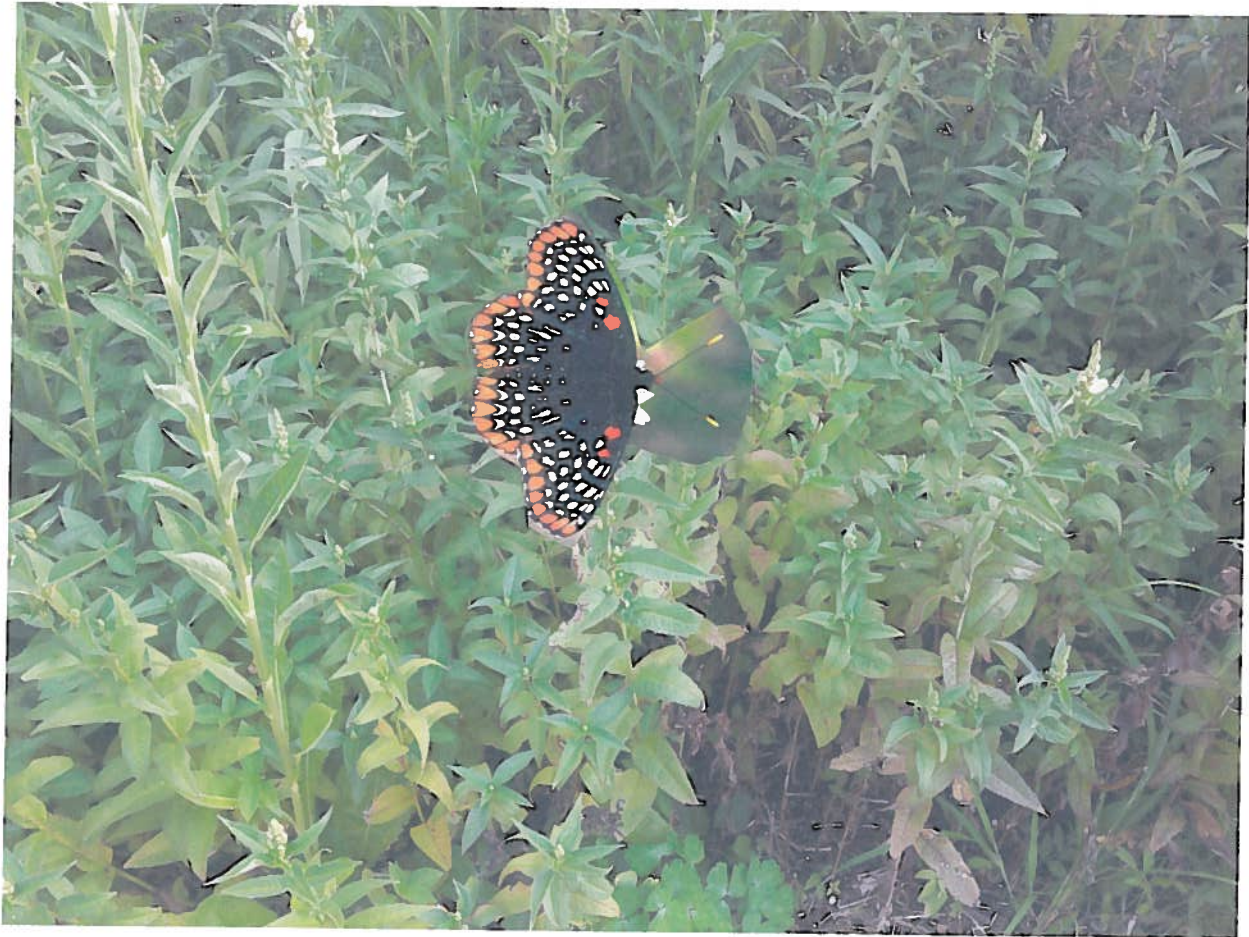




**Turtlehead plants
&
Checkerspot Butterfly**



Gabby Davis

THE CHECKERSPOT

I am purchasing turtlehead plants to plant at Robert E Lee Park. The plants will come in a flat of 50, from North Creek Nursery, in Landenberg Pa. After we get them my and I will go to Robert E. Lee Park where we will met Shannon Davis and Marc, who are two Park Rangers. When we got there, we walked ten minutes into the Park with the plants and supplies for digging. The area of the woods where we planted was a little muddy so the ground was a little soft. Marc dug wholes so we could put in the plants. The area was ten plants across and five plants down. I had to plant deep into the ground so all the dirt that the plant was in was covered. It took about an hour to do all of this. We all worked together to help the Checkerspot butterflies have a place to live and grow. When the Checkerspot chrysalises are ready, they are growing in another area of the Park, Shannon will bring them over and they will feed on the Turtleheads and grow into butterflies. It takes from the summer till next spring for the butterflies to grow and develop. I love butterflies so I will be helping the world of nature to grow. This is going to be a happy, happy day.

