

Ohio 4-H Foundation Grant Impact Report

Title of Grant: Who Kidnapped Brutus Buckeye?

Applicant Name & Title: Sally McClaskey, Program Coordinator &
Ron Sanderson, Extension Educator

Unit Reporting: Licking County Extension

Amount Funded: \$7,000.00

Amount Used: \$ 983.47

Grant Funds Remaining: \$6,016.53

Calendar Year of Grant: 2008

Type of Grant (please mark all that apply):

<input checked="" type="checkbox"/> X-State Grant	<input type="checkbox"/> Priority Area Grant
<input type="checkbox"/> Cashman Grant	<input type="checkbox"/> Lewis/Barnhart/Jenkins Grant
<input type="checkbox"/> Cleveland Grant	<input type="checkbox"/> Ebling Urban Extension Grant
<input type="checkbox"/> Helt Family Grant	<input type="checkbox"/> Nationwide Volunteer Development Grant
<input type="checkbox"/> Sauder Grant	<input type="checkbox"/> Wadlington Grant
<input type="checkbox"/> Ulrich Grant	

Please use as much space as needed to answer the following requests for information.

Please give an overview of your project. Assume the reader knows nothing about the program.

Who Kidnapped Brutus Buckeye?" This Ohio 4-H Biotech Adventure offered 4-H youth from throughout the state the opportunity to learn basic biotechnology, discover forensic crime scene skills and explore related careers. A three- day, two-night program centered at the Ohio 4-H Center in Columbus was planned for June 2008 to offer hands-on experiences emphasizing creative problem-solving, teamwork and communication. This program was also designed to align with the national 4-H SET mandates.

Due to university constraints and timelines (i.e., housing and catering deadlines), a sufficient enrollment for this program was not attained. Registration funds were returned to the participants. However, based on the advice and recommendations from the Ohio 4-H Foundation staff and state 4-H leaders, we opted to design a smaller scale program that would offer youth a bioscience experience.

We partnered with the 4-H Buckeye STEMS program. This is an after school 4-H science inquiry project club initiative that targets the middle school students we initially planned to attract to our original effort. Two STEMS clubs from Buckeye Valley and Big Walnut School districts participated in a one-day bioscience workshop at the Nationwide and Ohio Farm Bureau 4-H Center. We designed an

introductory lesson in fingerprinting and crime scene analysis. Participants learned how to identify fingerprint patterns, how to take their own prints and how to lift latent prints to identify a suspect.

Please list the objectives of the project and evaluate the measurable objectives achieved. Explain how you measured those objectives.

- Introduce youth to the field of bioscience and career possibilities.
- Introduce youth to the science behind fingerprinting and the significance of this unique identification system.
- Motivate participants to engage in further inquiry regarding bioscience and fingerprinting.

These objectives were measured via session evaluations completed by both youth and adult participants (chaperones). Anecdotal comments from participants were also noted during the course of the activities.

Results from the post-workshop evaluation included every youth and adult citing they would like to learn more about fingerprinting and bioscience. Comments from the question asking youth to "list two things you know about fingerprinting" included:

- Fingerprint patterns ...three types of patterns (loops, whorls, and arches)
- How to lift a latent fingerprint
- Courts must match at least 12 points on a fingerprint before it is considered a match.
- Each persons fingerprint is unique

Youth also shared the following when asked "what can you do with the information you learned today":

- Join the F.B.I.
- Identify which brother stole my stuff
- Use it for my science project
- Become a crime scene investigator
- Become more observant of evidence
- Have my fingerprints and know which type I have
- Learn more about the use of fingerprinting

A 4-H advisor /teacher also shared that she plans to " repeat this with my own class at school...finding patterns/classification.....love the peanut idea as I actually did this with apples earlier this week discussing physical properties of matter."

Describe the population(s) or target audience(s) served. List how many individuals benefited or were impacted by this program.

The target audience for this program was middle school youth with an interest in science topics.

The program was held for 28 youth in grades five, six and seven. They were accompanied by eight adult advisors.

Which of the 8 critical elements were realized in the program and how was this accomplished?

- Opportunities for Mastery
- Engagement in Learning
- Opportunities to Value and Practice Service to Others
- Opportunities to See Oneself as an Active Participant in the Future

Students were able to master skills and techniques that could be used in bioscience careers. All 28 youth responded affirmatively when asked if they wanted to learn more about the field of fingerprinting and bioscience.

Provide a **detailed** budget and actual expenditures. Original receipts or copies are not necessary, but be sure that your expenditures are detailed with specific dollar amounts.

Income		
Grant		\$ 7,000.00
Expenses		
Ward's		\$ 672.95
Fingerprint Identification Lab Activity kit-2		
Fingerprint Ink strips-3		
Fingerprint Analysis Activity kit-2		
Crimescene.com		\$ 152.32
FBI fingerprint cards-2 packs		
Gritz waterless hand cleaner-3 bottles		
Fingerprint Lifting Tape-5 rolls		
Nasco		\$ 138.45
DNA models-2		
Giant Eagle		\$ 19.75
paper towels-2 rolls		
vinyl gloves-3 packs		
water-2 cases		
peanuts		
Total Expense		\$ 983.47
Balance		\$ 6,016.53

If this is a continuing program, please describe future plans/program objectives.

Due to the interest expressed by students in furthering their experiences with bioscience and fingerprinting, this workshop will be offered several times in 2009. Participants include: 4-H Buckeye STEM clubs, Ohio 4-H Teen Conference participants and camp counselor workshops. There is the potential to reach an additional 150-200 youth in the first six months of 2009. Remaining supplies will be utilized to meet this interest.

Sally A. McClaskey (submitted electronically)
Grant Recipient Signature

January 7, 2009
Date