

Mr. Ellyson Graduated from Humboldt State University with a Master of Arts degree having focused his research on canopy science. His specialty at the time was canopy epiphytes which resulted in the publication "Epiphyte Communities on Sitka Spruce in an Old-Growth Redwood Forest" by William J. T. Ellyson, Stephen C. Sillett in *The Bryologist* Vol. 106, Issue 2 (Jun 2003), pg(s) 197-211. Ellyson was part of the first group of researchers to ever explore the canopy of ancient redwood forests. Following participation in multiple canopy studies, Ellyson operated as an independent contractor performing canopy wildlife, vegetation, and forest inventory surveys for 15 years. During this period, he operated Ellyson Field Science LLC as a sole proprietor. In 2014 Ellyson began consulting for a cannabis marketing firm Welkin. In 2015 Ellyson coordinated a meeting of Humboldt farmers to discuss branding of Humboldt County Cannabis. This meeting resulted in the start-up company The Humboldt Sun Growers Guild and parent company Humboldt Heritage. Through these efforts we created the brand True Humboldt that is intended to represent the heritage and quality of Humboldt County Cannabis. After three years of start-up operations the business was able to designate Ellyson's position as Chief Science officer providing him with a yearly research budget to assist in improving the quality and quantity of cannabis for the over 350 farms that have signed up with the guild. In addition, research prioritizes lowering the cost of growing while minimizing the environmental impact. Ellyson having one year of research completed, attended the 2019 Emerald Conference to learn several key pieces of information from the research that was presented. One was that potency may vary considerably based on plant position and two that absence of UV light may limit a plants immune response. Ellyson chose to validate these findings as well as study the effects of greenhouse plastic and the effect it has on filtering UV light. Ultimately Ellyson suspected greenhouse plastic may be unnecessary in fair weather decreasing the immune response of the plants thus increased powdery mildew infection and decreased potency.