BIO 1150L Bird Watch Video Paper

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Introduction:

The two bird observations that took place were from two videos: Gopro Bird Feeder Cam Video and Pileated Woodpecker Samples the Fare on the Cornell Feeders Video. The observations are the interactions of the different bird species that appear at the feeder and how they interact with each other and the food in the feeder. The bird species could have different interactions or what bird species that can be observed could be based on:

1. Other bird species that are at the feeder.
2. What type of food is available at the feeder.
3. The time and environment that the feeders are placed in.

But these are just a few examples of a number of variables that could come into play for the observations.

Hypothesis: I hypothesis that based on the species of birds seen in the videos, that Blue Jay and different types of Woodpeckers are the only ones that are seen on both warm and cold environments.

Preliminary Data:

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| --- | --- | --- | --- |
| Bird Species found In Both Videos | Birds Found Separately | Cold Environment | Warm Environment |
| Blue Jay | Red-Bellied Woodpecker | Blue Jay | Blue Jay |
| Woodpecker | Northern Cardinal M/F | Woodpecker | Cardinal M/F |
|  | Sparrow M/F | Sparrow | Woodpecker |
|  | Pileated Woodpecker |  |  |

Proposed Experiment: To Help test this Hypothesis, I can take bird feeders and video cameras, set them up in locations where blue jays, and woodpeckers are common then during warm and cold times of the year record how often or if either or both appear during each time period in both environments. With this experiment, I can prove that either:

1. Both Blue Jay and Species of woodpeckers survive and live on warm and cold environments.

or

1. I will record and conclude that neither or only one of the species can survive or live in both environments.

Other Considerations: Three other topic of study could be as follows:

1. Bird migration
2. Survival rate
3. Population size

Observation Notes From the two Videos

Gopro Bird Feeder Cam Video Notes

* Woodpecker | 1st appearance | 7:00 A.M.
* Downy Woodpecker | 8:00 A.M.
* Woodpecker vs Blue Jay | 10:00 A.M.
  + Woodpecker (hairy woodpecker) would try and keep the blue jay at bay and would peck at the wooden bird feeder.
  + When the woodpecker leaves, the blue jay would come in for a few pieces of food then leave before the woodpecker comes back.
* After this occurrence a new bird comes by: Female Northern Cardinal
  + It easts from the feeder and not much else.
* After a time a White-Breasted Nuthatch comes by, it doesn’t take any food but comes by for a few seconds and then flies off along with the female northern cardinal.
* When the White-Breasted Nuthatch and female northern cardinal leave, a Male Northern Cardinal Arrives
  + He mainly just eats from the feeder
* He is soon joined by the White-Breasted Nuthatch that takes a piece of food and bolts, soon after, a Possible Dar-Eyed Junco or arrives, again takes a piece of food and ;eaves right away.
* As this goes on, the Male Northern Cardinal continues to feed and mind his own business.
* The Male Northern Cardinal leaves and the Blue Jay comes and takes its place at the feeder.
* The Blue Jay comes and eats for a bit, looks around and leaves.
* Then the Dark-Eyed Junco appears again to attempt to feed for a small time before the Male northern Cardinal Comes back and scares away the Junco
* The Male Northern Cardinal Leaves and the Blue Jay returns to the feeder
  + He feeds on the bread from the feeder instead of the seeds (first bird to do so)
* After a time the Blue jay leaves and a White-Breasted Nuthatch appears on its own to hope to feed at the feeder.
  + But flies off instead.
* After some time passes, the Blue Jay returns again for food.
  + Feeding on the nuts in the feeder
  + Also feeding on the bread in the feeder
* When the Blue Jay leaves a smaller blue jay arrives in hope of feeding at the feeder
  + But after its arrival, the bigger blue jay comes back and scares the smaller one away.
  + When the Big Blue Jay leaves again, the smaller blue jay comes back to feed for a bit when it can
* After the smaller Blue Jay leaves, the potential female northern cardinal comes back for food.
* The robin leaves, and the small blue jay returns for more food.
* The small Blue jay stays and eats for some time, until the big blue jay comes in and scares it off again so it can also eat.
* Then another Blue Jar arrives around the same sizer and the previous one and takes over the feeder and begins to feed. It takes some bread and flies away. Then with the feeder empty another blue jay comes over for food.
* Blue Jays come one by one to eat at the feeder. (Possibly do not like to eat in groups?)
* After a time, there is a small blue jay eating when a bigger one come sin and starts feeding. The little one tries to eat some more and the big blue jay fights and sends it away.
* Blue jays continue to come and go one by one and feed, a coupe fight to drive the other away from the food.
* After a time goes by there is a female northern cardinal and a female white-throated sparrow on the feeder together.
  + They both are eating together and show no signs of conflict or aggression.
* After some time has passed, a Red-Bellied Woodpecker and a Dark-Eyed Junco Are feeding at the feeder together and dot seem to be trying to get the other to leave.
* When the red-bellied woodpecker flies off, a Female White-throated Sparrow comes by and eats.
* The Dark-Eyed Junco is still around.
* When the red-bellied woodpecker returns the junco leaves along with the sparrow
* After some time, a blue jay comes back to eat and then a second one shows up and scares off the first.
* This process repeats as another blue jay shows up and the last one left the feeder.
* Then two blue jays appear at the feeder ad start to eat together. They don’t try to drive each other away from the food.
* Later in the video, after the blue jays leave, there is a Downy Woodpecker, small one that appears at the feeder, along with a Dark-Eyed Junco that eats at the feeder.
* As time goes by, the downy woodpecker feeds from the feeder in the center and multiple Dark-Eyed Junco are arriving and eat from the outer edges of the feeder with the downy woodpecker.
* After they all leave a blue jay appears and eats then throws a seed at the video camera.
* He starts to feed then flies away as a Red-Bellied woodpecker comes in to feed at the feeder.
* When the red-bellied woodpecker leaves a squirrel comes and is seen in corner of the camera to take some of the bird feed from the feeder. The Squirrel walks in the feeder and eats the bird feed. It eats at the caged food in the center trying to get at it through the bars.
* After a time the squirrel leaves and a red-bellied woodpecker comes back for more food.
* It is then joined by a male white-throated sparrow. They both eat together at the feeder.
* When a blue jay appears, the male throated sparrow leaves and then the red-bellied woodpecker flies off with the blue jay. Then another blue jay comes by to feed solo.
* The blue jay flies away as the red-bellied woodpecker appears at the feeder for food. When the blue jay returns the red-bellied woodpeckers yells at it to try and scare it away from the food.

