

Georgia Mosquito Control Association



Sam Pardue, Dean and Director

10/13/2016



Personal Background

Yadkin County, North Carolina



Education: NC State University

1977- BS Poultry Science

1979- MS Physiology

1983- PhD Physiology



Personal Background

University of Massachusetts- Amherst, Post Doctoral Associate

Texas A&M University, Assistant Professor

NC State University

Undergraduate Teaching Coordinator

Professor & Head; Faculty Athletic Representative

Associate Dean & Director Academic Programs



START

HOW GREAT LEADERS INSPIRE
EVERYONE TO TAKE ACTION

WITH

SIMON SINEK

THE
GLOBAL
BESTSELLER

WHY



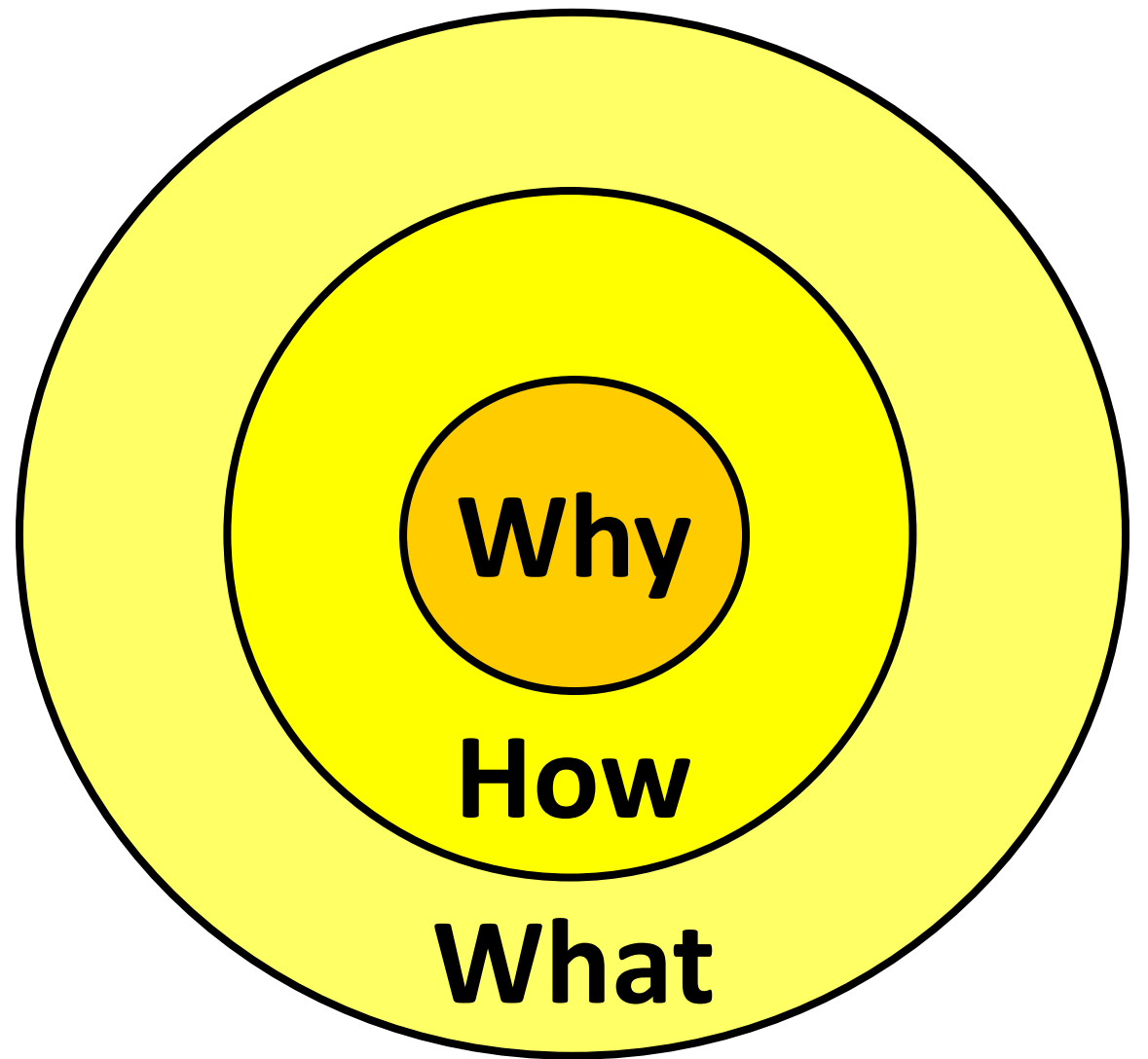
Simon Sinek



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The Golden Circle



Zika Case Counts in US

- Locally acquired mosquito-borne cases reported: 105
- Travel-associated cases reported: 3,712
- Laboratory acquired cases reported: 1

Total: 3,818

October 6, 2016, CDC



Agriculture: Why What We Do Matters

- By **2050**, the human population is projected to exceed **9** billion.
- "The world needs to produce more food. Food production needs to rise by **50%** by the year **2030** to meet rising demand."

United Nations Secretary General
Ban Ki-Moon



U.S. and World Population Clock

[Tell us what you Think >](#)



Sep 20, 2016 12:28 UTC (+4)

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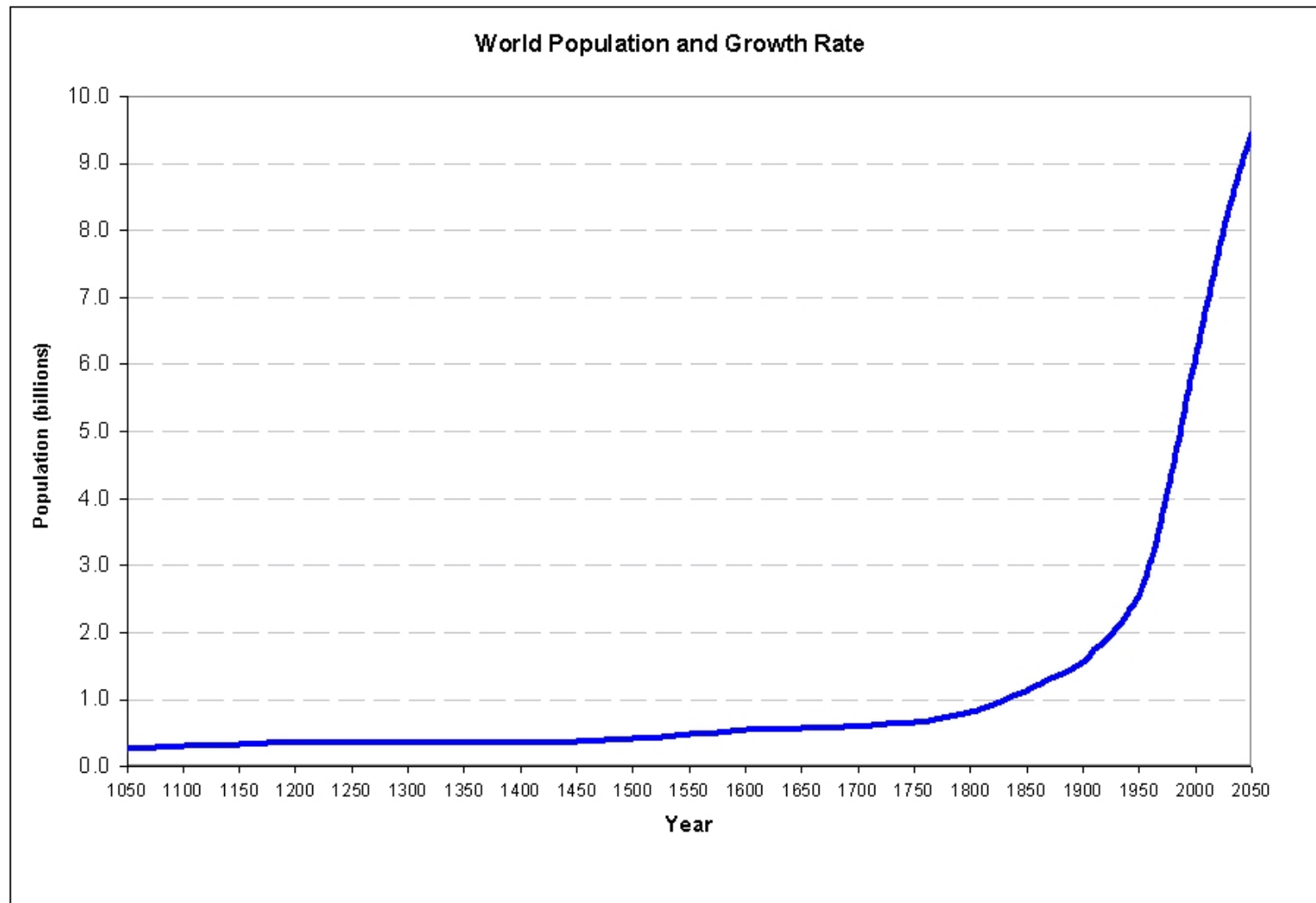
As of 9/20/2016



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SOURCE: <http://www.census.gov/popclock/>

