Information 3/10/2021

***Species-specific Protocols:***

*Sporocarp Mass:*

Measurement of mass and biological efficiency will be the same for all species. Yield by mass will be determined by weighing the edible portion of the sporocarp. Fresh and dried weights of sporocarps will be collected.

*Biological Effeciency:*

The weight of the substrate at the end of each harvest period will be recorded. The change in substrate mass from time of inoculation and sporocarp mass will be used to calculate biological effeciency. Water content of the substrate will be held constant, so any decrease in mass will be due to consumption by fungi.

*Sporocarp Size:*

Size of sporocarps may have to be measured differently depending on the structural differences

* **Cap & Stipe:**

The width and height of the cap will both be recorded.

* **Shelf:**

The size of shelf mushrooms such as *Pleurotus* and *Auricularia* will be determined by measuring their average with and thickness at the center. The average will be obtained from two measurements at a 90° angle.

* **Coral / Ball Fungi:**

The size will be measured by the average diameter of individuals. Average diameter will be obtained from measurements along three axis.

**Sources/Notes:**

“The first flush was harvested 5 weeks after inoculation. For A. subrufescens 4-5 flushes were harvested; for A. bitorquis and A. arvensis 3-4 flushes were harvested. Yields were determined as weight of harvested fresh mushrooms from the whole cropping period per fresh weight of substrate at inoculation.” (Jasińska et al. 2014)

**Rossi, M. J., & Oliveira, V. L. (2011). Growth of the ectomycorrhizal fungus Pisolithus microcarpus in different nutritional conditions. *Brazilian Journal of Microbiology*, *42*(2), 624-632.**

(Rossi & Oliveira 2011)

**Rzymski, P., Mleczek, M., Siwulski, M., Jasińska, A., Budka, A., Niedzielski, P., ... & Budzyńska, S. (2017). Multielemental analysis of fruit bodies of three cultivated commercial Agaricus species. *Journal of Food Composition and Analysis*, *59*, 170-178.**