

# Maryland's Higher Education Challenge



Dennis Jones  
October 2008



**NCHEMS**

National Center for Higher Education Management Systems  
3035 Center Green Drive, Suite 150  
Boulder, Colorado 80301

In comparison to most other US states,  
Maryland is doing extraordinarily well.

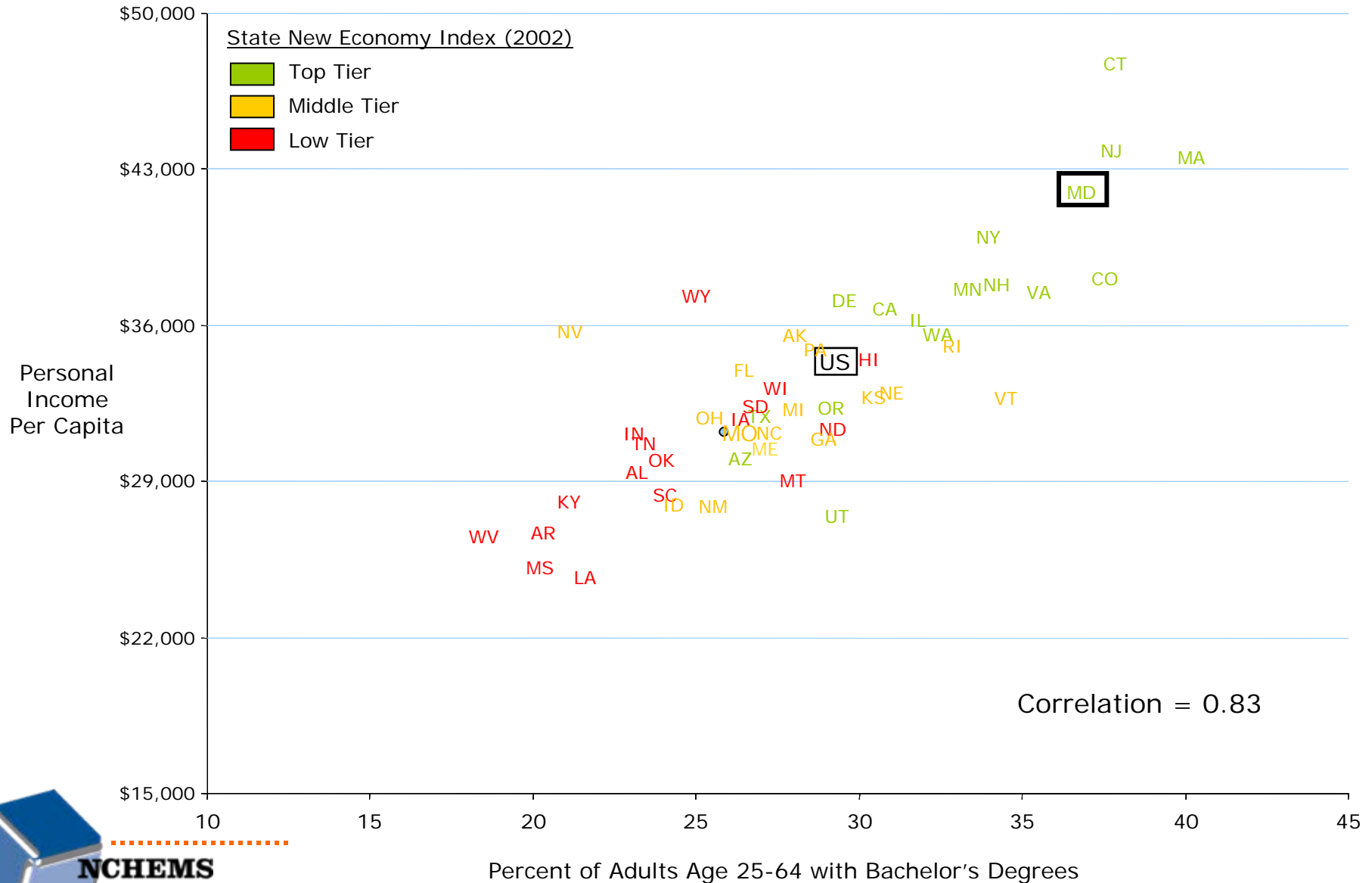


But the World, not the U.S., is the new  
basis of comparison

In this context, Maryland still has work to do.

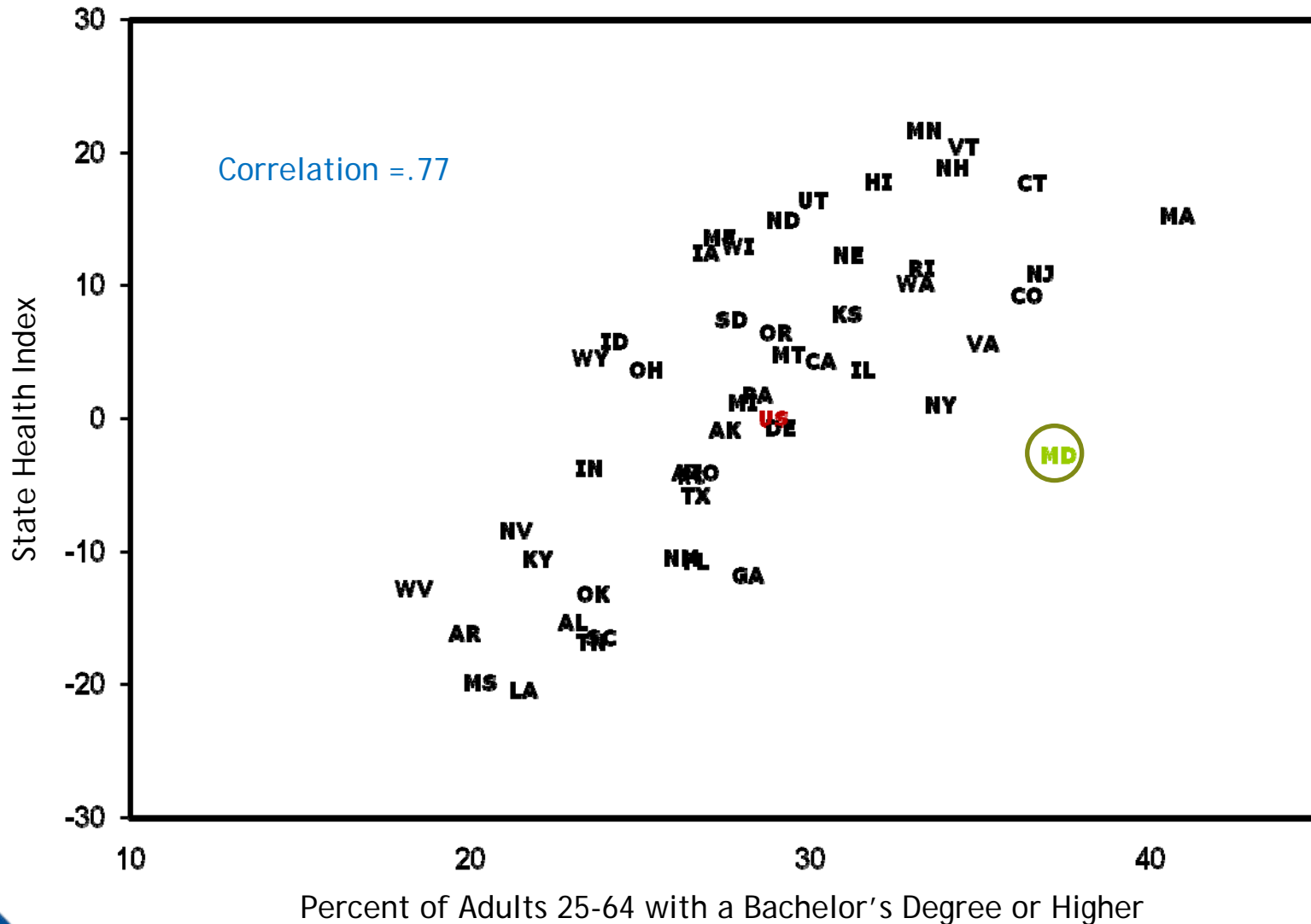
# THE GOOD NEWS

# Relationship Between Educational Attainment, Personal Income, and Economic Strength, 2005

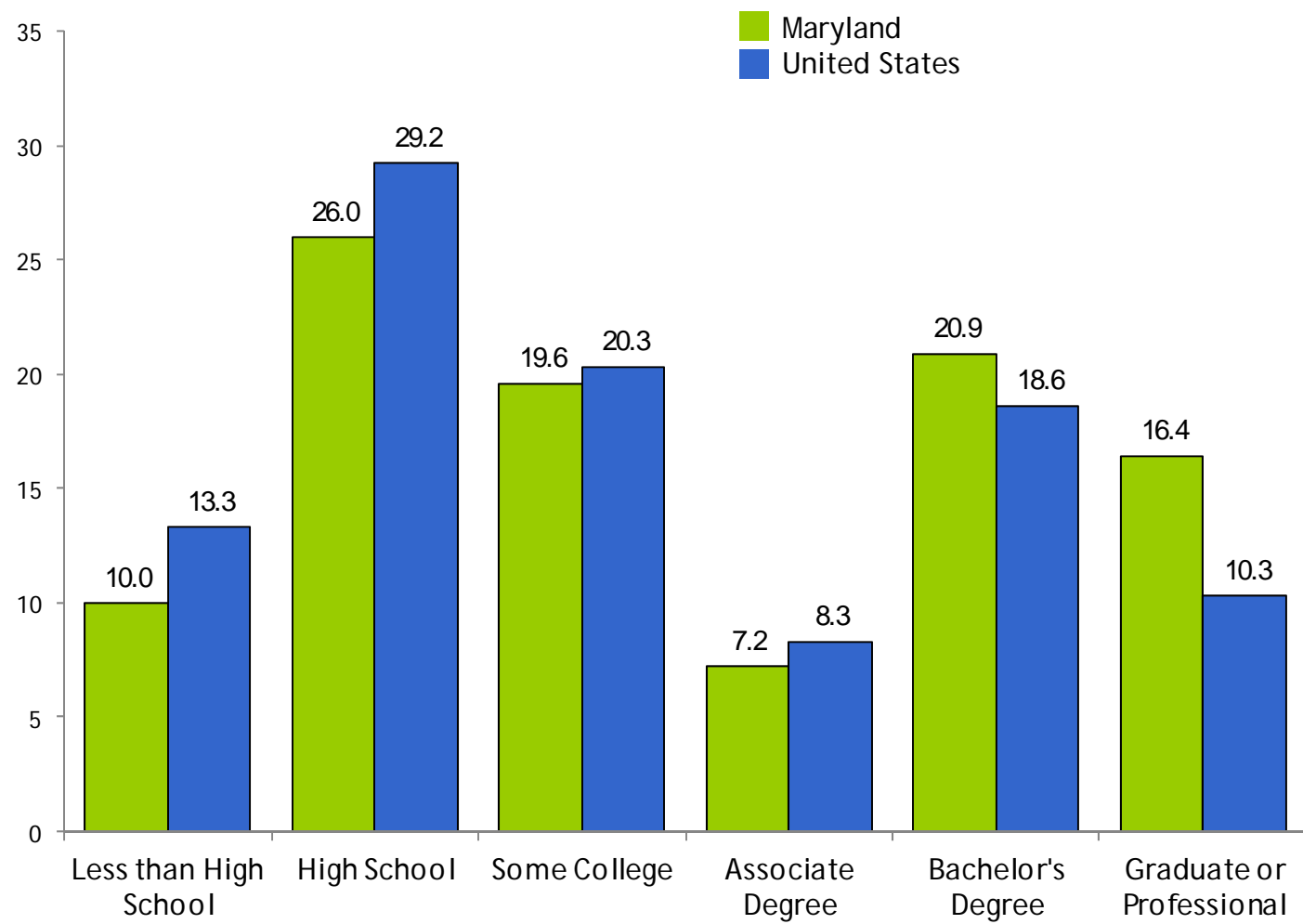


# Relationship Between Educational Attainment and Health

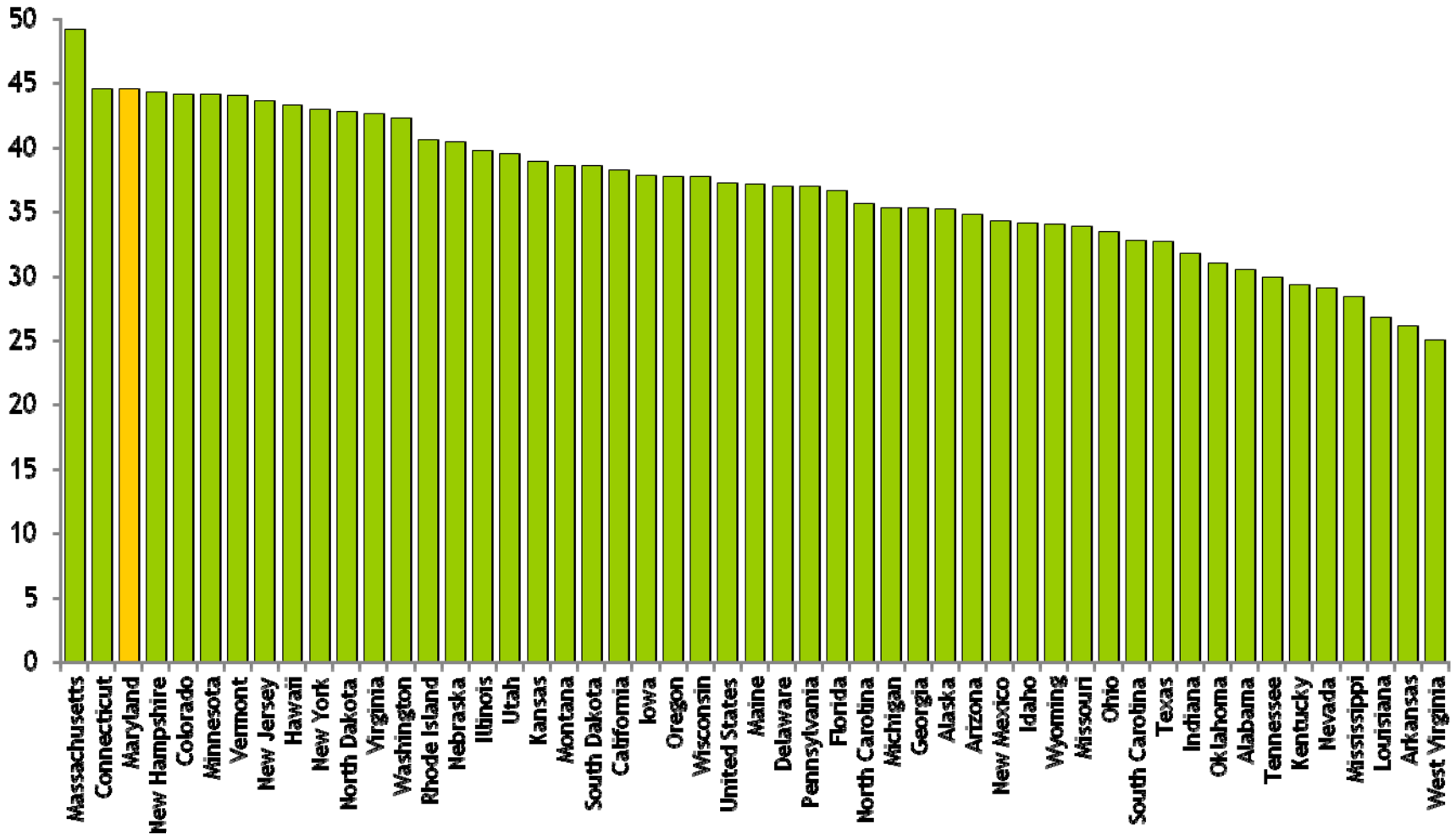
2006



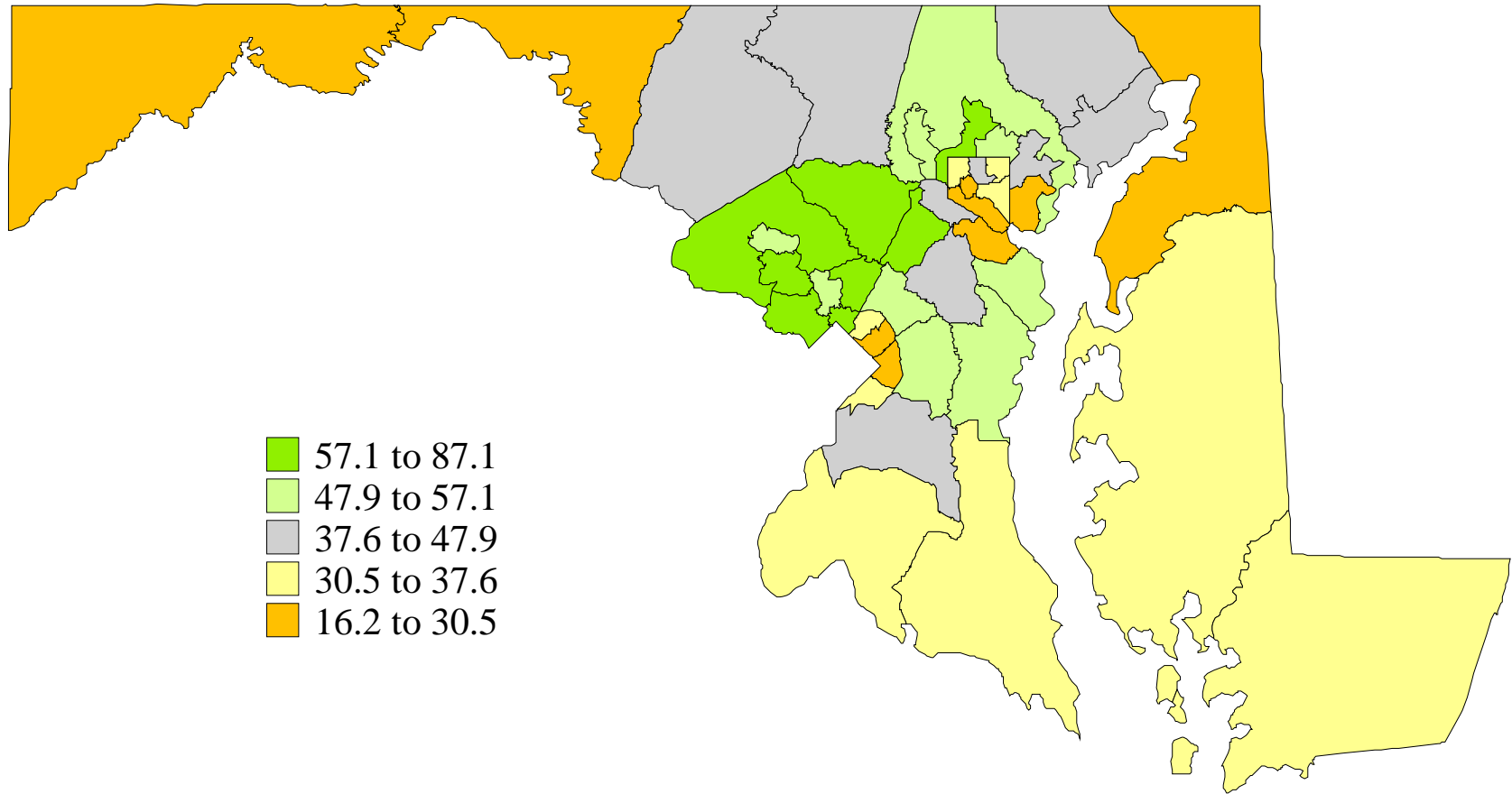
# Educational Attainment of Population Age 25-64, 2005



