

Create a BudBurst Website

This guide is designed to help you create your own BudBurst data collection site. For activities and resources, please refer to the Connect Project BudBurst Activity Guide. There are also many activities and resources for educators on the BudBurst site under the Education tab on the menu.

Creating an Account

- Go to: <http://budburst.org/web/budburst/register> if you do not yet have a BudBurst account.
- Complete the Project BudBurst registration form.
 - You may use your personal or professional e-mail address. You may want to request that your school set up a dedicated BudBurst e-mail address to ensure that the site remains accessible over the long term, and is not impacted should faculty at your organization change.
 - Make sure you check the box indicating you are an educator. This will allow you to create and manage student accounts.
- Create your login (do not use your e-mail address as a login) and password and click the SUBMIT button.
- You will be automatically directed to your new MyBudBurst Page, where you will be prompted to create a BudBurst site.

Adding a Site/Classroom

- If you are not already there, navigate to your MyBudBurst home page by clicking on the MY BUDBURST tab on the top right of the screen and selecting the MY BUDBURST option.

Objective: Learn how to create a Project BudBurst website

Audience: Adult

Materials: Computer with Internet access and projector/screen

Time Needed: 2-3 hours

(* = required fields)

Project BudBurst Registration

*First Name :

*Last Name :

*City :

*State :

Zip Code :

*Email :

You will be asked to verify this email address by entering a verification code that will be sent to it.

*I am at least 13 years of age : ☐

I am an Educator : ☒ (Educator accounts allow formal and informal educators to register classroom sites and create student reporter accounts.)

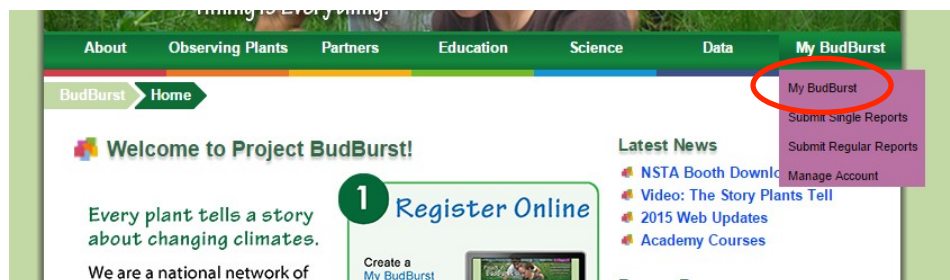
You will use a login and password of your choosing to access your account.

*Login :

(Please do not use your email address)

*Password :

*Retype Password :



- To register a site, click the SUBMIT REGULAR REPORT button, and then click the ADD A SITE button.

- Enter a site name, site location information (city, state, latitude*, longitude*), and site descriptive information (such as irrigation regime, shading, and site type).

- You only need to enter this information once for each site.
- **You may choose to complete this step after you have introduced the project to your students** and together have chosen a site and collected site descriptive information.

The **Map Tool** finds the exact latitude and longitude of your site. Enter an address, school name, or city and state and fine-tune the location by zooming in, placing your cursor on the exact location of your site (such as the east side of your school) and then double-clicking. This centers the

WyBudBurst Site - Where are you monitoring your plant(s)?

Site Location

Map Tool

Find your latitude and longitude by:

- 📍 entering the address of your site location into the search box below (i.e. 1685 38th St, Boulder, CO, 80301 or City Park, Denver, Colorado)

-OR-

- 📍 zooming in and clicking on the map to mark your location.

Search For:

Search

Describe Your Site

You can have more than one plant species at the same site.

*Site Name (A unique name of your choosing)

Use the **map tool** to determine latitude and longitude (measured at the center of your site).

*Latitude (decimal degrees, i.e. 40.01647)

*Longitude (decimal degrees, i.e. -105.24557)

*City:

*State:

Select

Zip code:

Describe the irrigation at this site

Select

Describe the shading at this site

Select

Is the site within 100' of a building or concrete or asphalt?

Select

How would you describe this site?

Select

Clear Site Description

Submit

- Once you have successfully created a site/classroom, you will be prompted to add plants to your site. Click the ADD A PLANT TO [SITE NAME] button.

