



Asian Cycad Scale
Aulacaspis yasumatsui Tagaki 1972
DIASPIDIDAE

Asian Cycad Scale Chronology

- **1996** – Scale detected in Florida on cycads growing in a botanical garden
- **1998** – Scale detected in Hawaii
- **2003** – Scale detected on cycads used for landscaping in Tumon hotel district on Guam
- **2004** – Scale spreads to *Cycas revoluta* and *C. micronesica* throughout Guam
- **2006** – Scale infests *C. micronesica* on Rota
- **2007** – Scale infests cycads in Palau





Scale Morphology & Life History



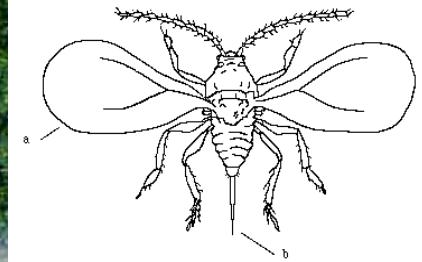
Eggs

Male cocoon

Female scale

Crawlers

Adult male



























Fadang plants flush at start of rainy season





New cycad growth defoliated by *Chilades pandava* larvae



Defoliation by *Chilades pandava*



Chilades pandava larva on *Cycas micronesica* with attendant ant,
Aplopopolepis gracilipes



Current Status of *Cycas micronesica*

- Most ornamental cycads have been killed and between 60% and 90% of the endemic *Cycas micronesica* have died from attacks by ACS and other recently arrived invasive insects.
- *C. micronesica*, which was Guam's most populous tree in 2002, is now on the IUCN Red List of Threatened Species.
- Seedlings are not surviving – no recovery by reproduction