# Percent of Population Age 25-64 with an Associate Degree or Higher, 2006



# Percent of Population Age 25-64 with at Least an Associate Degree, 2007 – Public Use Microdata Areas (PUMA's)

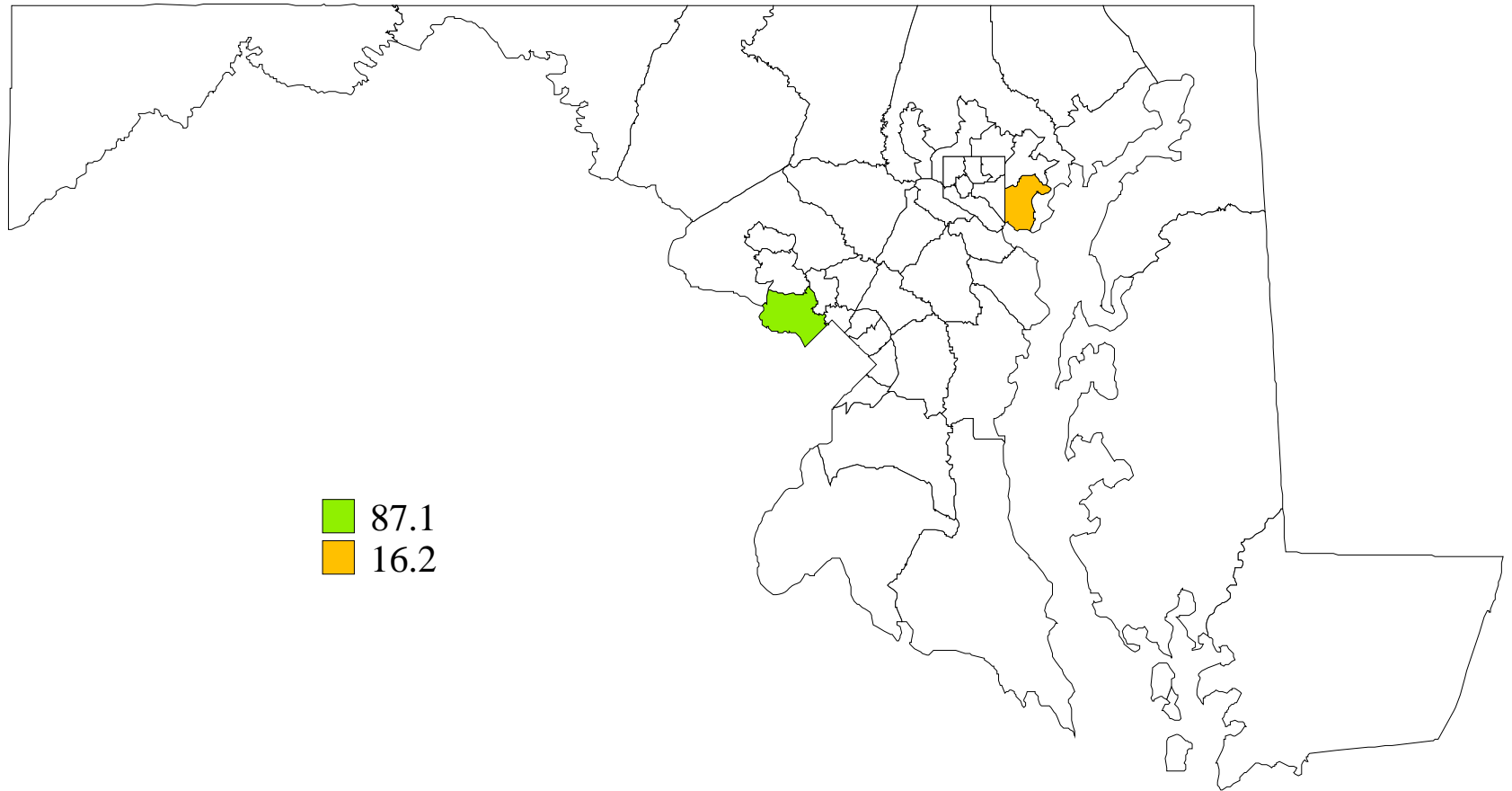


- 57.1 to 87.1
- 47.9 to 57.1
- 37.6 to 47.9
- 30.5 to 37.6
- 16.2 to 30.5

Maryland = 44.5

Source: U.S. Census Bureau, 2007 American Community Survey

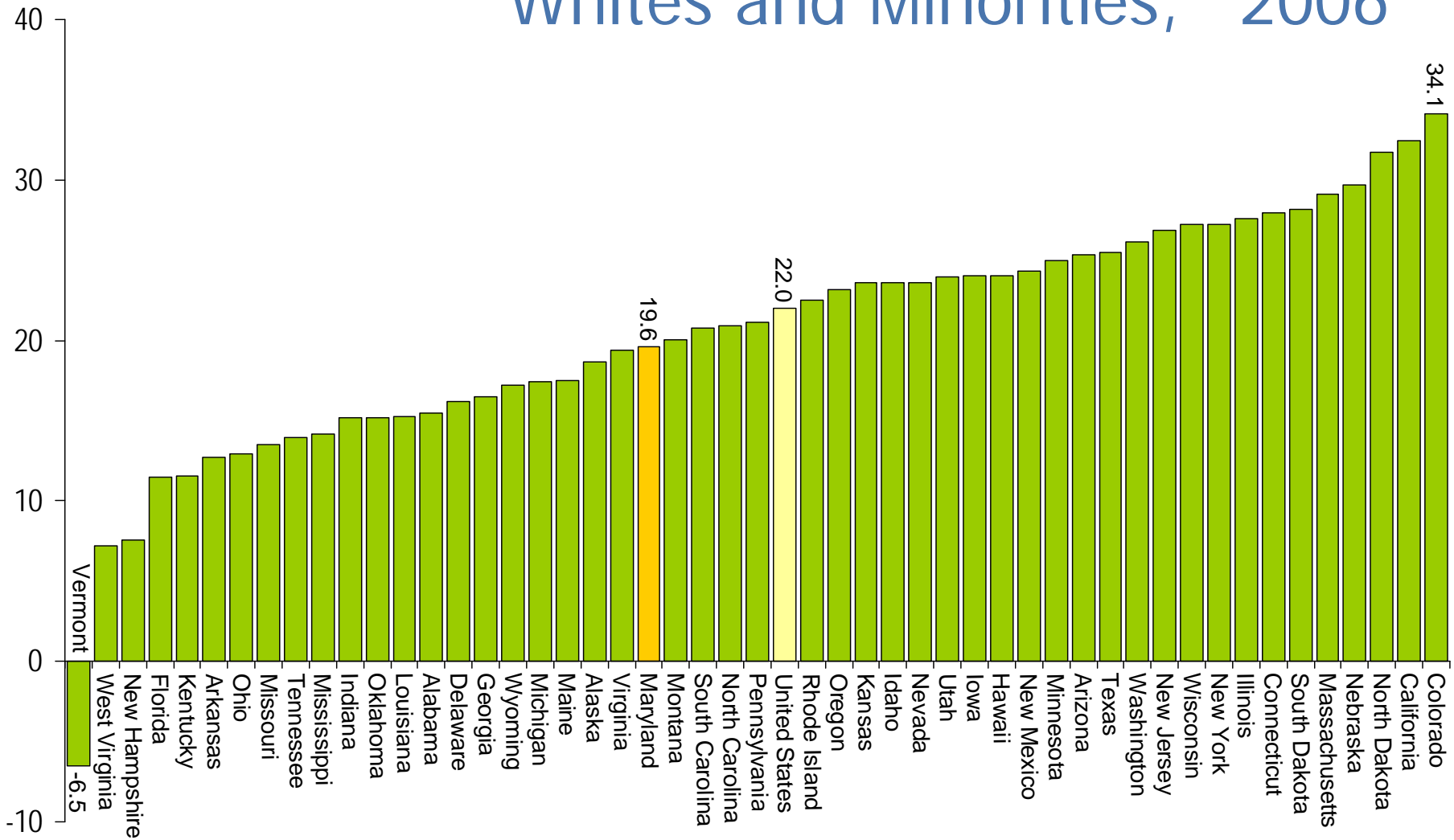
# Percent of Population Age 25-64 with at Least an Associate Degree, 2007 – High & Low Public Use Microdata Area's (PUMA's)



Maryland = 44.5

Source: U.S. Census Bureau, 2007 American Community Survey

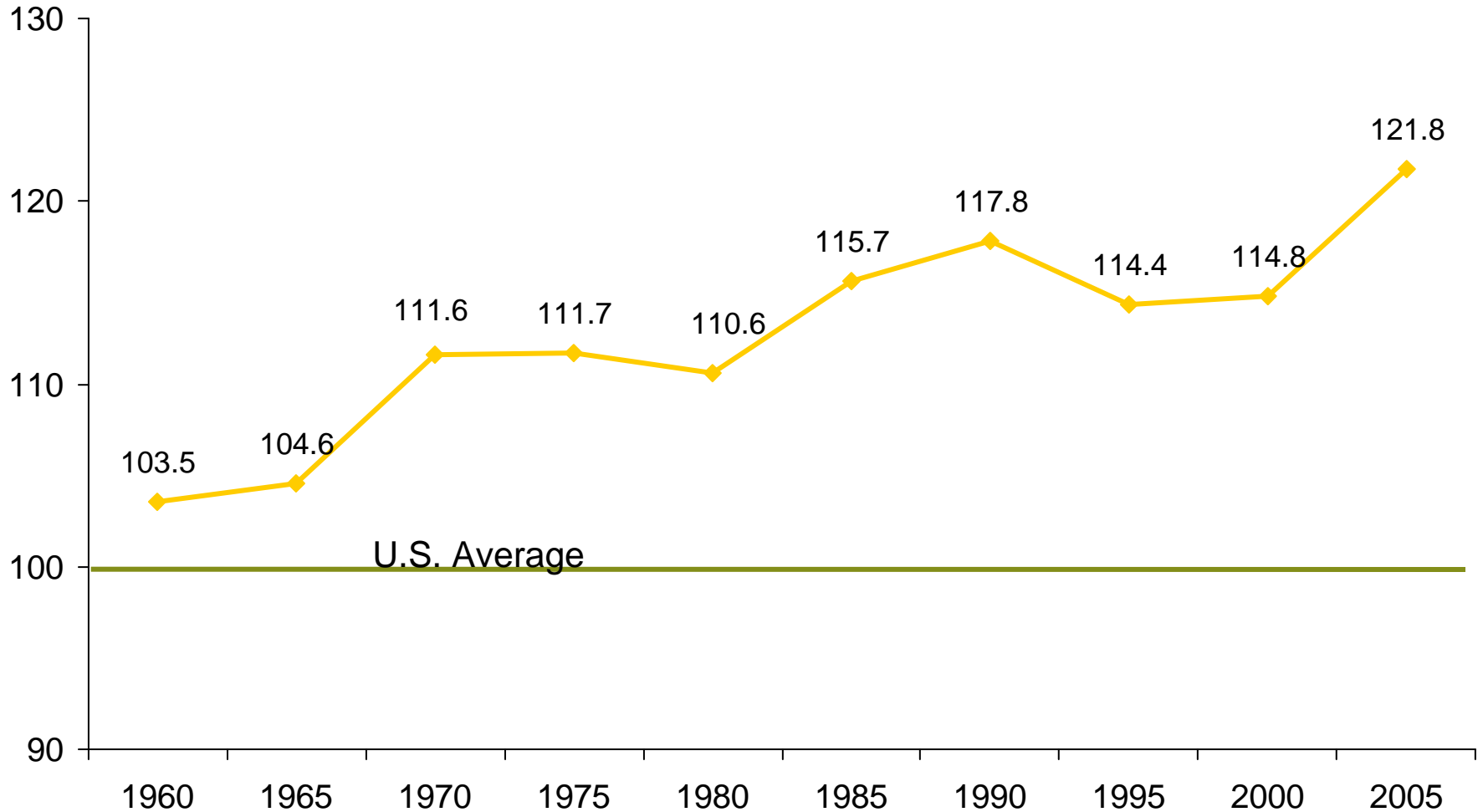
# Difference in College Attainment Between Whites and Minorities,\* 2006



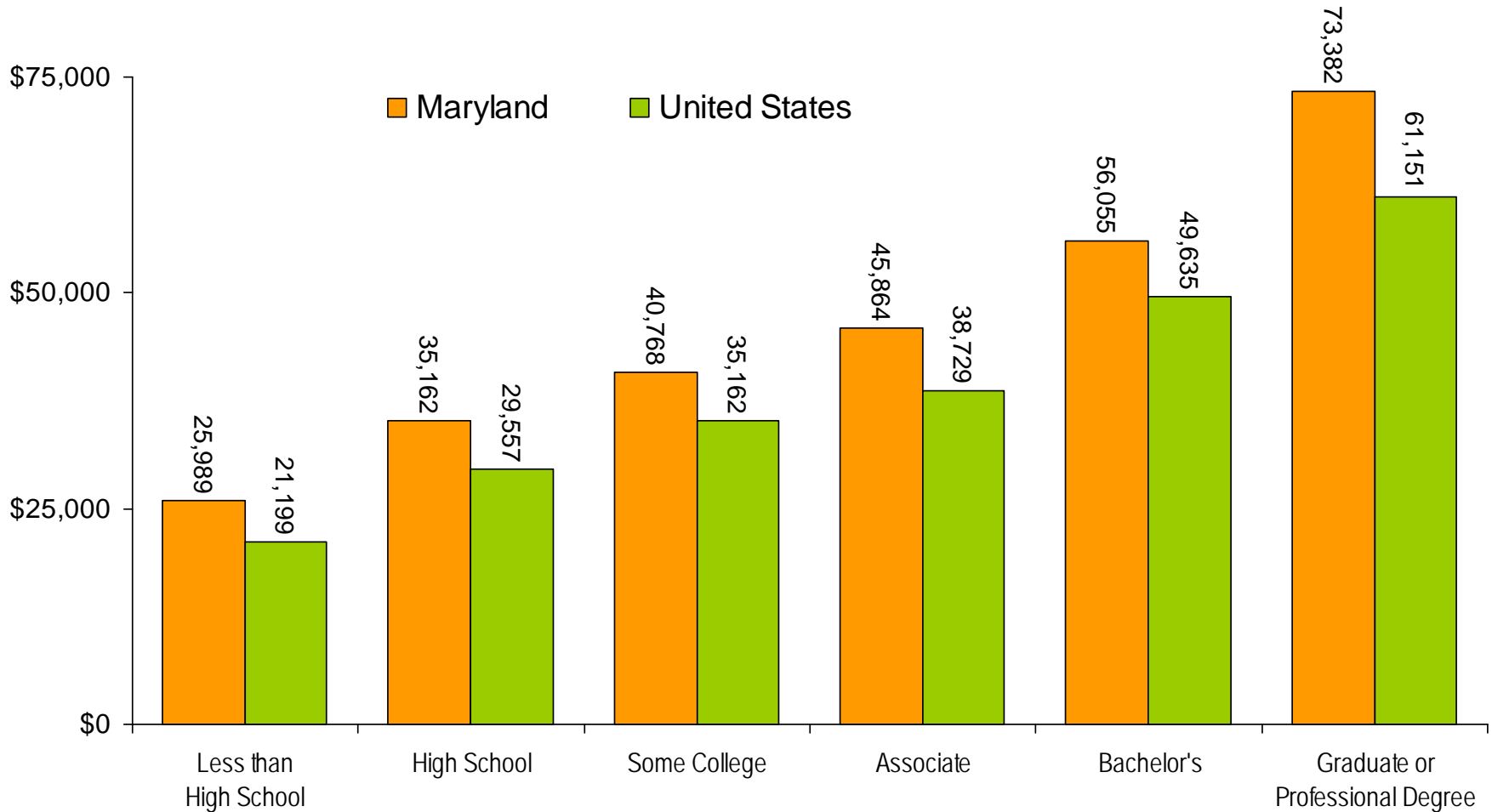
\* Minorities include African-American, Hispanic, and Native American

Source: U.S. Census Bureau, 2006 ACS (PUMS)

