

Workforce Development Report Governor's P-20 Council June 15, 2010

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LEADING HIGHER EDUCATION

PLAINTIFFS'



Request of Gov P-20 Council

- 1. Matrix of policy suggestions
- 2. Summary of business needs
- 3. Alignment of postsecondary education with economic development
- 4. Ideas for STEM support



Ensuring the Economic Security for Kansans

*Good jobs will go where the skilled workers are...

Good jobs will stay where the skilled workers are.

Workforce development = Economic development



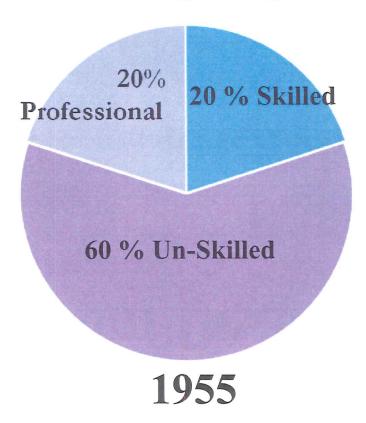
Economic Imperative

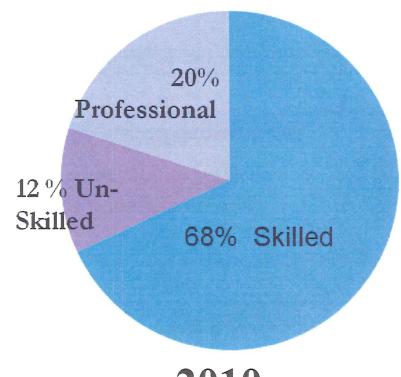
\$2.4 billion	Lost life-time earnings of the 9,400 students who did not graduate high school in Kansas in 2009
\$126 million	Savings in health care costs over the lifetimes of each class of dropouts had they earned their diplomas
\$43 million/yr	Savings in community college remediation costs and lost earnings if all student graduates were ready for college
\$73 million	Combination of crime-related savings and additional revenue if male high school graduation rate increased by 5%

*Alliance for Excellent Education – August 2009



Changing Job Requirements





2010

*Skill data – ACT, Inc. 989888
KBOR000020



What Does Business Want?

Basic Knowledge

- Reading
- English Language
- Writing in English
- Mathematics
- Science

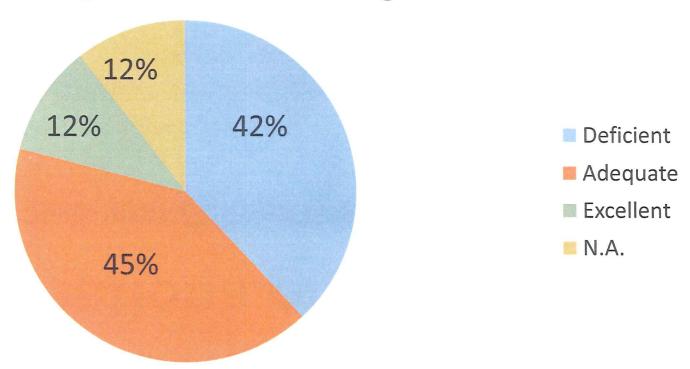
Applied Skills

- Professionalism-work ethics
- Teamwork-collaboration
- Critical thinking- problem solving
- Oral communications
- Written communications

