EXPERIENCE WITH THE COMMON BEAN COORDINATED AGRICULTURAL PROJECT



Hannah Walters 2010 Undergraduate Intern at Colorado State University





Colorado State University Interns



Two Undergraduates: Hannah Walters and Sarah Dominic

Three High school Interns: Colton Heeney, Bryan Fischer, Jordan Leone

Others Involved



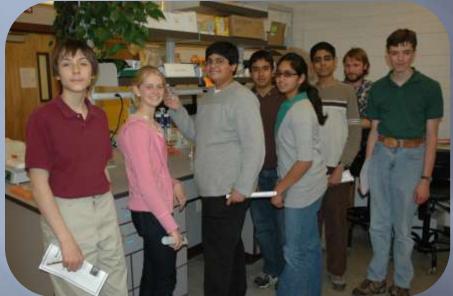
Mark Brick
Barry Ogg
Leslie Brick
Glenn Brown







Outreach at Colorado State



Ridgeview High School Visit to CSU

School that where contacted

 Ridgeview Classical High School
 Poudre High School Both in Fort Collins



Jordan's presentation at Ridgeview High School

Experience Overview

Spring

- Sarah and I worked in the Greenhouse
- Helped set up breeding nursery

Summer

- Helped over see the high school interns
- Field Work
- Lab Work (Fiber and Molecular)
- Website
- Worked within the department
- Tours (Sugar Beets and Pioneer)
- Fall
 - Harvest
 - Greenhouse

Planting



Tractor Planting



Sarah Staking F1



Greenhouse



Glenn Teaching the high school inters about inoculating white mold





Inoculation
 White Mold
 BCMV
 Rust
 Crossing
 Seed Increases

Fiber Lab

Fiber Analysis

 Both the High school interns and undergrads got experience running fiber analysis







Molecular Lab



 Undergrads got hands on experience in the lab

 High school got to tour and see what is done in the lab



Field Work

- Planting
- Weeding
- Taking flowering notes
- Plant counts
- Setting up drip Irrigation
- Harvesting







Irrigation set up in Greeley, CO.







Work within the Department





• Other work

- Help with the wheat harvest
 - Dig for Worms
- Spread bio solid



Evaluation of Heirloom Dry Beans to Promote Genetic Diversity



Evaluation of 34 landraces of beans to find out adaptation to Northern Colorado

Presented findings at ASA-CSSA-SSSA National Meetings in Long Beach, CA.

PICTURE OF TOP COMMON BEAN ENTRIES





Yellow Indian Women

Flor de Mayo

Learned

- Awareness of plant breeding and its importance
- Exposer to scientific method
- Basic principals of the Dry Bean Breeding
- Lab Work
 - Fiber
 - DNA
- Greenhouse Work

Advise

- More information about the science of plant breeding
- More education for interns
 - Weekly meeting explaining a concept
- Continue with tours
- Side project



"The Bean CAP internship provided me with a great first job experience. Not only did I receive an introduction into the job world, but I was also exposed to the field of plant sciences and agriculture. It was an invaluable experience for me, as I plan to pursue a career in the plant sciences." Bryan Fischer, 2010 High School Intern

- This is a good opportunity for students to gain experience in the plant breeding field
- I would like to pursue a career in plant breeding
- I have applied to graduate school at Washington State University

Acknowledgment

USDA- NIFA Colorado State University CSU Dry Bean Breeding Mark Brick & Barry Ogg

Leslie Brick & Glenn Brown