

From High School and Into the Workforce

Examining Florida's Public Education Pipeline

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Toby Park
David Tandberg
FSU College of Education



Today's Presentation

- Focus of this study as commissioned by the Board
- Current progress and findings
- Next steps

Research Questions: Education Pipeline

- How many and what percentage of students who start high school actually complete?
- What are the odds of college attendance and completion for Florida 9th graders and how do those odds vary geographically and demographically?

Other Research Questions

- How many and what percentage of students go on to a postsecondary education, when do students initially enroll, and how does this break down by sector (Florida College System [FCS] vs. Florida State University System [SUS])?
- Once in postsecondary education how many and what percentage remain at their original institutions, how many and what percentage transfer to a different institution; how many remain enrolled in postsecondary education, in general, into their sophomore year; and how many and what percentage complete a postsecondary credential and how long does it take them?

Research Question (continued)

- For students with similar entering characteristics, how do odds of college completion vary by pathway and by initial sector/institution?
- For students with similar levels of academic preparation, how do college outcomes vary by family income/FRL status?
- For students with varying levels of high school academic preparation (grades, curriculum), what are employment outcomes for students who do not go to college?
- How do frequencies and intensities of employment while in college vary for students with different economic capacities and how does that affect odds of college success?
- How do labor market outcomes vary by educational pathway and outcome?

Current Progress

- Setting the stage: State comparison of education pipelines
- Preliminary analysis: Student level data
- New data request submitted to the FLDOE in Spring 2016; currently under review.

Public Education Pipeline

- High School Completion
- Entry into Postsecondary Education
- Persistence in Postsecondary Education
- Completion of Postsecondary Education
- Entry into the Workforce

High School Completion

- Data from the National Center for Education Statistics
- Common Core of Data (CCD)
- Calculation of Averaged Freshman Graduation Rates (AFGR):

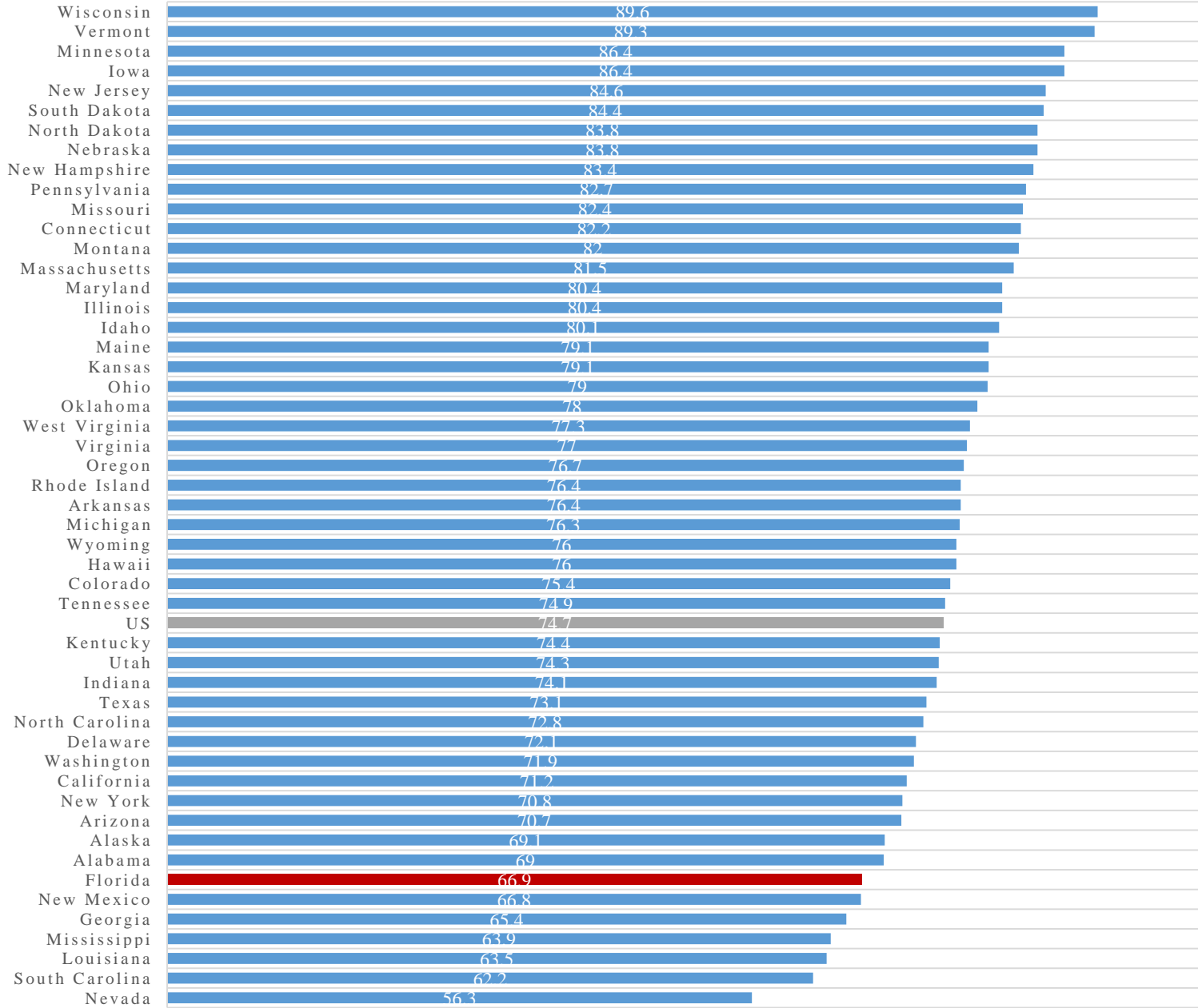
$$\frac{\text{number of regular high school diplomas in 2007-08}}{\text{average}(8^{\text{th}} \text{ graders in fall 2003, } 9^{\text{th}} \text{ graders in fall 2004, } 10^{\text{th}} \text{ graders in fall 2005)}}$$

