

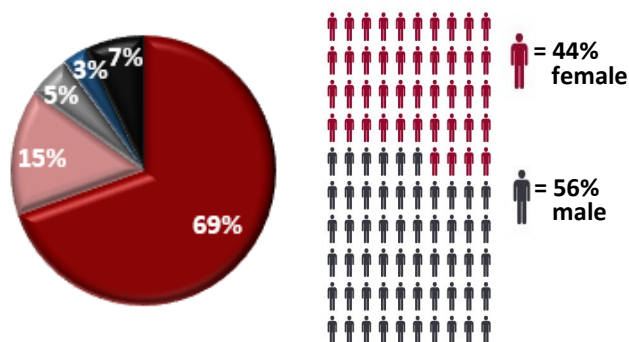


PROJECT GOALS

- Component 1: Watershed Sciences
- Component 2: Cyberinfrastructure Visualization
- Component 3: Cyberinfrastructure Data
- Component 4: Workforce Development

In comparison to the tri-state population, American Indians were equally represented, females were fairly represented, and Hispanics and African-Americans were underrepresented.

■ White ■ Asian ■ Hispanic ■ American Indian ■ Other



n=59 (92% response rate)

Baseline Survey Recommendations

- ◆ Recruit female and URM faculty and students.
- ◆ Provide opportunities for participants to develop knowledge about WC-WAVE topics.
- ◆ Promote cross component involvement in Workforce Development programs.

This newsletter presents information about the Baseline Survey, CSDMS, Tri-State Consortium Meeting, Stream Camp, and the UVMN Workshop.

2013-14 WC-WAVE Baseline Survey Results

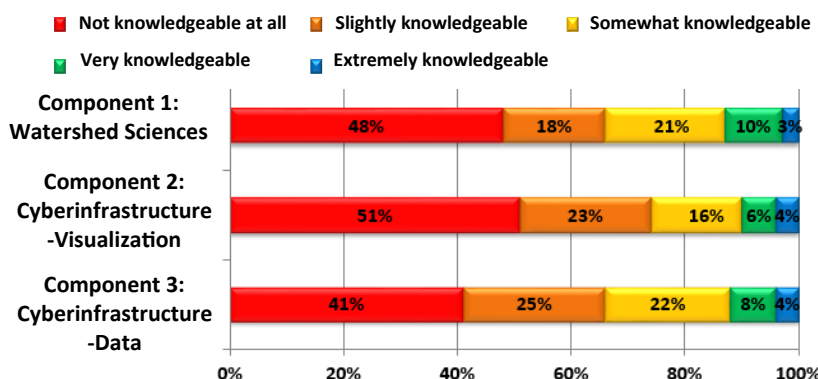
Baseline survey assesses:

- ◆ Demographics
- ◆ Implementation of the project
- ◆ Progress made towards achievement of project goals

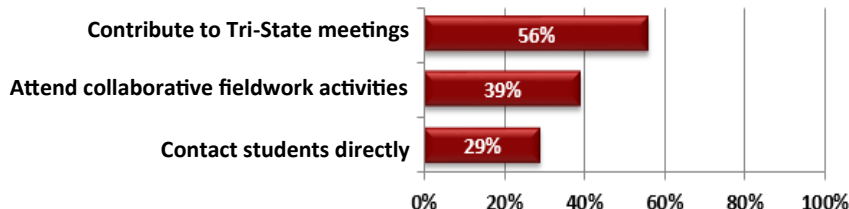
Findings:

- ◆ Components 1-3: Participants show some baseline knowledge.
- ◆ Component 4: Overall initial participation is low.

Mean ratings of respondent knowledge by component



Respondent participation for Component 4: Workforce Development

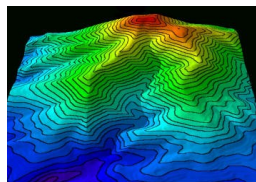


Community Surface Dynamics Modeling System (CSDMS) Training May 28-29, 2014

Objectives

Increase knowledge of:

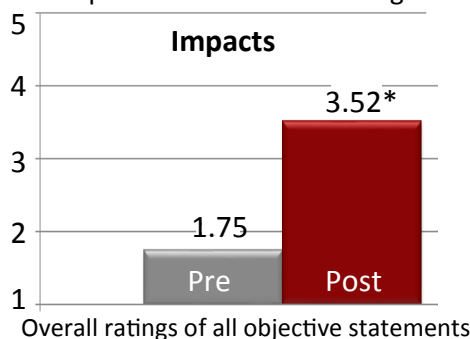
- ◆ CSDMS
- ◆ How to build a Basic Model Interface
- ◆ Model integration challenges and solutions
- ◆ Specifications for model wrapping target



Findings

- ◆ Sessions rated **very** or **extremely** useful.
- ◆ **Statistically significant** gains for all objectives.

