Organizing and Executing a Citizen Science Project



https://ssec.si.edu/stemvisions-blog/mobile-apps-citizen-science

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Schedule

- 9-10am: Volunteer Involvement & Recruitment (Who?)
 with Mike Kautz
- 10-11am: Data Collection (How?) with Nolan Doesken
- 11am-noon: Community Data Analysis (What does it mean?)
 with Luis Olmedo

Worksheet to help keep track of different projects

Volunteer Involvement & Recruitment: E-Bird

- Citizens document the presence or absence of bird species online through checklist data.
 - Intuitive web-interface for entering data
 - Tens of thousands of participants
 - Tools to help visualize data with interactive maps, graphs, and bar charts
 - Available in English, Spanish, and French
- Data quality filters were developed by local bird experts to review all submissions before adding them to the database.
- Observations are shared with an international community of educators, land managers, ornithologists, and conservation biologists.

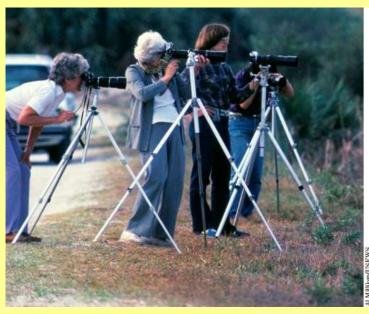
Source: http://ebird.org/content/ebird/about/

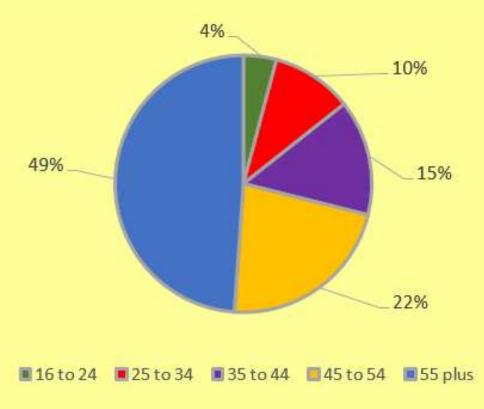
Bird Watchers Help Science Fill Gaps in the Migratory Story

Birder Demographics

• In 2011, there were 47 million birders, 16 years of age or older.

 Most birders had more than 44 years of age.

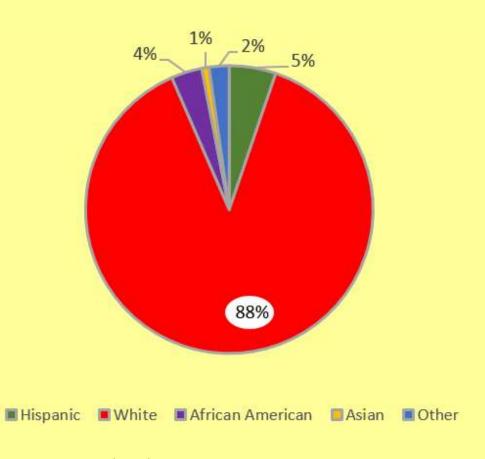




Source: https://www.fws.gov/southeast/economicImpact/pdf/2011-BirdingReport--FINAL.pdf

Birder Demographics (continued)

- Though birders are roughly evenly split by gender (44% male, 56% female), they are not racially or ethnically diverse.
- Data are from the U.S.
 Fish & Wildlife Service,
 2011.



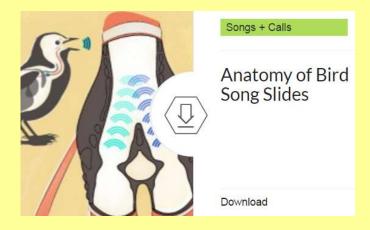
Source: https://www.fws.gov/southeast/economicImpact/pdf/2011-BirdingReport--FINAL.pdf

How can we encourage birding among younger age groups and minority populations?

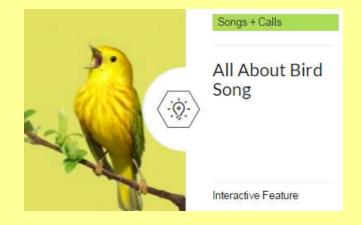
- Make birding information freely available online.
- Incorporate birding into middle school lesson plans.
- Reach out to communities unfamiliar with birding.

Examples of Online Outreach Efforts:









Source: https://academy.allaboutbirds.org/media-library/