2 | Project BudBurst Tool

- You will be prompted first to select the plant type, then to select the site to which you would like to add your plant and its common name from dropdown menus.

The image displays three overlapping screenshots of the Project BudBurst web application interface, illustrating the steps to add a plant to a classroom site.

- Top Screenshot:** Shows the "Add a Plant to Classroom 1 - Select Plant Group" screen. It features a "Select Plant Group" section with radio button options: Deciduous Trees and Shrubs (selected), Wildflowers and Herbs, Conifers, Evergreen Trees and Shrubs, and Grasses. A "Submit" button is at the bottom right.
- Middle Screenshot:** Shows the "Add a Plant to Classroom 1 - Select Plant" screen. It has a "Select Deciduous Trees and Shrubs Plant" section. The "*My BudBurst Site:" dropdown is set to "Classroom 1". The "*My BudBurst Plant:" dropdown is open, showing options: "Select", "CTL Floral Report Card", "Floral Report Card Garden 1", "Classroom 1" (highlighted), and "Classroom 2". A "Submit" button is at the bottom right.
- Bottom Screenshot:** Shows the same "Add a Plant to Classroom 1 - Select Plant" screen, but the "*My BudBurst Plant:" dropdown is open to a list of plant species. "Forsythia" is highlighted in the list. The "*My BudBurst Site:" dropdown is also set to "Forsythia". A "Submit" button is at the bottom right.

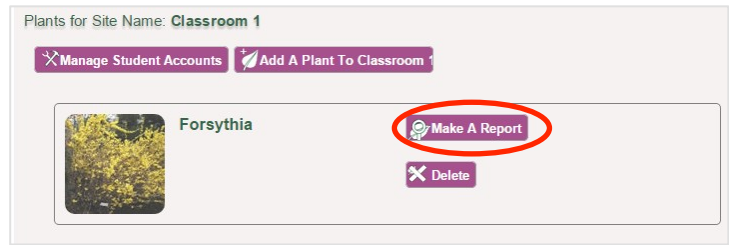
- Continue to add plants until all the plants you want to observe at your site are added.

Notes

- You may choose to have students visit the site and identify the plants themselves before you complete this step.
- Species identification guides can be downloaded from each individual SPECIES INFORMATION page under the OBSERVING PLANTS > PLANTS TO OBSERVE tab on left of the menu bar.
- Plants are listed by their common names and alphabetized by those names. For example, Black Oak will be listed as "Black Oak" rather than "Oak, Black."
- If the plant you want to observe is not on the plant selection list, choose OTHER from the list. You will be prompted to add its scientific and common names, and it will be added to your site.
- You may have students observe individual plants (a maple standing alone) or in groups of the same species (a patch of coneflowers). **If you have students observing individual plants of the same species, you may want to have them assess each phenophase based on the aggregate of their data and make one entry.** To make separate observations of the same species in the same location requires that you create a separate site for each instance of that species. You may not have two instances of the same species at one site.

Entering Data

- On your MyBudBurst site, find the site/classroom and species you wish to enter data on. Click the MAKE A REPORT button next to the species image.
- Enter the data for the phenophase(s) you are observing by clicking on the CALENDAR ICON to enter a date. You may enter one date at a time, or enter multiple data points at once. You may enter data on any phenophase at any time, regardless of its position on the list.
- Add any comments in the comments box; for example, you might note if it has been a particularly hot or cold season.
- Click SUBMIT to submit your data.



