

N.M. MESA INC.
LONGITUDINAL RESEARCH
STUDY

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NM MESA, IT Manager

Purpose of the Study

- ▣ To determine if participation in the NM MESA program during high school, significantly affects student choices regarding;
 - College attendance
 - College graduation
 - Fields of study
 - Career choices

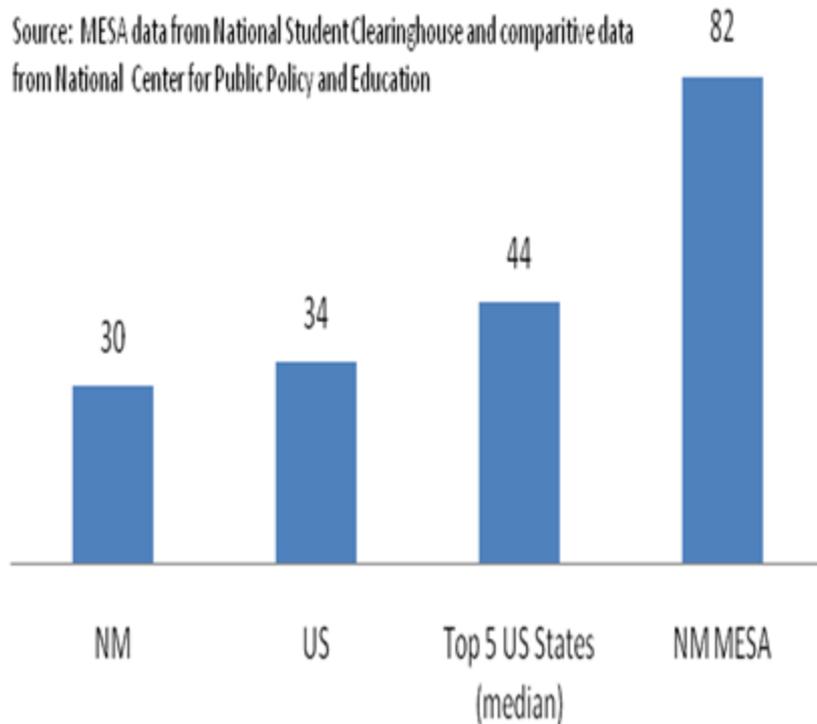
Approach

- ▣ Contact past MESA students that were active in the program during their senior year of high school.
 - Letters to parents requesting current contact information for their student.
 - Direct students to our on-line Alumni Survey instrument where they provide post-high school and career information about themselves.
- ▣ Submit lists of past MESA students to the National Student Clearinghouse
 - College graduation rates and degree completion are then compared to NM and national data provided by The National Center For Public Policy and Higher Education.

Findings

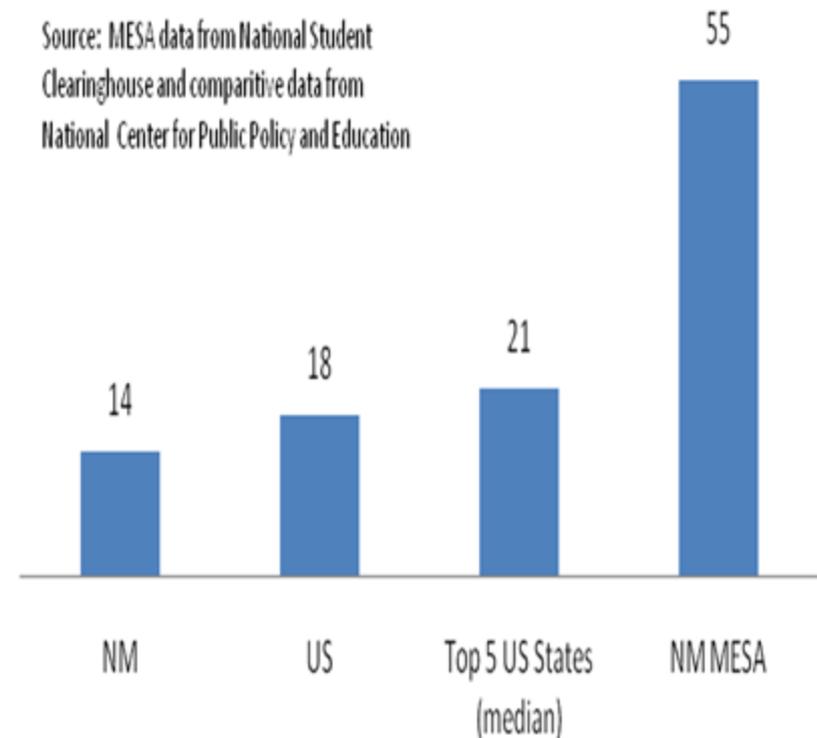
% of NM MESA HS Graduates Enrolling in College

Source: MESA data from National Student Clearinghouse and comparative data from National Center for Public Policy and Education