"Are They Really Ready to Work" 2006



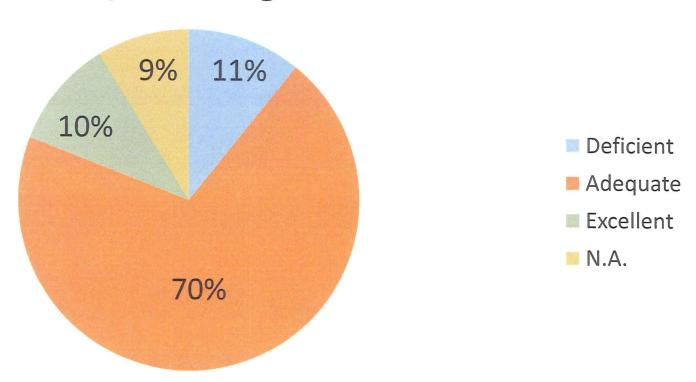
High School and GED grads



"Are They Really Ready to Work" 2006

Perceptions of Business

Two-year College Graduates

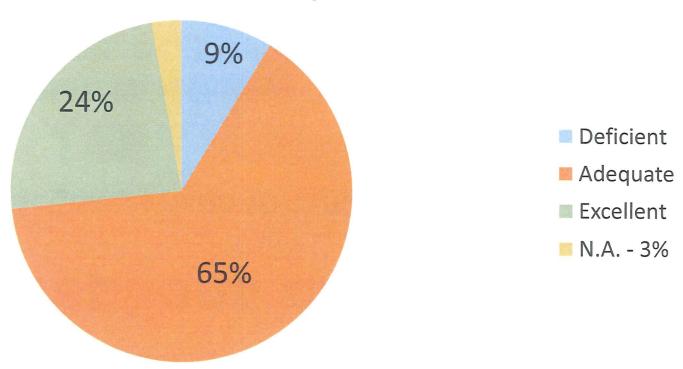


"Are They Really Ready to Work" 2006

989888



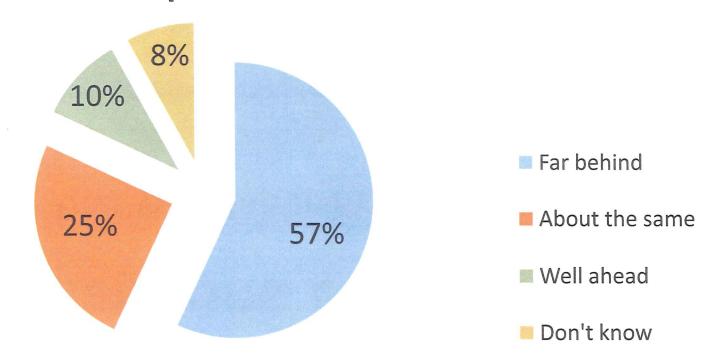
Four-year University Graduates



"Are They Really Ready to Work" 2006

Perceptions of Parents

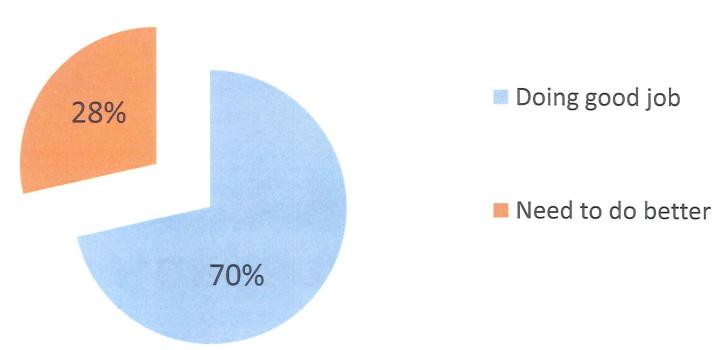
U.S. Comparison to other Countries



*"Important, But Not for Me: KS & MO Parents Talk about STEM Education" - Public Agenda, 2007 989888