# Per Capita Personal Income as a Percent of U.S. Average - Maryland, 1960-2005



# Median Earnings of Population Age 25-64 by Level of Education, 2005



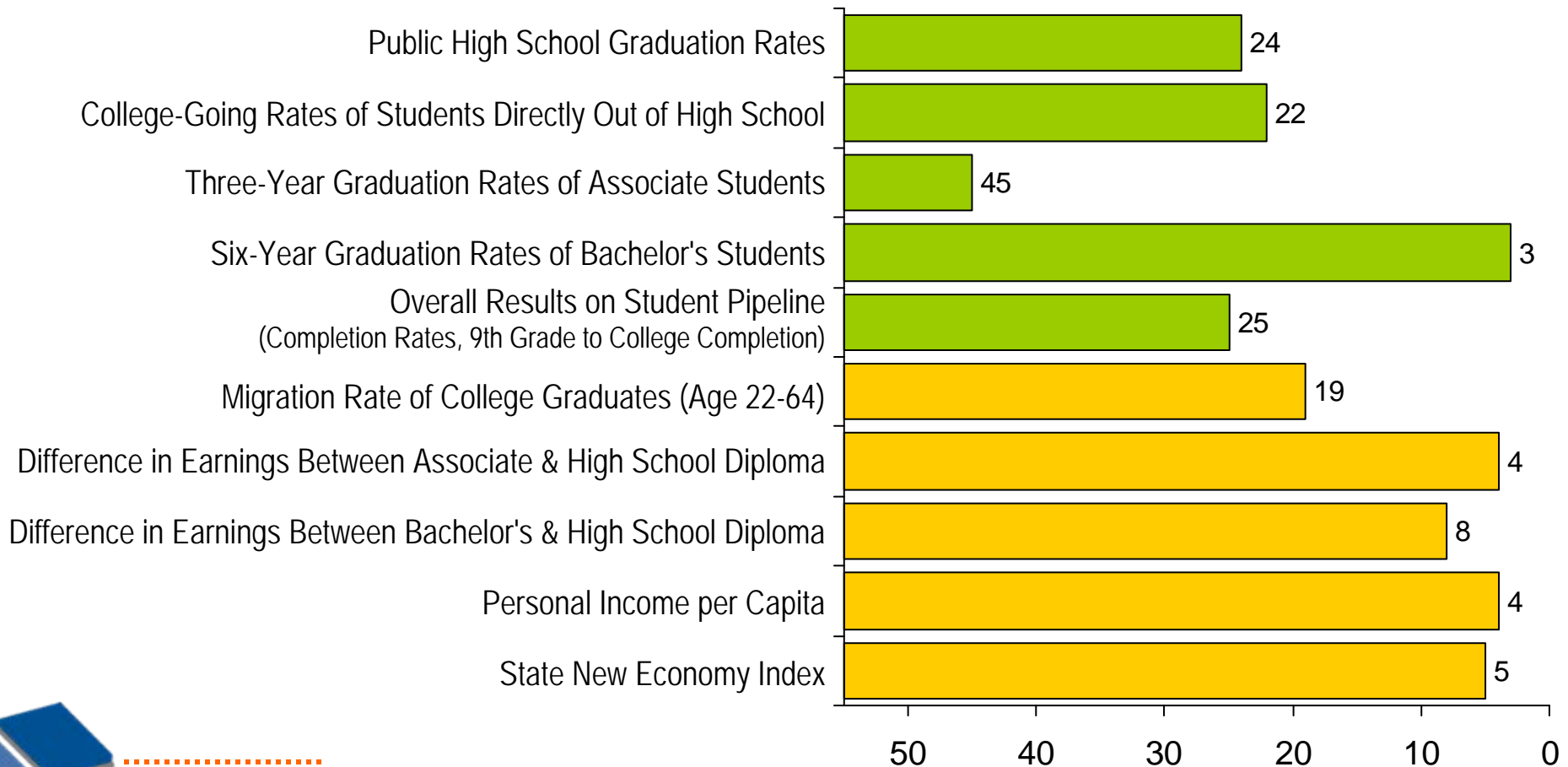
Source: U.S. Census Bureau, ACS

# Percent of Civilians Age 25-64 Not Participating in the Workforce - By Education Attainment, 2006

	<u>U.S.</u>	<u>Maryland</u>
Less than High School	39.2	37.7
High School	25.1	21.1
Some College	20.9	17.2
Associate Degree	16.9	14.9
Bachelor's Degree	15.7	15.0
Graduate/Prof. Degree	13.6	12.0

# How Maryland Ranks Among Other States on Selected Measures

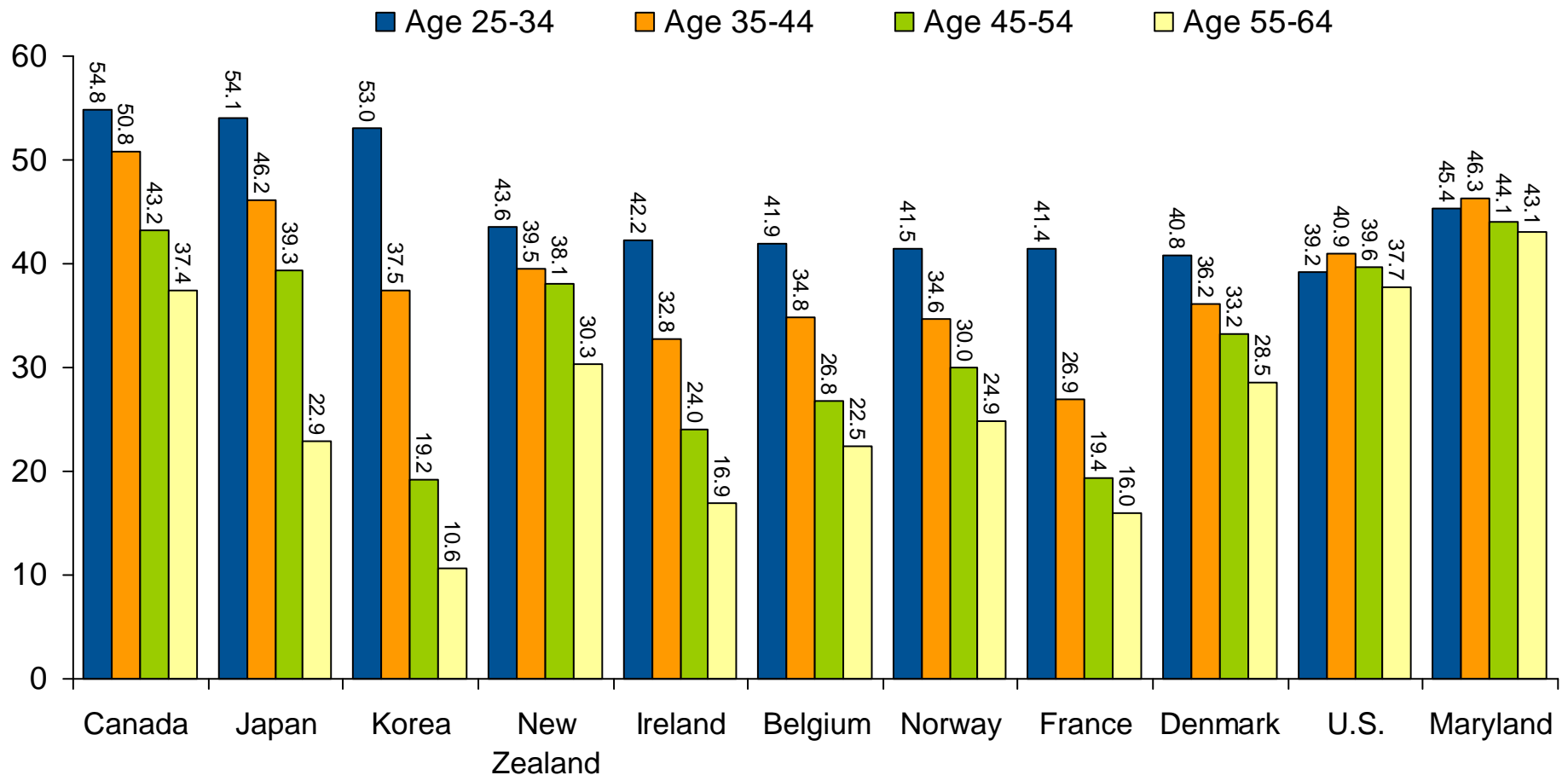
■ Education Measures     
 ■ Economic Development Measures



Source: Bureau of Labor Statistics

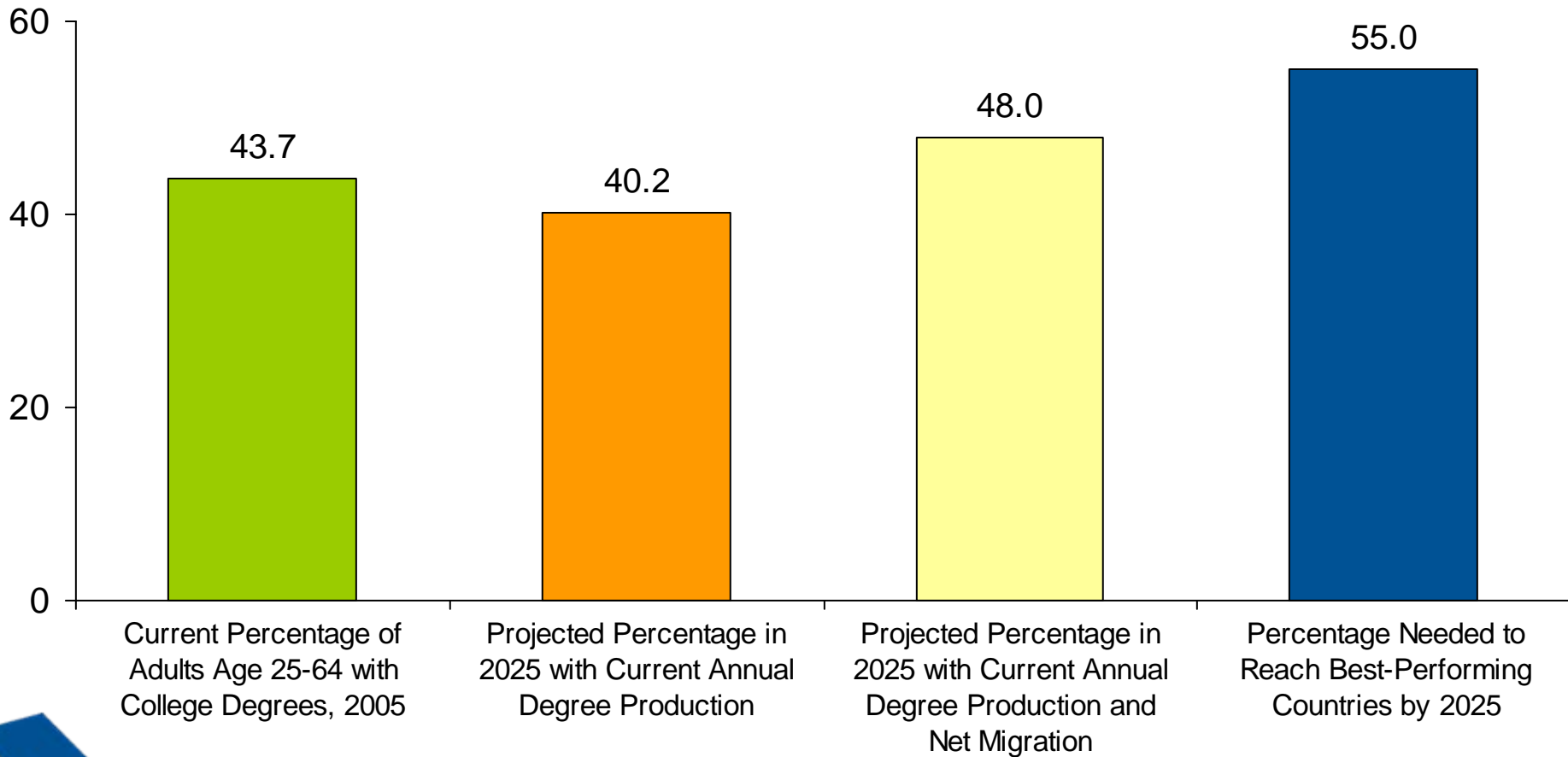
# THE CHALLENGE

# Percent of Adults with an Associate Degree or Higher by Age Group - Maryland, U.S. & Leading OECD Countries

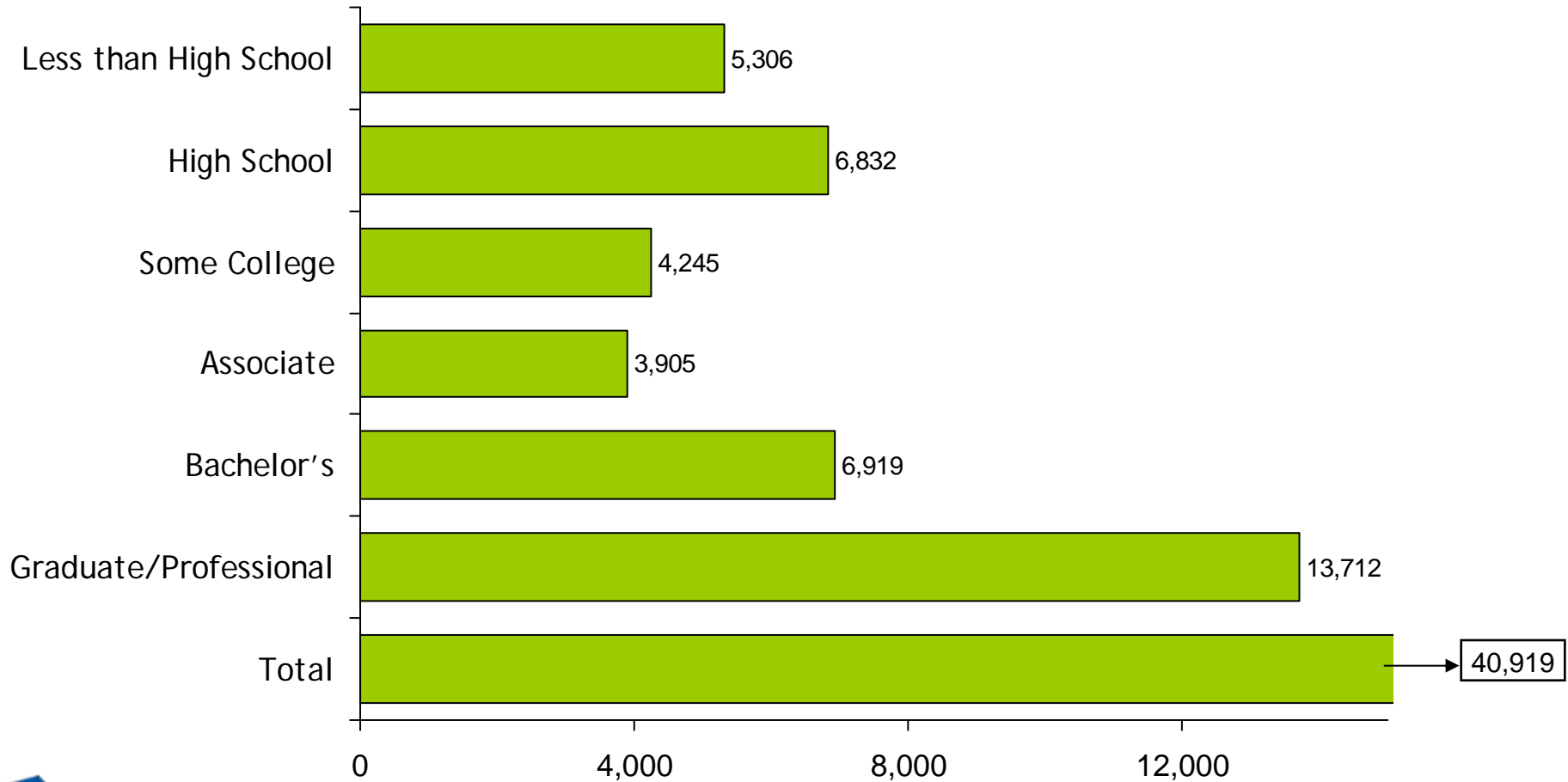


# Educational Attainment in Maryland (Percent)

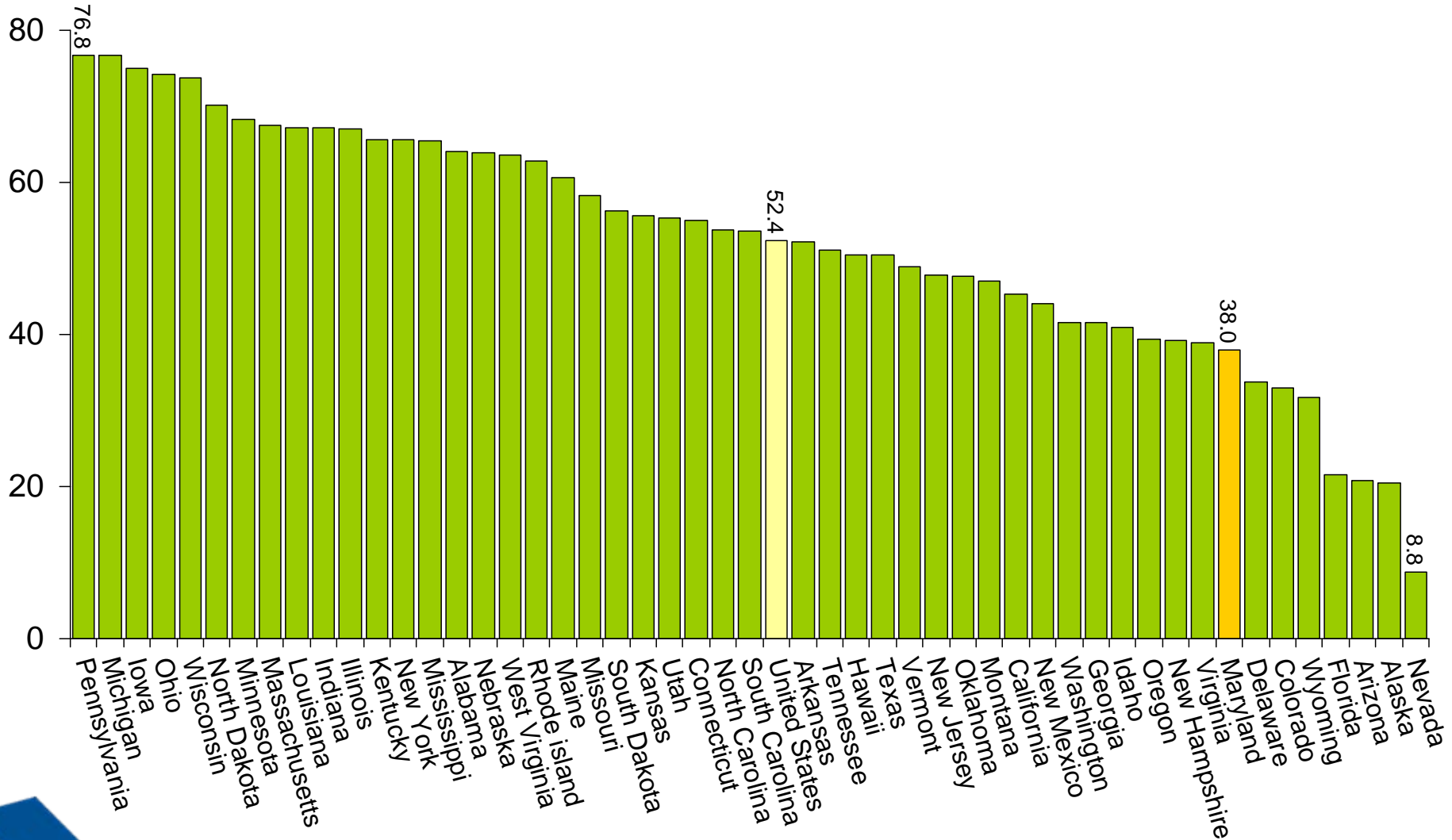
Current, In 2025 with Current Degree Production, and Best-Performing Countries in 2025



