

Data Collection using Citizen Science

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Spectrum of Citizen Science

Members of the public...

- Contribute** ... are asked by scientists to collect and contribute data and/or samples
- Collaborate** ... assist scientists in developing a study and collecting and analyzing data for shared research goals
- Co-create** ... develop a study and work with input from scientists to address a question of interest or an issue of concern
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Contributory

neon Citizen Science | Sponsored by the National Science Foundation  Welcome Guest! [Register/Login](#)



Project BudBurstSM

Timing is Everything!

People watching plants
Contributing to research
Join Project BudBurst

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Welcome to Project BudBurst!

Every plant tells a story about changing climates. We are a national network of citizen scientists monitoring plants as the seasons change. Join us!

- #### 1 Register Online

Create a [My BudBurst account](#)


- #### 2 Learn How to Observe

Find out [what to look for](#) when


- #### 3 Select a Plant

Next, [choose a plant](#) to observe.



Latest News

- [Summer Solstice Snapshot Ends Soon — Contribute Today!](#)
- [Our Newest Partner: The Wild Center](#)
- [Studying Forest Restoration with Project BudBurst Data](#)
- [Project BudBurst in the News](#)

Recent Reports

-  **Fruit (Late) on Jun 24**
Red maple in South Riding, VA
Submitted by Liz on Jul 19
-  **Flowers (Middle) on Jun 24**
Red maple in South Riding, VA
Submitted by Liz on Jul 19

Collaborative

a Zooniverse project.

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Few have witnessed what you're about to see

Experience a privileged glimpse of the distant universe as observed by the SDSS and the CTIO.

Classify Galaxies

To understand how galaxies formed we need your help to classify them according to their shapes. If you're quick, you can even be the first person to see the galaxies and be asked to classify.



Co-Created

Want to learn more about your garden and soil quality?
Join real-world research and foster connections for sharing ideas and resources



The Dewey-Humboldt, Arizona Garden Project

Front of bookmark

Join Gardenroots!

As a Citizen Scientist, you will:



1) Be trained in how to collect water, soil & vegetable samples from your garden for micronutrient and metals analyses



2) Discover the quality of your soil & the vegetables you grow



3) Be empowered as an ambassador for the environment in your community

Gardenroots Program website:

www.superfund.pharmacy.arizona.edu/gardenroots.php

For more information or to sign up, please contact:

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Pros of Citizen Science Data Collection

- Public engagement
- Cost-effective (at least at scale)
- Access to local expertise and knowledge
- Rare events can be captured
- Technology makes it easier
- It can do some things technology can't do
- More?

Cons of Citizen Science Data Collection

- Takes time and resources
- New kinds of quality control issues
- Not a panacea of for diversity
- Requires new skills from scientists
- Participant privacy can be an issue
- More?

A Framework for Deciding to use CS?

- Can you state your goal clearly in everyday language?
- Do you need lots and lots of data?
- Do you have the capacity to engage the public? How important is it?
- Will people want to participate?
- How complex is the protocol?

Adapted from Pocock, M.J.O., Chapman, D.S., Sheppard, L.J. & Roy, H.E. (2014)