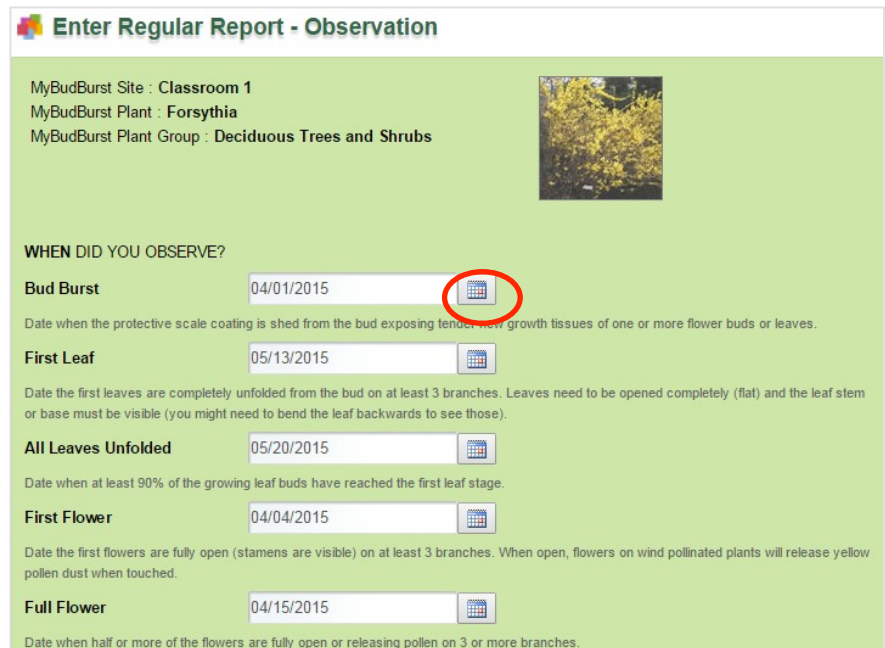
Plants for Site Name: Classroom 1

Manage Student Accounts Add A Plant To Classroom

Forsythia

Make A Report

Delete



Enter Regular Report - Observation

MyBudBurst Site : Classroom 1
MyBudBurst Plant : Forsythia
MyBudBurst Plant Group : Deciduous Trees and Shrubs

WHEN DID YOU OBSERVE?

Bud Burst 04/01/2015

Date when the protective scale coating is shed from the bud exposing tender new growth tissues of one or more flower buds or leaves.

First Leaf 05/13/2015

Date the first leaves are completely unfolded from the bud on at least 3 branches. Leaves need to be opened completely (flat) and the leaf stem or base must be visible (you might need to bend the leaf backwards to see those).

All Leaves Unfolded 05/20/2015

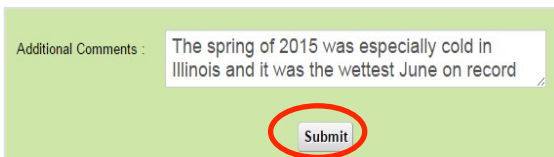
Date when at least 90% of the growing leaf buds have reached the first leaf stage.

First Flower 04/04/2015

Date the first flowers are fully open (stamens are visible) on at least 3 branches. When open, flowers on wind pollinated plants will release yellow pollen dust when touched.

Full Flower 04/15/2015

Date when half or more of the flowers are fully open or releasing pollen on 3 or more branches.



Additional Comments : The spring of 2015 was especially cold in Illinois and it was the wettest June on record

Submit

Notes

- Data collection sheets for each individual species are available and can be downloaded from the SPECIES INFORMATION page under the OBSERVING PLANTS > PLANTS TO OBSERVE tab on left of the menu bar.
- The phenophases are listed in the most common order on the website; however, depending on the plant species the order in which they occur may not be the order in which they are listed. Enter the data for the phenophase you are observing, even if it is not the first on the list. For example, forsythia flowers before it leafs out, but on the website, first leaf and all leaves unfolded are listed before first flower. Simply fill out the date for first flower and go back and add dates for the others as they occur.

Accessing and Downloading Data

Project BudBurst has made a commitment to open data sharing, so all the data collected by BudBurst citizen scientists is freely available and downloadable on the BudBurst website.

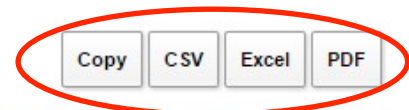
Your Data

- The data that you and your students collect is visible on your My BudBurst page in the My BudBurst Data Viewer, accessed by selecting MY BUDBURST from the MY BUDBURST dropdown menu on the right of the menu bar. Scroll to the bottom of the page.
- You may view the data on the web page, or it can be copied or downloaded in .csv, .xls, or .pdf formats using the appropriate download buttons.
- Data may be sorted on the web page by clicking on the small arrows next to each column heading by observation date, site/classroom name, reporter (especially useful if you have created student accounts), common name, scientific name, phenophase, and observation number.
- You can choose how many to display at a time using the "Show __ entries" control. You can also page through the data using the forward and back arrows at the bottom right of the table.