% of NM MESA Alumni Graduating from College

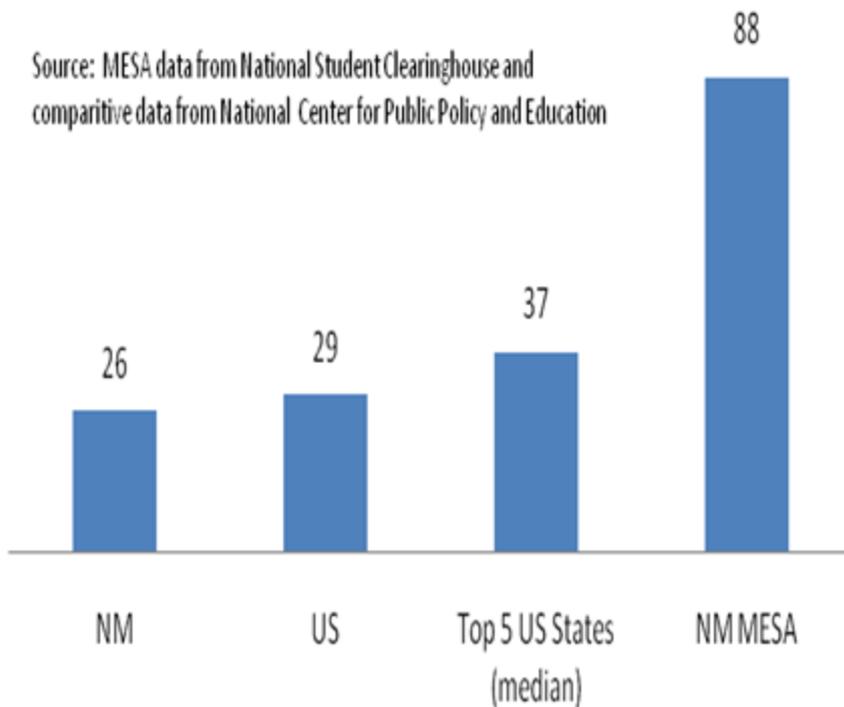
Source: MESA data from National Student Clearinghouse and comparative data from National Center for Public Policy and Education



Findings (cont.)

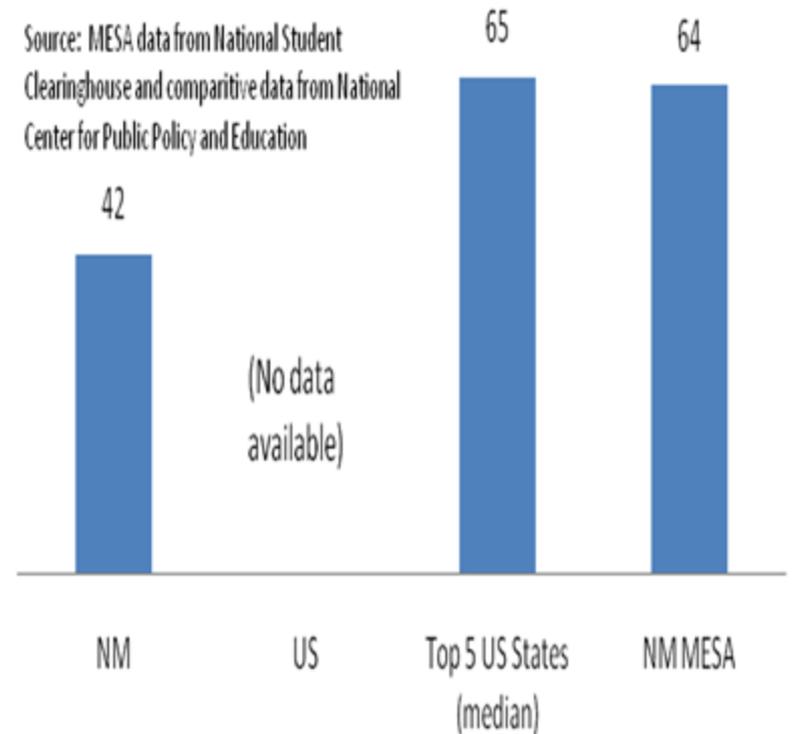
% of College Graduates with Bachelors Degree or Higher

Source: MESA data from National Student Clearinghouse and comparative data from National Center for Public Policy and Education



