Stop 1. Chihuahuan Desert Nature Park
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**Education and Outreach** Components:
- **Education**
  - K-12 students and teachers; general public
  - Undergraduates & graduate students
- Outreach to land managers & scientists
- Media communications
- Technology development and transfer
- Data and information accessibility

**Common Features**
- Tight connection to LTER science
- Inquiry-based and hands-on
- Alignment with education standards (NM, TX, NGSS, CCSS)
- Leveraged by outside grants ($7 for every $1 of LTER funds)

**Impact:**
1. 151,299 K-12 student contacts (>49,000 in last three years)

2. Increases in content knowledge
3. Gains in understanding of scientific practices
4. Decreases in stereotypes about what scientists look like and what scientists do
K-12 Education and Outreach

**Schoolyard Science Studies**

Last 3 years: Kits distributed throughout NM and El Paso, TX region

**Class/Schoolyard Programs**

Last 3 years: 1,650 one-hour programs for 40,193 students (~24 students/program)

**Field Trips**

Last 3 years: 93 full-day trips for 5,213 students (~56 students/trip)

**Teacher Workshops**

Last 3 years: 11 workshops (1-10 days) for 214 teachers (~19 teachers/workshop)

**Family Education Events**

Last 3 years: 18 events for 1,249 participants (~69 people/event)

**Desert Data Jam**

Last 3 years: 109 projects in final competitions (198 students)

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**Graduate Student Involvement in K-12 Education**

Update tomorrow from Owen McKenna
K-12 Education and Outreach

Focus for next three years:

1. Continue existing programs
   • At least 1,500 classroom/school programs and 75 field trips
   • At least 3 teacher workshops
   • Host Desert Data Jam in April 2016, 2017, 2018
   • At least 12 family-friendly public programs
   • New graduate student collaboration options

2. Refine, expand, develop and implement new evaluation tools
   • Objective: Increases in content knowledge
     Current tools: Conceptual models; matching “games;” pre/post multiple choice
   • Objective: Gains in understanding of scientific practices
     Current tools: Teacher evaluations, teacher focus groups
   • Objective: Decreases in stereotypes about what scientists look like and what scientists do
     Current tool: Describe a Scientist Assessment

3. Strengthen existing partnerships and form new collaborations with other LTERs
   • Active participation in Education & Outreach Committee
   • Data Jam collaboration (BES, CAP, FCE, HJA, LUQ)
   • Data Literacy working group

4. Disseminate information on successful models