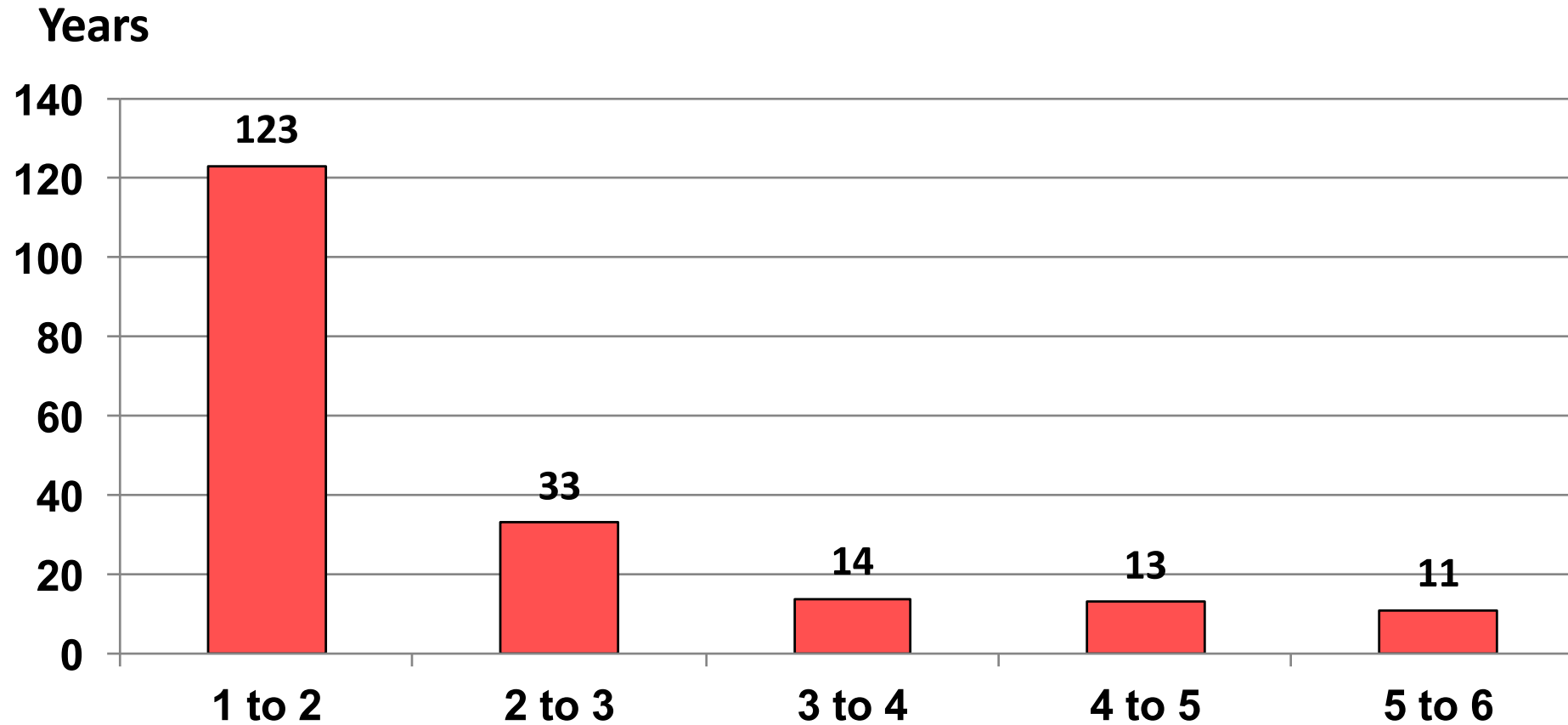




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SOURCE: US Census Bureau and UN population estimates. Image: DSS Research

Intervals Between 1 Billion in Population Growth



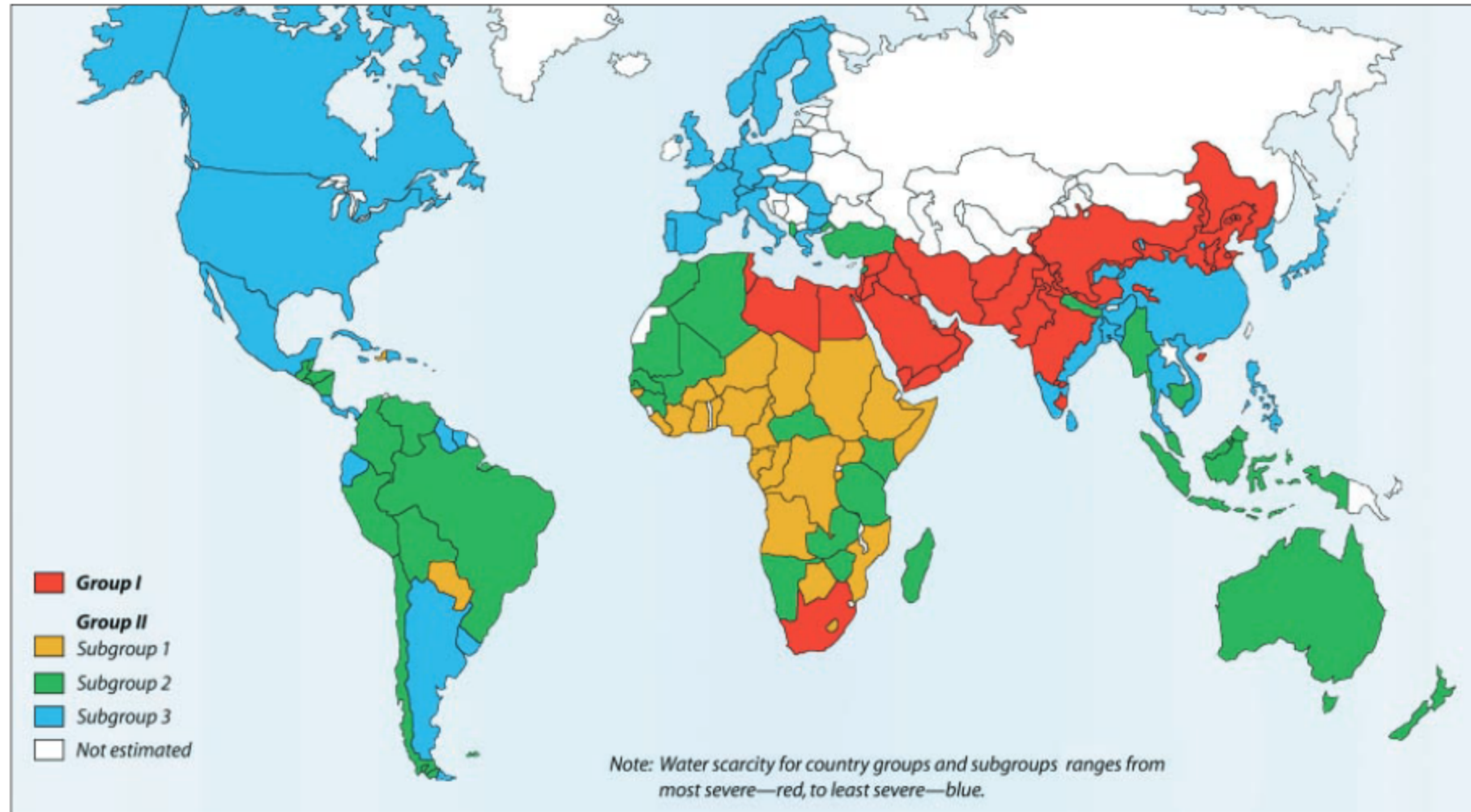
Billions - Human Population



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Projected Water Scarcity in 2025



Frank Rijsberman



Director of the Gates
Water, Sanitation &
Hygiene initiative

“if current trends continued, the
livelihoods of one-third of the world’s
population could be affected by water
scarcity by 2025”



Worldwide, agriculture accounts for 70% of all water consumption

9,100 liters of water to grow the soy = one liter of biodiesel

4,000 liters for the corn to be transformed into bioethanol

Peter Brabeck-Letmathe , Chairman and former CEO of the Nestlé Group



Lake Oroville, California



Northern California's Folsom Lake



January 16, 2014



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Michael J. Burry
Scion Capital LLC

Scion Asset
Management



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Guess what Michael Burry is buying now?

Hedgie who predicted mortgage collapse sees green in green acres; arable land "will be very valuable"



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The genius from 'The Big Short' explains his biggest trade right now

Fundamentally, I started looking at investments in water about 15 years ago. Fresh, clean water cannot be taken for granted. And it is not — water is political, and litigious. Transporting water is impractical for both political and physical reasons, so buying up water rights did not make a lot of sense to me, unless I was pursuing a greater fool theory of investment — which was not my intention. **What became clear to me is that food is the way to invest in water.** That is, grow food in water-rich areas and transport it for sale in water-poor areas. This is the method for redistributing water



Is Bill Gates buying Vidalia farmland?

SHARONHERALD.COM

The Herald

Sharon, Pennsylvania

Bill Gates gobbling up Florida farmland

Investment arm recently paid \$28M for 4,500-acre tract



What if we lost California?

Opportunity for Georgia Ag?



Pomegranates: 100%	Broccoli: 81%
Artichokes: 99%	Lemons: 79%
Kiwi: 97%	Persimmons: 77%
Olives: 96%	Honeydew: 77%
Figs: 96%	Tomatoes: 76%
Pluots: 95%	Lettuce: 73%
Plums and Prunes: 94%	Nuts: 65%
Brussel Sprouts: 93%	Carrots: 62%
Avocados: 90%	Strawberries: 59%
Nectarines: 89%	Spinach: 59%
Garlic: 85%	Tangerines: 58%
Celery: 83%	Chinese Cabbage: 49%
Grapes: 83%	Asparagus: 47%
Dates: 82%	Cantaloupes: 46%
Apricots: 82%	Peaches: 44%
Cauliflower: 82%	Limes: 42%

CAES: A Very Good Year

- All time high in external funding, > \$60 million
- Five tenure-track faculty lines from the Legislature
- 12 Extension positions funded
- \$5 million for Rock Eagle Cabins



