

# Parasite Prognosticators Experimental Design Diagram

**Title:** The Effect of Remedies on Brown Soft Scale Insects on Dieffenbachia Plants

**Hypothesis:** **Alternate Hypothesis**  
*Horticultural oil will be more effective than isopropyl alcohol in removing brown soft scale insects.*

**Null Hypothesis**  
Horticultural oil and isopropyl alcohol will have the same effect in removing brown soft scale insects.

**Independent Variable:** Type of remedy

<b>Levels of Remedies</b>	Isopropyl Alcohol	Horticultural Oil	No Remedy (Oil Control)	No Remedy (Alcohol Control)
<b># of Trials</b>	1	1	1	1
<b>Control</b>			Control	Control

**Dependent Variable:** Amount of removal of brown soft scale insects

**Operational Definition of the Dependent Variable:** Difference in mass of honeydew between remedy and control side

**Constants:** Placement of plant

Plant (Dieffenbachia)

Placement of plastic trays

Soil

Ratio of each of the remedies (1:100 for horticultural oil:water; 87.5:12.5 for alcohol:water)

Sunlight