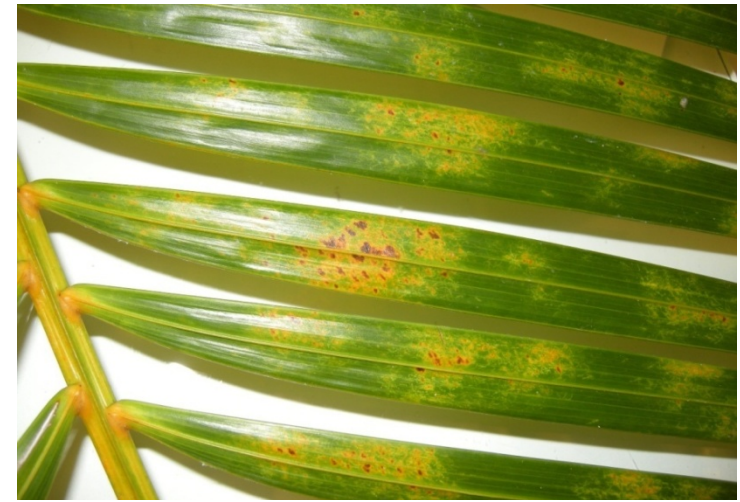


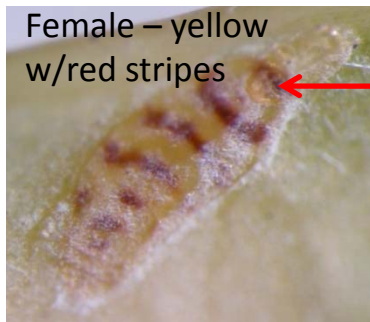
New Armored Scale on Palms and Ornamental Plants in Hawaii

Fiorinia phantasma (Hemiptera: Diaspididae)

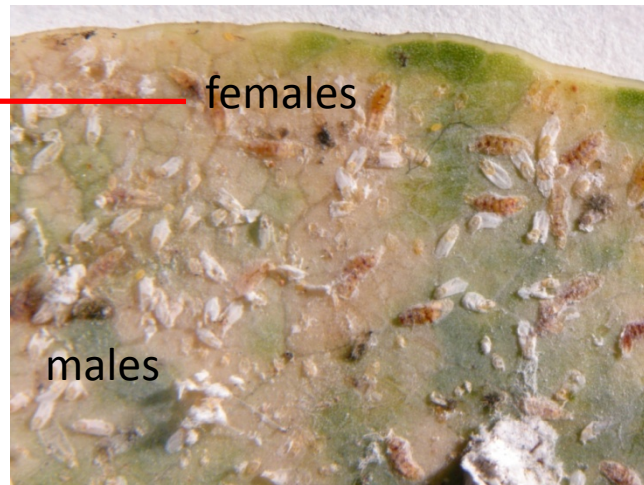
- *First discovered in Hawaii in Dec 2004 on Japanese privet on Oahu; previously, only reported from Philippines.
- *Also found on various palms, including coconut palms and traveler's palm, kamani, *Ficus benjamina*, *Cassia* sp., naio (myoporum), pandanus, heliconia, mock orange, Madagascar olive.
- *Reported as a serious pest on areca palms in the landscape in Wailea/Kihei, Maui (Sept 2011).
- *Natural enemies not identified yet. Scale insect is totally encased in their cast skin "shell" providing protection.
- *Horticultural oils should be effective against crawler stages. Systemic insecticides (e.g. Safari) and insect growth regulars (e.g., Distance , Talus) maybe effective.



Damage on upper leaf surface of areca



Female – yellow w/red stripes



females

males



Infestation on lower leaf surface

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October 2011