

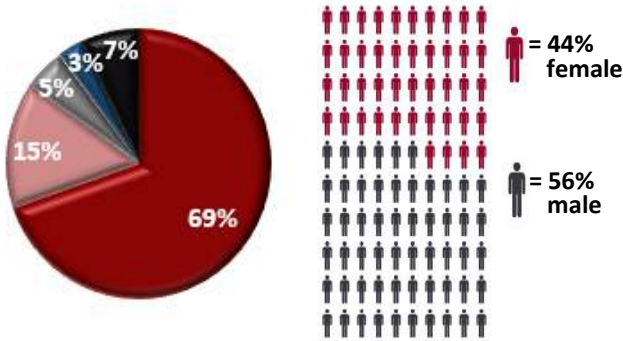


### PROJECT GOALS

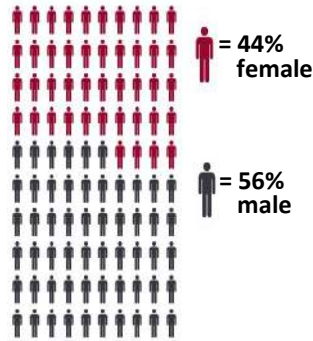
- Component 1: Watershed Sciences
- Component 2: Cyberinfrastructure Visualization
- Component 3: Cyberinfrastructure Data
- Component 4: Workforce Development

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

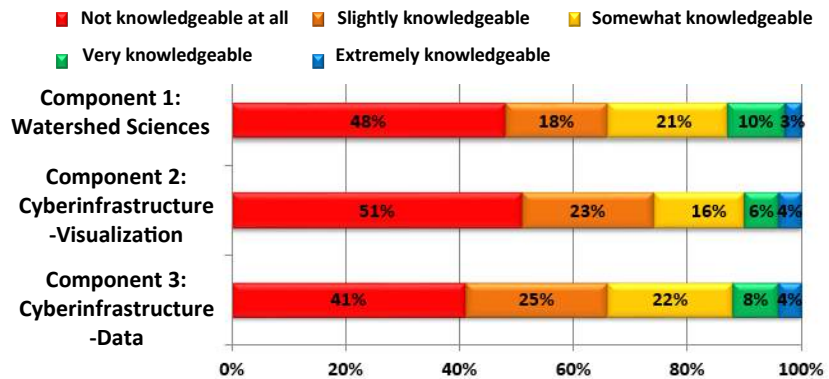
#### Baseline survey assesses:

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

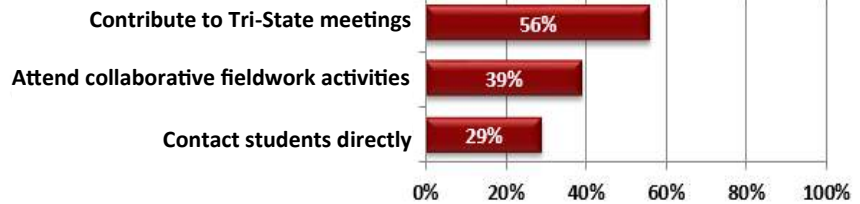
#### Findings:

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

#### Mean ratings of respondent knowledge by component



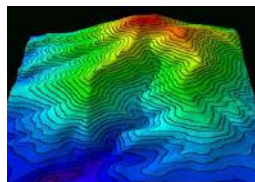
#### Respondent participation for Component 4: Workforce Development



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

#### Objectives

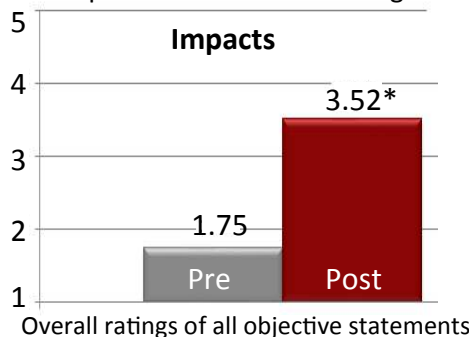
- Increase knowledge of:
  - CSDMS
  - How to build a Basic Model Interface
  - Model integration challenges and solutions
  - Specifications for model wrapping target



#### 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.



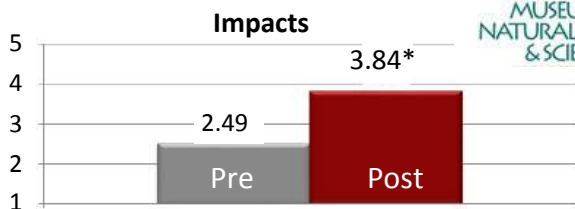
#### CSDMS Recommendations

- 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:

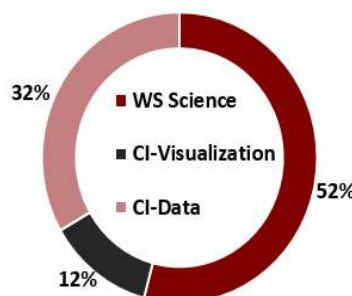
- ◆ Year 1 project updates
- ◆ Year 2 project plans
- ◆ Project integration plans



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**

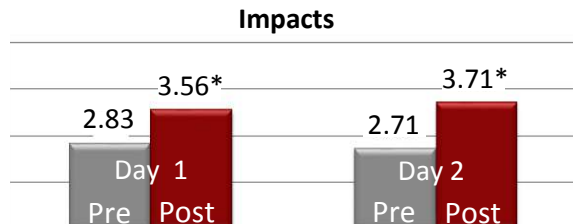
- ◆ Outreach to females and URMs.
- ◆ More collaborative activities.
- ◆ Distribute meeting schedule in advance.

## 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 H<sub>2</sub>O-stream flow interactions
- Day 2**
- Monitor discharge, dispersion, & turbulence
  - Measure instantaneous discharge of a large stream



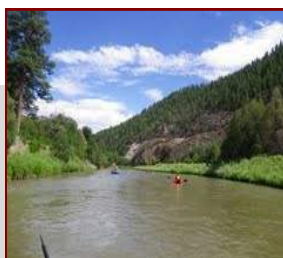
Overall ratings of all objective statements

**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.

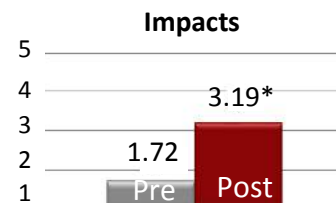


**Objectives**

- 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**