Gabby D:
3/4/2013
Science

My project that I am working on is planting turtleheads in the woods. I will do this near a stream on a slope or in a fenced in area. Turtleheads give nutrients to the caterpillars, to help the caterpillars grow into butterflies. I am working with Shannon Davis. She is the forest ranger at Robert E. Lee Park.

Turtleheads are important because they help the environment by keeping the insect population in balance to let them produce and make more of their kind. Butterflies are insects.

ACTION PLAN

1. Researched and found information
2. Contacted Shannon who was at Robert E. Lee Park
3. Decide plan with the Ranger
4. What do I need and what time of year will I plant
5. Find cost and transportation
6. Get materials
7. Do the job
8. Reflect on the project and reevaluate the issue

MATERIALS

1. Plants
2. Gloves
3. Shovels
4. Deer protection from the deer

Gabby Davis
3/4/13
Science

The Baltimore checkerspot butterfly is an insect. Insects are categorized by having three body parts: a head, thorax and abdomen. They have three pairs of legs that are connected to the thorax. Insects wings are also connected to the thorax. The head of the insect supports the antennae , eyes and mouth parts. Antennae work like sensory zones. The insect can use its antennae to smell, hear, taste and feel. Insects have different types of eyes. Compound eyes that look like dimpled golf balls and simple eyes. The mouth parts of butterflies are long straw like tubes. This lets them suck out the nectar from the flowers. The abdomen of the butterfly has the important organs of circulation, digestion and respiration in it. The abdomen also has the reproductive organs, the ovipositors, or egg-layers inside of it.

The problems causing the decline of cherckerspots in Maryland are due to the wet land habitats being destroyed because of development. There are not enough sunny open spaces. Deer often eat the plants or flowers that the larvae need for survival. There are not as many nectar plants available. Climate change also effects the environment the butterflies need. Predators also eat the insects which cause a decline in their number.

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Hello,

Below is the website of the company we buy the turtlehead through. I just called them and the minimum order is one flat which costs \$54. Do you think you can afford this? The earliest you can plant is mid-April. If you did not want the extra expense of the fencing then you should plant on the slopes. The plants would be spread out so the total area would be hard to judge. You can say you will be planting 50 plants at least one foot apart but in a several areas around the banks of the lake in patches that are spaced quite a distance apart.

If you plant with the fence it would be a 6 to 8 foot circumference circle.

Let me know if you have any more questions.

Thank you,

<http://www.northcreeknurseries.com/index.cfm/fuseaction/home.availability/index.htm>

Chelone glabraLP50

\$54.00

Name: Gabby Davis

Date: 2/14/12

3rd Quarter Community Service Project Plan

Problem:

People are disturbing birds' habitats and making the loss of their homes.

Identify the problem that you wish to address in your community (County, City and/ or state). This is the base line information that you wish to

You may do the follow to gather information, but **examples** must include **quantifiable** information so you can revisit and see your impact at the end of the project.

- brainstorm in groups
- review your possible examples we've discussed
- research online

Current Environmental Problem 1	Sources of Evidence (websites, conversations, government data, observations, etc.)
<ul style="list-style-type: none">• there is 200 species of birds that nest in North America.• Common birds are: Ruby-throated Hummingbird, Baltimore Oriole, Gray Catbird, Purple Martin, Barn Swallow and chimney Swift• related to bird feeding and bird watching exceeded \$24 billion in 1996• Nationwide, 71 percent of the land is privately owned	

• Restore habitat. By planting native vegetation
Examples of quantifiable: provide badly needed food and cover

- Currently, our school has 50 point of trash every day an no recycling
- Currently, the incidence of children at homeless shelter with a Vitamin D deficiency is 50%
- Currently, 90% of students at our school think that bullying is a big problem
- Currently, 2 senior citizens in the local independent living center know how to use email

Numbers / facts