**CRB Trapping Tips**

- Traps should be placed in open areas away from coconut and other palm trees to draw rhino beetles away from plants.
- Keep tekken netting free of weeds to be able to observe and service the CRB traps.
- Provide small holes at the bottom of the barrels no larger than one-quarter inch diameter to allow water to drain during rainy periods.
- Barrel traps should be inspected every month and more organic material added to each barrel as needed.
- Check solar lights weekly to ensure functionality as current SUVLEDs have a high failure rate. To check, cover solar panel with your hand and observe if the light turns on.
- Lures should be inspected weekly. Hang a new lure when the liquid in the plastic window disappears.

**Principles of CRB Management**

**Education:** - Learn about the CRB and proper care of palm trees.

**Monitoring:** - Observe CRB activity in your area.

**Sanitation:** - Site management of organic matter and plants.

**Trapping:** - Use traps to prevent CRB from damaging your trees.

Figure 5: Tekken net covering a large pile of fresh organic material.

Guam Invasive Species Hotline
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# Coconut Rhinoceros Beetle Trapping

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## Standard CRB Pheromone Trap

Research conducted by UOG CNAS shows that standard pheromone traps for coconut rhinoceros beetle (CRB) (Fig. 1) are not attractive enough to reduce the rhino beetle population on Guam.


Figure 1: A standard CRB pheromone trap.

However, recent trap developments now provide the community with improved trapping options that are:

- More attractive
- Simple to build
- Manageable
- Economical

## Tekken Trap

A gill net called *Tekken* in Chamorro with a one inch mesh measured knot to knot made from 0.25 mm nylon monofilament netting should be laid over piles of plant/tree cuttings or decaying organic matter. Compost piles are very attractive to rhino beetles looking for a mate or egg-laying site. A beetle becomes trapped when monofilament drops into the gap behind its prothorax (Fig. 2),the same way fish are caught in gill nets. The tekken netting can also be draped over CRB infested piles to capture emerging adults (Fig. 3).

Figure 2: CRB caught in tekken net.

Figure 3: CRB-infested green-waste pile draped with tekken netting.

## Barrel Trap

Some people prefer to build smaller traps that are not as visible as large piles. Barrel traps can be built using recycled 55 gallon metal oil barrels, plastic barrels or large heavy duty plastic trash cans. If desired, traps can be painted decoratively to be more presentable (Fig. 4).

Figure 4: CRB barrel trap.

Barrel traps are filled with decaying coconut or other organic material up to six inches below the top. The barrel is then covered with a small piece of tangle netting. A solar-powered ultraviolet light emitting diode (SUVLED) is added along with a CRB pheromone lure.