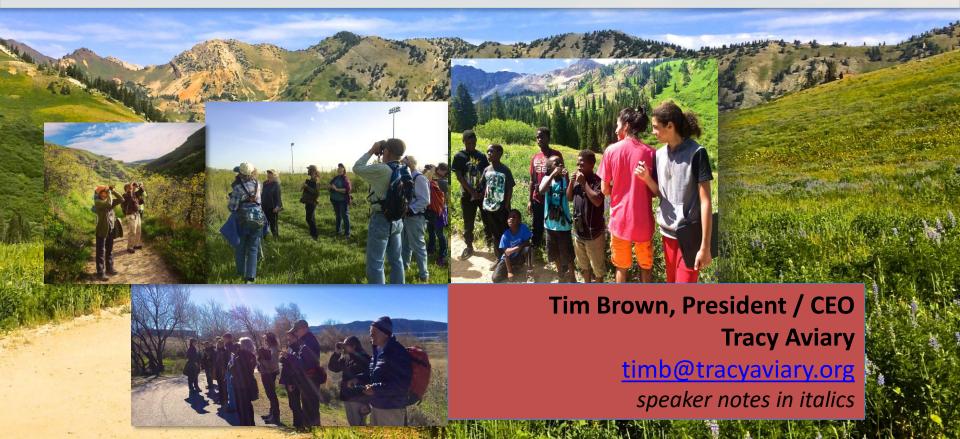


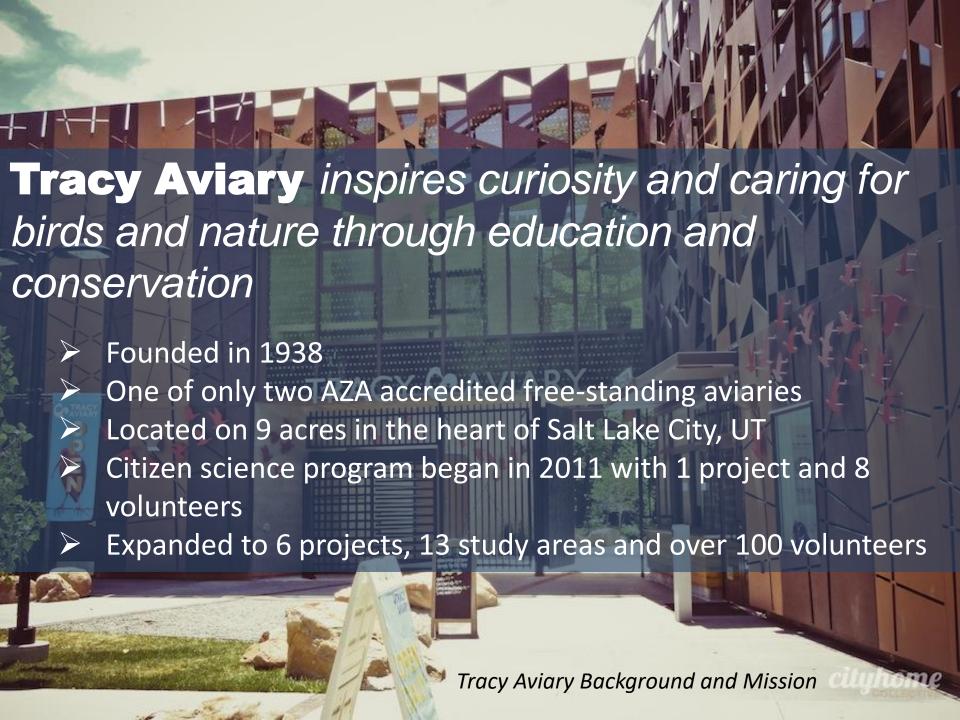






Harnessing the power of citizen science for local songbird conservation





Citizen Science is many things



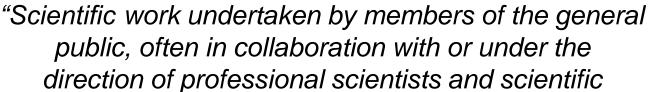
eBird











institutions"





















Community engagement: the pyramid approach Projects

- Birders with high visual and auditory ID skills
- Intensive training
- High time-commitment
- Beginners willing to spend time training, or those more familiar with bird ID/ scientific research
- Moderate timecommitment
- Beginners in bird ID and scientific research
- K-12 as well as adults
- Low time-commitment

Golden Eagle nest monitoring
Alta Nest Box Monitoring Project
Salt Lake Avian Collision Survey

Non-breeding surveys

Project Broadtail

Overview of the pyramid with different levels, and how it is designed so people can move their way up the projects.