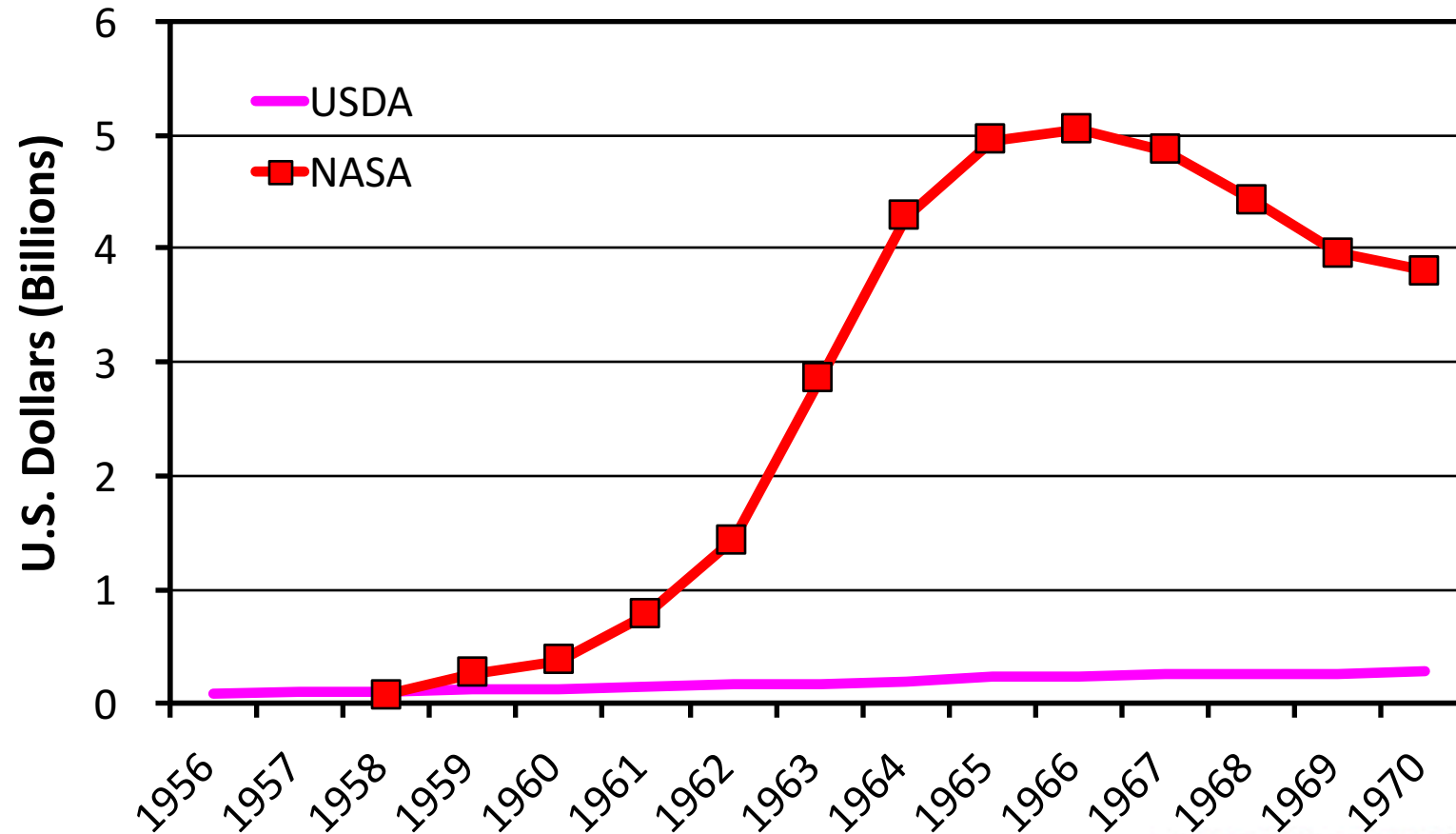
Crisis Driven Funding



Sputnik 1
October, 1957



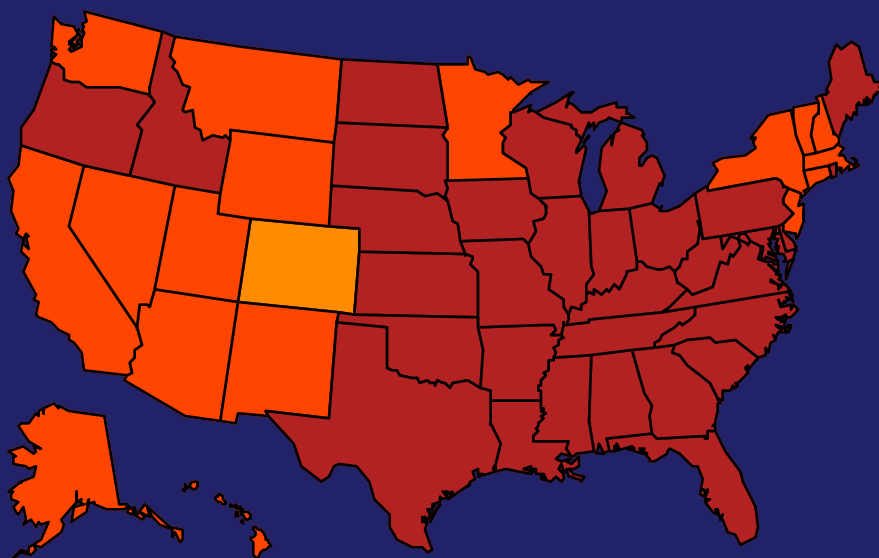
Crisis Driven Funding



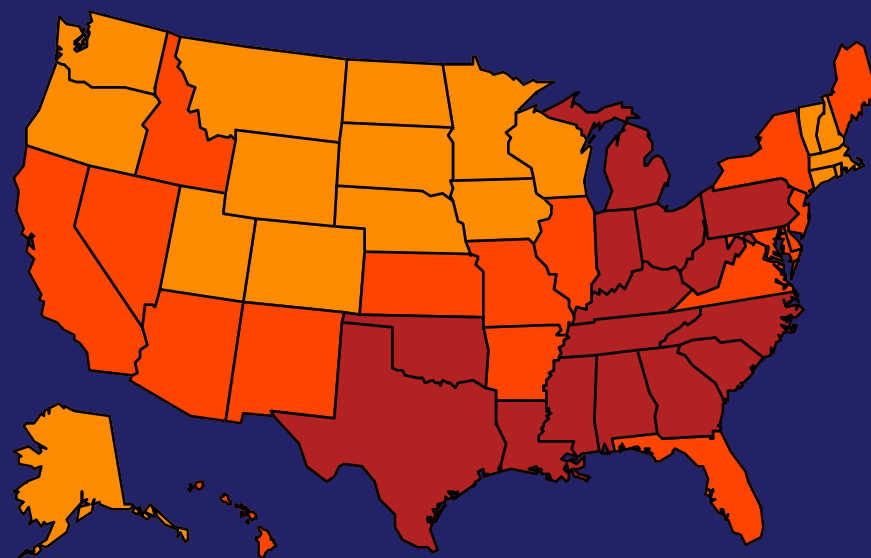


Age-Adjusted Prevalence of Obesity and Diagnosed Diabetes Among U.S. Adults

Obesity (BMI ≥ 30 kg/m²)



Diabetes



CAES: “The Cradle of Colleges”



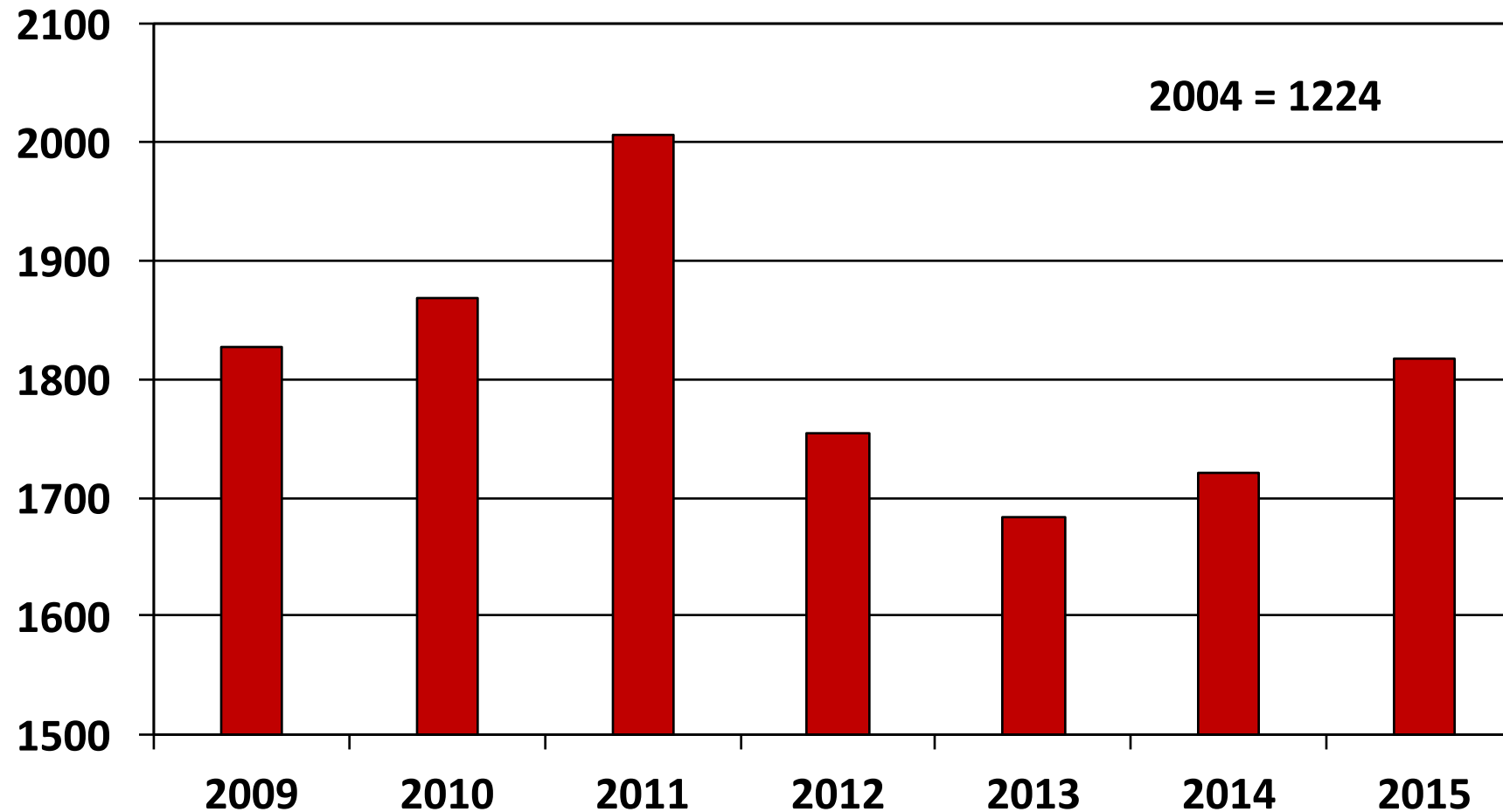
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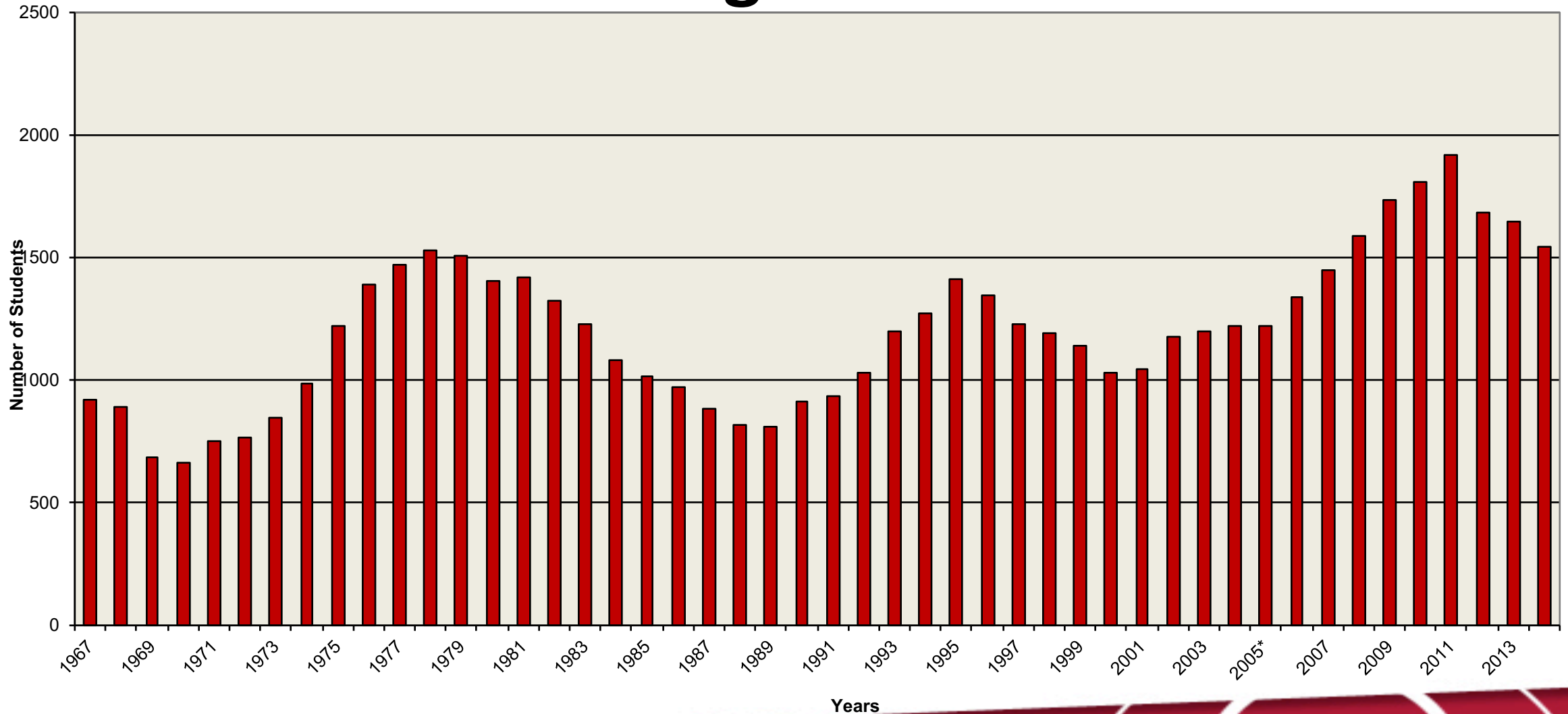
- Franklin College of Arts and Sciences, 1801
- **College of Agricultural and Environmental Sciences, 1859**
- School of Law, 1859
- College of Pharmacy, 1903
- **Warnell School of Forestry and Natural Resources, 1906**
- College of Education, 1908
- Graduate School, 1910
- Terry College of Business, 1912
- Grady College of Journalism & Mass Communication, 1915
- **College of Family and Consumer Sciences, 1933**
- **College of Veterinary Medicine, 1946**
- School of Social Work, 1964
- **College of Environment and Design, 1969**
- School of Public and International Affairs, 2001
- **College of Public Health, 2005**
- Odum School of Ecology, 2007
- **College of Engineering, 2012**