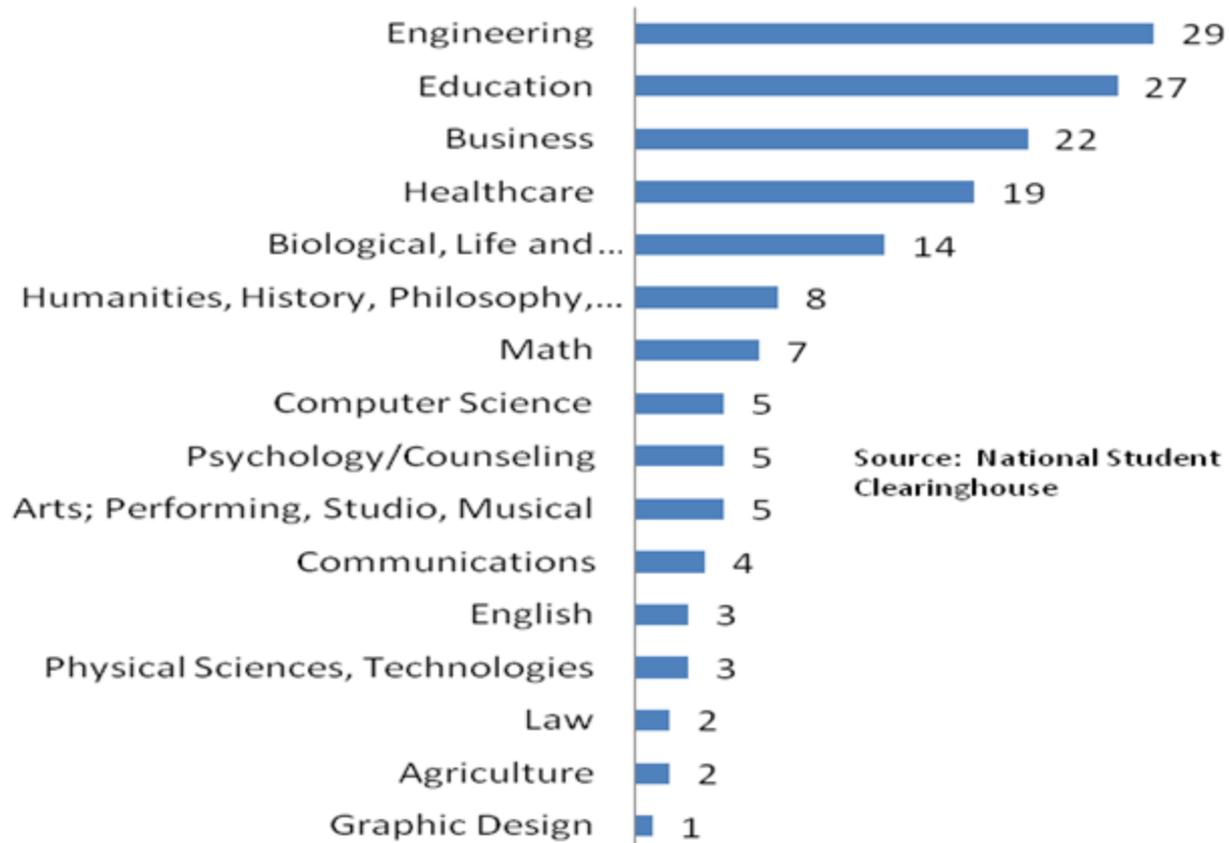
Students with BS within 6yrs of HS Graduation

Source: MESA data from National Student Clearinghouse and comparative data from National Center for Public Policy and Education



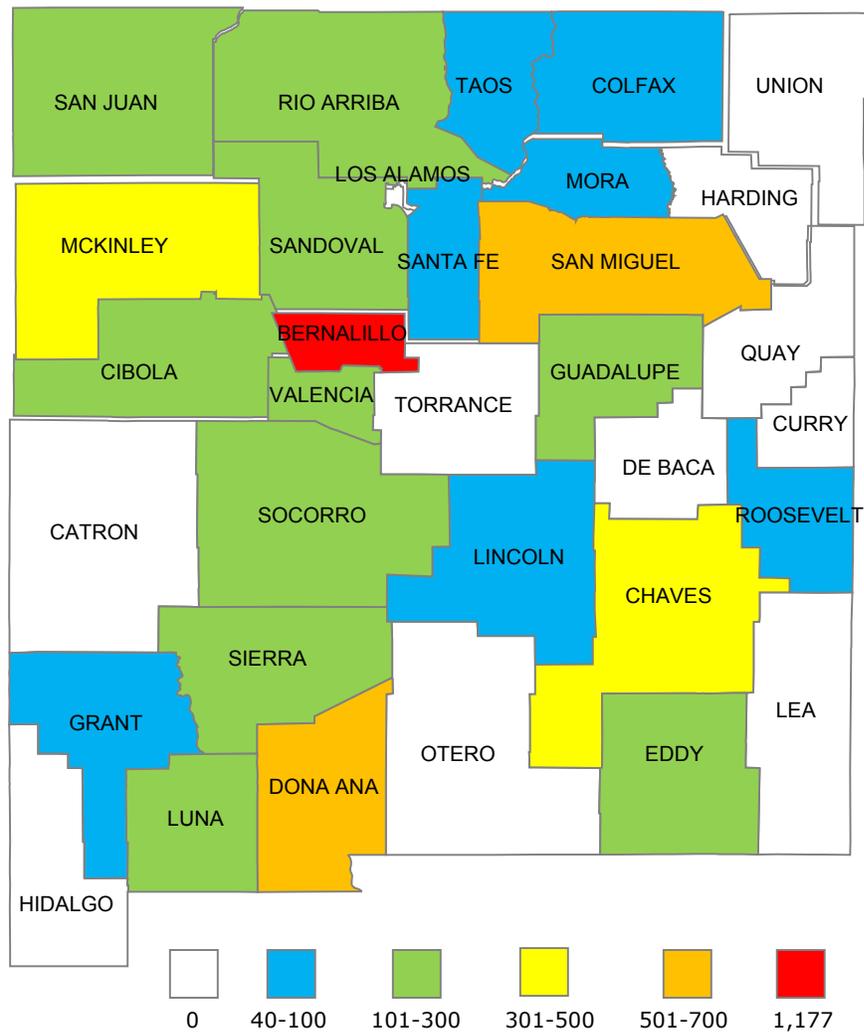
Findings (cont.)

