



Saving Native Hawaiian Forest Birds Is In All Of Our Hands

What is a forest bird?

Most forest birds are smaller than chickens, seabirds or geese, usually just a few inches from the tips of the tail to the bill. Most nest, rest and feed in shrubs and trees. Many are brightly colored and have unique songs.

What makes them special?

The ancestors of today's Hawaiian forest birds arrived many thousands of years ago by accident, maybe caught up in storms while flying. To survive, they adapted what they ate and over time, even their beaks changed to take advantage of different foods. Without many predators, different species developed, sometimes living in just one area of one island. All of the birds celebrated in the **Makahiki o Nā Manu Nahele** are endemic to the Hawaiian Islands, found here and nowhere else in the world. They are irreplaceable.

What's happening to them, why are they so rare?

Hawaiian forest birds once lived all the way down to the sea. Mosquitoes spread diseases between birds, so when they were accidentally brought to Hawai'i, the birds could only survive where the mosquitoes could not reach them, high in the mountains. Cats, mongooses and rats eat eggs and kill adult birds. Deer, goats, sheep and pigs destroy forest bird habitats. Hawai'i once had over 84 different species of forest birds. Today only 26 survive, and several may go extinct in just a few years.

How can you help?

- Keep cats indoors!
- Make sure mosquitoes cannot breed in standing water around your home or school.
- Teach each other about our native forest birds.
- Create and fly a flock of origami Hawaiian forest birds to help raise awareness!



Why do forest birds have different looks and calls?

Forest birds can see colors so bright feathers and patterns help them recognize other birds that may be either friends, mates or competitors. Calls and songs also communicate these things in the forest. Different bill shapes allow each species to eat something different from others.

What do they do for us?

Honeycreepers that specialize in eating nectar pollinate native flowering trees and shrubs. Seed-eating forest birds help spread seeds. Insect-eating birds control insects and recycle nutrients. Most of them use lichens and mosses for building nests. Their feeding and nesting work helps forests be more productive and healthy, making more oxygen and storing more fresh water – things all creatures need, including people! Hawaiian forest birds are important in Hawaiian *mo'oleo, mele, oli, hula*. They have long been considered *kinolau*, and some *'amaukua*.



Students across Hawai‘i are asked to create one origami of a native Hawaiian forest bird from their island for the **Makahiki o Nā Manu Nahele**, to inspire each community to learn about and care for our precious forest gems!

How should my origami ‘anianiau look?

‘*Anianiau* are the smallest of all honeycreepers at just four inches long. Males are mostly bright yellow, females are duller yellow, both are darker yellow on their wings, and have pale legs and pointy, slightly down-curved beaks.

More on ‘*anianiau*:

<https://dlnr.hawaii.gov/wildlife/birds/anianiau/>



Photo: Patrick Blake

Photo: Lucas Behnke, TNC



‘*Anianiau* (*Magumma parva*)

Found only on Kaua‘i (endemic), ‘*anianiau* are curious and always on the move, looking for insects, small fruits and nectar. They feed alone or in large groups around favorite nectar sources. They usually prefer native plants, but have been seen feeding in introduced species. Once found across wooded areas of the island down to sea level, they are now found above 500 feet, in wet and mesic forests, only on the northwest side. Although they don’t live in all their former areas, they seem to have some resistance to avian malaria, the disease which is spread by mosquitoes and deadly to most Hawaiian forest birds. Competition from introduced birds such as Japanese white eyes and introduced grazing animals damaging forests are still problems for this species. Even introduced ants and wasps which eat native insects compete with ‘*anianiau* for this food source. And just like all other native birds, cats, rats and mongooses take their toll. For the moment, ‘*anianiau* are not endangered, but are still considered vulnerable.