

Forest Birds - 2 projects

- **Jordan:** The purpose of our experiment was to find out what identifiable native birds live in the forest on Pu`u Pili and if they seem to prefer certain areas of the forest.
- **Kristen & Adam:** How many birds will visit a specific spot over a certain amount of time?

Native Hawaiian Birds



<http://www.bird-friends.com/pics/Apapane/ApapaneOLR.jpg>

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Project 1 By Jordan and Kako

Purpose of Our Experiment



- The purpose of our experiment was to find out what identifiable native birds live in the forest on Pu`u Pili and if they seem to prefer certain areas of the forest.

Our Hypothesis



<http://cache2.allpostersimages.com/p/LRG/26/2685/EOXUD00Z/posters/johns-chris-view-of-an-i-wi-bird-on-akala-or-hawaiian-raspberry.jpg>



<http://blogs.ksbe.edu/mms/files/2010/08/apapane.jpg>

- Our hypothesis was that `I`iwi and Apapane would be the most common native birds we would see.

Materials We Used

- We used...
- Pencils and erasers
- A data table
- Digital recorder
- Camera
- Binoculars



<http://www.cybertheater.com/wp-content/uploads/2009/08/cdbx700.jpg>



<http://ronnievicker.co.uk/2009/12/1/erasable-puffy-eraser-or-plastic-eraser-is-there-a-difference/>



http://cache-images.pronto.com/thumb2.php?src=http%3A%2F%2Fimages.pronto.com%2Fproducts%2F%2F%2F%2Fshop15983650845211027024233sc7-1275898742_100x99.jpg&wmax=180&hmax=180&quality=80&bgcol=FFF



<http://www.itsnews.net/2007/02/27/sony-dscw90-dscw80-digital-cameras/>



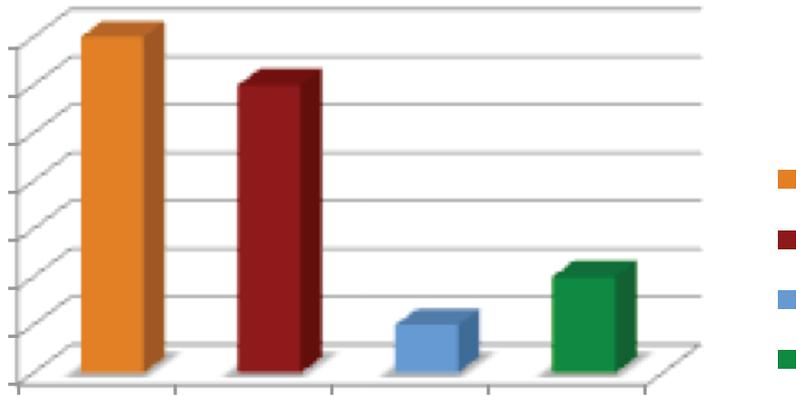
<http://image.become.com/imageserver/s5/64709875-150-150-532/11-bean-discovery-binoculars-8x25.jpg>

Our Procedure

- 1. Chose an area of the forest to observe (in our case, the ridge)
- 2. Move around in the general area, stopping to listen and look for birds ever few minutes
- 3. Record all the birds seen or heard into the data table and spend as much time observing as time allows



Data Summary



Amakihi and
'Apapane were the
most common
species



<http://www.friendsofhakalaforest.org/amakihi.jpg>
Amakihi

Conclusion

From our data we can conclude that Amakihi was the most common species that we observed in the forest, but Apapane was a close second. `Io and `Elepaio were the only other species that we saw. Our hypothesis was partially correct because we thought Apapane would be one of the most common native birds in the forest. However, we had no idea that the Amakihi would be the most common native bird. If we were going to run the experiment again we would have tried using the recorder in the lab first because it didn't work the way we expected, and as a result, we were unable to record the birds singing.