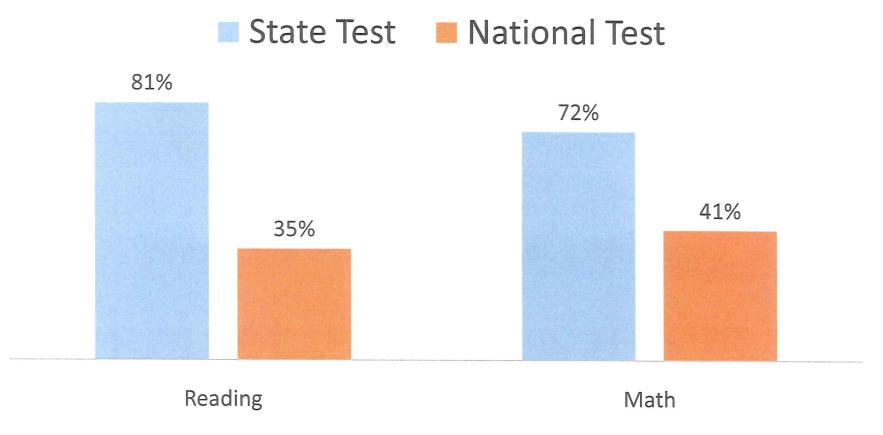
Local Comparison to other Countries



*"Important, But Not for Me: KS & MO Parents Talk about STEM Education" - Public Agenda 2007



Measure Academic Proficiency



*Kansas Eighth-Grade Proficiency as measured by Kansas State Tests and NAEP



Graduates Ready for College-level Coursework

ACT Benchmarks	Kansas	Nation
English – 18	74%	67%
Math – 22	48%	42%
Reading - 21	60%	53%
Science - 24	33%	28%
All four subjects	26%	23%

*Percent of 2009 tested - ACT 2010

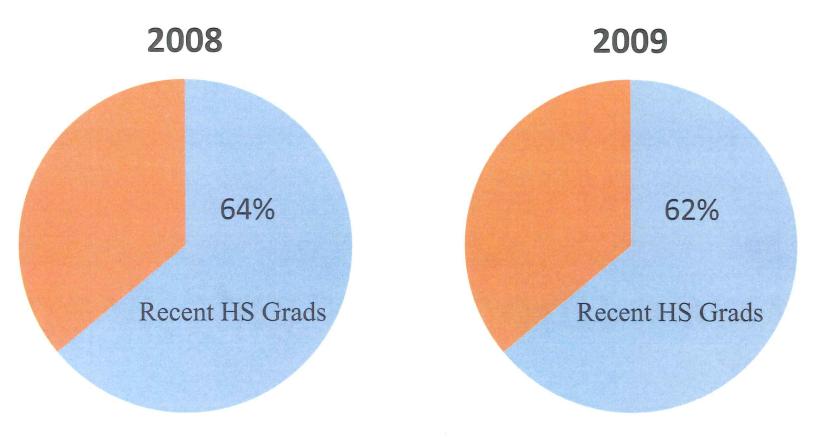
Students Below ACT 20 Composite

Sector	Percent below ACT composite 20
Universities	29.8% (range 22-35%)
Community/Technical colleges	51.4% (range 39-62%)

*ACT Profile report, 2009 graduating class, Students' score report preferences at time of testing



Developmental Course Enrollment



*Kansas postsecondary database 6-1-2010



Developmental Coursework

Sector	2008 Academic	2009 Academic
	year	year
Universities	15%	16%
Community colleges	44%	39%
Technical colleges	5%	7%
Total	64%	62%