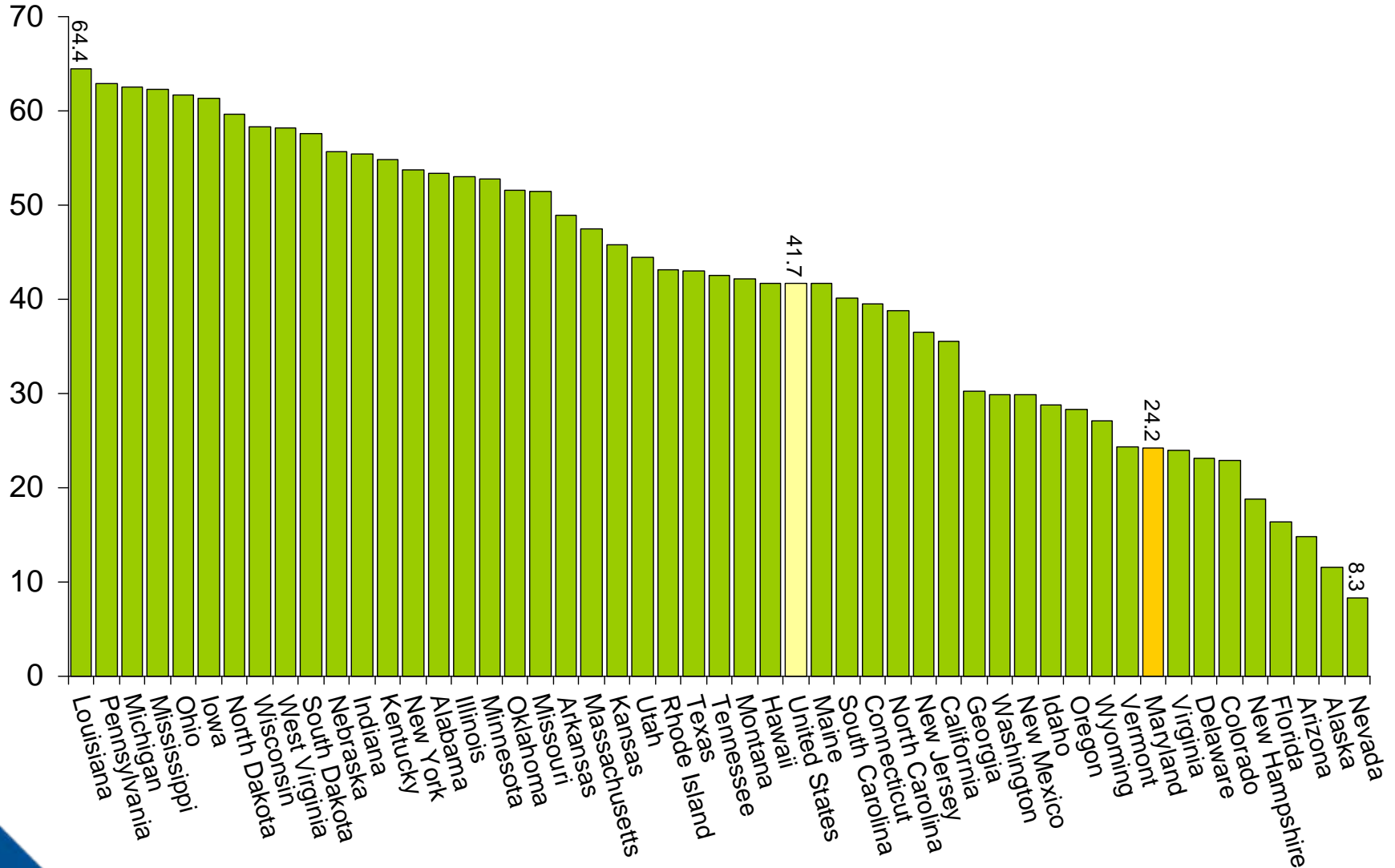
# Maryland Net Migration of Residents Age 22-64 by Level of Education, 2006



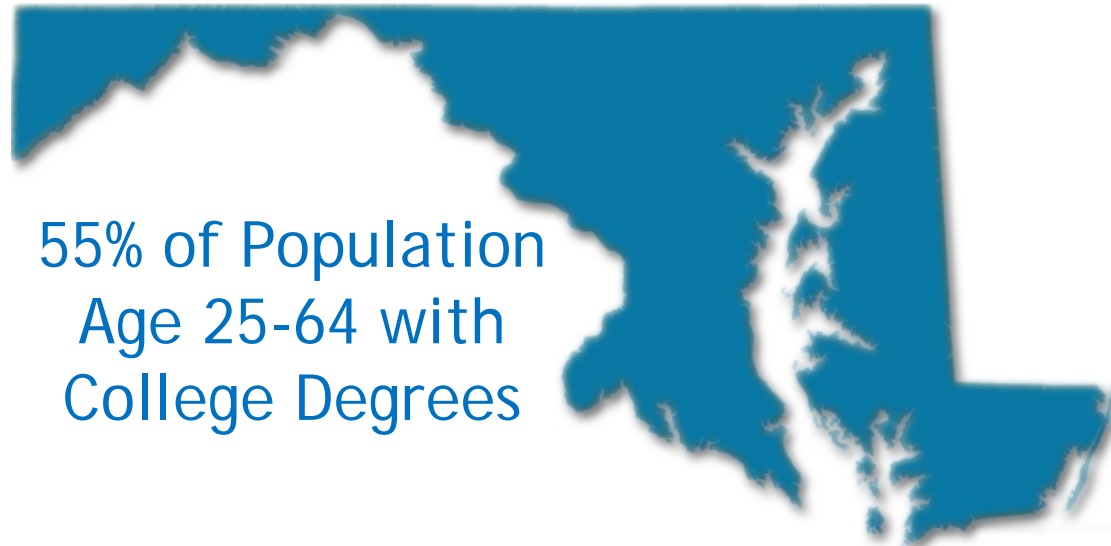
# Percent of Residents Age 25-64 with an Associate Degree Born In-State, 2005



# Percent of Residents Age 25-64 with a Bachelor's Degree or Higher Born In-State, 2005

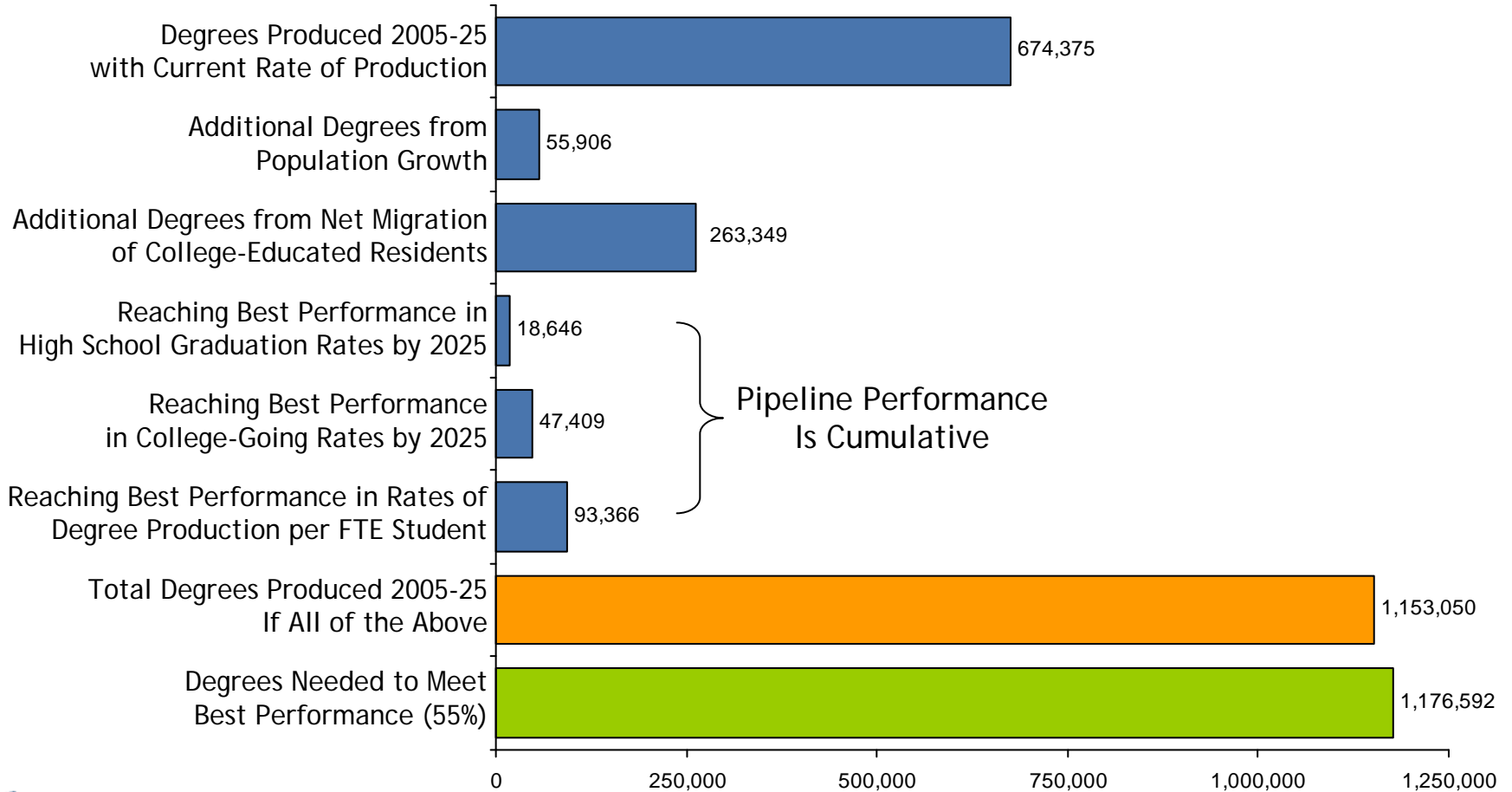


# The Goal: Maryland Reaching International Competitiveness by 2025



# How Can Maryland Reach International Competitiveness?

Current Degree Production Combined with Population Growth and Migration, and Improved Performance on Student Pipeline Measures



# Reaching Top Performance by 2025 (55%) Maryland

1,869,909	Number of Individuals to Match Best-Performing Countries (55%)
693,317	Number of Individuals (Age 25-44) Who Already Have Degrees
1,176,592	Additional Production Needed (2005 to 2025)
674,375	Degrees Produced at Current Annual Rate of Production
263,349	Additional Residents with College Degrees from Net Migration
238,868	Additional Degrees Needed
11,943	Additional Degrees Needed per Year (Currently Produce 35,824 in All Sectors)
40.4%	Increase in Annual Associate and Bachelor's Degree Production Needed (in Public Sector Only)

# Collective Cost to Maryland Assuming Tuition Stays the Same

\$445 Million = Annual Costs of Additional Students  
at Current \$ per Student

\$1.84 Billion = Current State Contribution

24% = Percent Increase in Annual State Support Needed

# Average Cost to Students Assuming No Additional State Investment

\$2,080 = Additional Annual Costs to Students at Public Four-Year Institutions

29% Increase in Tuition and Fees  
(Currently \$7,231)

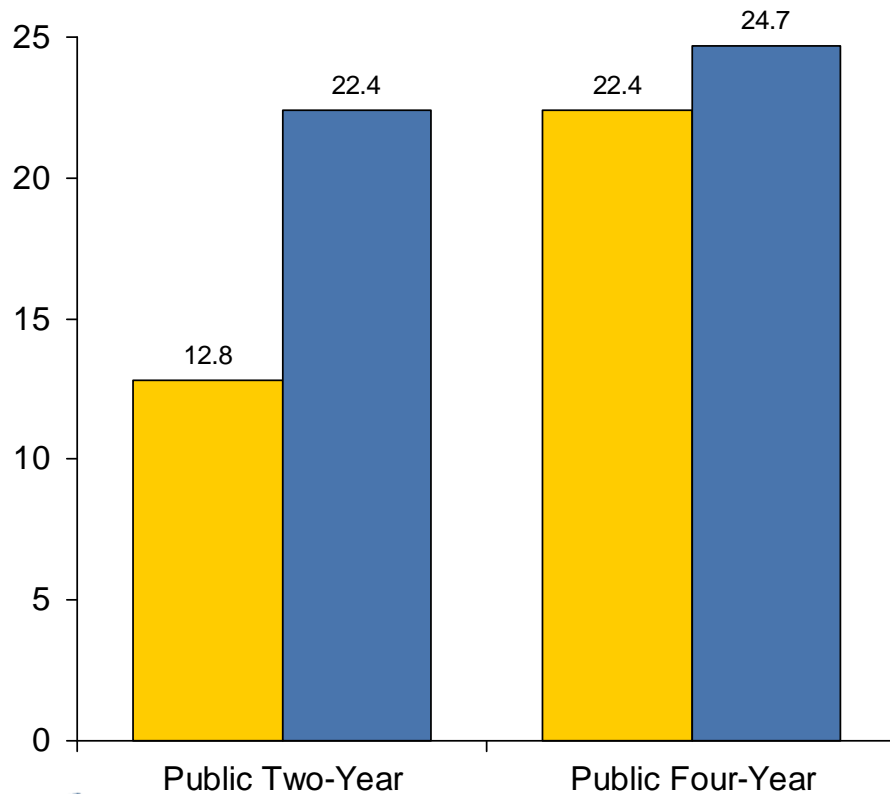
\$1,797 = Additional Annual Costs to Students at Public Two-Year Institutions

56% Increase in Tuition and Fees  
(Currently \$3,195)

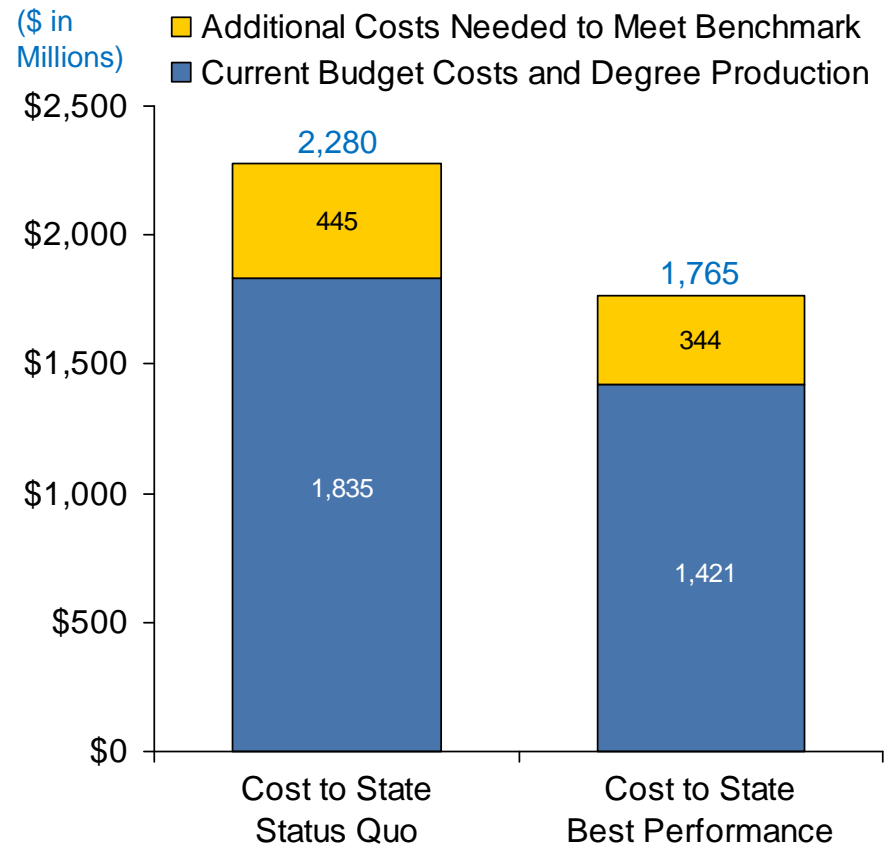
# Savings If Maryland Reaches Top Performance in Degree Production

Performance: Undergraduate Degrees Awarded Per 100 Full-Time Equivalent Students

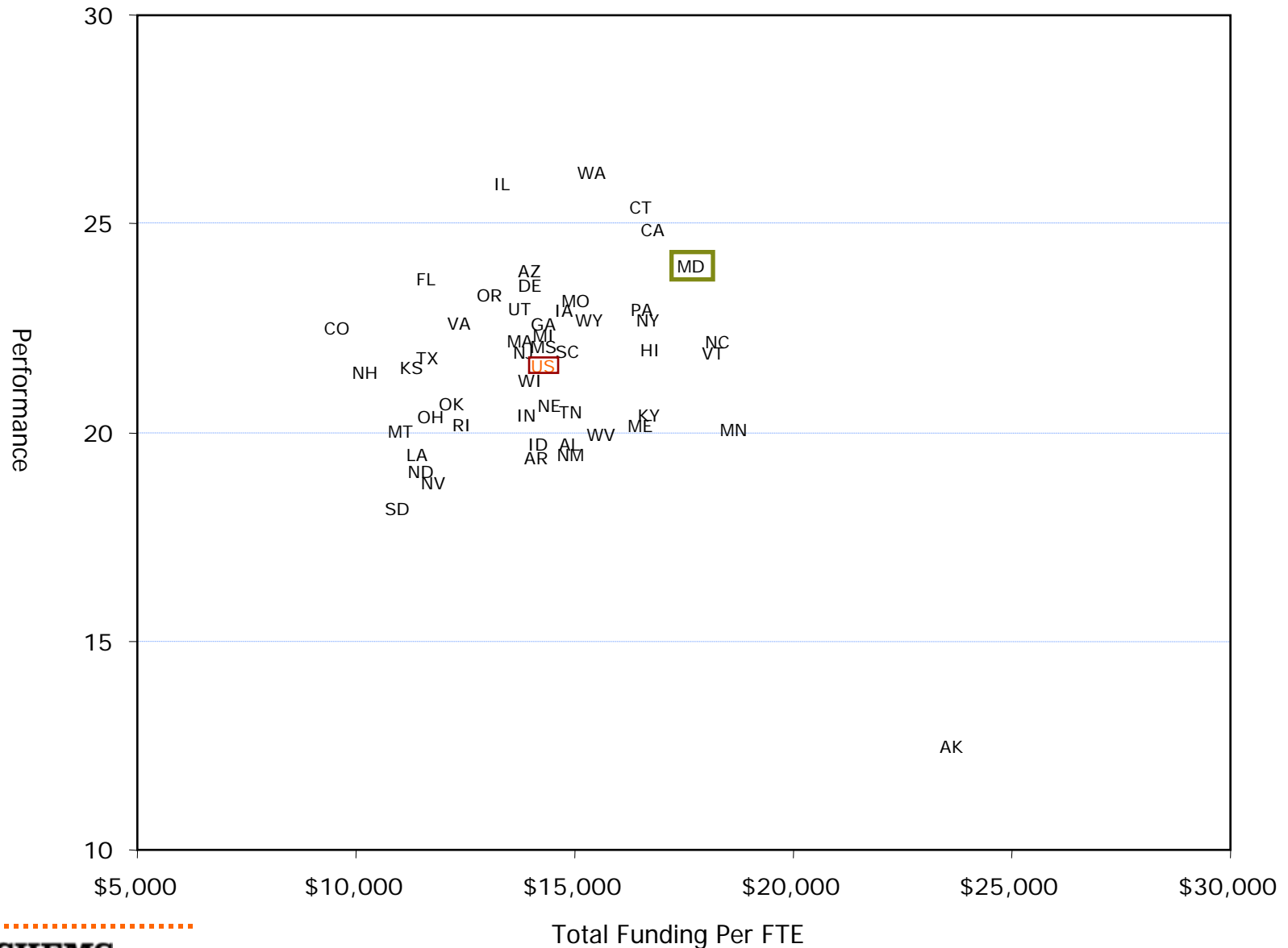
■ Maryland ■ Top States



Reduced costs would be **\$515 million** by improving efficiency of degree production to level of top states