The Albuquerque, NM training assists participants to develop CSDMS adapters for the models being used by the Watershed Science component.



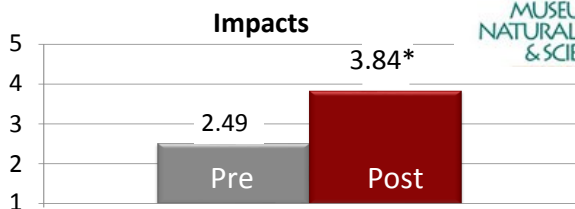
CSDMS Recommendations

- ◆ Recruit females and URMs.
- ◆ Send agenda in advance.
- ◆ Provide transportation from the hotel to training site.
- ◆ Encourage faculty to discuss STEM and students' career interests.

WC-WAVE Tri-State Consortium Meeting May 29, 2014

Objectives - Increase knowledge of:

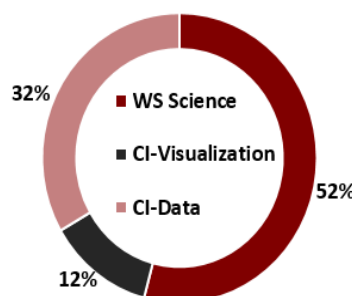
- ◆ Year 1 project updates
- ◆ Year 2 project plans
- ◆ Project integration plans



Overall rating of all objective statements

The Tri-State Consortium Meeting at the NM Museum of Natural History & Science brings together all WC-WAVE participants to review progress, plan, and collaborate.

Meeting Attendees



Findings

- ◆ Sessions rated **very or extremely useful**
- ◆ **Statistically significant gains** for all program objectives

Recommendations

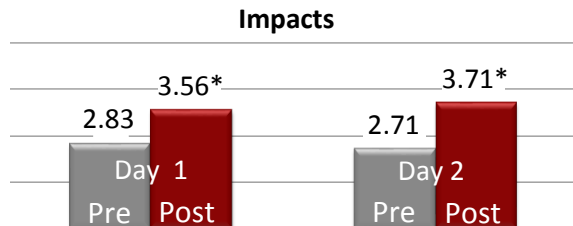
- ◆ Outreach to females and URMs.
- ◆ More collaborative activities.
- ◆ Distribute meeting schedule in advance.

Stream Flow Camp May 30-31, 2014

Stream Flow Camp is a watershed science field learning experience held in Jemez Valley, NM over 2 days: Rio Chama/Day 1 and Jemez/Day 2.

Objectives - Increase ability to:

- Day 1**
- ◆ Measure instantaneous discharge of a small stream
 - ◆ Develop & use a rating curve-stage to discharge
 - ◆ Measure ground H₂O-stream flow interactions
- Day 2**
- ◆ Monitor discharge, dispersion, & turbulence
 - ◆ Measure instantaneous discharge of a large stream



Overall ratings of all objective statements

Findings

- ◆ Rio Chama/Day 1 received **high ratings**
- ◆ **Statistically significant gains** for both days' objectives

Recommendations

- ◆ Outreach to females and URMs.
- ◆ Send information early.
- ◆ Create small groups and assign faculty to each.



Undergraduate Visualization and Modeling Network (UVMN) Workshop

The workshop teaches undergrads and faculty from PUIs visualization/modeling techniques.

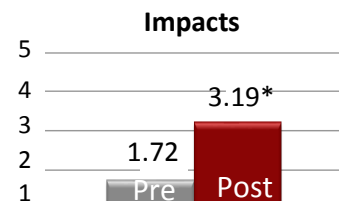


Objectives

- Increase participants:
- ◆ Knowledge of modeling and visualization tools.
 - ◆ Skills to integrate modeling in undergraduate STEM courses.
 - ◆ Interest in and commitment to study modeling and visualization.

Findings

- ◆ Sessions **very or extremely useful**
- ◆ **Statistically significant gains** for most objectives



Overall rating of objectives

Recommendations

- ◆ Increase URM participation.
- ◆ More demonstrations.
- ◆ Encourage faculty to discuss their research.

Evaluator Recommendations

- **OUTREACH and RECRUITMENT** to increase females and URMs
- **FORMATS of MEETINGS & ACTIVITIES** Incorporate formats that encourage collaboration, especially between components and between students and faculty.
- **PARTICIPATION** Increase student and faculty participation in field trips and meetings.

Upcoming Evaluation Activities

Conduct PSAT (Program Sustainability Assessment Tool)
UVMN (Undergraduate Visualization and Modeling Network) **Follow Up**



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EVALUATION AND RESEARCH