You can search by date, species, phenophase, year, reporter, etc. Type your search terms and the table automatically updates to contain only those observations. You can combine searches by typing multiple terms ("acer 2011" will narrow your results to only the maples that were observed in 2011).

MyBudBurst Data Viewer

CBG Teacher's reports: 



Show entries

Search:

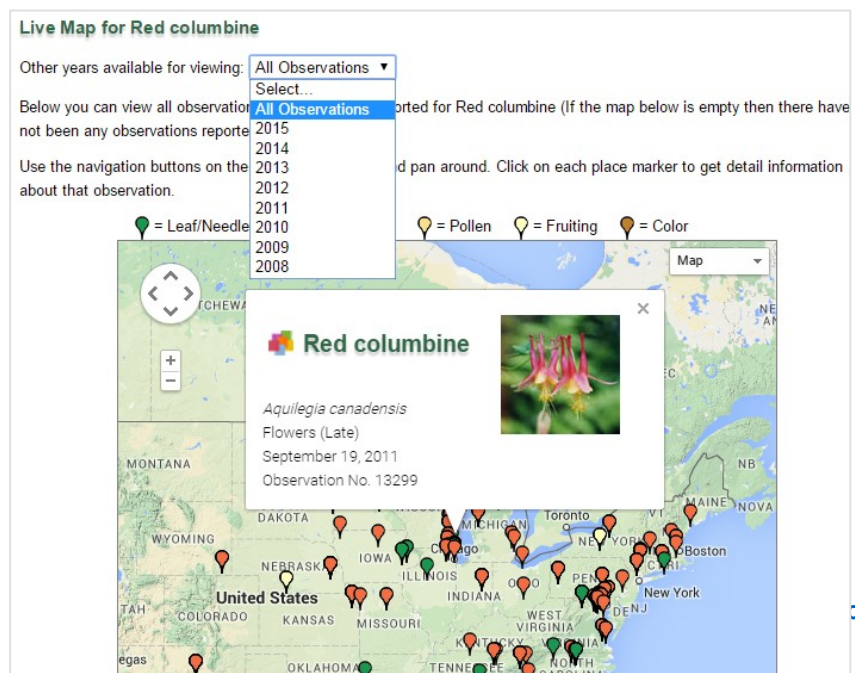
Observation Date	Site/Classroom	Reporter	Common Name	Scientific Name	Phenophase	Obs#
2012-05-15	CBG Annex 3	CBGTeacher	Common lilac	<i>Syringa vulgaris</i>	Flowers (Middle)	15622
2010-04-06	CTL Floral Report Card	CBGTeacher	Red maple	<i>Acer rubrum</i>	First Leaf	10665

Showing 1 to 2 of 2 entries

[First](#) [Previous](#) [1](#) [Next](#) [Last](#)

Species-Level Data

- Phenophase data for an individual species is available at its SPECIES INFORMATION page under the OBSERVING PLANTS > PLANTS TO OBSERVE tabs. It is displayed on an interactive map and can be downloaded for analysis and future use.
- The interactive map includes all the data for all phenophases of that species. You may display all the data or choose what year's data to display.



- The data point markers on the map are clickable, and will display the plant, phenophase, and date recorded.
- The Species Data Viewer has similar functionality to the MyBudBurst data viewer. Data can be sorted on the webpage by date, contributor, phenophase, and observation number, and can be printed, copied or download as .csv, .xls or .pdf.

Observational data for Red columbine: ?