CAES Undergrad Trends



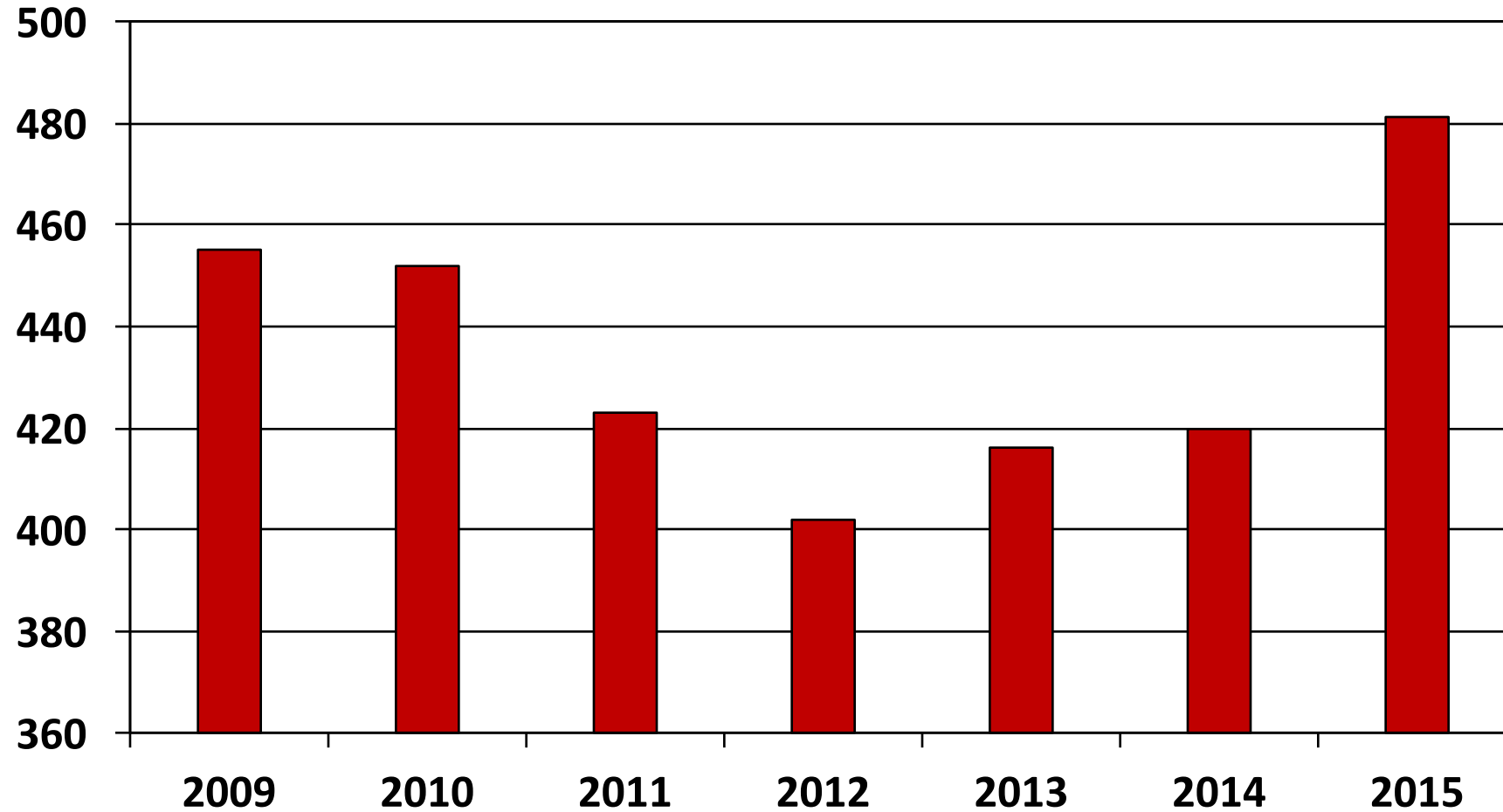
CAES Undergraduate Enrollment



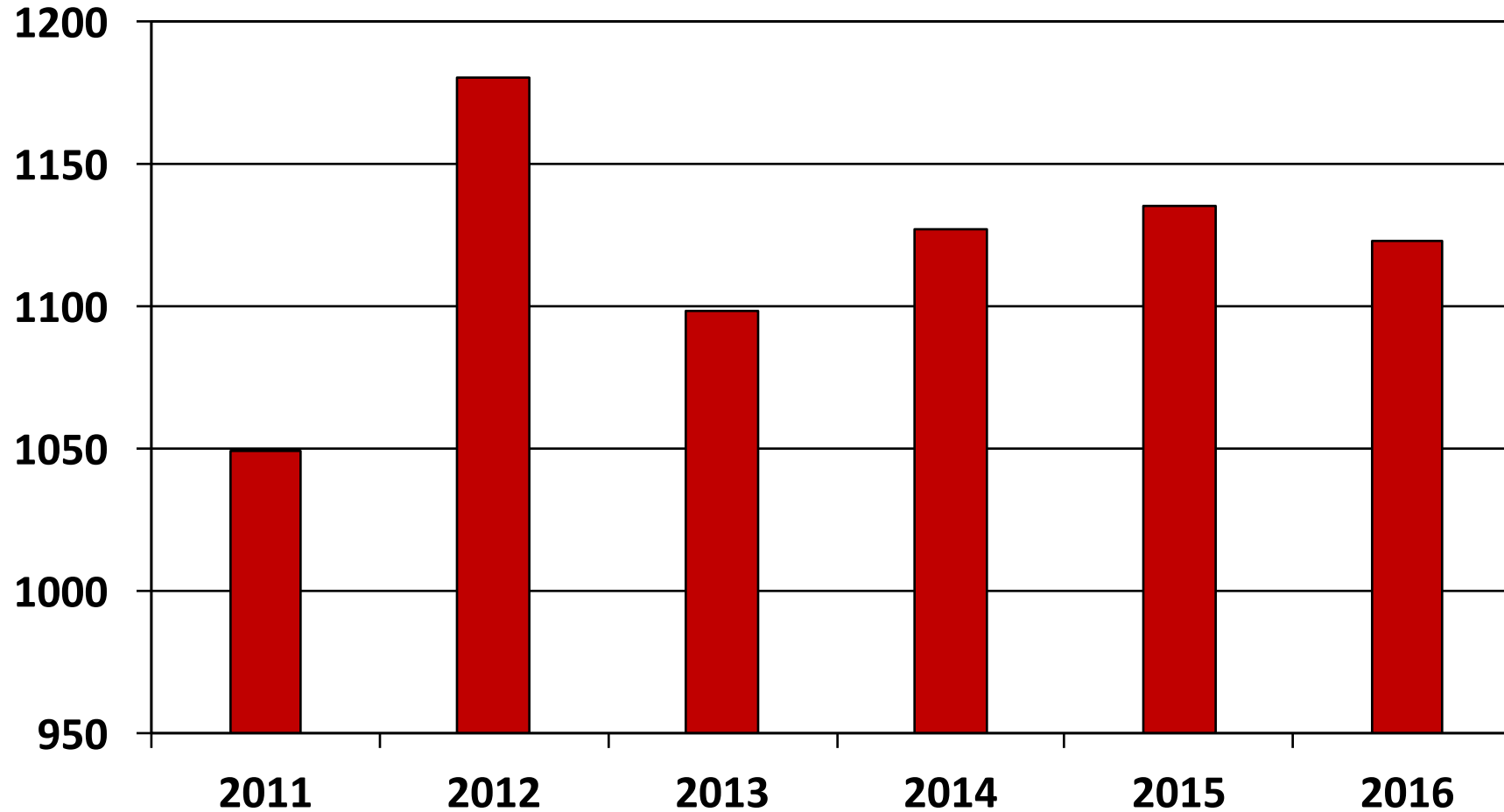
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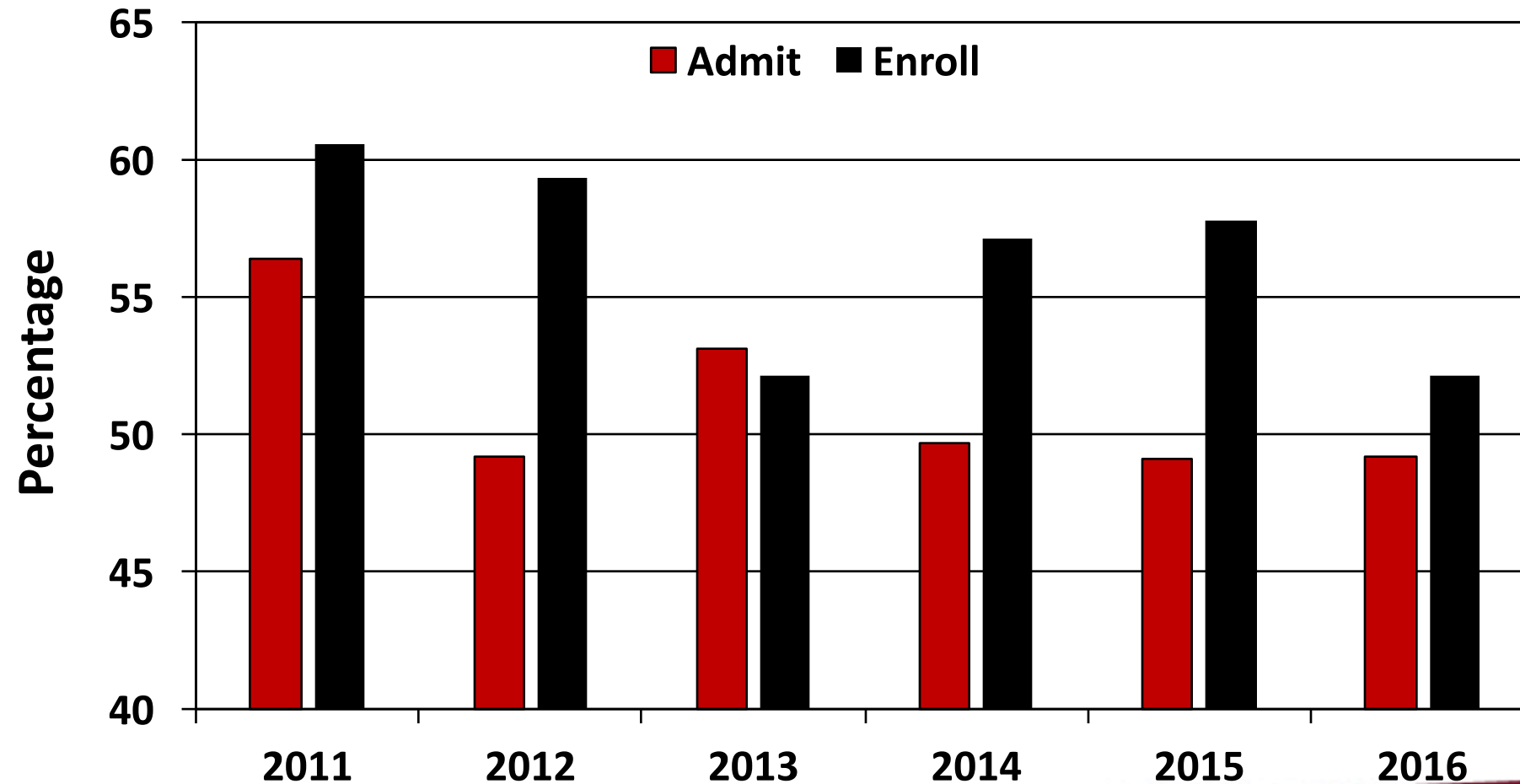
CAES Grad Trends