<http://www.fws.gov/hakalaforest/Refuge%20images/Amakihi-%20Jack%20Jeffrey.jpg>



<http://www.fws.gov/hakalaforest/Refuge%20images/Amakihi-%20Jack%20Jeffrey.jpg>

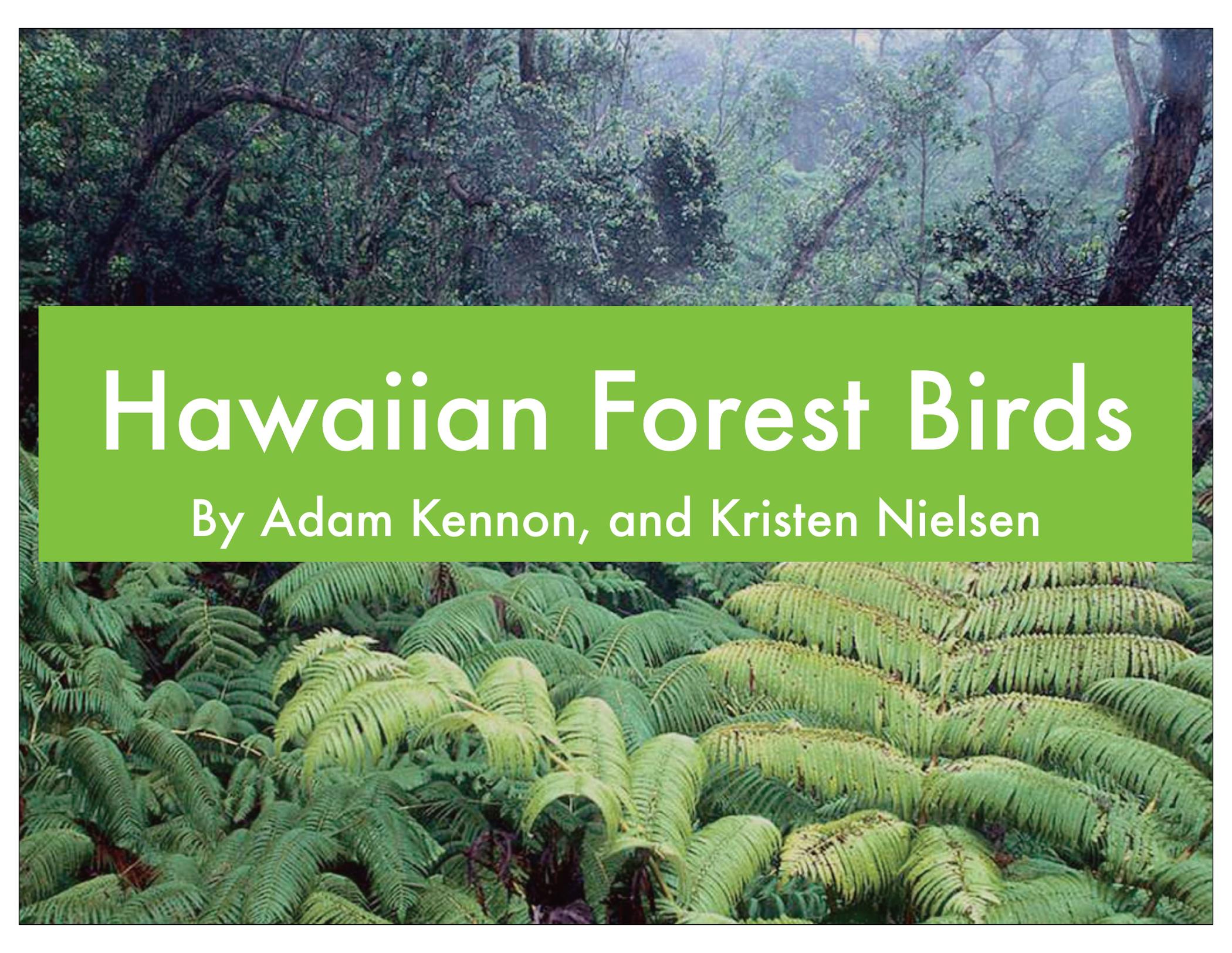
Top 3 Things We Learned

- We learned that birds can help the forest by pollinating flowers
- We learned how to identify native birds in the forest
- We learned how hard it is to determine what species of bird we actually saw or heard



Thank you for listening!





Hawaiian Forest Birds

By Adam Kennon, and Kristen Nielsen



How many birds will visit a specific spot over a certain amount of time?



Procedure

- 1. find an observing spot in the forest
- 2. sit down and wait for birds
- 3. when bird is found record species / description and behavior as possible
- 4. leave spot after 30 minutes
- 5. go to a new spot and repeat steps 1-4