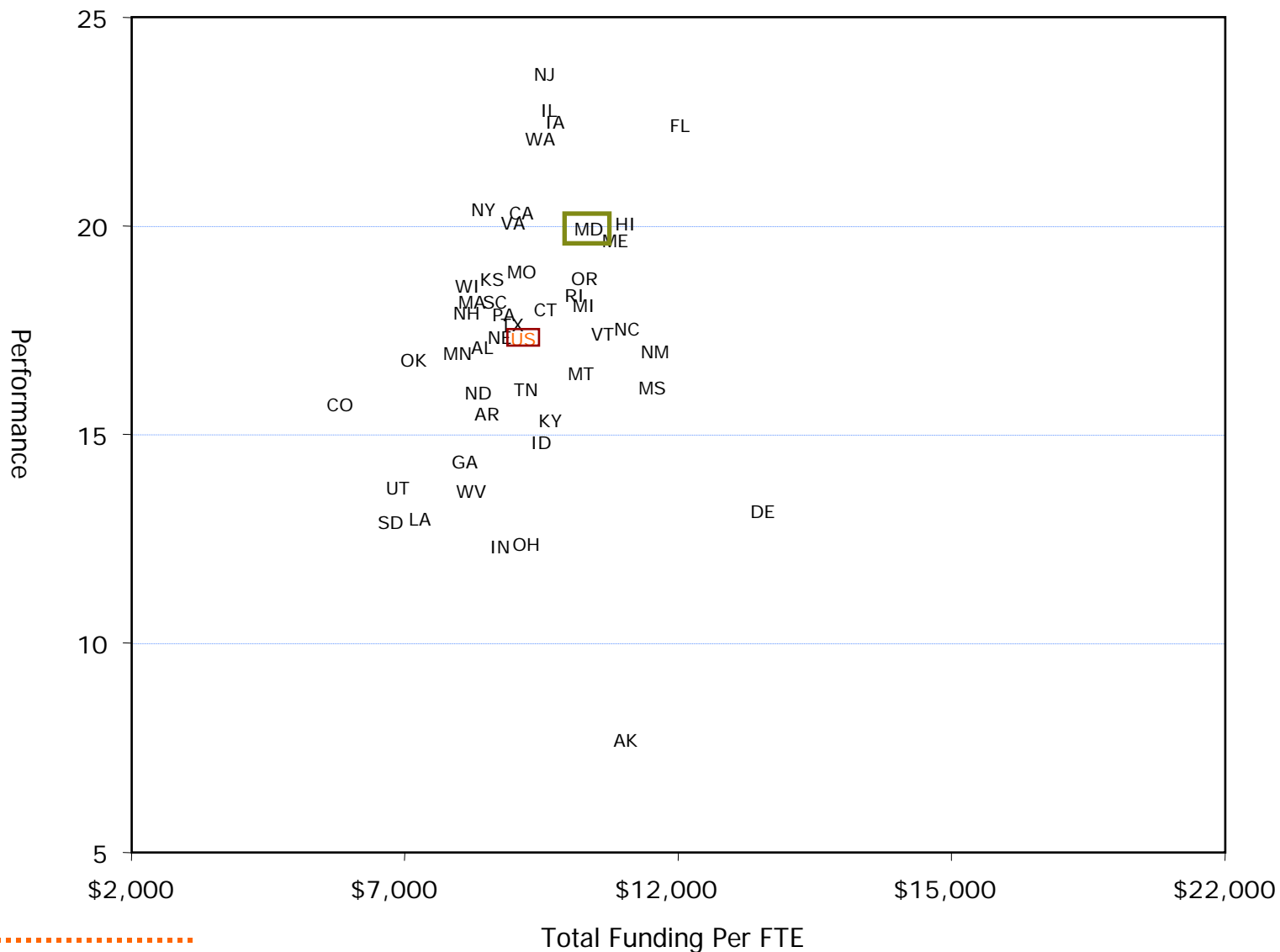


# Bachelor's Degrees Per 100 FTE Undergrads, 2002-03 Public Research Universities

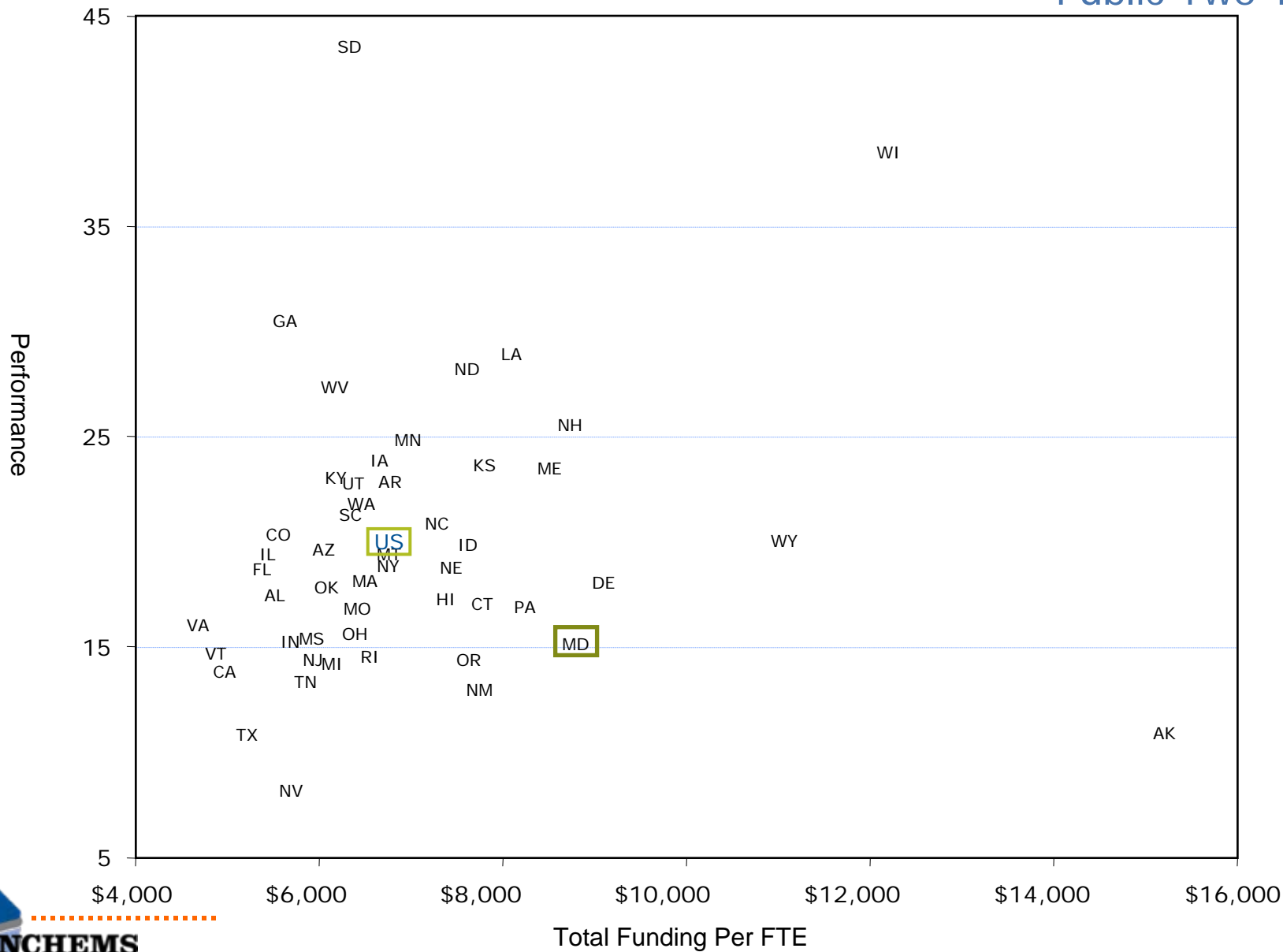


# Bachelor's Degrees Per FTE Undergrads, 2002-03

## Public Baccalaureate and Masters

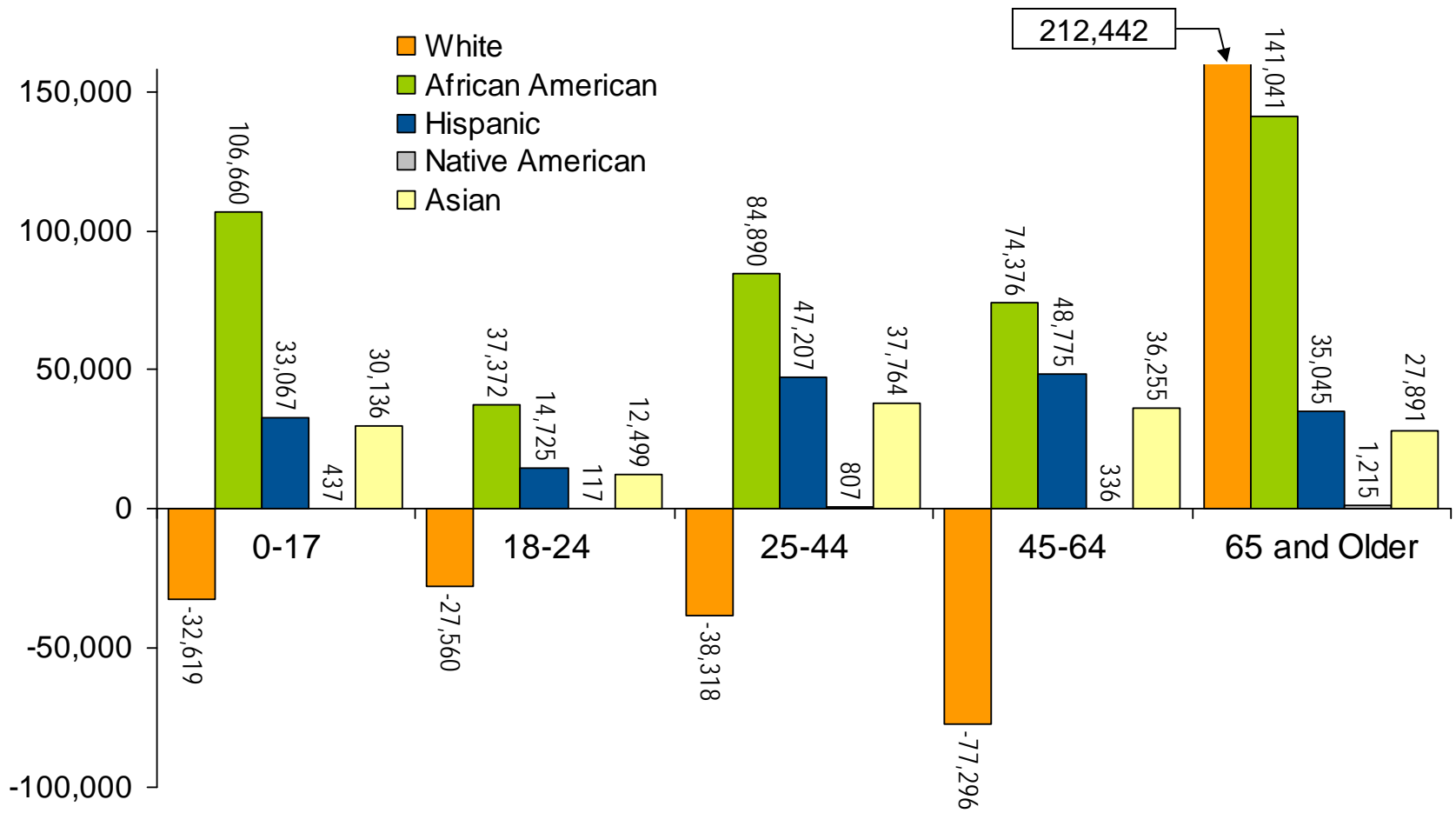


# Total Credentials Awarded per 100 FTE Undergraduates, 2003 Public Two Year

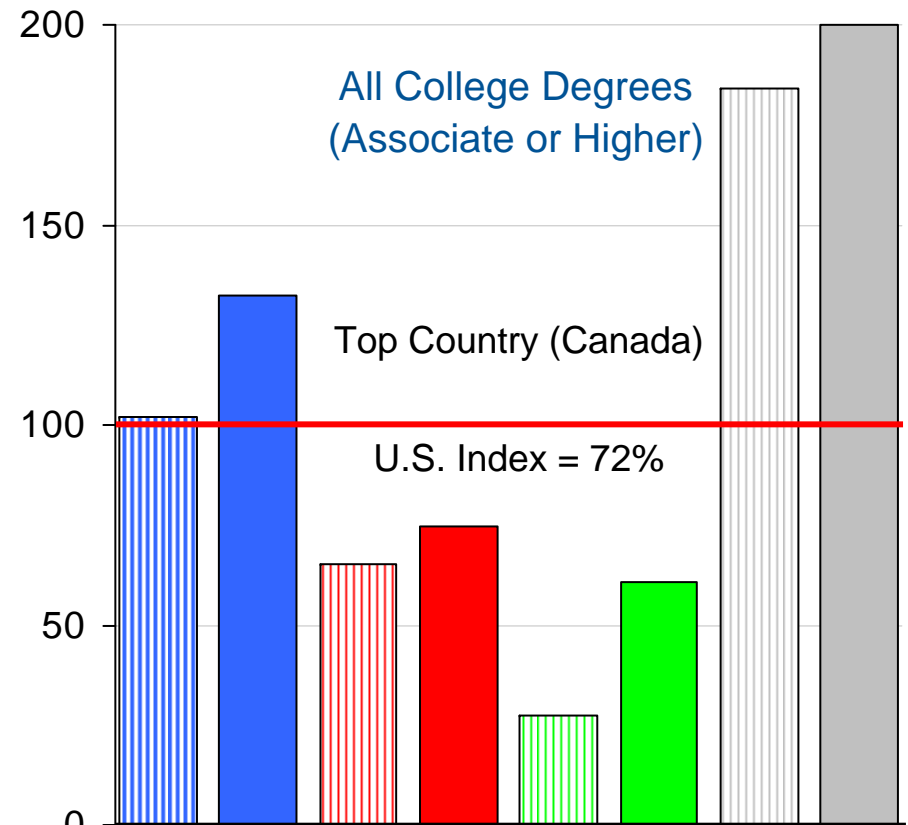
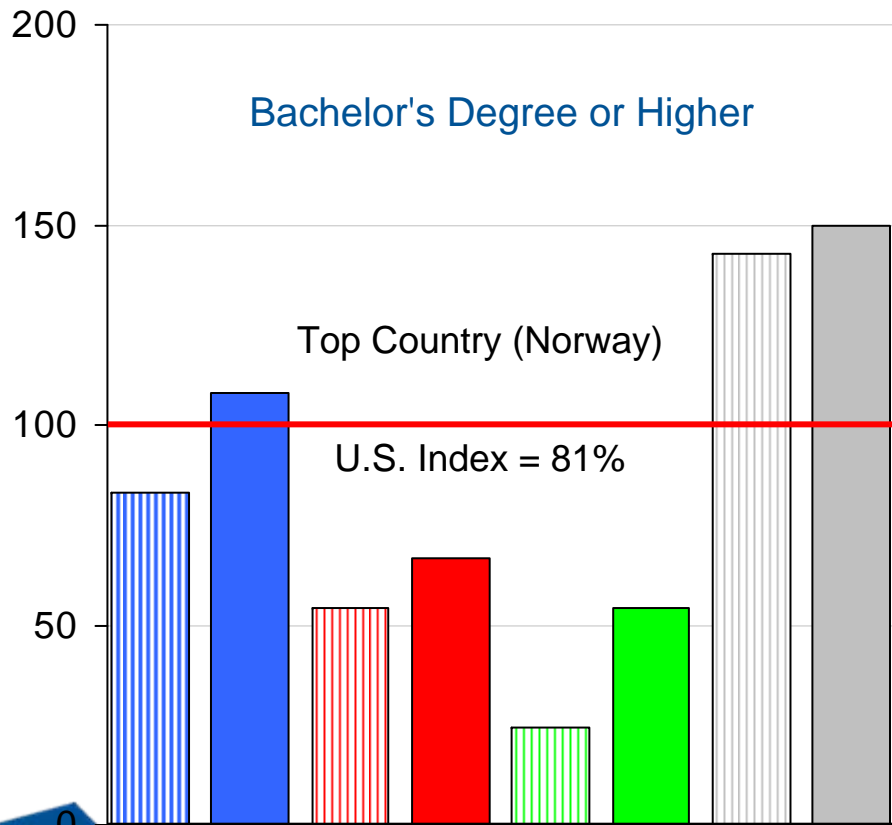
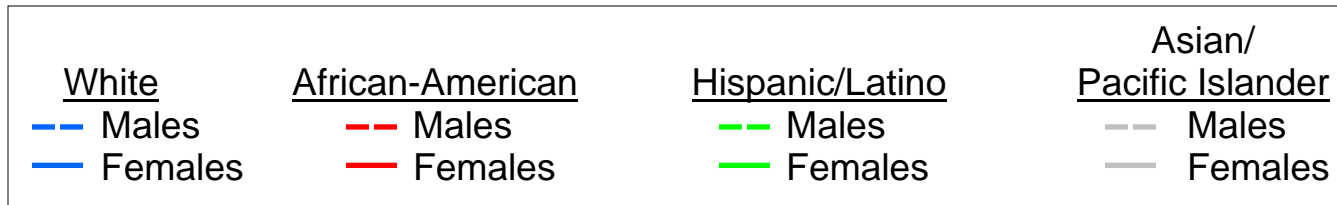