NM MESA Alumni Degrees by Field (1997 - 2003)





NM MESA Student Numbers By County 2008-2009 (Total students = 5443)

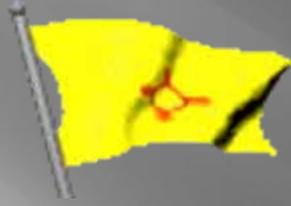


NM MESA, Inc.

Mathematics, Engineering, Science Achievement

*“Building Tomorrow’s Mathematicians,
Engineers and Scientists...Today!”*

History



- ▣ **1970 – MESA program originates at University of California, Berkeley.**
- ▣ **1982 – NM MESA founded**

Mission



**Empower and motivate New Mexico's
culturally diverse students with science,
technology, engineering, and math (STEM)
enrichment.**

NM MESA Provides

- ▣ **Academic Competitions
(regional and state-wide)**
- ▣ **Field trips**
- ▣ **College visits and counseling**
- ▣ **Scholarships**
- ▣ **Teacher professional
development**



Program Requirements

- ▣ **Maintain a minimum 2.0 GPA**
- ▣ **Enroll in college-prep Math, Science, and English courses all four years of high school**
- ▣ **Participate in the following each school year:**
 - **Attend at least 18 NM MESA Meetings**
 - **One Family Orientation**
 - **12 Tutoring Sessions per year**
 - **One Field Trip**
 - **One Give Back Project**
 - **Juniors & Seniors take either the ACT or SAT**