Defining goals and outcomes:

Tracy Aviary's Citizen Science Projects:

Engage a broad and diverse community of people



Increase knowledge about birds and their habitats



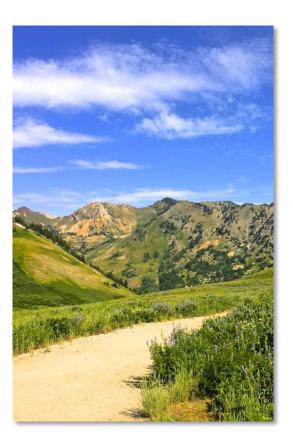
Directly inform conservation/ stewardship activities



It is essential to create goals and expected outcomes for citizen science, to ensure that it is meaningful and useful.

3 Case Studies: Knowledge and Conservation Outcomes







1. Daylighting and restoration of Three Creeks Confluence

Proportion of Detections per Survey

0.8

0.4

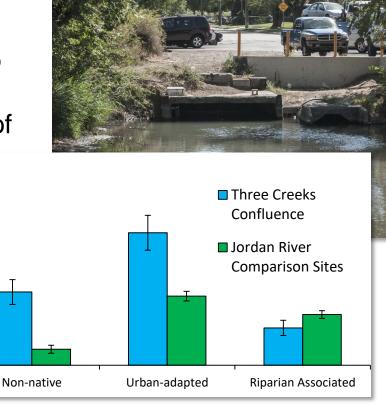
0.2

- Most creeks from our 7 canyons are diverted underground in Salt Lake City
- Seven Canyons Trust will expose 200 feet of water and restore riparian plants at the Three Creeks Confluence

 We are conducting point count surveys to document pre-restoration conditions, and to measure the ecological impact of daylighting and restoration

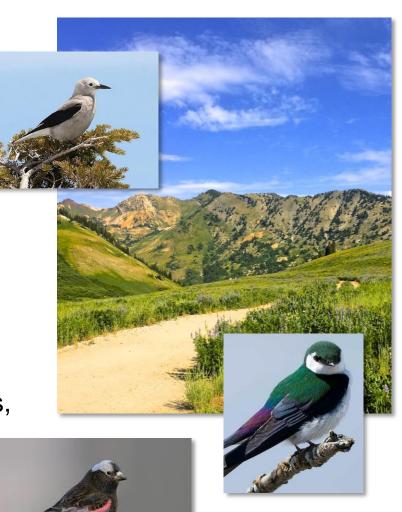






2. Alta Ski Area ecological assessment

- Alta Ski Area provides important ecosystem services, recreation opportunities, and provides essential high-elevation avian habitat.
- In 2014 Tracy Aviary partnered with Friends of Alta and Alta Ski Area to implement the first formal baseline bird inventory as part of a larger ecological assessment.
- We have documented 105 bird species, engaged 132 citizen scientists in surveys, and conducted occupancy analyses to examine habitat relationships for key species.



3. Salt Lake Avian Collision Survey

- Most songbirds migrate at night, and light pollution can cause birds to become disoriented and collide with buildings.
- No one had previously examined this issue in Salt Lake City
- Our team of citizen scientists conducted collision surveys in 20 blocks of downtown Salt Lake during spring and fall migration
- In our pilot year, we found 44 birds (mostly in fall) representing 19 species
- This year we launched Lights Out Salt Lake, an initiative to decrease light pollution and make the valley safer for migrating birds



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Acknowledgements

























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