

Sewanee and the Haitian farmers partnered together to restore the local community and ecological resilience in Haiti while offsetting Sewanee's travel induced carbon emissions to Haiti. Zanmi Kafe accomplishes its goals through tree-planting agroforestry and payment for carbon credits with the Sewanee campus "green fund." Although this sounds like an easy feat, Dr. McGrath and her team struggle to easily quantify the carbon sequestration of the farms and to calculate the carbon payments for the farmers. Without an efficient and accurate process to calculate carbon sequestration and payments, Dr. McGrath cannot pay farmers appropriately and in a timely manner for the carbon credits. The lack of accurate and timely payment directly impacts the farmers livelihood as they heavily rely on Sewanee's business to benefit them and their families. These issues make it imperative that the DataLab team completes the necessary deliverables by the end of the summer in the highest of quality.

Bare Minimum Goals:

The goals that must be completed this summer include

- Creating an error free, functioning data set that contains all of the combined data
- Implementing the correct allometric equation/s
- Developing a process to determine the carbon sequestration and carbon payment data with the ability to choose specific farms, equations, and types of tree in the dashboard
- Publishing one deliverable online

Aspirational Goals:

The goals that our team hopes to achieve include

- Publishing a visually appealing dashboard of carbon sequestration numbers
- Designing a map of the carbon sequestration levels and the number of trees of each Zanmi Kafe partnered farm
- Determining the relationship between Sewanee carbon outputs and market coal prices
- Becoming published authors
- Traveling to Haiti in the near future

We expect that our deliverables and completed goals will allow for growth of the program, however the data related work of the Zanmi Kafe will still need more work done in the future.