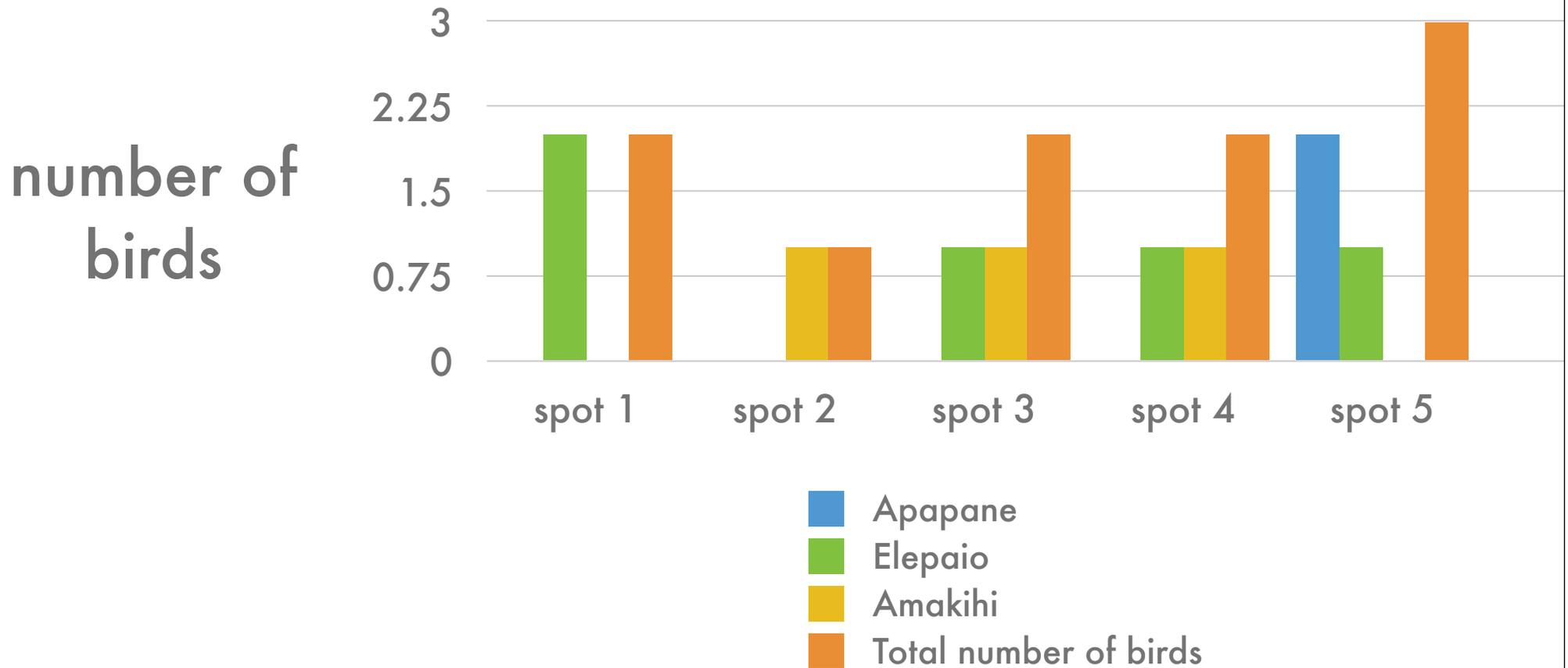


one of the spots

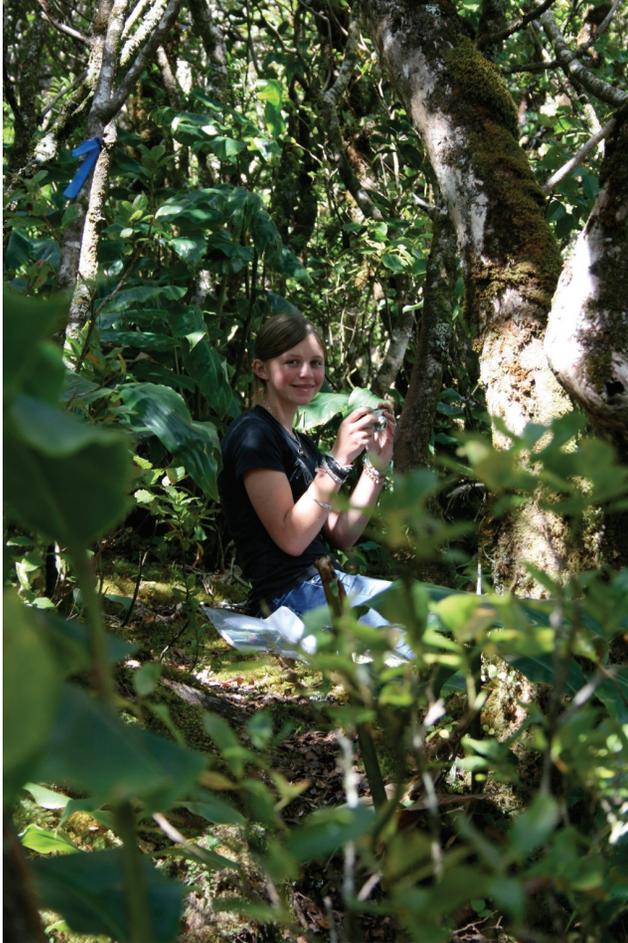


another spot

Data



Data Summary



Many birds were found in the forest. When out there, I observed ten birds though heard many more. I found many birds near the river and in clearings. Elepaio was the most common bird I saw. There were about five, I also saw three Amakihi and two Apapane. Wherever I went there were, on average, two bird sightings, once I even saw three. I watched for birds in five places and stayed at each spot for

Conclusion

- Our project went smoothly. About two birds were found in each spot and the Elepaio was the most common and was a very curious bird. Three species visited us (Amakihi, Elepaio, and Apapane). Apapane wasn't very common in our test and was either flying overhead or pretty far away.

Top three things we learned

- 1. The Elepaio is much more curious than we thought
- 2. Much of the Elepaio's home was destroyed when they made the ranch
- 3. there were much more birds than we originally thought in the forest