That is the End of the Video

Pileated Woodpecker Samples the Fare on the Cornell Feeders Video Notes

* The video begins with a small group of birds all eating from feeders together, there are a couple mourning doves and a couple of European starlings (I think?) along with a Pileated woodpecker in the background on its own. Later a common grackle comes and scares all the birds away then leaves too. Except for one of the mourning doves, by after a few seconds the dove leaves as well.
* The pileated woodpecker is still in the background on its own.
* A European starling comes for a quick bite and leaves the feeder.
* A common Grackle arrives at the feeder alone and begins to eat.
* The Pileated Woodpecker comes over to the main bird feed, and the Common Grackle flies way back to where the woodpecker just before. As the Pileated Woodpecker feeds on the feeders for food.
* The pileated woodpecker continues to eat on its own when it I joined by a blue jay bird.
* They both eat for a bit then the blue jay flies away as the pileated woodpecker continues to eat.
* The blue jay returns and eats at the feeder, as the pileated woodpecker still continues to eat.
* The blue jay leaves and the common grackle returns to feed on another feeder away from the pileated woodpecker.
* The common grackle leaves the feeders as the blue jay returns to eat, all the while the pileated woodpecker is still eating as well.
* The blue jay leaves, leaving the pileated woodpecker to eat alone again.
* After a few moments, the common grackle returns for more food itself. Then leaves.
* The Pileated Woodpecker that has been eating at a single feeder this whole time comes down and starts to eat from the big feeder bin at the center.
* The common grackle comes up and eats from the big bin behind the woodpecker.
* The woodpecker starts to eat from another side feeder.
* The two are joined briefly by a third bird that came and left right away.
* The common grackle leaves and a European starling comes in to feed while he pileared woodpecker still feeds.
* They are joined by a third bird it feeds then leaves them.
* A mourning dove returns to the feeder for more food.
* All three eat and then a common grackle comes back and joins them all and eats from the feeder
* They are later joined by a couple other common grackles. They all eat then the woodpecker flies off and so do the common grackles, leaving the mourning dove to eat alone.

That is the end of the video.