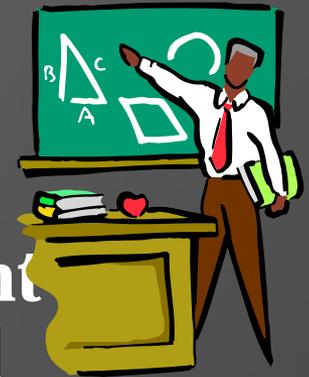


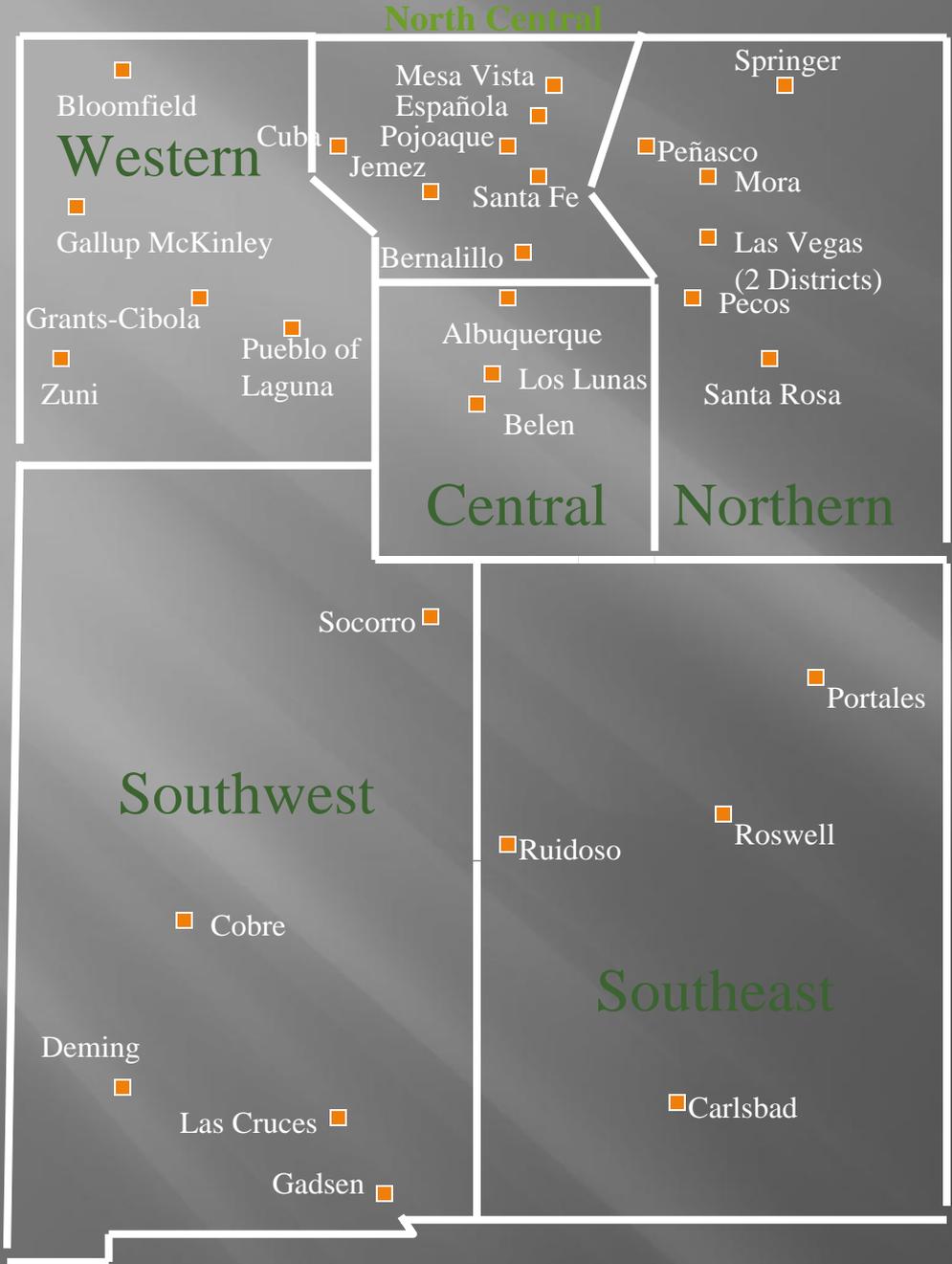
Retention Strategies

- ▣ Senior Incentive Award Scholarships
 - \$1000 per senior student available
 - Awards based on
 - ▣ Academic performance
 - ▣ Standardized test scores
 - ▣ MESA participation during high school
 - Total yearly awards: \$69,000 - \$130,000.
- ▣ Senior Incentive Field Trip
 - 50 – 90 outstanding senior students selected for spring trip to NASA Kennedy Space Center, FL or Johnson Space Center, TX.

Professional Development

- ▣ 199 Advisors/Teachers
- ▣ Statewide Professional Development Conferences Throughout the School Year
- ▣ Regional Meetings/Workshops
- ▣ Ongoing Technology Training for Advisors/Teachers



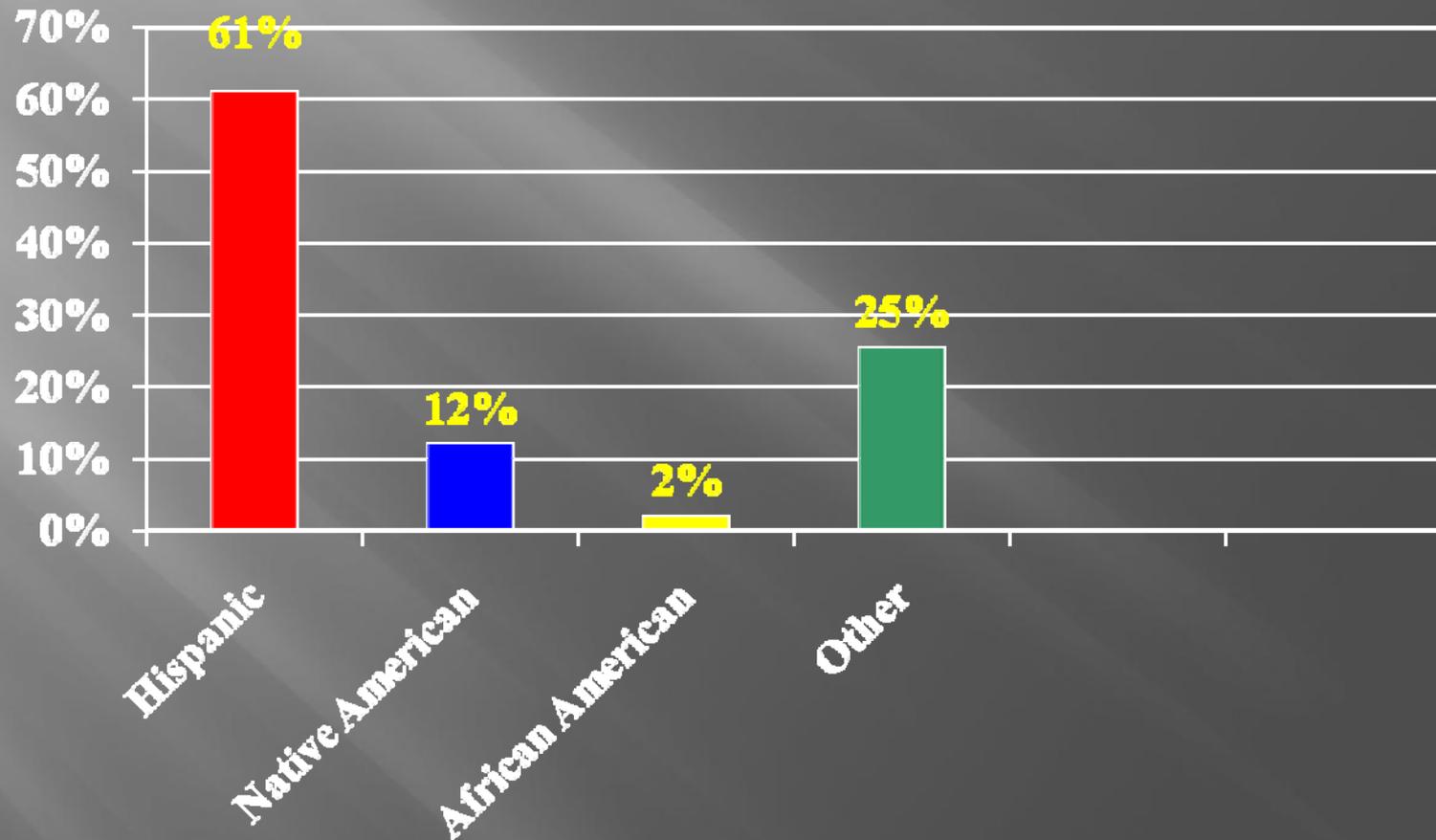


NM MESA Facts

NM MESA Serves:

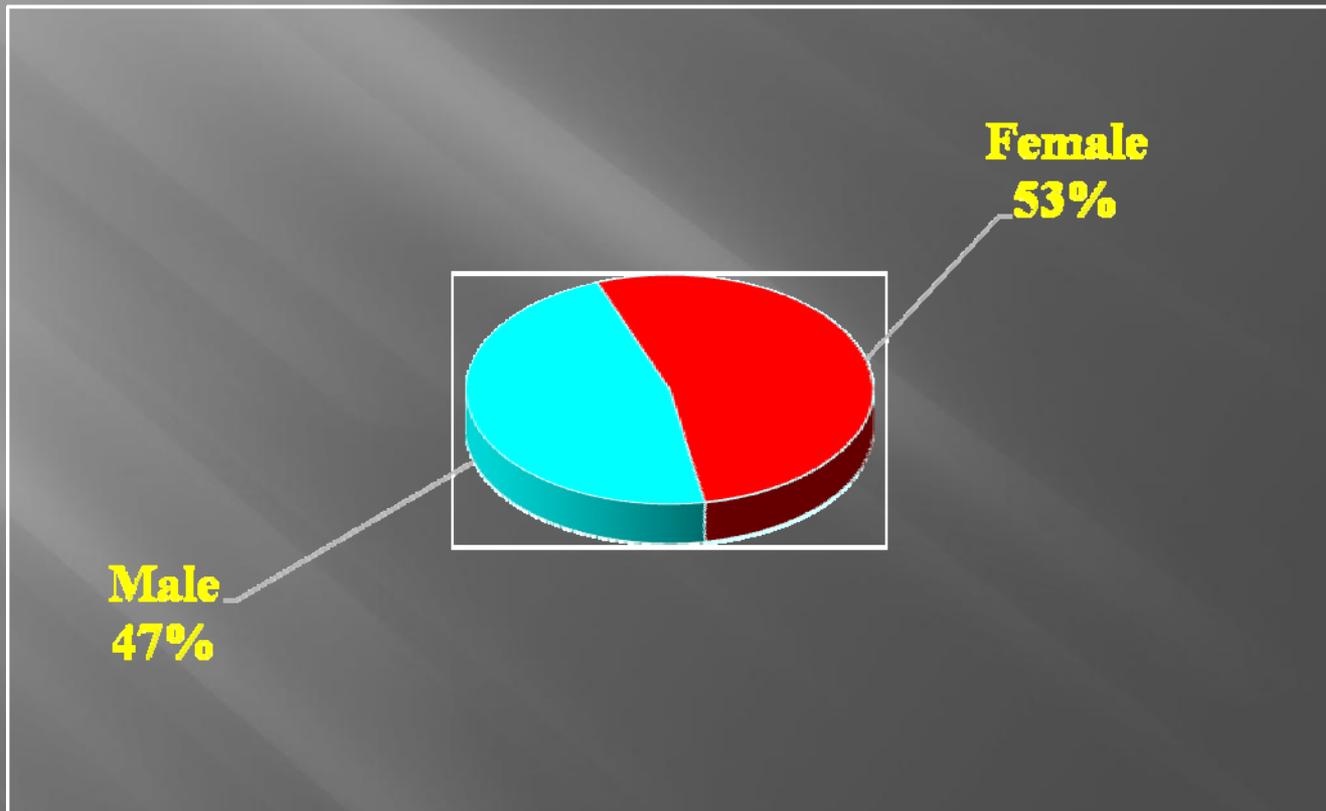
- over 5000 Students
- 39 School Districts
- 1 Pueblo
- 135 Schools Statewide