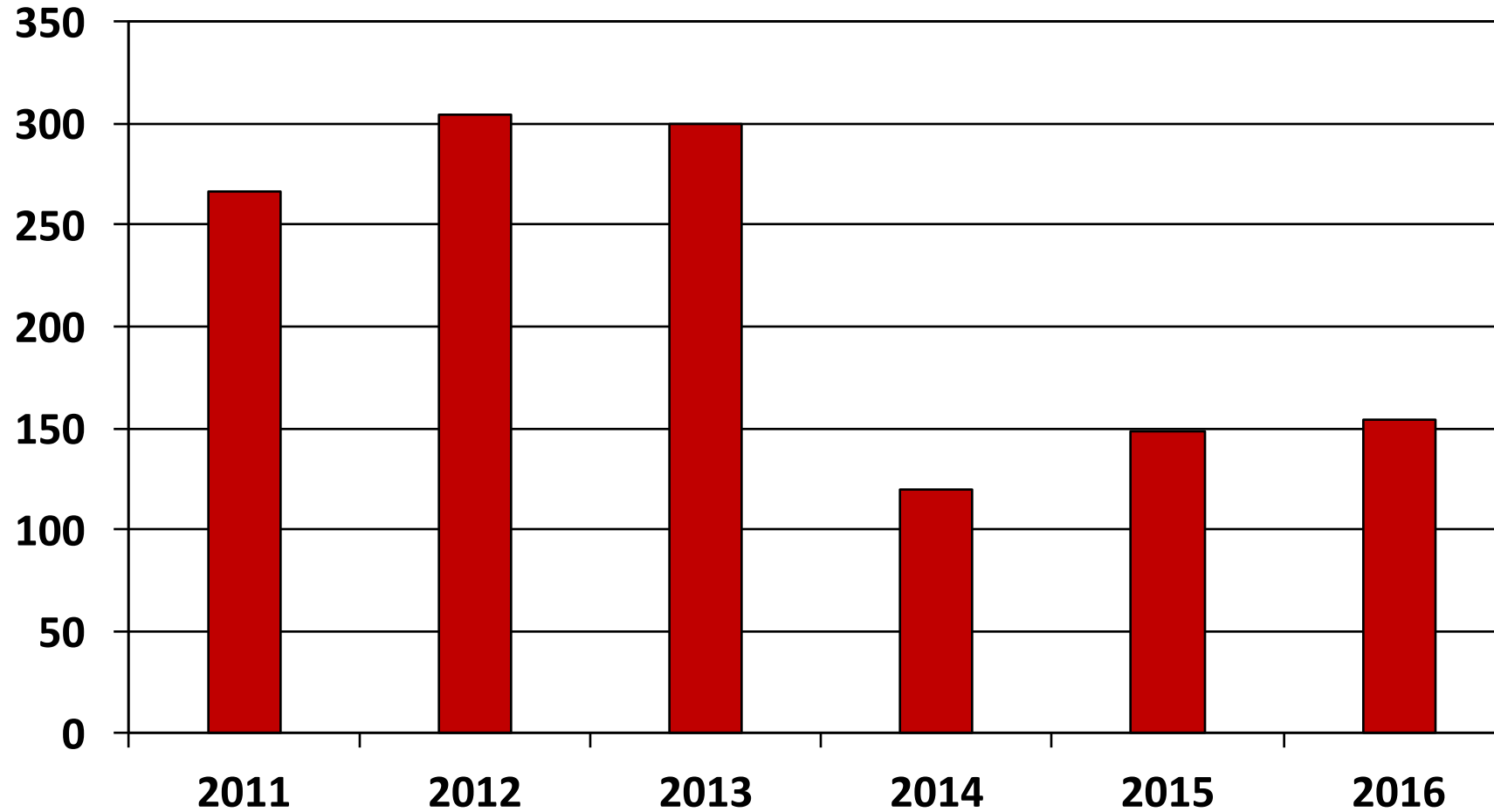
CAES Freshman Applications



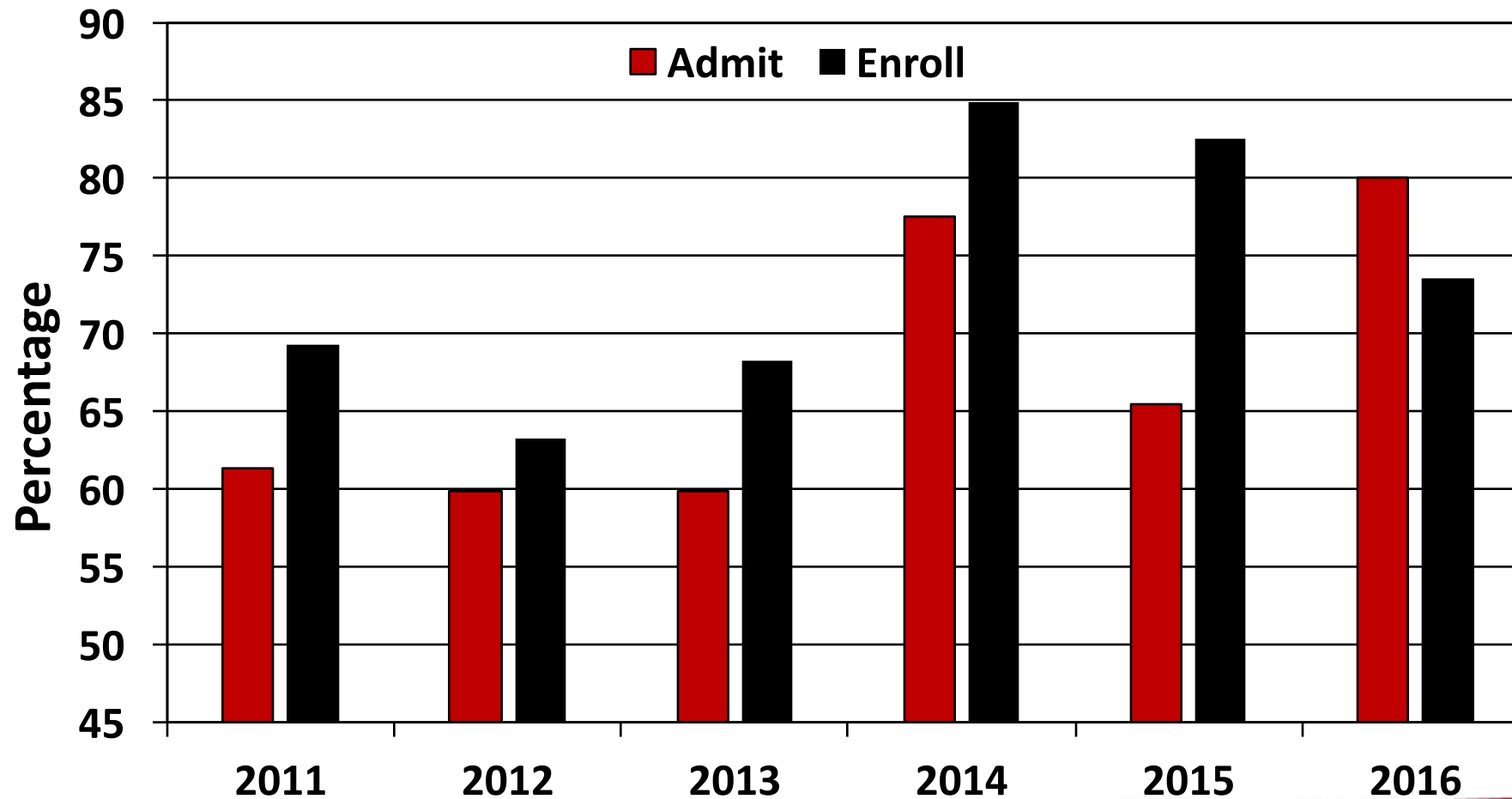
CAES Fr % Admits & Enrolled



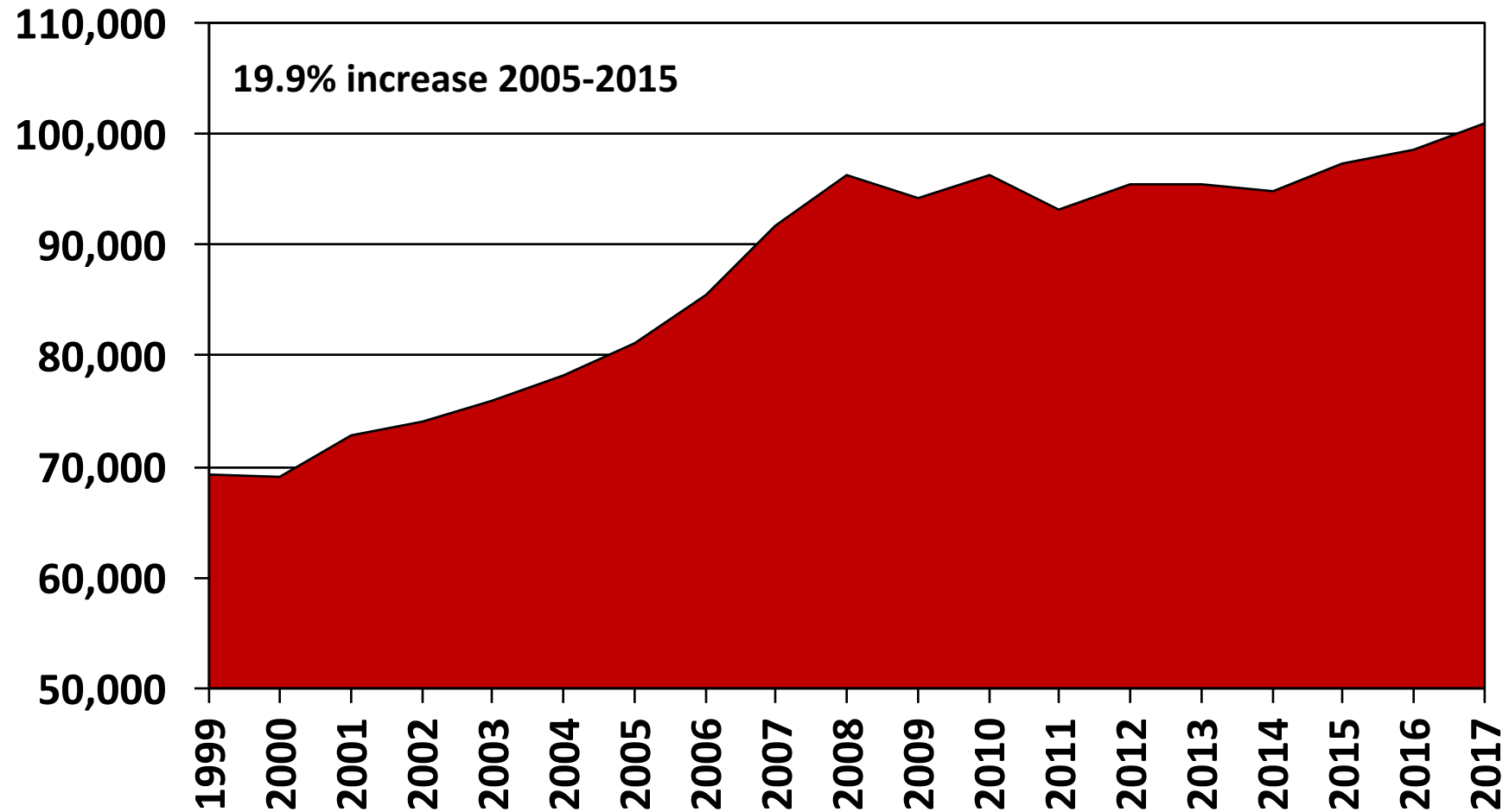
