

Innovation and Improvement:

Using STEM Education to Empower Impoverished Young Adults



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Impoverished Young Adults Statistics



Defining Poverty

According to U S. Census Bureau poverty occurs when a single individual makes $> \$11,770$

- 14% of non-elderly population is impoverished
- 59% of the 14% are underrepresented from groups
 - Gender
 - Ethnicity

Mission:

- Raise population from areas of poverty
- Place emphasis on underrepresented because they consist of largest portion



Introduction



- *Where We Stand*
- *MANRRS: Leading Forward Movement*
- *Removing Employment Barriers*



Leadership



Education



Exposure

Where We Stand: Diversity Limited



- Apparent shortage in underrepresented groups studying STEM
- Apparent shortages in underrepresented groups employed in STEM industries
- STEM: Science, Math, Engineering and Mathematics ..Add A for Agriculture



Connection Keys



- *MANRRS Chapters Engaged*
 - Goal of land grants
 - Chapters 1862 and 1890 schools
 - Extension and community outreach
 - Desert communities
 - Community gardens
 - Self –sustainability
 - Partnerships with commodity groups to educate

MANRRS Strengthens The Community



MANRRS Salsa Garden-Gate to Plate

- Hands on activity as producers, processors and sales agents



Connections To Empower



True STEM in Action

- Connection with Food Source
- Skills to grow food (Science and Technology, Math) - photosynthesis, physiology, planting schedule and calculation for planting density
- Challenges producers face - (Science & Math) - entomology, plant pathology

Connections To Empower



True STEM in Action

- Coordination of harvest (Technology & Engineering)
- Preparation for processing (Engineering)
- Canning and Labeling (Technology & Engineering)
- Sales (Math)

Connections To Empower



Nursery Garden



Pepper Garden

Connections To Empower



Salsa Preparation



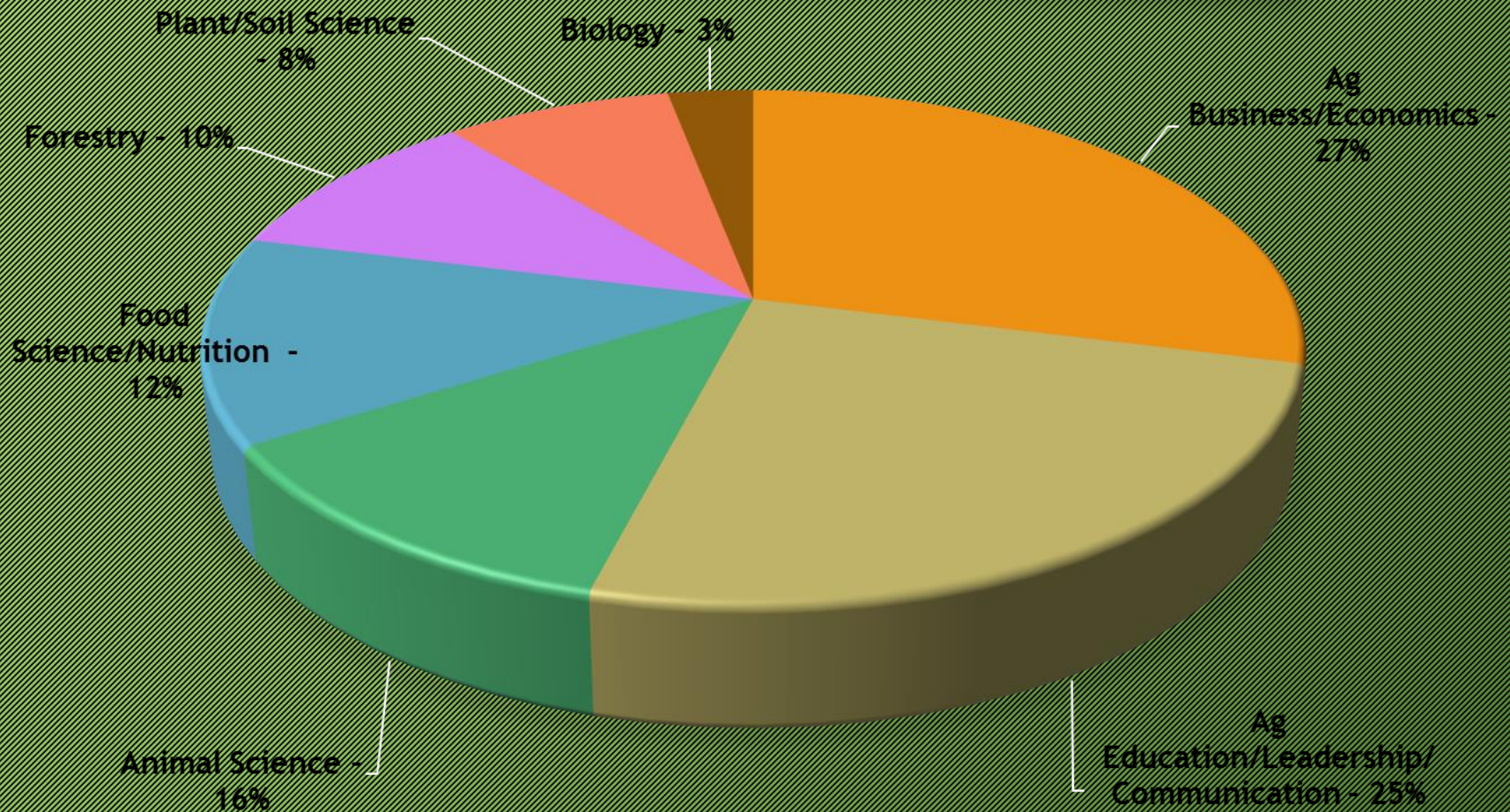
Working Together

Innovation and Improvement:

MANRRS: Leading Forward
Movement



MANRRS Education Demographics



MANRRS: Future Outlook



Short-Term Initiatives

- Expand Jr. MANRRS high school membership by connecting collegiate chapters to local high schools
- Increase the number of student/professional members and collegiate chapters
- Create opportunities for MANRRS Alumni



MANRRS: One-Stop Destination



National Officer Leadership Training
Land O' Lakes HQ
Minneapolis, MN



2016-17 National Officer Team

- Highly qualified, diverse students
- Diverse pool of professionals
- Exclusive training events
- Showcase your organization at Annual Conference and Regional Meetings
- Name recognition through sponsorship, volunteering and branding opportunities

Removing Employment Barriers



- *Cultural Intelligence*
- *MANRRS Diversity Study*

Where We Stand: Strategy Forward



- *Strategy for Movement*
 - Identify- true problem
 - Quantify-measure correct metrics
 - Inspire- hire the best and brightest
 - Assess- test change in technique
 - Evaluate- determine what data means
 - Adjust- Make needed changes to assure progress
- *Where we begin*
 - Change begins with us
 - Implementation of powerful programs



MANRRS: Focus Areas



- **Engagement.**
 - Local Chapters' Leadership Development/Regional Clusters
 - 32nd Annual Career Fair & Training Conference
March 29th – April 1st , 2017
 - Collaborative Partnerships with other Ag based organizations
 - Jr MANRRS Leadership Institutes
- **Diverse.**
 - Membership includes all ethnic backgrounds and genders
 - Membership consists of high school, collegiate and professional members
- **Development.**
 - Exposure to Industry and New Careers
 - Internships and Job Placement
 - Career Development Workshop Seminars
 - Student Research and Competitions



Questions