MESA Demographics by Ethnicity 2008-2009*



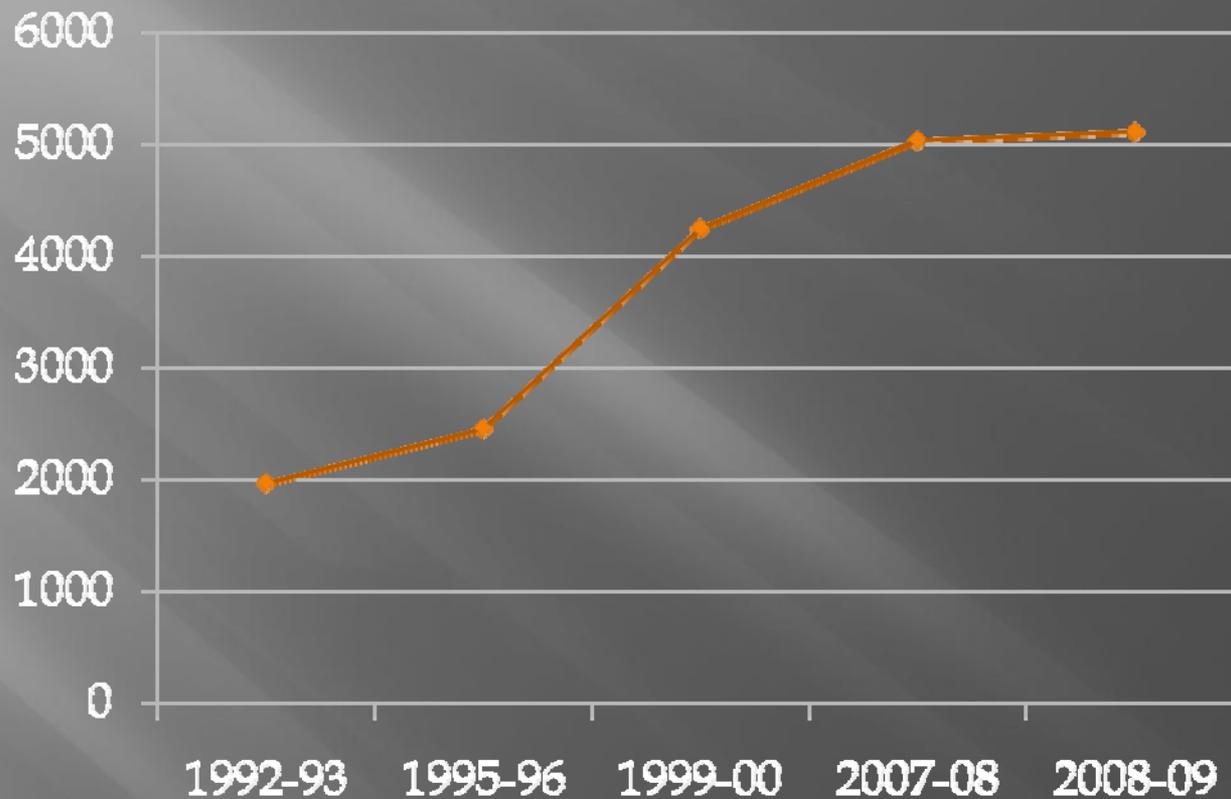
* Based on 2008-09 NM MESA Database

MESA Demographics by Gender 2008-2009*

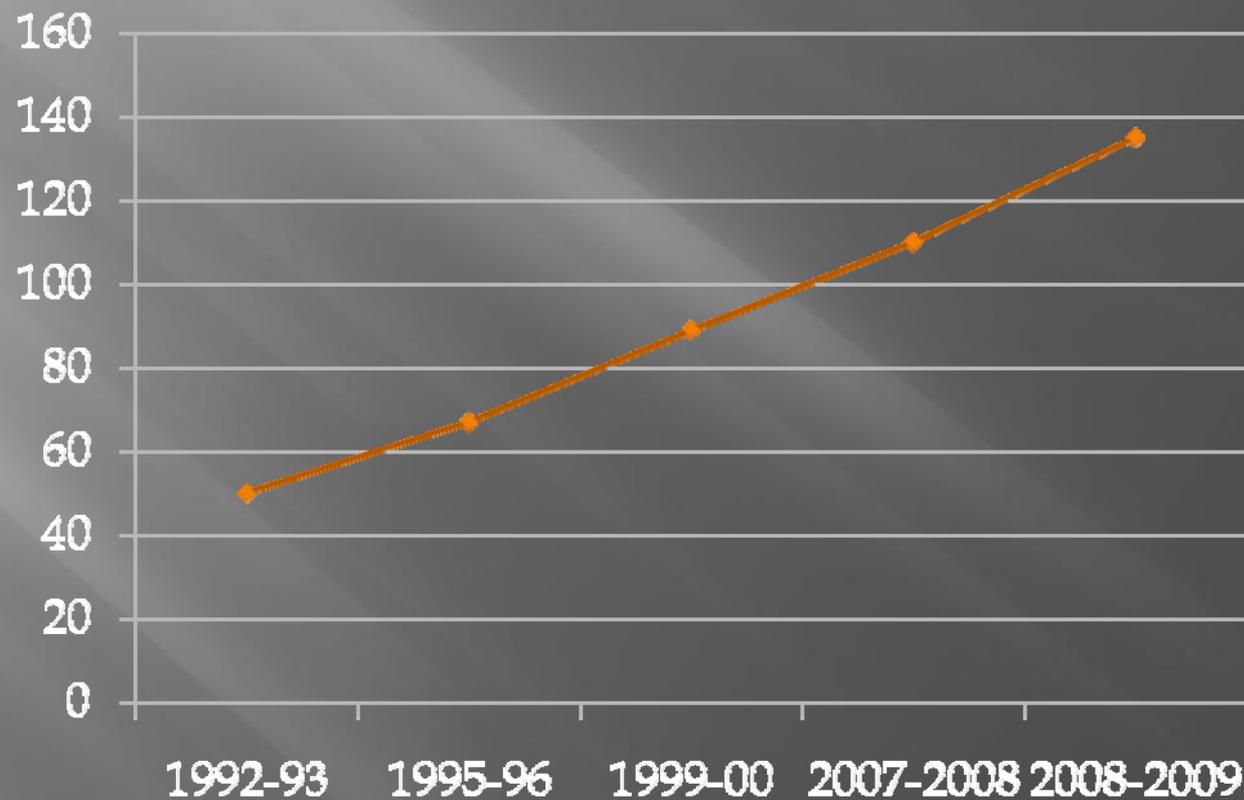


* Based on 2008-09 NM MESA Database

Growth of students served in New Mexico



Growth of schools served in New Mexico



NM MESA students on Native American Lands (2009)