*Recent HS Grads - Kansas postsecondary database 6-1-2010



Concurrent Enrollment Partnerships

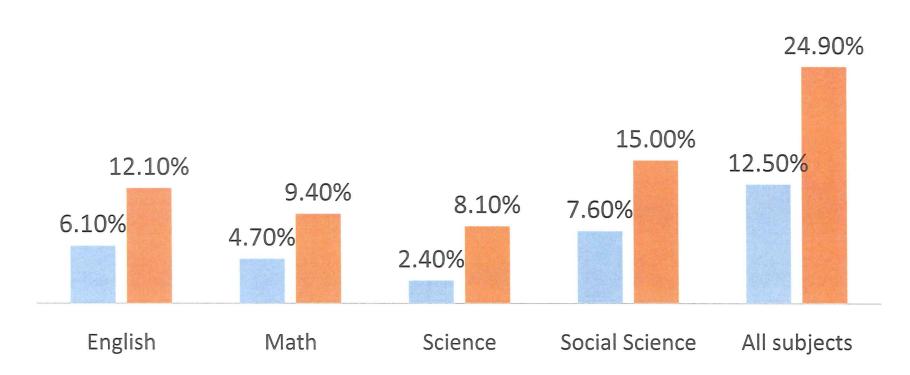
Sector	CEP Credit hours	Total credit hours	Unduplicated headcount
2-year colleges	78,842	1,603,181	10,644
Universities (4)	4,695	785,788	1,073
Totals	83,537	2,388,969	11,717