Copy CSV Excel PDF Print

Show 10 entries Search:

Date	Contributor	Common Name	Species	Phenophase	Obs#
2015-06-28	bayfawn	Red columbine	Aquilegia canadensis	First Ripe Fruit	51429
2015-06-28	Loda	Red columbine	Aquilegia canadensis	Flowers (Late)	51452
2015-06-28	Loda	Red columbine	Aquilegia canadensis	Fruit (None)	51453

All BudBurst Data

- All BudBurst data and metadata since the project's inception in 2007 is available for download by year in .csv, .xls, and .pdf formats from the DATA page under the DATA selection on the main menu bar.
- Scientific analysis and reports are also available for download on the DATA page for 2007, 2008, as is a summary

Project BudBurst Data

The 2015 campaign is underway! The latest observations can be viewed in the **live map** shown on the [Results](#) page. Also you can view **live maps** of each plant species by visiting our [View All Plants](#) page and selecting a plant from the list.

Project BudBurst Data Citation and Community Attribution

Project BudBurst data is freely available for anyone to download and use for noncommercial use. The data is provided by thousands of observers from across the country. Please cite your use of the data and recognize our observers with the following citation and [community attribution](#):

Project BudBurst. 2015. Project BudBurst: An online database of plant phenological observations. Project BudBurst, Boulder, Colorado. Available: <http://www.budburst.org>; Community Attribution: http://www.budburst.org/results_attribution; Accessed: July 8, 2015.

Project BudBurst Data Downloads

Year	Datasets	Metadata	Reports
2014	.xls .csv .txt	2014 Metadata (.xlsx)	
2013	.xls .csv .txt	2013 Metadata (.xlsx)	
2012	.xls .csv .txt	2012 Metadata (.xlsx)	
2011	.xls .csv .txt	2011 Metadata (.xlsx)	2007-2011 Summary Report (PDF)
2010	.xls .csv .txt	2010 Metadata (.xlsx)	
2009	.xls .csv .txt	2009 Metadata (.xlsx)	
2008	.xls .csv .txt	2008 Metadata (.xlsx)	2008 Summary Report (PDF)
2007	.xls .csv .txt	2007 Metadata (.xlsx)	2007 Analysis Report (PDF)

Depending on your Operating System and Web Browser, you may need to right-click on the links and "Save As..." to download the file to your computer.

report for 2007–11.

- If you use the data for commercial or publication purposes, please use the citation and community attribution provided on the DATA page.
- A live map of all BudBurst data is available on the DATA MAP page under the DATA selection on the main menu bar. This data may be filtered by year, or viewed together.

