate student
- Observed biochar production at the University Church Garden.
- Use of various websites
biochar-international.org
biochar.info.org
InnovateToMitigate Library



Lab Testing



Results

Tests showed slow release phosphate leeching in charred material only.

Standard Biochar vs. Our Biochar



Standard Biochar

Our Biochar



Fire Hazard