*Concurrent Enrollment Compliance Review-April 2010



Advanced Placement Participation

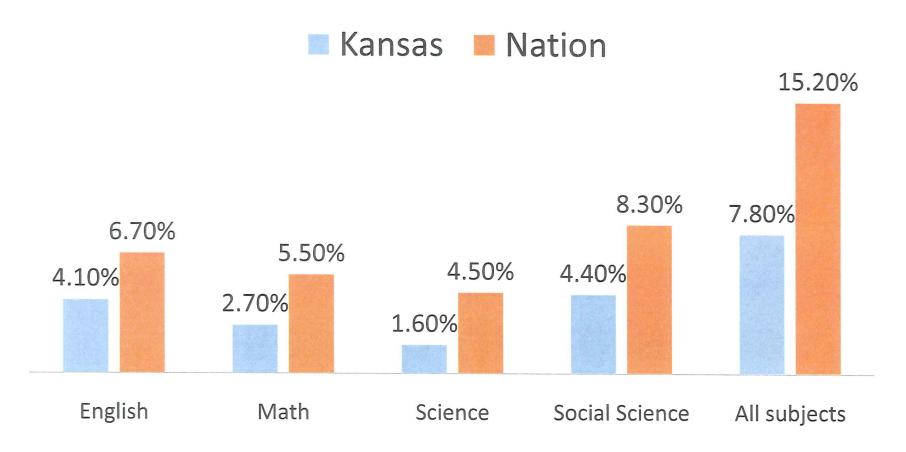




*CollegeBoard Annual Report to the Nation: Kansas



Advanced Placement Pass Rates

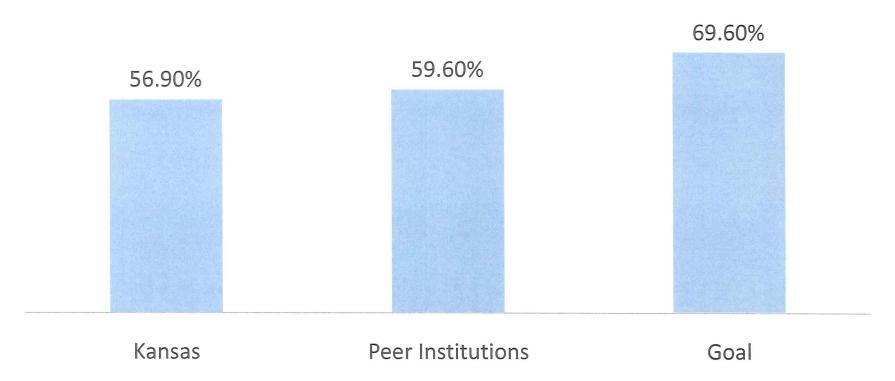


*CollegeBoard Annual Report to the Nation: Kansas



Research Universities

6-year Graduation Average



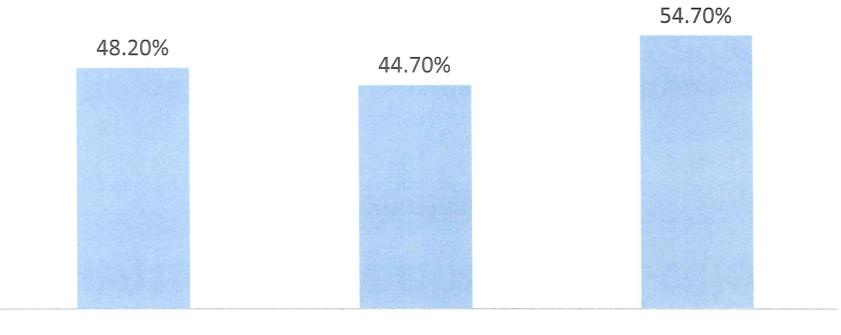
*"Building a Public Agenda for Kansas Higher Education"

989888



Regional Institutions

6-year Graduation Average



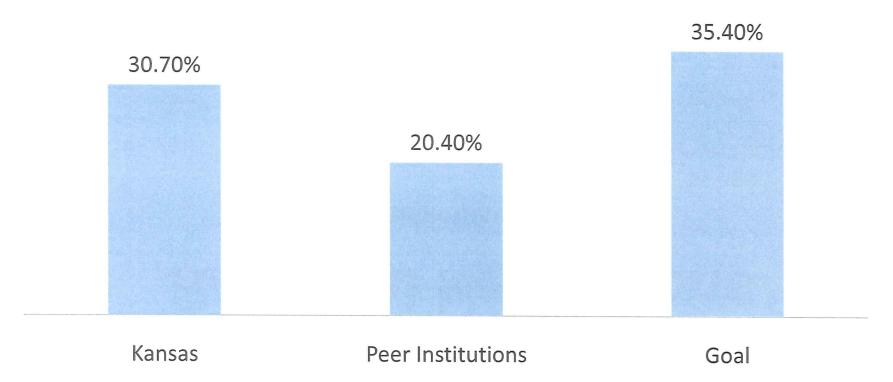
Kansas Peer Institutions Goal

*"Building a Public Agenda for Kansas Higher Education"



Community-Technical Colleges

3-year Graduation Average



*"Building a Public Agenda for Kansas Higher Education"

989888



- 9) Require all Kansas local education agencies to ensure every student has access to services that help guide them in career planning.
- 10) Require every Kansas student, beginning in middle-level or junior high school, to utilize a personalized college career plan of study throughout his/her school experience.

*KSBE Motions for Career Technical Education Policy Initiative

Kansas Career Fields and Clusters Model

Agriculture, Food, and Natural Resources

- Animal Systems
- Agribusiness Systems
- Biotechnology in Agriculture
- Environmental Service Systems
- Food Products and Processing Systems
- Natural Resources Systems
- Plant Systems
- · Power, Structural, and Technical Systems

Arts. A/V Technology.

- Audio/Video Techniques
- Journalism and Broadcasting
- Performing Arts
- Printing Techniques
- Telecommunications Techniques
- Visual Arts

- Information Support and Services
- Web and Digital Communications
- Network Systems
- Programming and Software Development

Business Management and Administration

- Administrative Services
- Business Information Management
- Human Resources Management
- General Management
- Operations Management

Finance

- Banking Services
- Business Finance Securities and Investments
- Insurance
- Accounting

Hospitality and Tourism

- Lodging
- Recreation, Amusements. and Attractions
- Restaurants and Food and Beverage Services
- Travel and Tourism

Marketing

- Merchandising
- Marketing Management
- Marketing Communications
- Marketing Research
- Professional Selling

Foundation Knowledge and Skills

Academic and Technical Skills

- Employability
- · Ethics
- Systems
- Teamwork · Career
- Development
- Problem Solving · Critical Thinking
- Information Technology Application
- Legal
- Responsibilities
- Communication
- · Safety, Health, and Environment

Architecture and Construction . Health, Safety, and

- Construction
- Design and Pre-construction
- Maintenance and Operations

Manufacturing

- Production
- Manufacturing Production Process Development
- Maintenance, Installation. and Repair
- Quality Assurance
- Logistics and Inventory Control
- · Health, Safety, and Environmental Assurance

