



Screenhouse Field Day

Waimanalo Research Station

Commercial Conley System

READY MADE HIGH TUNNEL SYSTEM

Cost: \$2.77 - \$ 4.22 / ft² (2016 prices)



EZ Corner System

SCREENHOUSE

Cost: \$1.10 - \$1.93 / ft² (2016 prices)



DIY Screenhouse Systems



SCREENHOUSE WITH WOOD-BASED FRAME

Cost: \$.95 / ft² (2016 prices)



HOOP HOUSE

Cost: \$.68 / ft² (2016 prices)

Handmade door, no retractable wall

SCREENHOUSE WITH RETRACTABLE SCREEN

Cost \$1.09 / ft² (2016 prices)

Retractable screen wall allows for movement of pollinators to production area

HOOP HOUSE WITH RETRACTABLE SCREEN

Cost: ^B\$1.12 / ft² (2018 prices)

Store bought door; Retractable screen wall allows for movement of pollinators to production area

These DIY screenhouse prices range from \$.68 - \$ 1.12 / ft², which is equivalent to \$286 - \$470 for the structure and screen of a 14' x 30' x 6' hoop house using 17 mesh screens and materials available from local hardware stores.



Sustainable
Pest
Management

INSECT NETTING

Different insect nettings (table below) can be used on the screenhouse. While these nettings can block out larger insect pests such as pickle worms, melon flies, imported cabbage worms, finer-mesh screenhouses (40- and 75-mesh) can also reduce silverleaf symptom caused by whiteflies. However, the reflective shade and 40 mesh increased aphids infestation. Powdery mildew symptoms were reduced by most of the screenhouses except occasionally increased in 17-mesh house. For more information please refer to HainaAi Volume 28 (<https://cms.ctahr.hawaii.edu/soap/Hanai-Ai/volume-28-dec-2016-jan-feb-2017>).



Insect Exclusion Screen Material	Price	Screen *	Hoop House**
17 mesh	\$0.12 / sq ft	\$150	\$470
Solaro Exterior Reflective Shade, 30% shade	\$0.22 / sq ft	\$264	\$584
Anti-Insect Netting, 40 Mesh	\$0.34 / sq ft	\$414	\$734
No Thrips Insect Screen, 75 Mesh	\$0.85 / sq ft	\$1,020	\$1,340

* 24' x 50' of screen is required for a 14' x 30' hoop house.

** Total cost of a Hoop House with Retractable Screen.