Navajo Nation (340)

Crownpoint High School — 26
Crownpoint Middle School — 37
Thoreau Middle School — 48
Tohatchi High School — 26
Navajo Middle School — 56
Navajo Pine HS — 106
Newcomb MS — 41

Pueblo of Acoma (45)

Laguna Acoma High School — 23
Laguna Acoma Middle School —
22

Pueblo of Zuni

Zuni Middle School — 26

Pueblo of Santo Domingo

Santo Domingo Middle School —
57

NM MESA Native American Students Attending Schools Near Native American Lands in 2009 (384)

Bloomfield High School — 21 Students

(near Navajo)

Gallup High School — 15 Students

(near Navajo, Zuni)

Grants High School — 22 Students

(near Navajo, Zuni, Laguna, Acoma)

Kirtland Middle School — 17 Students

(near Navajo, Jicarilla)

Los Alamos Middle School — 130 Students

(near Navajo, Laguna, Acoma)

Mesa Alta Junior High — 146 Students

(near Navajo, Jicarilla)

Miyamura High School — 33 Students

(near Navajo, Zuni)

NM MESA Native American Students Attending Schools Near Native American Lands in 2009

Bernalillo High School — 19 Students

(near Pueblos of Zia, Sandia, Santa Ana, San Felipe)

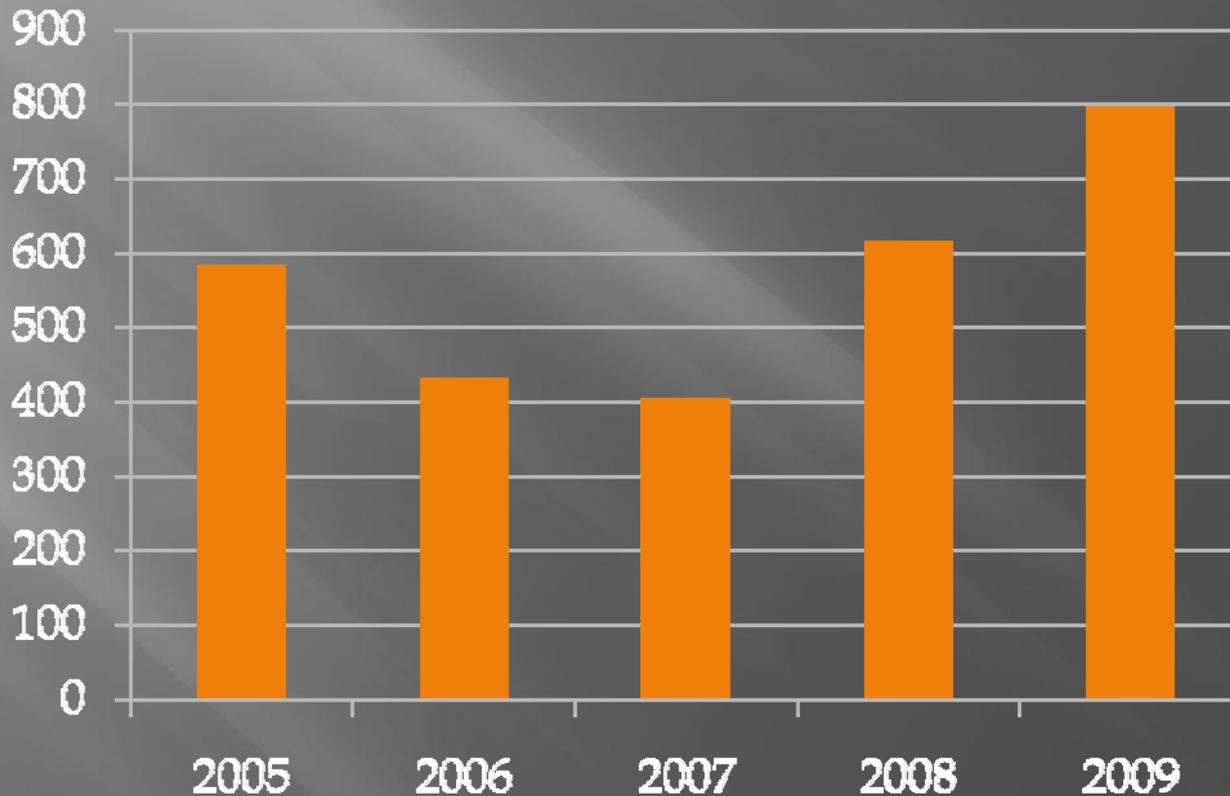
Bernalillo Middle School — 54 Students

(near Pueblos of Zia, Sandia, Santa Ana, San Felipe)

Cuba High School — 21 Students

(near Pueblo of Jemez, Navajo)

Total MESA Students by Year in the West Region



Ethnicity of MESA Students by Year in the West Region