Transportation, Distribution, and Logistics

- Facility and Mobile Equipment Maintenance
- Environmental Management
- · Logistics Planning and Management Services
- Sales and Services
- Transportation Operations
- Transportation/Systems Infrastructure Planning. Management, and Regulation
- Warehousing and Distribution Center Operations

Science, Technology, Engineering, and **Mathematics**

- Engineering and Technology
- Science and Math (Investigative, Informational, and Educational)

Government and Public

- Administration Revenue and Taxation
- Foreign Service
- Governance
- National Security
- Planning
- Public Management and Administration
- Regulation

Education and Training

- Administration and Administrative Support
- Professional Support Services
- Teaching/Training

Human Services

- Consumer Services
- Counseling and Mental Health Services
- Early Childhood Development and Services
- Family and Community Services
- Personal Care Services

Law, Public

Safety, and Security

- Correction Services
- Emergency and Fire
- Management Services Law Enforcement Services
- Legal Services
- Security and Protective Services

Health Science

- Biotechnology Research and Development
- Diagnostic Services
- Supportive Services
- Health Informatics
- The rape utic Services



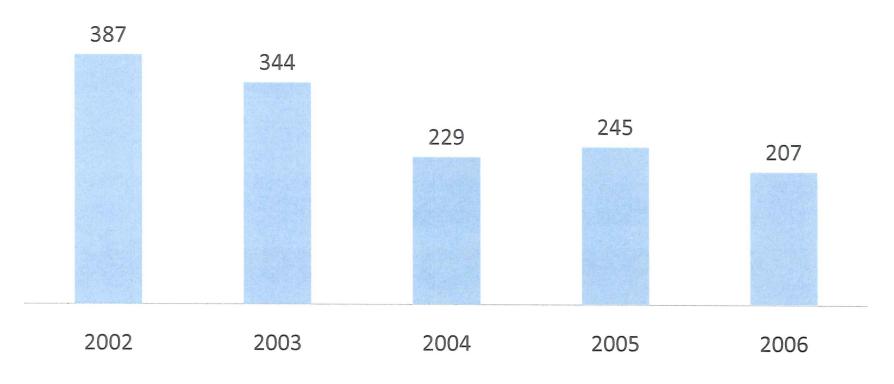
Integration of Career Sites

Career Zoom Career Pipeline



Math, Science, & Engineering

Associate Degrees Awarded

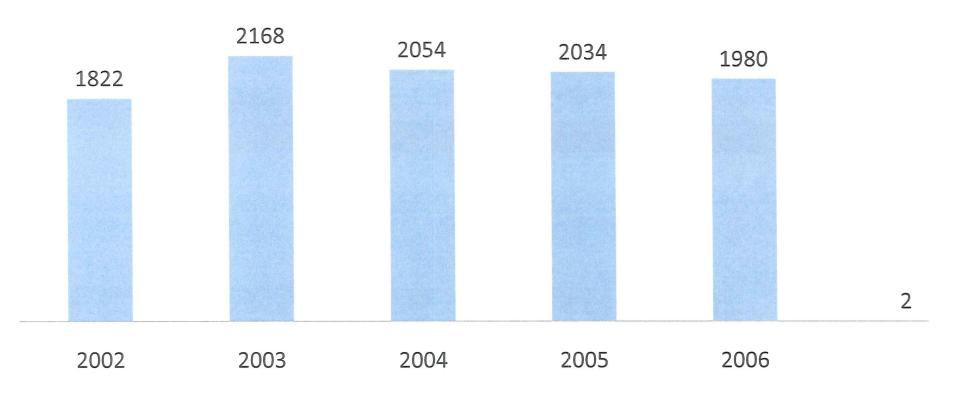


*U.S. Dept. of Education, IPEDS Completion survey 989888