**THE ENVIRONMENT WITHIN  
WHICH IMPROVEMENT WILL  
HAVE TO BE MADE**

# Projected Change in Maryland Population by Age and Race/Ethnicity, 2006-25 (in Thousands)



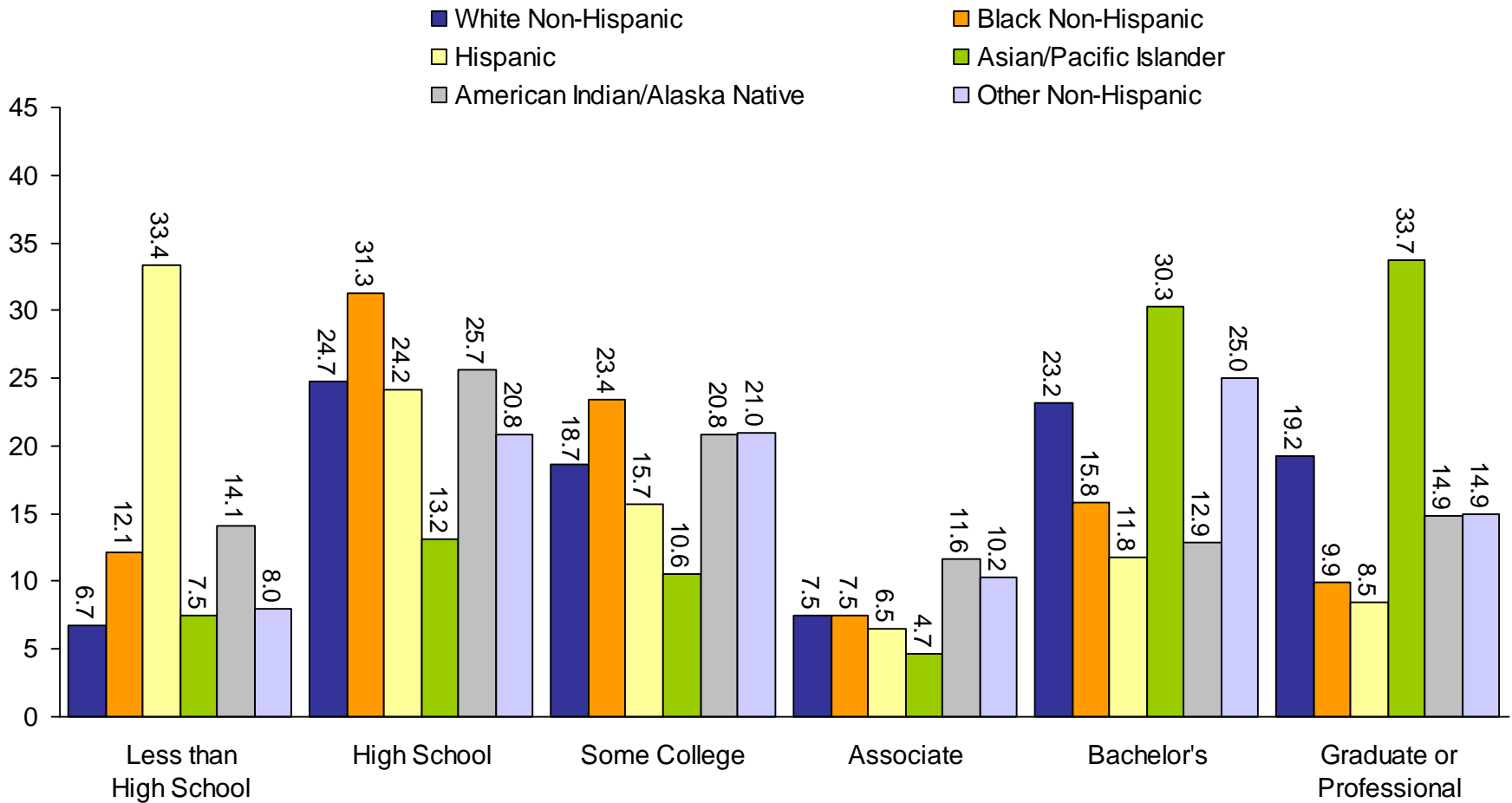
# Percent Educational Attainment of Maryland's Young Workforce (Age 25-34) Indexed to Most Educated Country, 2005



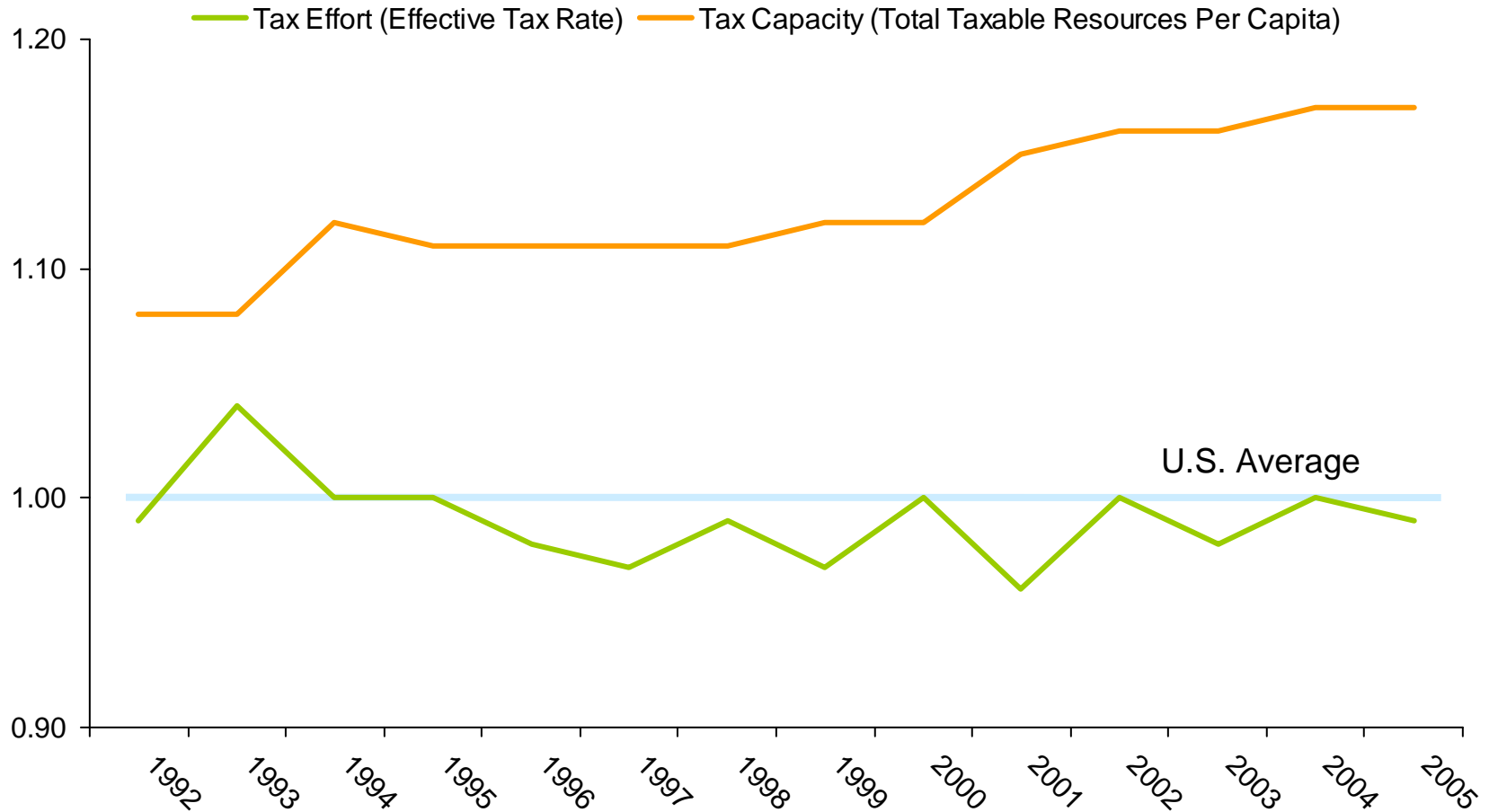
Source: U.S. Census Bureau, 2005 ACS; OECD

\*Native American/Alaskan Natives not displayed, as sample size is too small

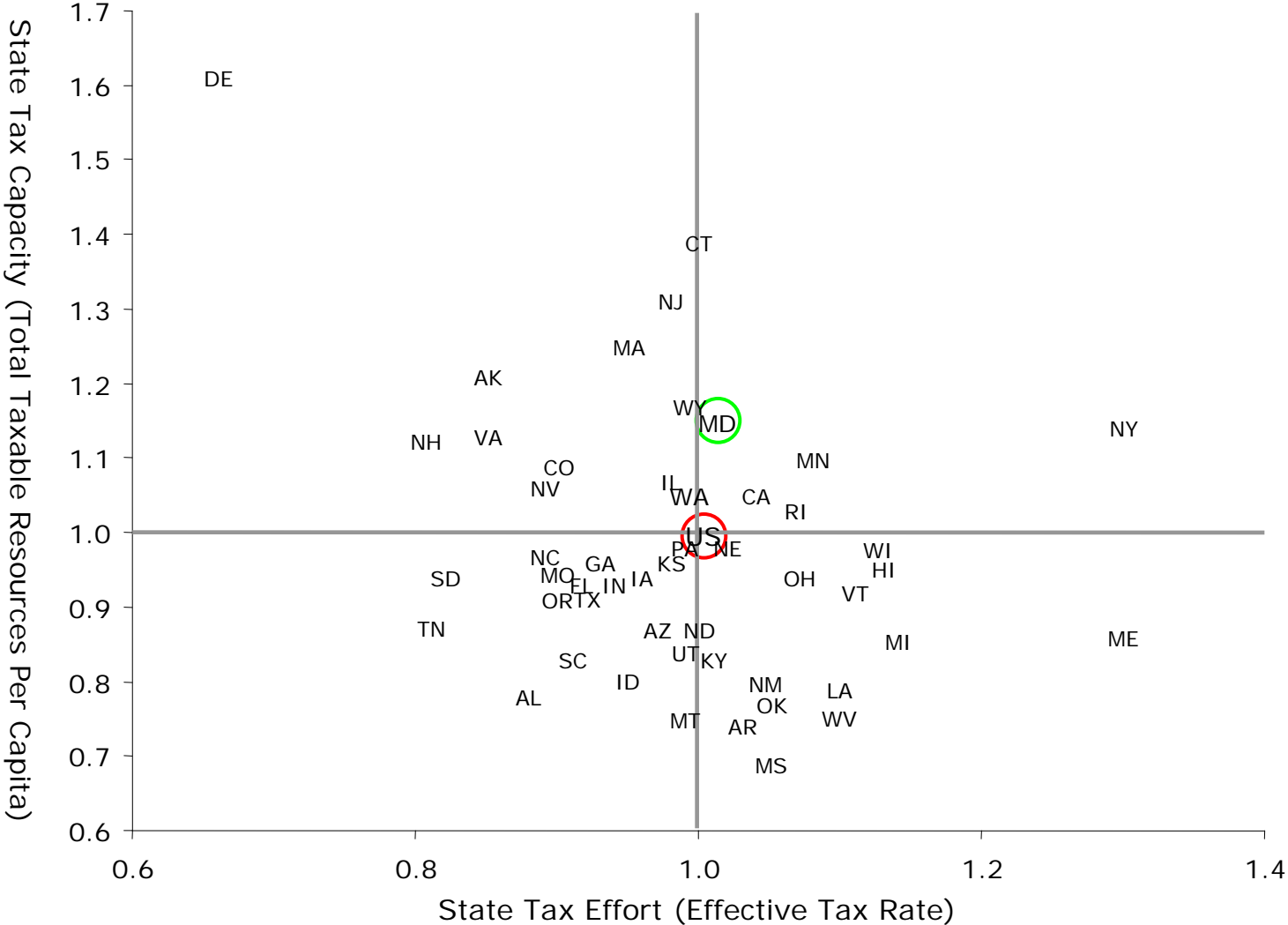
# Percent Educational Attainment of Population Age 25-64 By Race/Ethnicity – Maryland, 2006



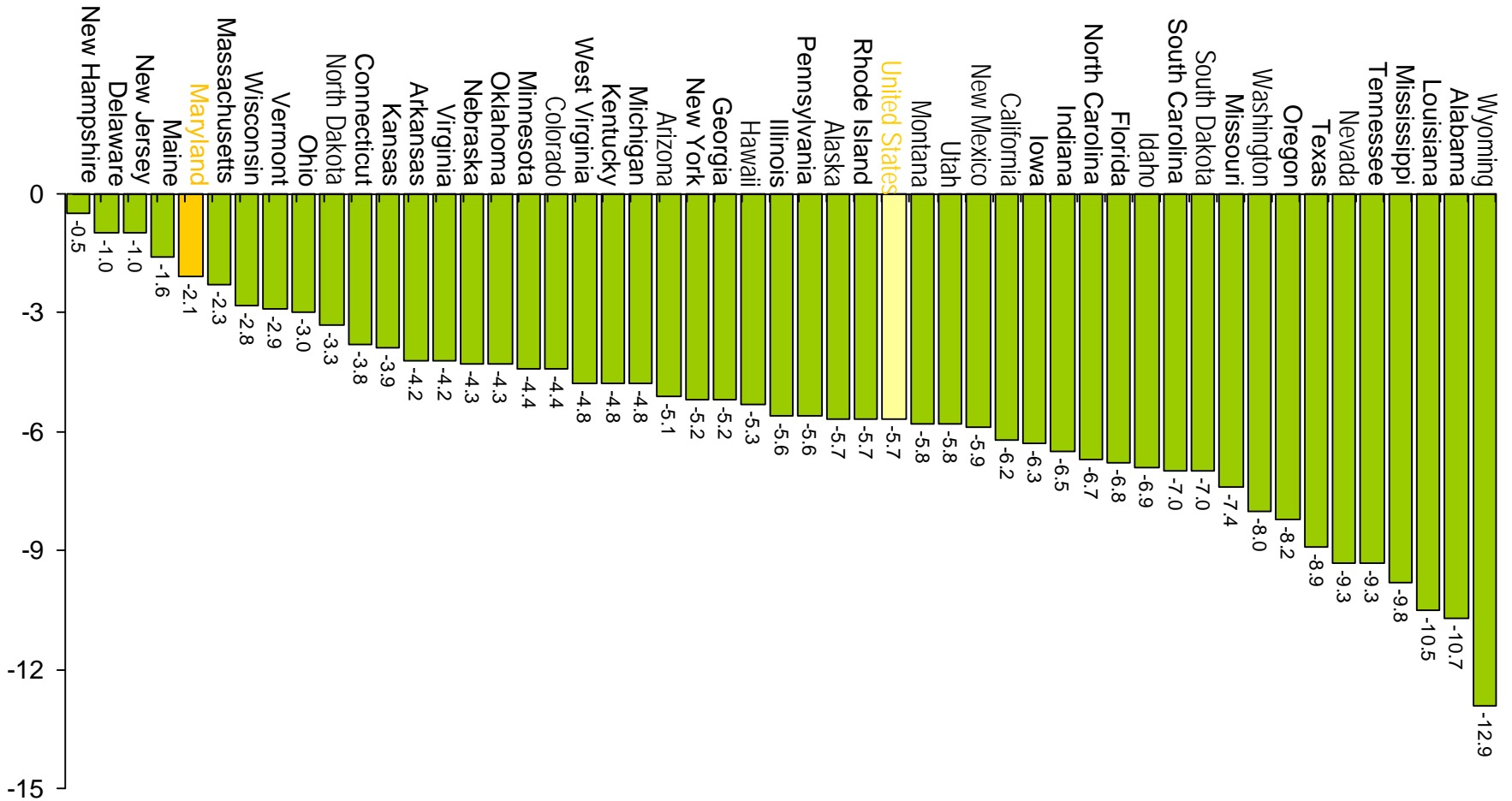
# State Tax Capacity & Effort Maryland Indexed to U.S. Average



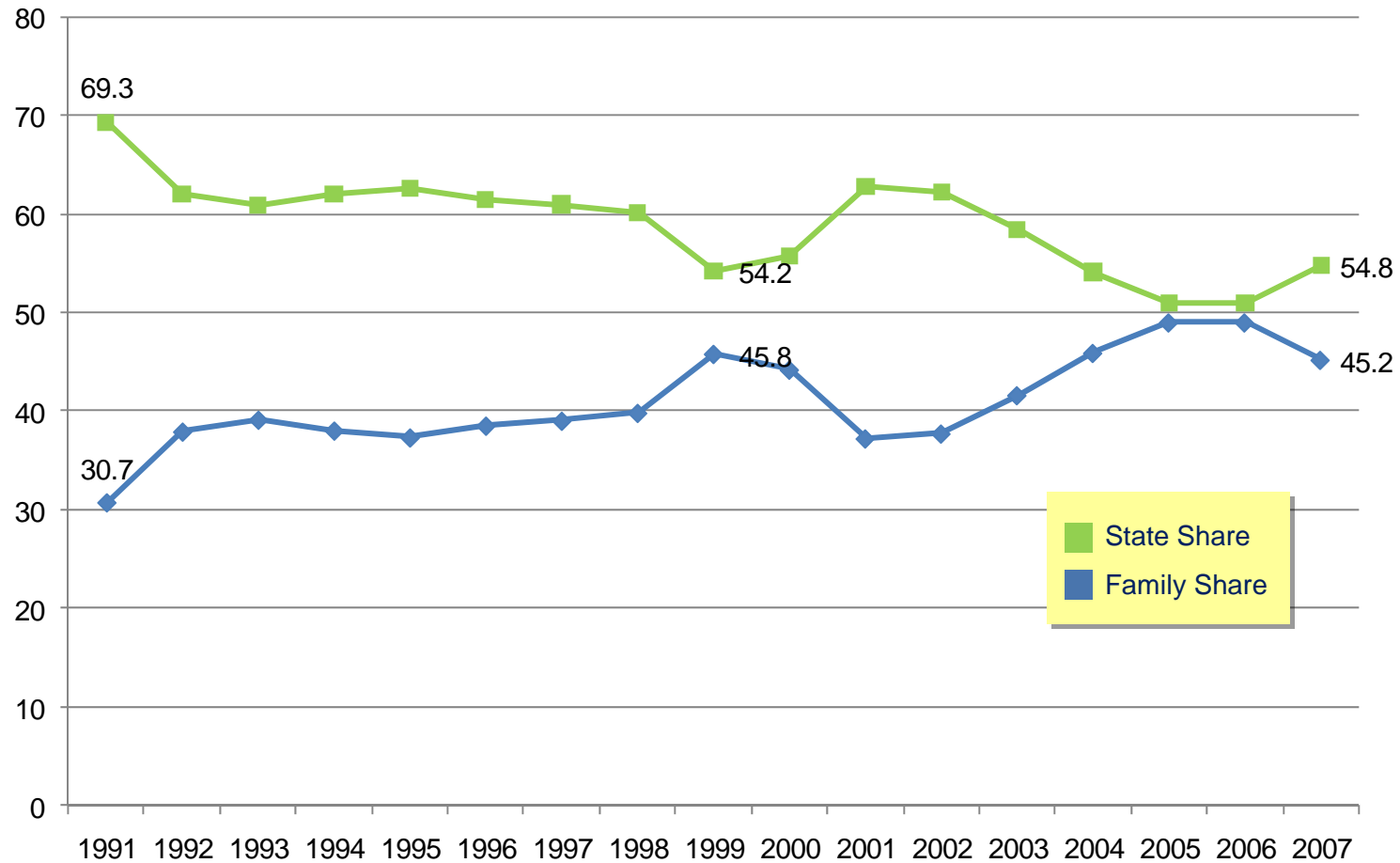
# State Tax Capacity & Effort Maryland Indexed to U.S. Average



