



GLOBE

Herbaceous Carbon Data Sheets

Can be used for Standard and Non-Standard Sites

Print the Herbaceous Data Sheet:

- [Herbaceous Carbon Data Sheet](#) (2 pages)

Or print the data sheet with the field guide incorporated:

- [Herbaceous Carbon data sheet with field guide](#) (2 pages)

GLOBE Herbaceous Carbon Data Sheet (page 1)

Name: _____ Site Name: _____

Date: _____ Time (local): _____

Herbaceous Carbon Measurements

Sample #	Bag #	Mass of Sample and Bag (g)	Mass of Empty Bag (g)	Herbaceous Biomass* (g)

$\text{*Herbaceous Biomass} = \text{Mass of Sample and Bag} - \text{Mass of Empty Bag}$

Comments:

GLOBE Herbaceous Carbon Data Sheet (page 2)

Herbaceous Carbon Calculations

Sample #	Equation	Sample Herbaceous Biomass (g/m)
1	= sum of Sample #1 bags from page 1	
2	= sum of Sample #2 bags from page 1	
3	= sum of Sample #3 bags from page 1	
Average Biomass (g/m ²)	= sum of sample biomass / 3	
Herbaceous Carbon Stock (gC/m ²)	= average biomass x 0.5	

Comments:

GLOBE Herbaceous Carbon Data Sheet and Field Guide (page 1)

Name: _____ Site Name: _____

Date: _____ Time (local): _____

Herbaceous Carbon: In the Field

1. Blindfold one member of your group and have them throw a beanbag somewhere in the site.
 2. Mark a one-meter square around the beanbag to take a random sample.
 3. Using the grass clippers, clip all the vegetation close to the ground within that square. Do not collect any leaves or litter that are already unattached from the ground.
 4. Place clippings into one or several brown paper bag(s). Both green and brown vegetation can be bagged together.
 5. Label the bag(s) with the site name, date, sample number, and bag number.
 6. Repeat steps 1–5 twice more.
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Herbaceous Carbon: In the lab

1. Dry the samples using one of these options:
 - A drying oven set to a temperature between 50°C and 70°C.
 - A heat lamp with a temperature between 50°C and 70°C.
 - Air drying in a covered, dry area with bags open for maximum airflow.
 2. Use a balance to measure the mass (g) of each bag once a day.
 3. When the mass remains the same for two consecutive days, the sample is considered completely dry. Remove the bags. (Continued on page 2)
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Comments:

GLOBE Herbaceous Carbon Data Sheet and Field Guide (page 2)

Herbaceous Carbon: In the lab, continued

- Record the mass of each bag and its contents on the data sheet below.
- Shake out the contents of each bag and weigh the bag. Record the mass of the empty bag on the data sheet.

Sample #	Bag #	Mass of Sample and Bag (g)	Mass of Empty Bag (g)	Herbaceous Biomass* (g)

- Calculate average biomass and carbon stock (completed automatically with data entry).

Sample #	Equation	Sample Herbaceous Biomass (g/m)
1	= sum of Sample #1 bags	
2	= sum of Sample #2 bags	
3	= sum of Sample #3 bags	
Average Biomass (g/m ²)	= sum of sample biomass / 3	
Herbaceous Carbon Stock (gC/m ²)	= average biomass x 0.5	