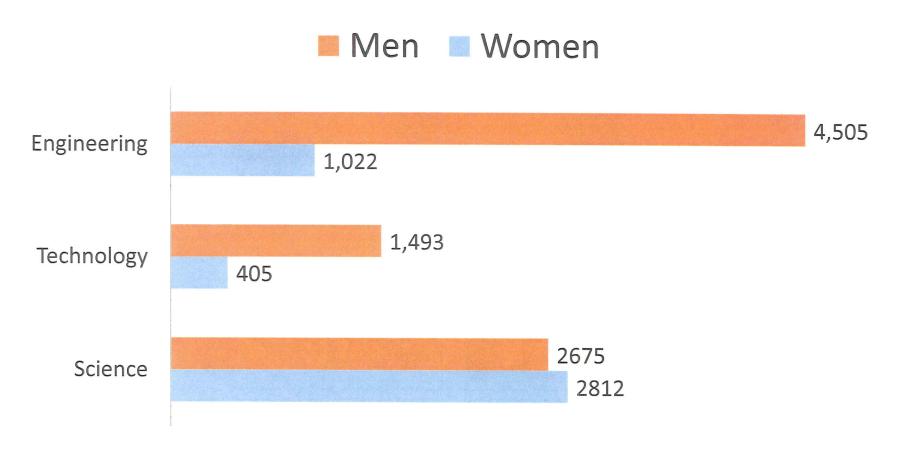
Math, Science, & Engineering

Bachelor's Degrees Awarded



*U.S. Dept. of Education, IPEDS Completion survey 989888

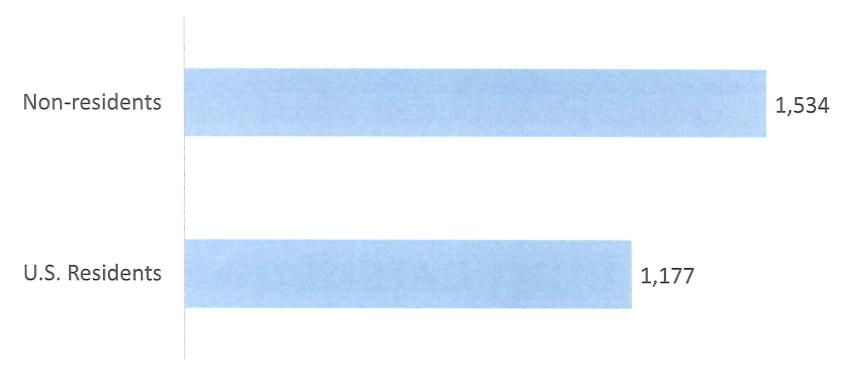






STEM Degrees by Residency

Technical Master's Degrees - 2002-2006



*U.S. Dept. of Education, IPEDS Completion survey



Comprehensive Data Systems

Ability to track individual students over time	Yes
Student-level demographic information	Yes
Ability to track individual students' test records year to year for growth	Yes
Ability to know which students have not been tested	Yes
Ability to match teachers to students by classroom and subject	No
Student level transcript information	In progress
Information on student performance on college readiness (ACT only)	Yes
Student level graduation and dropout data	Yes
Ability to match student records between K-12 and postsecondary	In progress
System to evaluate data system quality	Yes

*National Center for Education Accountability



Regents Foresight 2020

- 1) Educational systems alignment
- 2) Participation in higher education
- 3) Persistence and credential attainment
- 4) Focus on learner outcomes
- 5) Alignment with the KS economy

Lumina Foundation for Education

★ Our Big Goal is to increase the percentage of Americans who hold high-quality degrees and credentials to 60 percent by 2025.



Governor's Forum for Increasing Postsecondary Credential Attainment

- 1) Elevate awareness
- 2) Endorse policy direction, and
- 3) Discuss strategic implementation steps



Thank you

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