**Statistical Design Consulting**

**SEMESTER REPORT**

**Summer 2024**

**Client:** Dr. Petrus Langenhoven **File Number:** 23-083

**Department:** Horticulture and Landscape Architecture **Major Prof:**

**Consultant:** Sumeeth Guda **Initial Meeting Date:** 07/25/23

**Meeting Attendees:** Robert Jung, Dr. Petrus Langenhoven, Dr. Chong Gu

**Statement of Problem:** To investigate propagation and on-farm hardening-off protocols on field establishment with CBD hemp

**Goal of This Project:** Journal Article, Grant Proposal

**Background:** The client developed a standard production procedure for the propagation (regulation) of CBD hemp in a controlled environment setting before the initial meeting. Specifically, the client wants to identify the procedure that is expected to yield the best rooting of cannabis cuttings. The experiment involved two different light treatments, referred to as Glow film-full spectrum and Patriot Plus-red/blue spectrum, that can cover an entire tray in the client’s lab. The client plans to have two replications of these light treatments in different locations in the lab. The client also has two other factors that they initially considered, namely, the propagation trays and the hardening off processes. The response variable is defined with stem diameter and height of the plant along the growth stage and whole plant fresh weight in the harvest stage

**Progress During Current Semester:**

During this past semester, the client wanted to create a poster visual using the code written by previous consultant Robert. The difference was that they needed to use newly collected crop yield data to create the visual for their posters. The client did not share the yield dataset with the client, even with some notifications from the consultant, and hence no work could be completed for this project during the semester. However, the client might re-apply in the Fall semester.

**Current Status: Continuing**