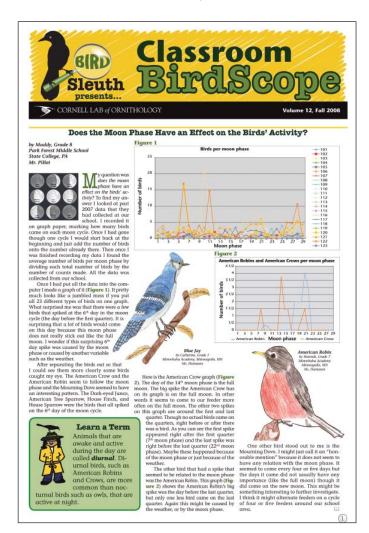
BirdSleuth Inspires Student Inquiry

By Phil Kahler

In the September/October 2001 issue of *Connect* I wrote about how my students and I have been monitoring the bird populations that visit our school's feeding station. As participants in the Cornell Lab of Ornithology's BirdSleuth program, my seventh- to tenth-grade students continue to collect bird observation data to use for their own inquiry projects and to share online with scientists at <u>http://eBird.org</u>. Each spring my students submit their reports for publication in BirdSleuth's student research journals.



In 1994, students and parents constructed a bird-feeding station across the creek behind our school. We have been collecting bird data there ever since. During the time that we have collected data we have noticed significant shifts in the bird populations visiting our feeders and have witnessed extraordinary changes to the local environment.

When we first began collecting data our most populous species was the darkeyed junco. House sparrows had never been observed at our feeding station. Throughout the 1999–2000 school year we observed a dramatic drop in the dark-eyed junco population and experienced a huge influx of house sparrows. The effect was impressive enough to catch the attention and concern of nearly all of my students. Why was this happening? Was it a coincidence? Did the construction of houses and the loss of the field behind our school have something to do with this change? Were the house sparrows driving away the juncos?

Online authors

In 2002, Kristina, one of my tenth-grade students, wrote a paper for *Classroom Birdscope* in which she concluded the recent housing development was the cause, as other Oregon FeederWatch schools were not experiencing declines in their junco populations during the same time period. In 2007, Nick, one of my seventh-grade students, followed up with a paper that concluded the arrival of house sparrows to our feeders was related to the recent and ongoing construction and development around our school.

After the initial house sparrow popula-



tion explosion observed in 2000–2001, many of our bird species appeared to be on the decline, including house sparrows. An analysis of our data revealed that most of the bird species are responding to the same ups and downs that are affecting the house sparrow population. This seems to confirm Kristina and Nick's conclusions about habitat loss causing the population declines rather than house sparrows driving away other species.

Positive experiences such as observing birds from the blind foster a sense of caring and understanding for living things so rarely achieved within the confines of the classroom. My student's excitement and enthusiasm for science and the natural world has been greatly enhanced through participation in the BirdSleuth program. The *BirdSleuth Teacher's Guide*, student *Investigator's Journal*, and online resources provide many helpful tools for organizing student inquiry and data collection. The BirdSleuth Investigating Evidence module is available for free at <u>http://</u> www.birdsleuth.net. *Imagenetic and the state of the state*

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