**Initial Meeting Agenda**

**File number:** #23-083 **|** **Client Name:** Petrus, Langenhoven

**Department & Position:** Horticulture and Landscape Architecture, Staff

**Expected Completion:** September 30th, 2023

**Stage of Research:** Analysis

**Major objectives**

What impact does propagation and hardening off procedure have on the establishment, survival, and growth (production) of hemp?

**Discussion Point 1**

Does the light source and type of propagation tray affect the growth and rooting of clones?

* ANOVA to compare means across different light sources and propagation tray types, followed by post-hoc tests for pairwise comparisons if significant differences are found.

**Discussion Point 2**

What is the impact of the hardening-off procedure on the survival of clones in the field?

* Option 1: Chi-square test to compare survival proportions between different hardening-off procedures.
* Option 2: Plot Kaplan-Meier survival curves for each group and visually check the survival probability of plant clones over time for each procedure. Then test by either log-rank test or Cox proportional hazards model.

**Discussion Point 3**

Does propagation and hardening-off procedures affect hemp production?

* Regression to assess the relationships between propagation/hardening-off factors and hemp production yield, considering confounding variables.

**Discussion Point 4**

Do the treatment combinations affect the growth rate?

* ANOVA to analyze the influence of multiple treatment factors and their interactions on the growth rate of plants. Post-hoc tests can be also applied.