# Projected State and Local Budget Surplus (Gap) as a Percent of Revenues, 2013



# State & Family Share of Funding for Public Higher Education, 1991 – 2007, Maryland

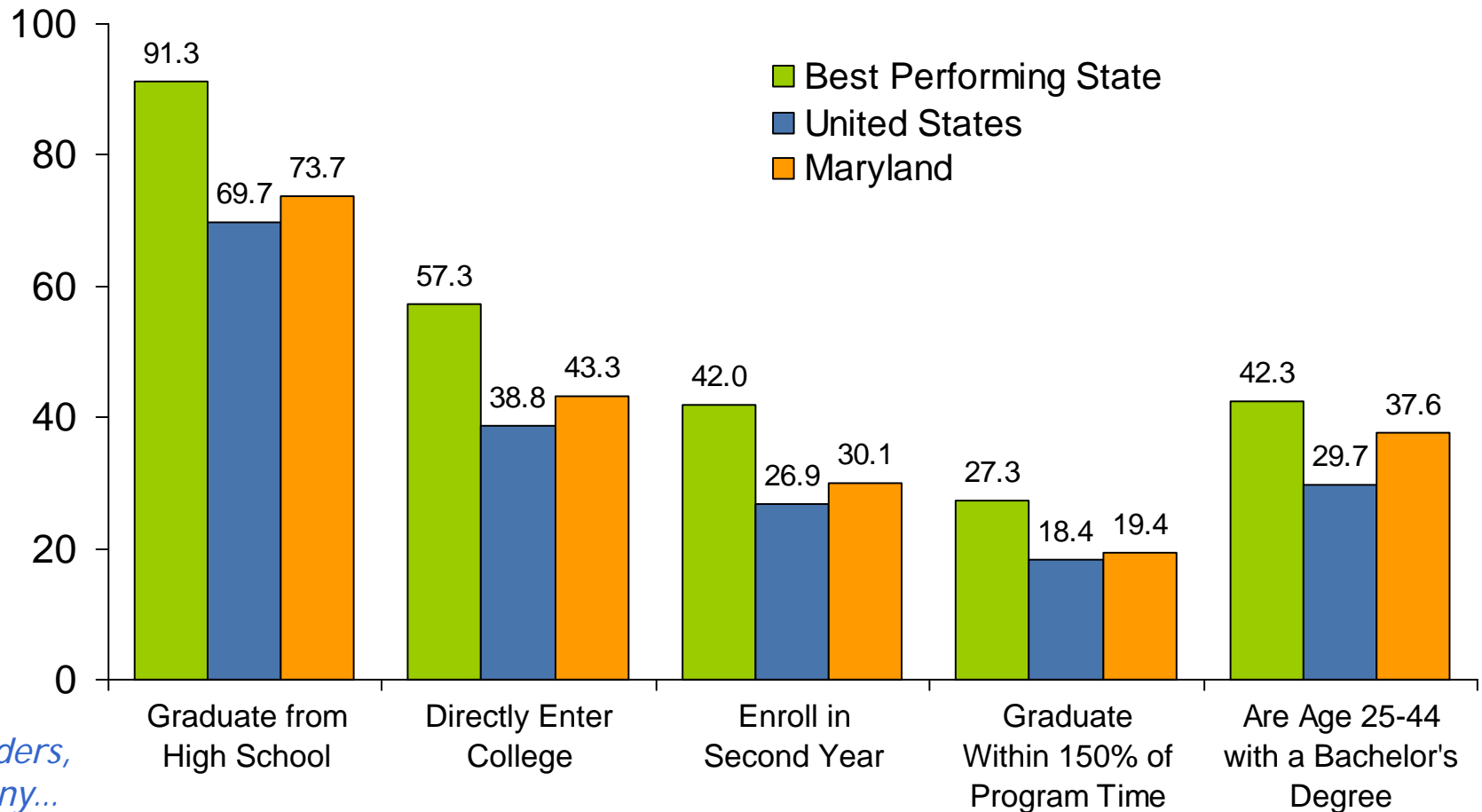


Source: NCPPE, Measuring Up:  
The State-by-State Report Card for Higher Education



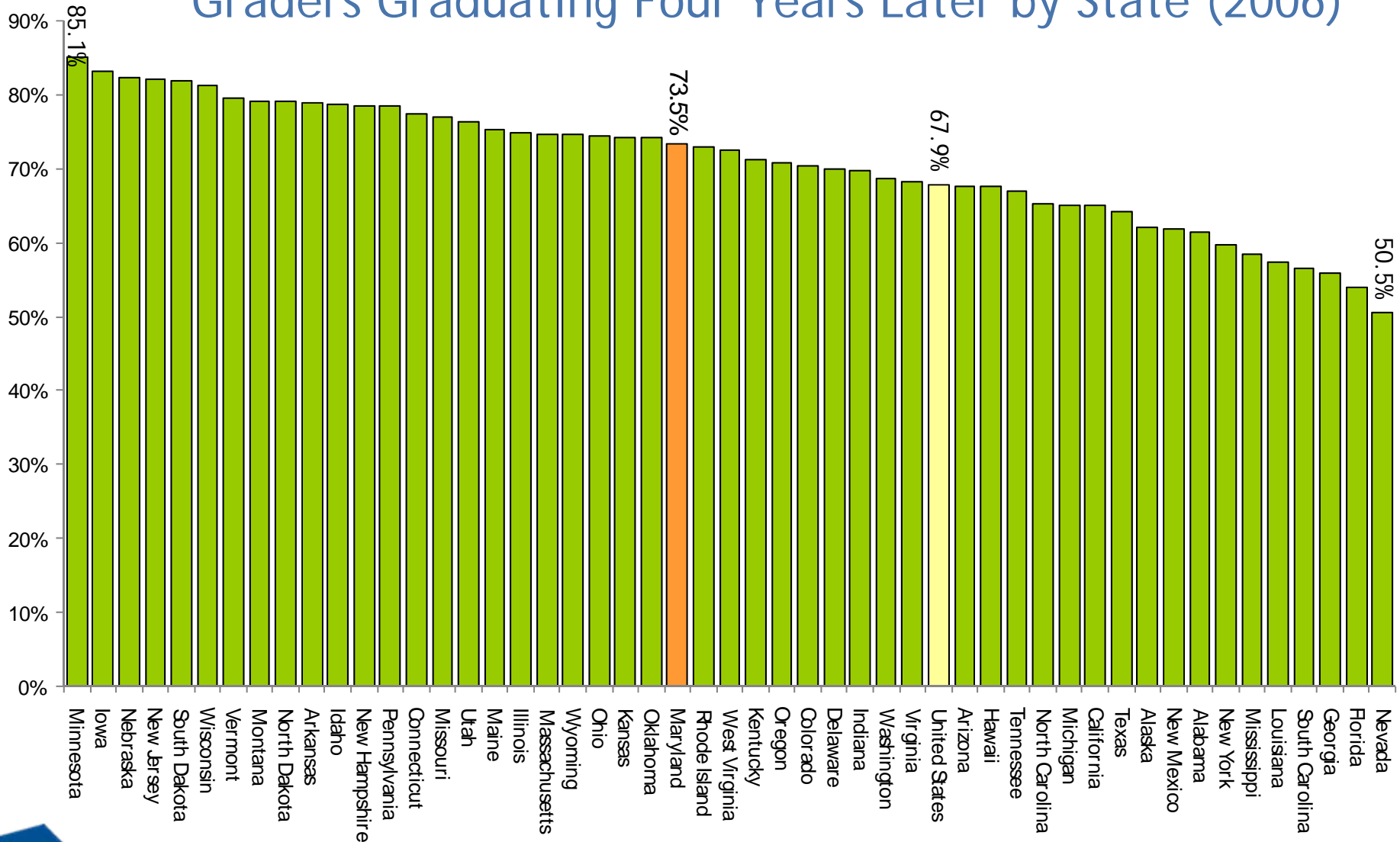
# THE EDUCATION PIPELINE

# Student Pipeline, 2004

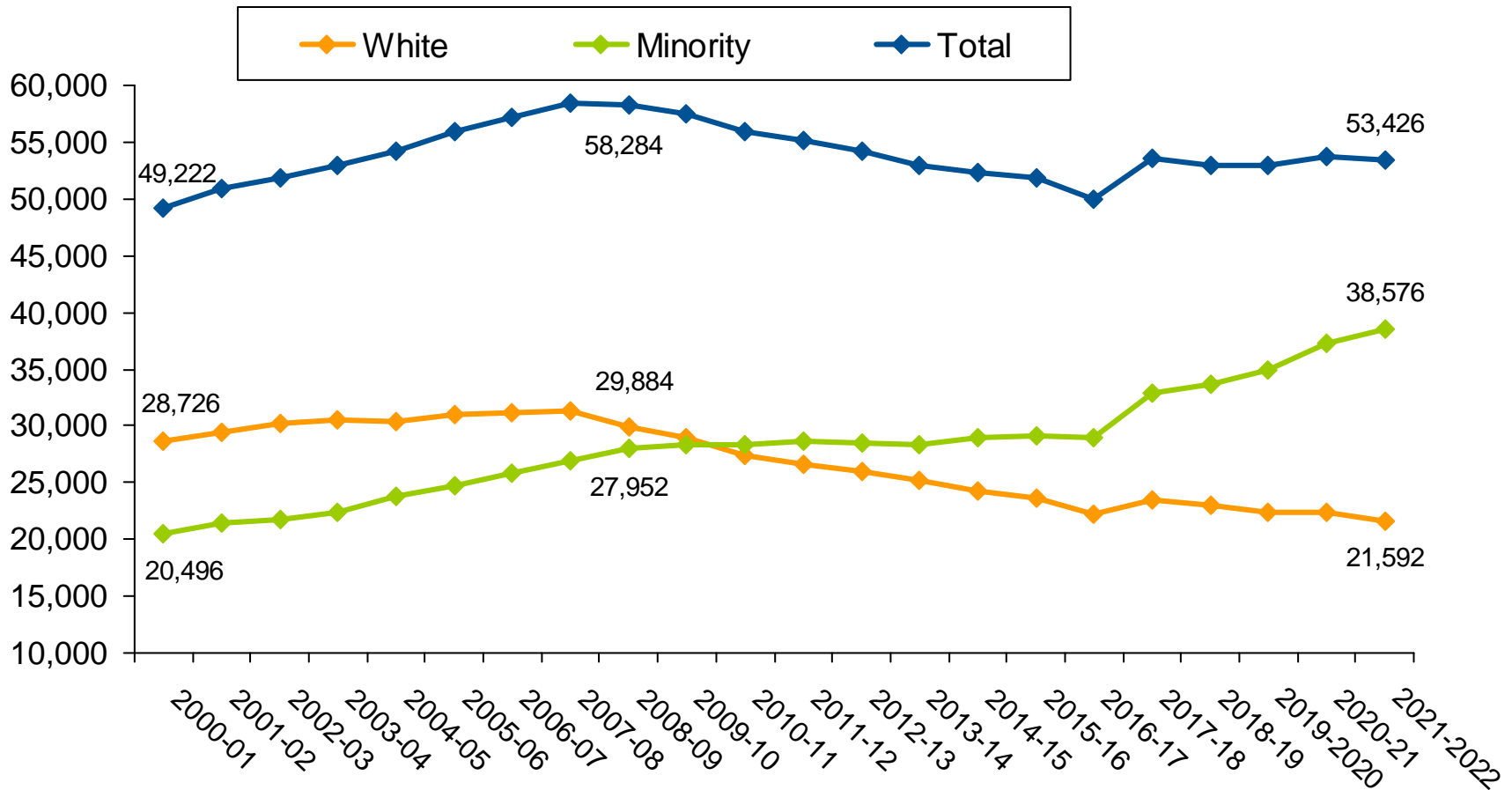


*Of 100  
9th Graders,  
How Many...*

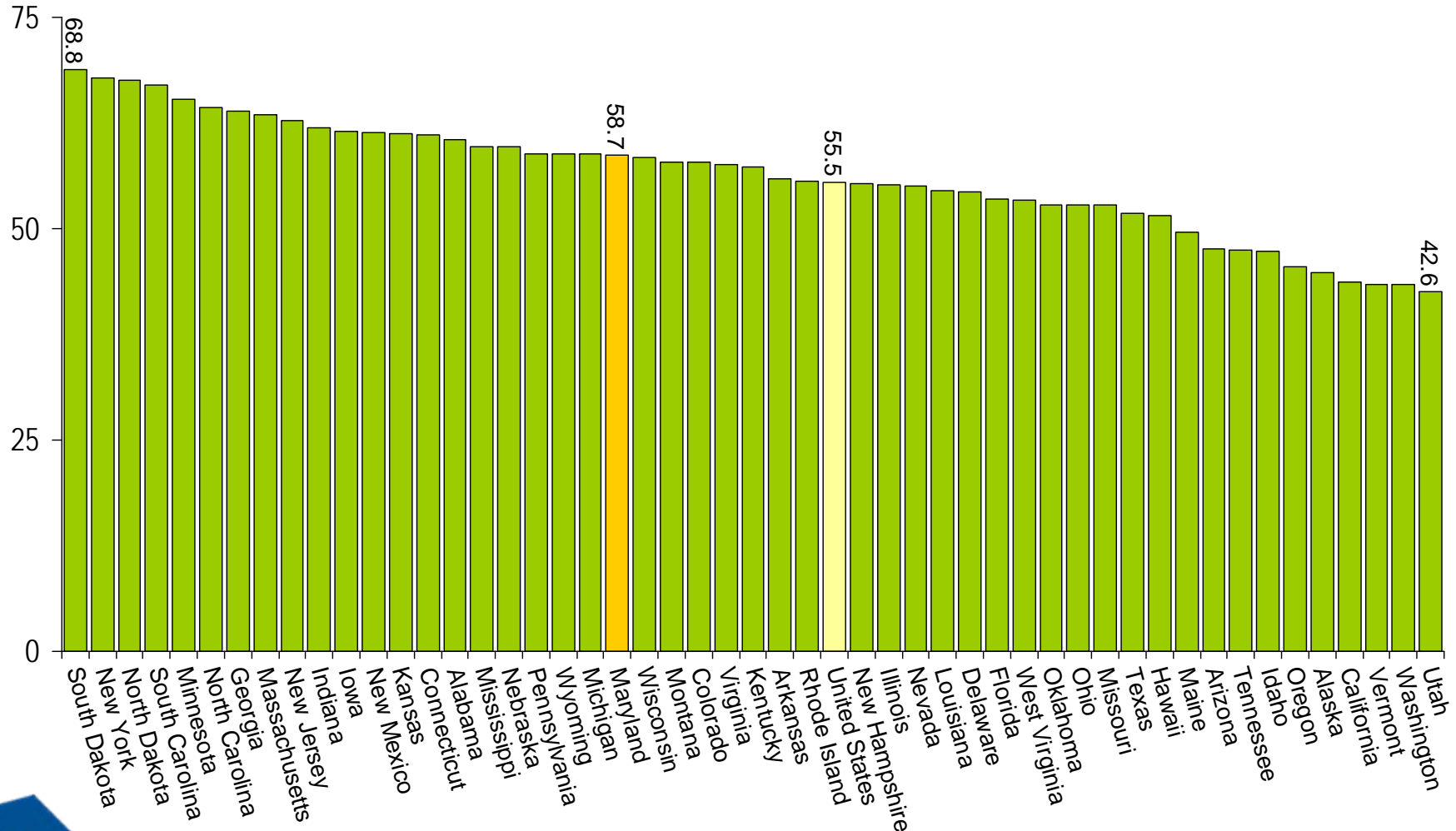
# Public High School Graduation Rate - Percent of 9<sup>th</sup> Graders Graduating Four Years Later by State (2006)