CAES Transfer Applications



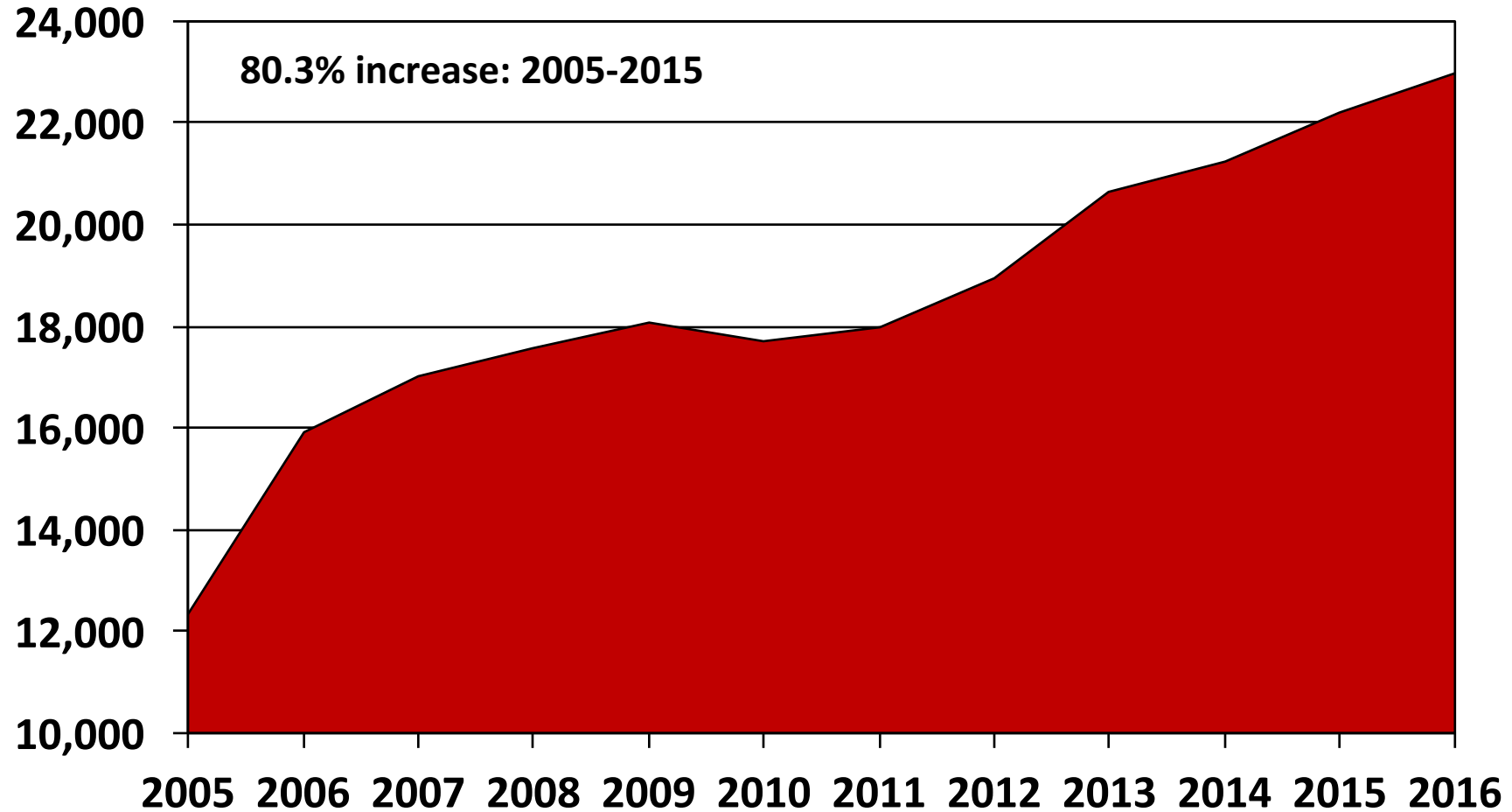
CAES Transfer % Admits & Enrolled



Georgia High School Graduates



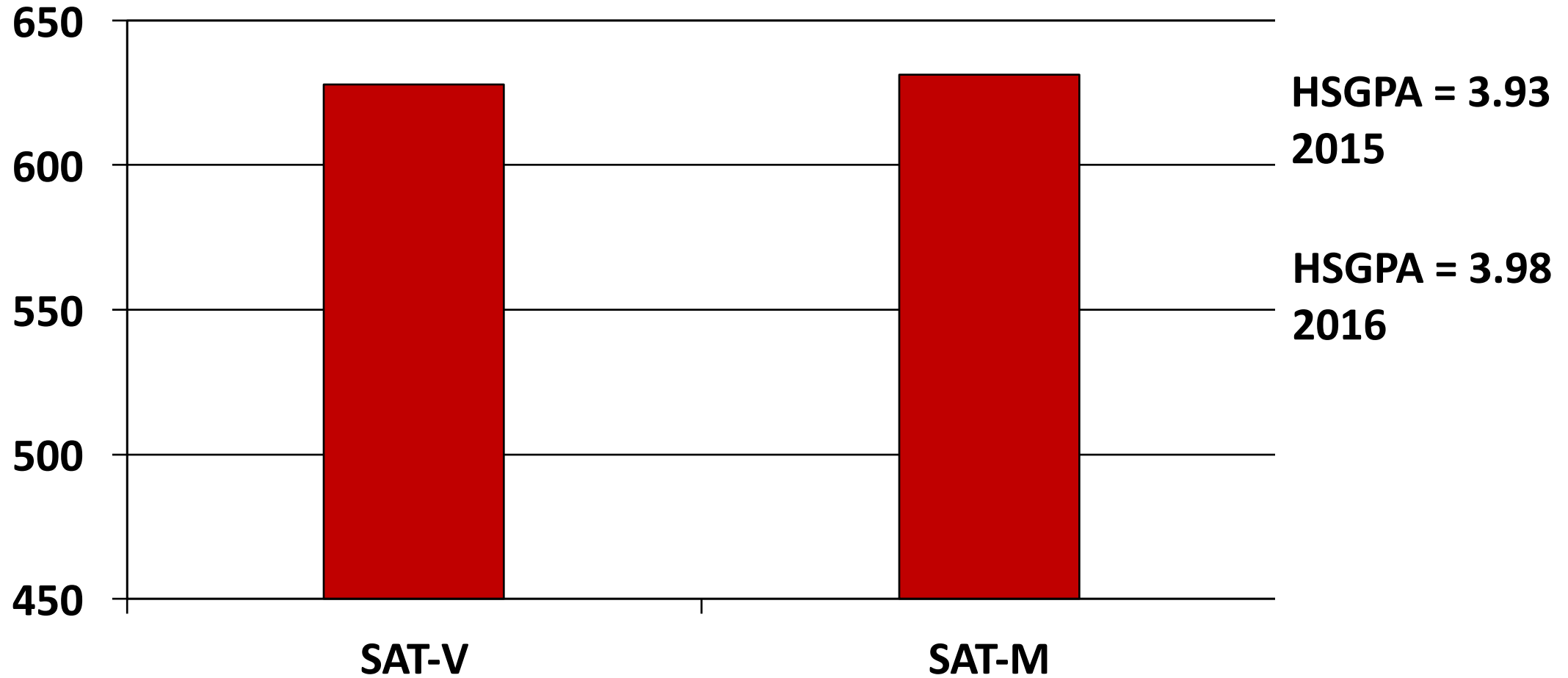