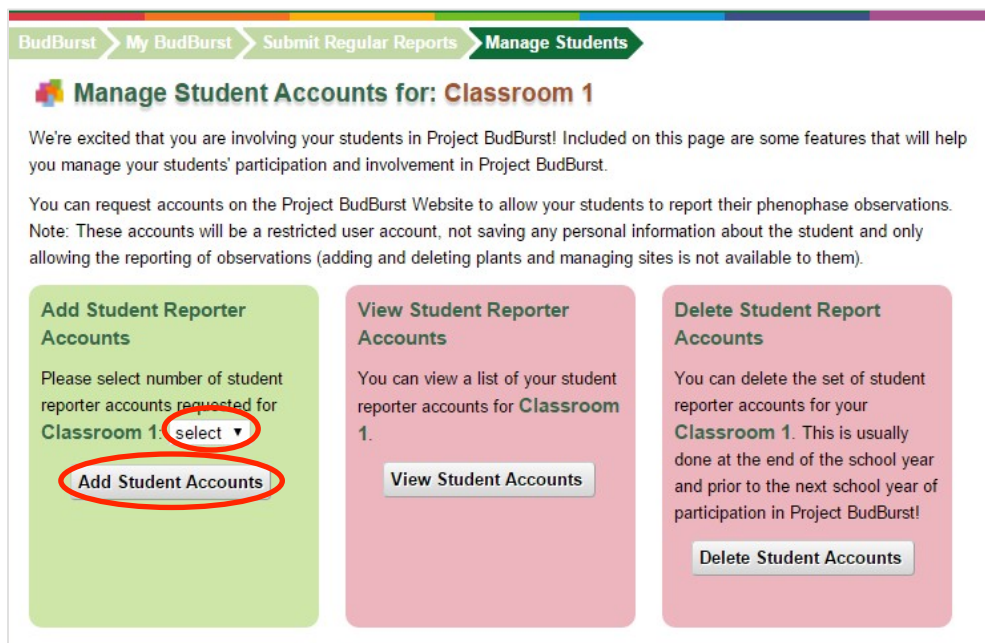
Creating and Managing Student Accounts

Project BudBurst allows you to create, manage, and delete student accounts for any site you create as an educator. Student accounts allow students to log in to that site only, and enter data. They are not able to modify the site in any way by deleting or adding plants. Student accounts allow you to collect data on the same site over multiple years, even though the students recording the data are changing.

- Manage student accounts by selecting from the menu MY BUDBURST > SUBMIT REGULAR REPORTS and is associated with each individual site you create. If you have three sites/classrooms, you may manage student accounts separately for each site/classroom.
- To create and manage student accounts for your sites/classrooms, click the MANAGE STUDENT ACCOUNTS button that appears under the site for the site/classroom you would like to manage. will take you to the student account management for that site/classroom.
- To add student accounts, select the number of accounts you would like to create using the dropdown menu and click ADD STUDENT ACCOUNTS.



name
This
page



- The site will generate temporary usernames and passwords for your students. Make sure you print this page because once you have left the page you will not be able to retrieve the temporary passwords.

MyBudBurst - Student Reporter Accounts

Please print this page for your records! You can now assign a student to each of the student reporter accounts below.

Once logged in, the student reporter can change their password.

The following student reporter accounts have been created for:

My BudBurst Site: Classroom 1

Username	Password
CBGTeacher_Classroom_1_reporter29	irh6mdsz
CBGTeacher_Classroom_1_reporter30	6akrfiv8
CBGTeacher_Classroom_1_reporter31	bg3xtmc4


[Return to Manage Student Accounts](#)

- When students log in to the site for the first time, they may change their password by clicking on the MANAGE ACCOUNT button and selecting CHANGE MY PASSWORD. You may want to record usernames and passwords with student names in the event students forget theirs.
- The student view is structured the same way as the educator view, but with data entry functionality only and access only to the site/classroom for which the account was generated.

BudBurst
My BudBurst
Submit Regular Reports

CBGTeacher_Classroom_1_reporter29's My Regular Reports Page

Here you will be able to report all your observations on any of your plants. If you have any questions about the site or plant that is registered, please contact your teacher.

Here are the plant(s) registered for you at your classroom: 

Plants for Site Name: **Classroom 1**


Forsythia



- To view students' accounts, click the REVIEW STUDENT ACCOUNTS button. You will retrieve a list of all the student reporter accounts associated with that site/classroom.
- To delete student accounts, click the DELETE STUDENT ACCOUNTS button and e-mail your request to Project BudBurst staff. They will delete your accounts for you.

Creating a Community Project BudBurst Website

If you have an organization or regional project that would like to engage citizen scientists in observing up to ten plant species, you may be interested in working with the Project BudBurst team to create a [Community Project BudBurst Site](#).

These are custom BudBurst sites for which you may identify the plant species you are interested in observing (they will even add new species for you if they are not already included in the BudBurst database) along with a description of your project and goals.

[BudBurst](#) [Partners](#) [Community BudBurst](#)

 **Project BudBurst in the Community**

When you become a part of our community, you provide observations that help further a better understanding about how plants in your community are responding to changes in their environments.

[Staff & Volunteer Resources](#) [Educator Resources](#) [Visitor Resources](#)


Community BudBurst


Camp Bayou, FL


Climate Change Education Program


Foothill Horizons


G-WOW

For example, [Connect](#) and the Gikinoo'wizhiwe Onji Waaban (Guiding for Tomorrow) or [G-WOW](#) project partnered with Project BudBurst to create a [G-WOW Community BudBurst website](#) highlighting plant species that are culturally relevant to the Lake Superior Ojibwe and are also important indicators of climate change.

For information on how to create your own Community Project BudBurst Site, contact Budburst@chicagobotanic.org.