

Parasite Prognosticators Experimental Design Diagram

Title: The Effect of Remedies on 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 on removing brown soft scale insects.

Independent Variable: Type of remedy

Levels of Remedies	Isopropyl Alcohol	Horticultural Oil	No Remedy (Oil Control)	No Remedy (Alcohol Control)
# of Trials	1	1	1	1
Control			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