UGA Applications



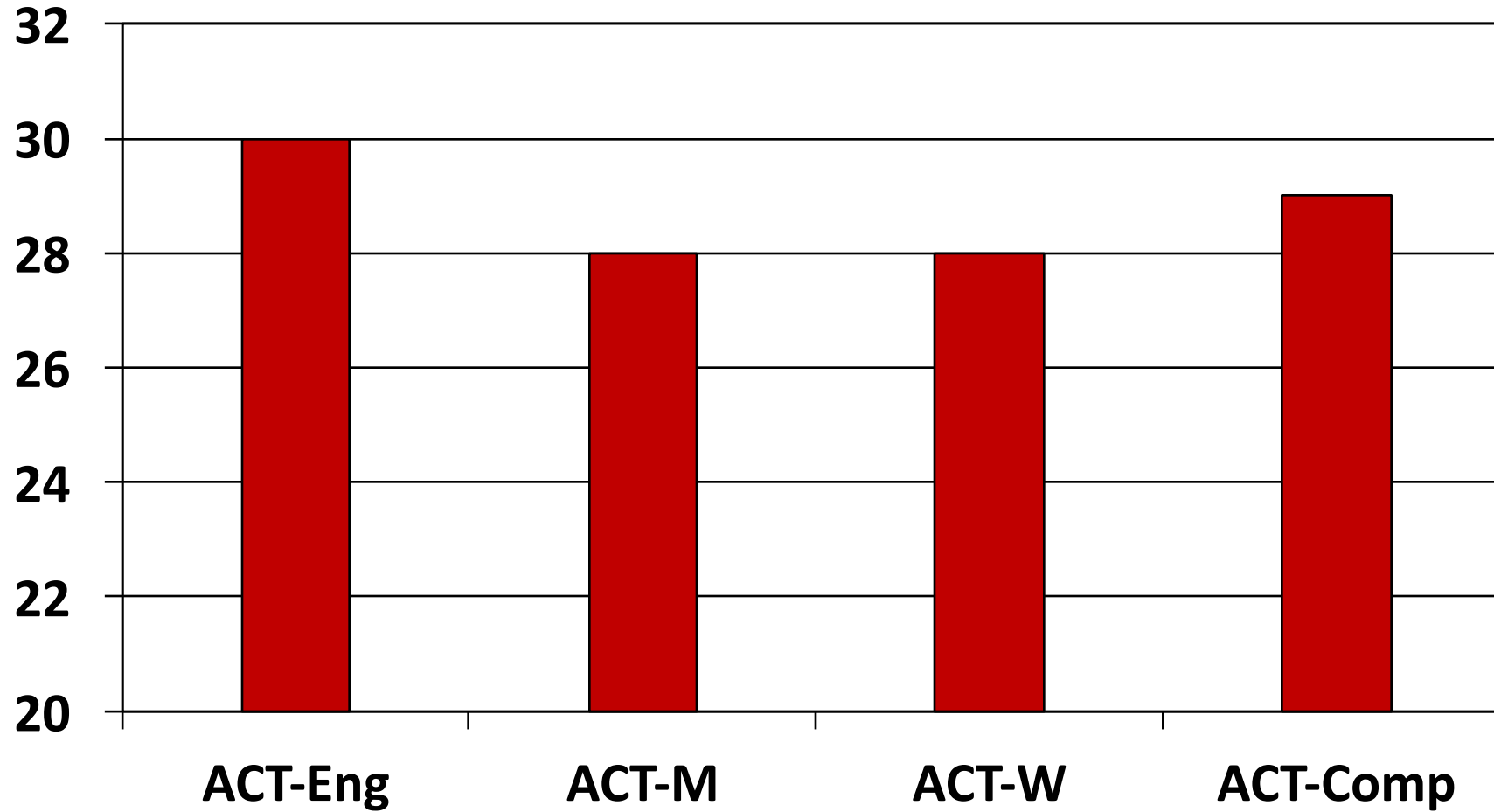
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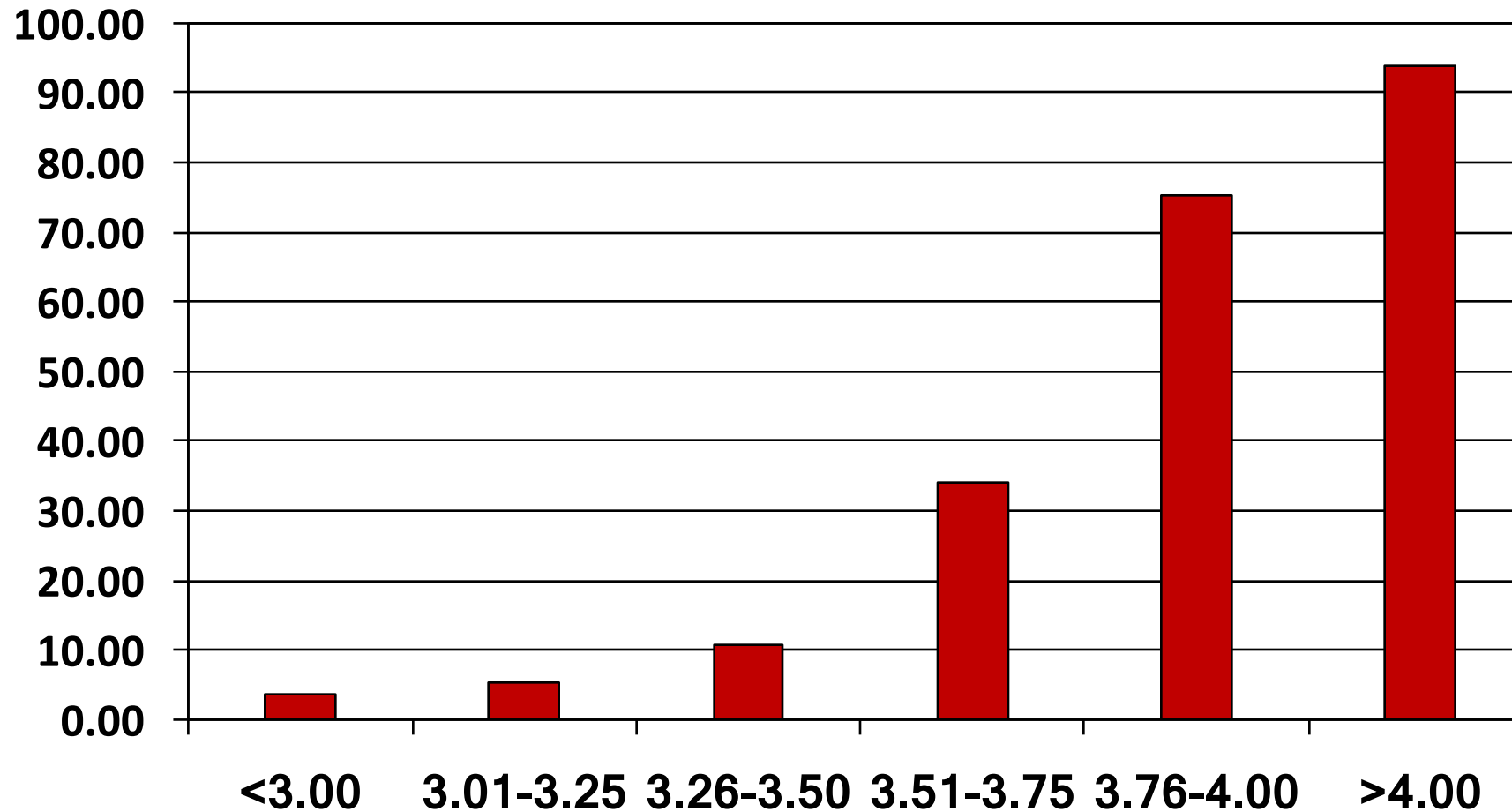
UGA Academic Profile: SAT & HSGPA