# Maryland Projected High School Graduates By Race/Ethnicity from 2000-01 to 2021-22

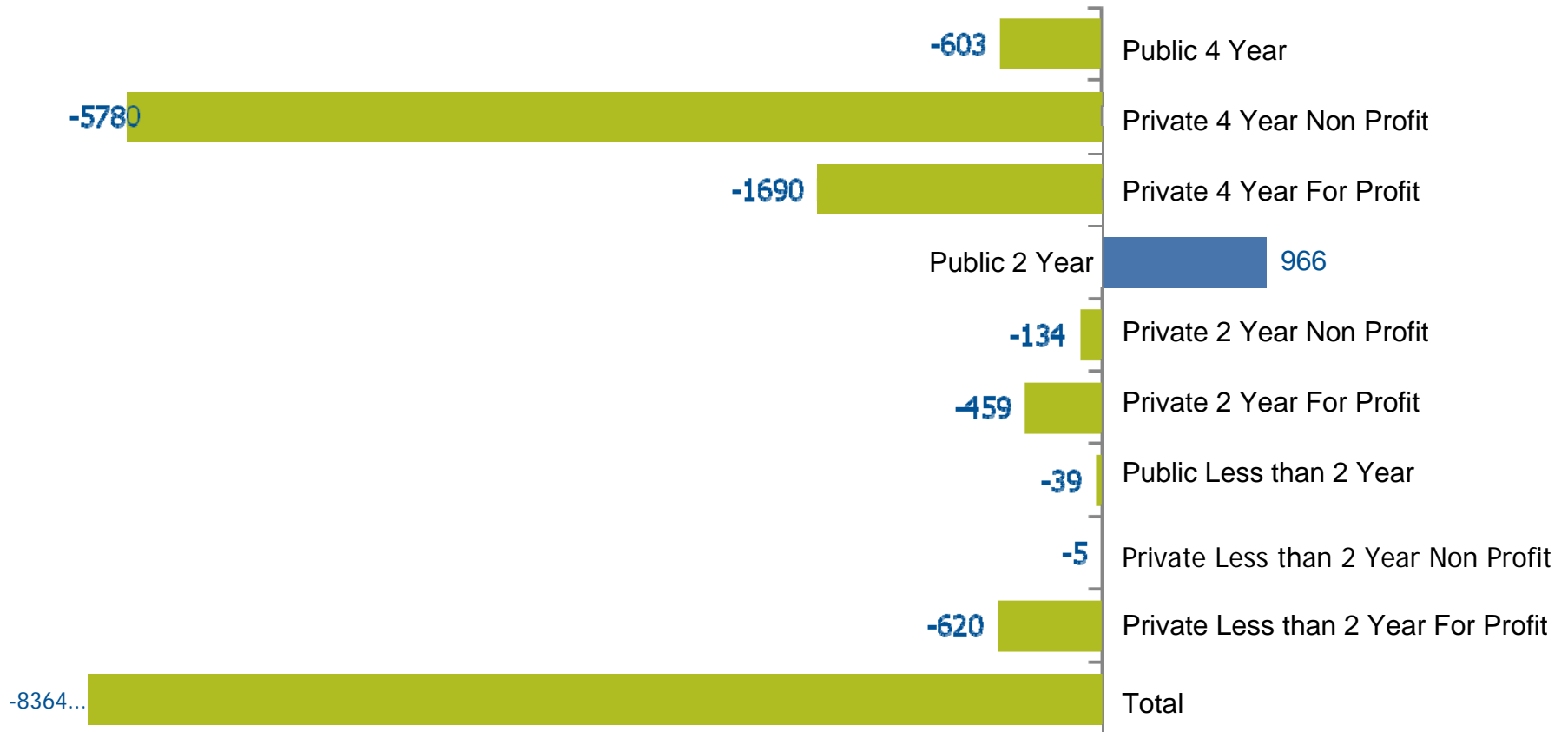


# College-Going Rates - First-Time Freshmen Directly Out of High School as a Percent of Recent High School Graduates, 2004

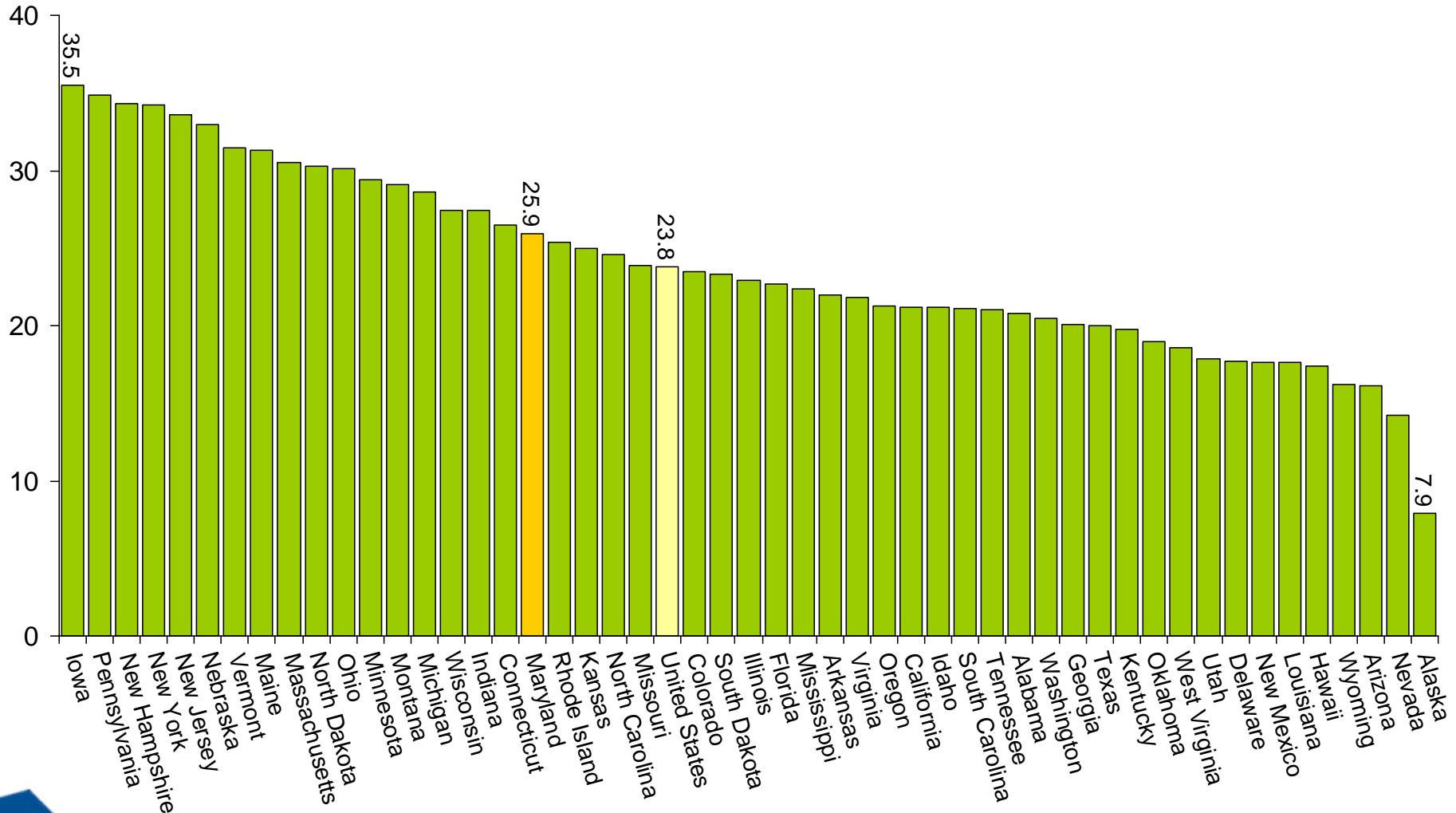


Source: Tom Mortenson, Postsecondary Opportunity (2004 data update 02-06-07)

# Maryland Net Migration of First-time College Students by Sector (Fall 2006)

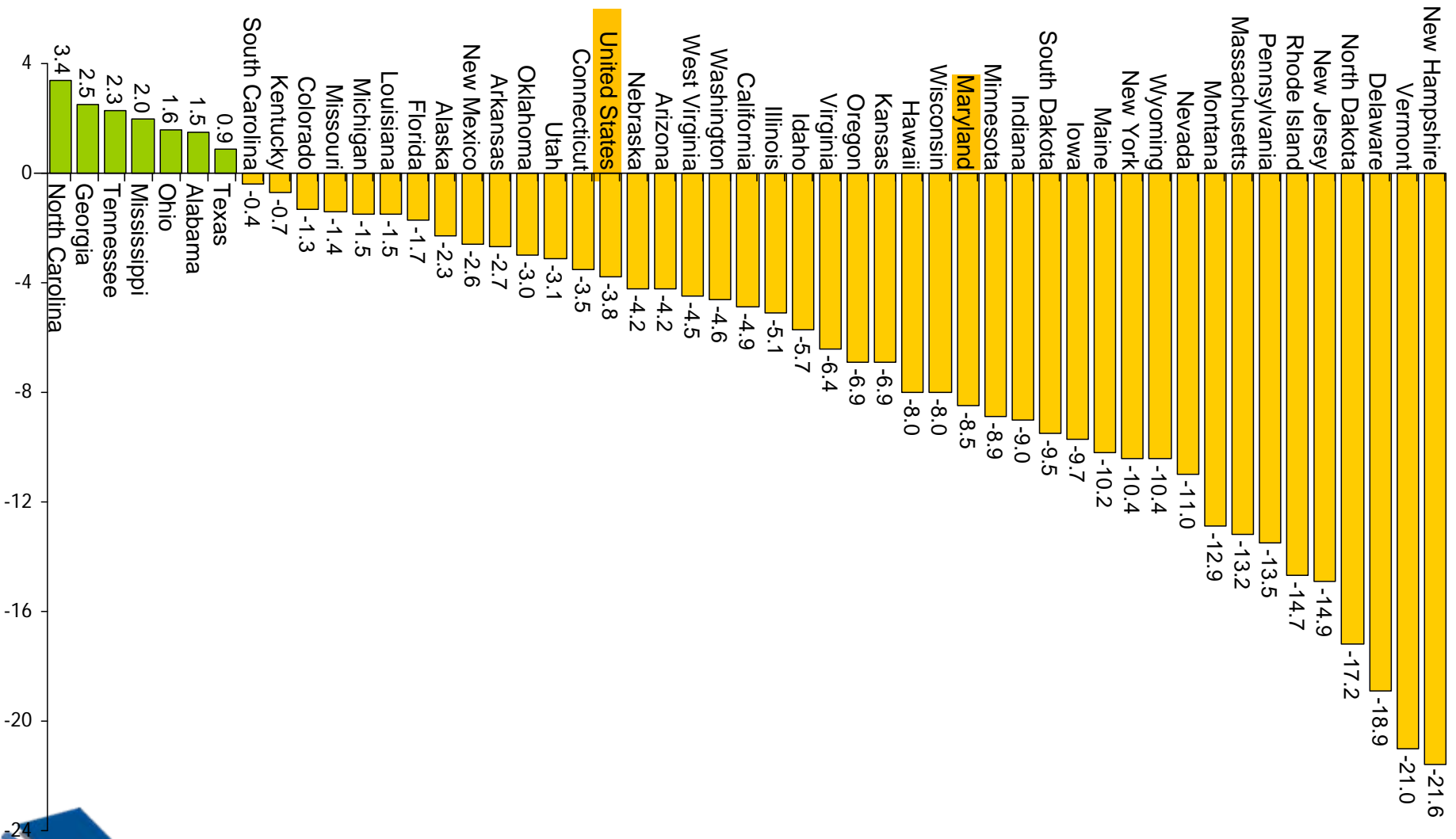


# College Participation Rates by State for Students from Low-Income Families, 2006

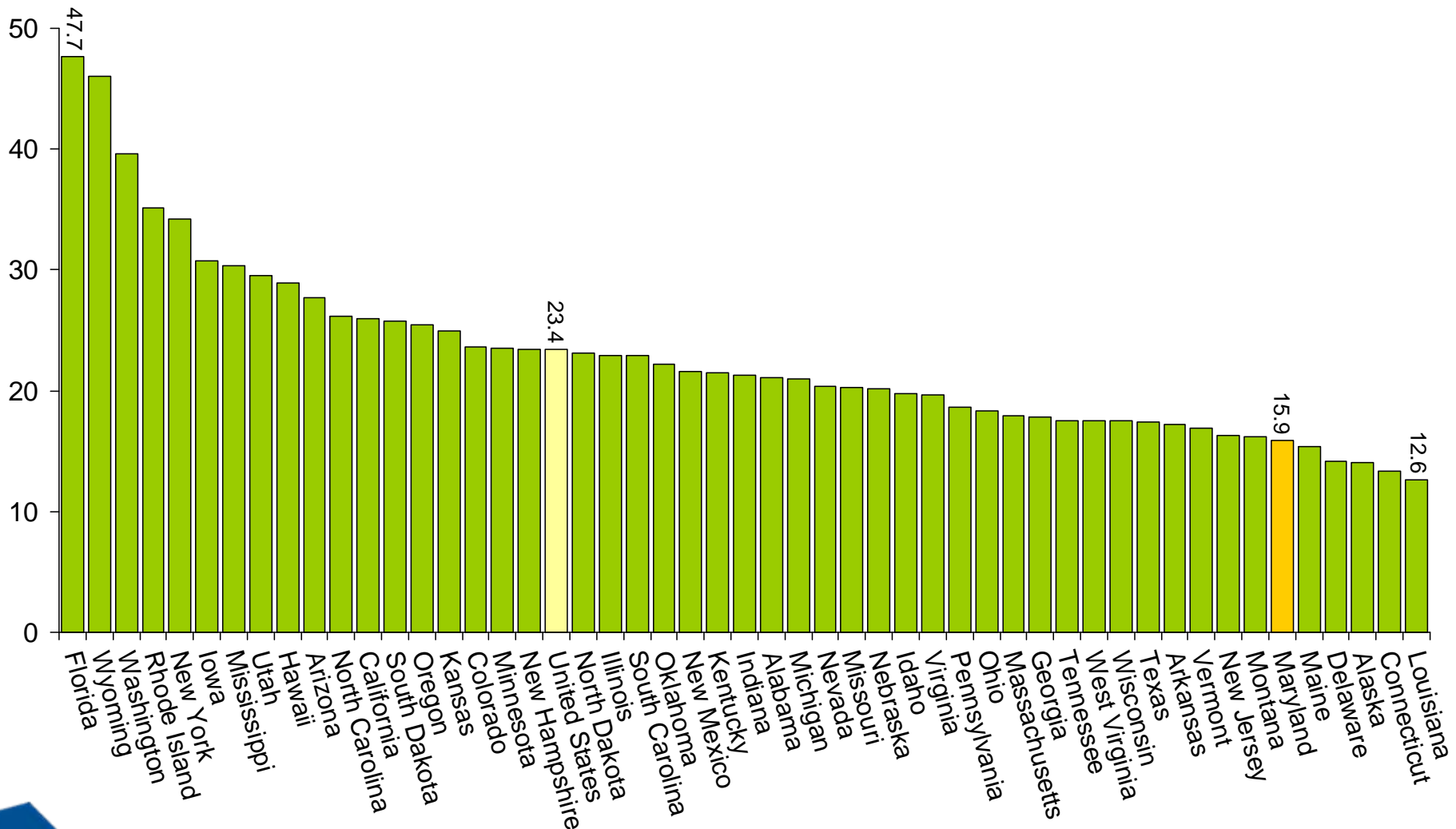


Source: Postsecondary Education Opportunity #188, February 2008

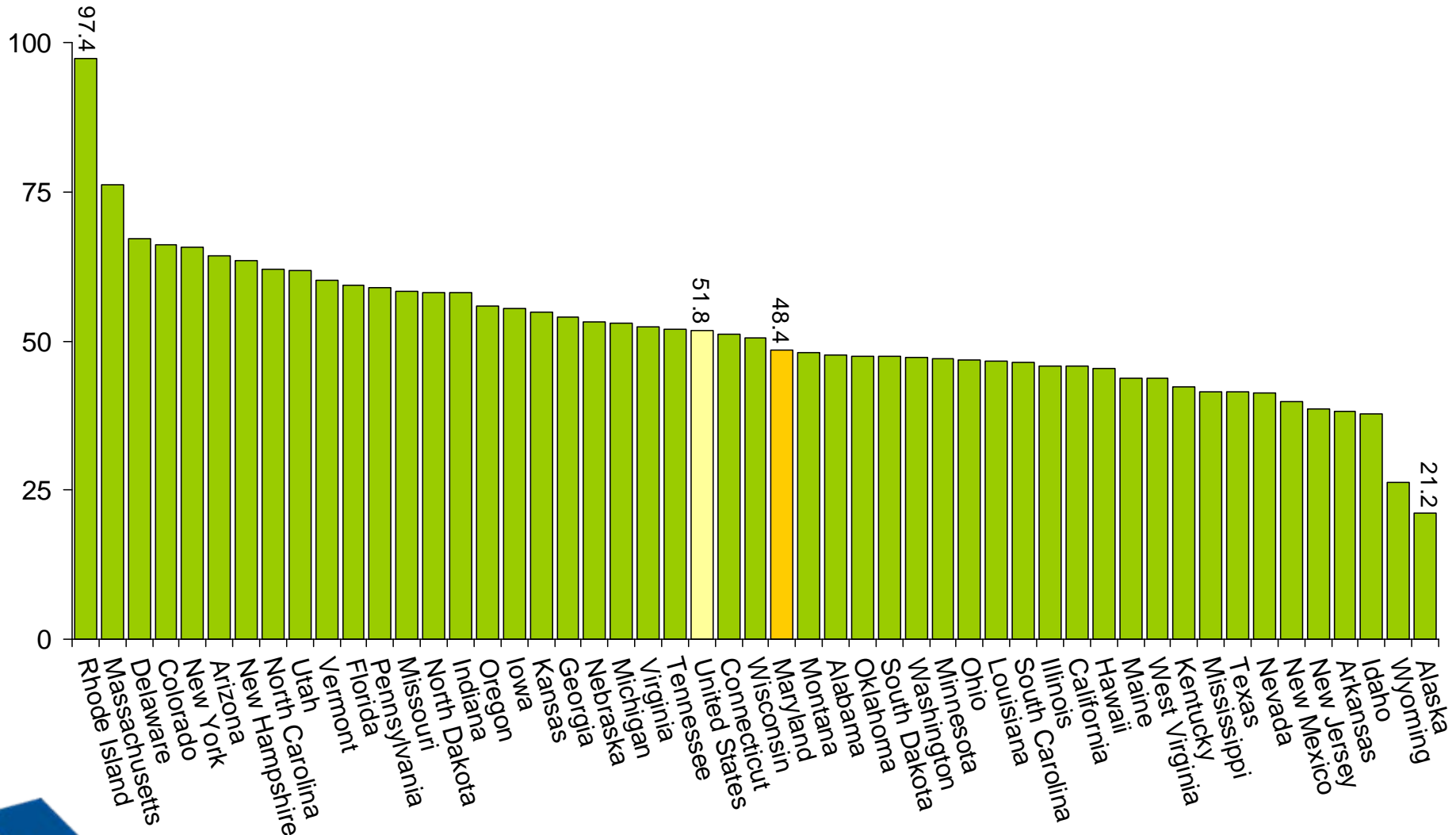
# Change in College Participation Rates for Students from Low-Income Families by State, 1999-2006



# Associate Degrees Awarded per 100 High School Graduates Three Years Earlier, 2004



# Bachelor's Degrees Awarded per 100 High School Graduates Six Years Earlier, 2004



Source: NCES-IPEDS Completions Survey, WICHE

# States' Ability to Produce Graduates vs. Ability to Keep & Attract Graduates