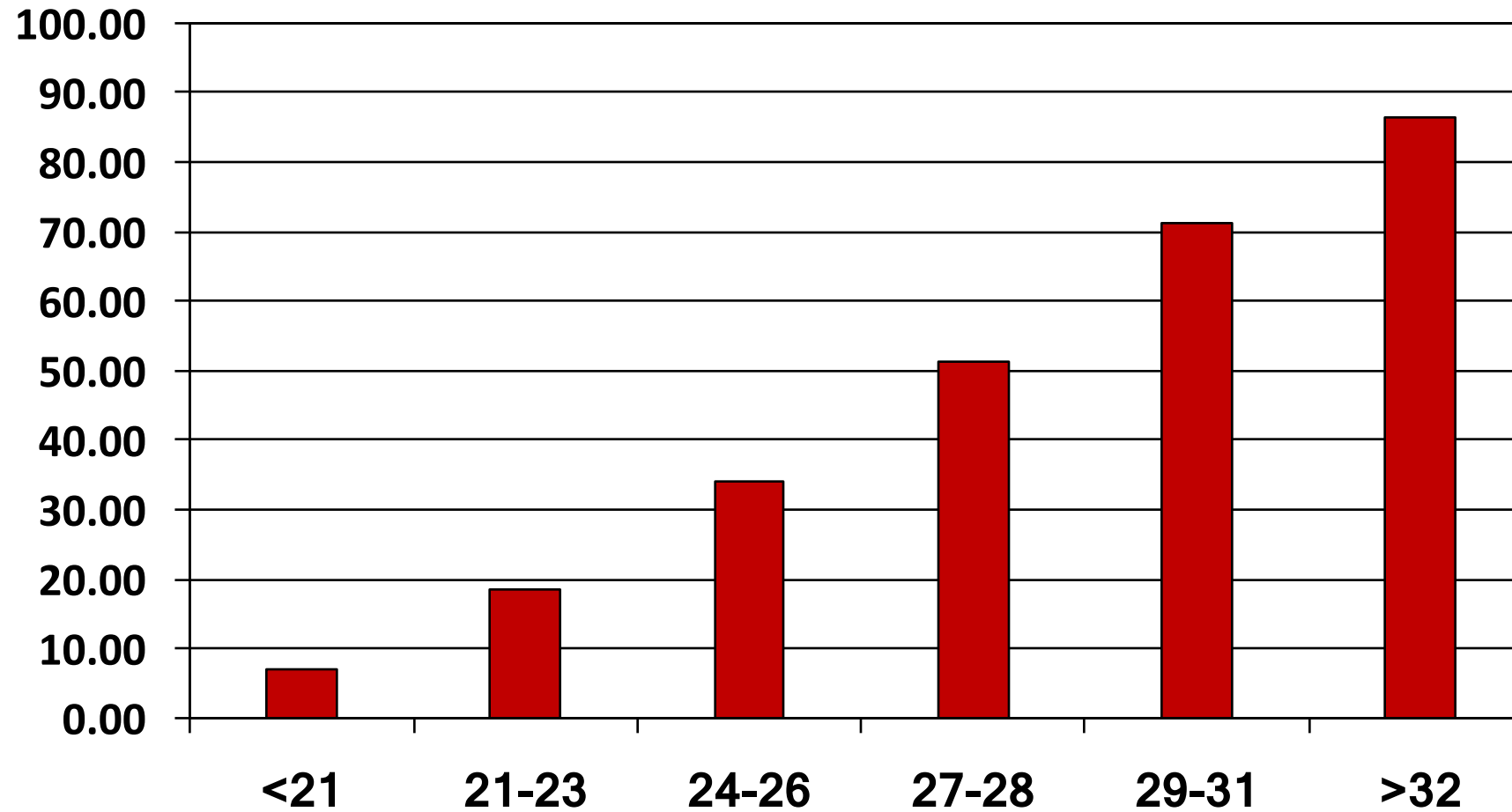
UGA Academic Profile: ACT



Acceptance rate by HSGPA



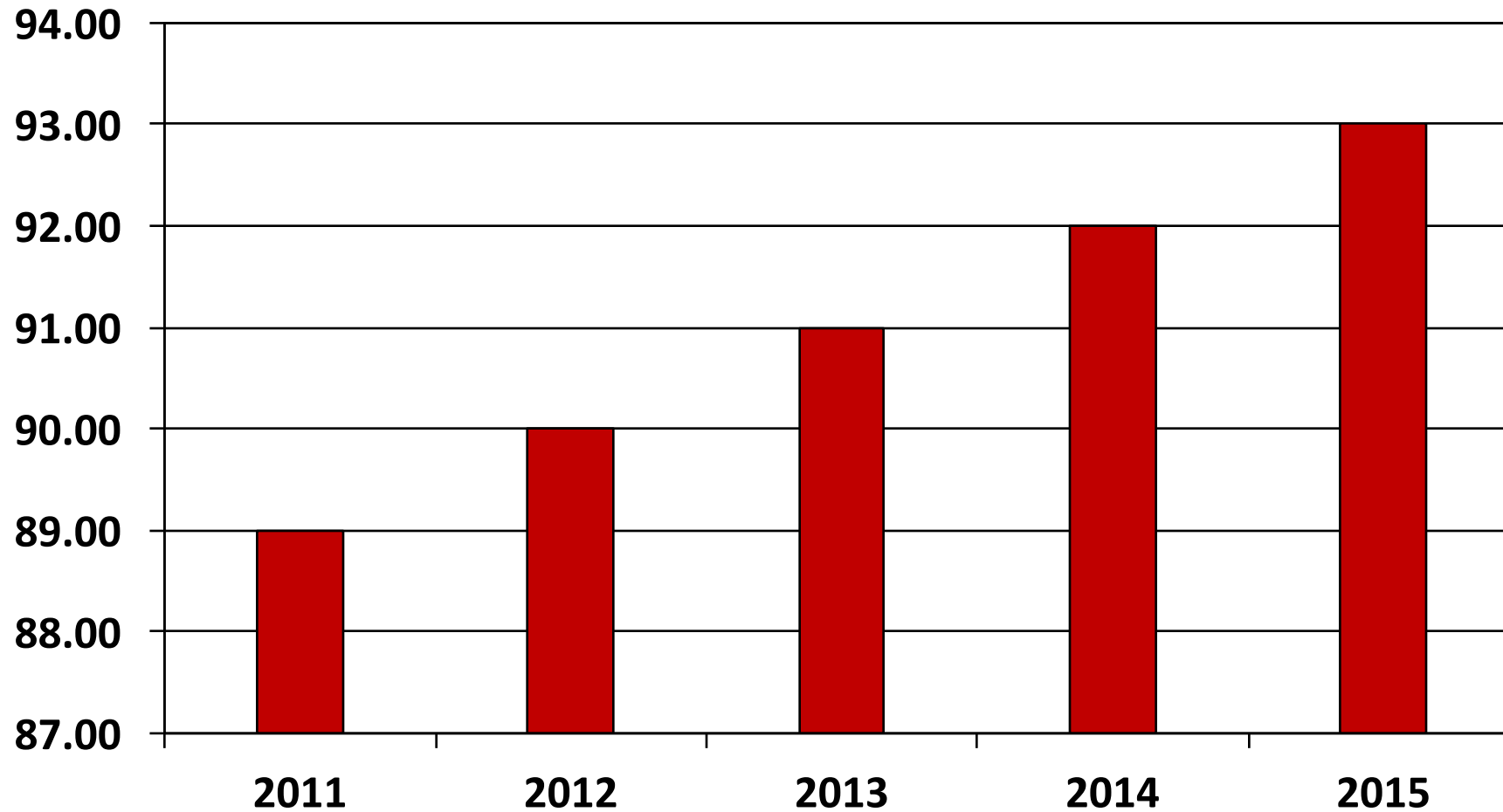
Acceptance rate by ACT



- **Georgia HS students scoring above 600 on SAT verbal (16.1%) or math (16.7%)**
- **UGA admitted students scoring above 600 on SAT verbal (69.0%) or math (76.0%)**



1st Year Enrollment: Top 25% HS



UGA Enrollment by Leading Ag Counties: 2015

County	Applied	Accepted	Enrolled
Colquitt	16	11 (68.8%)	8
Franklin	22	12 (54.5%)	10
Mitchell	15	12 (80.0%)	7
Jackson	75	46 (61.3%)	33
Madison	12	6 (50%)	5
Hart	16	13 (81.3%)	9
Banks	9	4 (44.4%)	2
Hall	211	125 (59.2%)	78
Habersham	22	15 (68.2%)	9
Tattnall	6	6 (100%)	2



***Every time You Are Fed,
Thank***





Thank You



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