High School Completion

National Average: 74.7%

Florida: 66.9%

Rank: 44

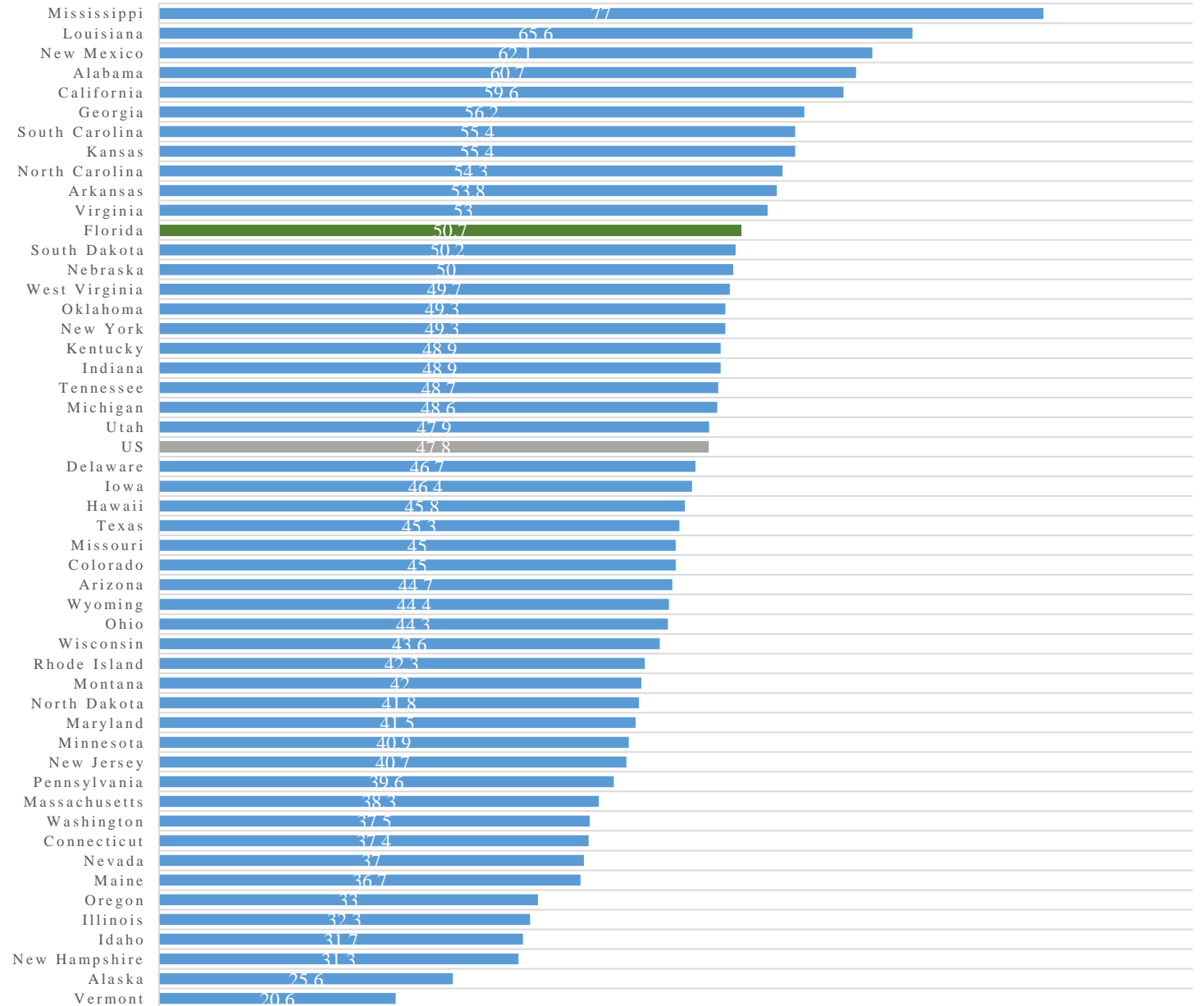


Entry into Postsecondary Education

- Data from the National Center for Education Statistics
- Integrated Postsecondary Education System (IPEDS)
- Calculation of postsecondary enrollment rate

$$\frac{\text{number of in-state first-time enrolled in public 2yr or 4yr in fall 2008}}{\text{number of regular high school diplomas in 2007-2008}}$$

Entry into Postsecondary Education



National Average: 47.8%

Florida: 50.7%

Rank: 12

Persistence in Postsecondary Education

- Data from IPEDS
- Calculated separately for 2yr and 4yr

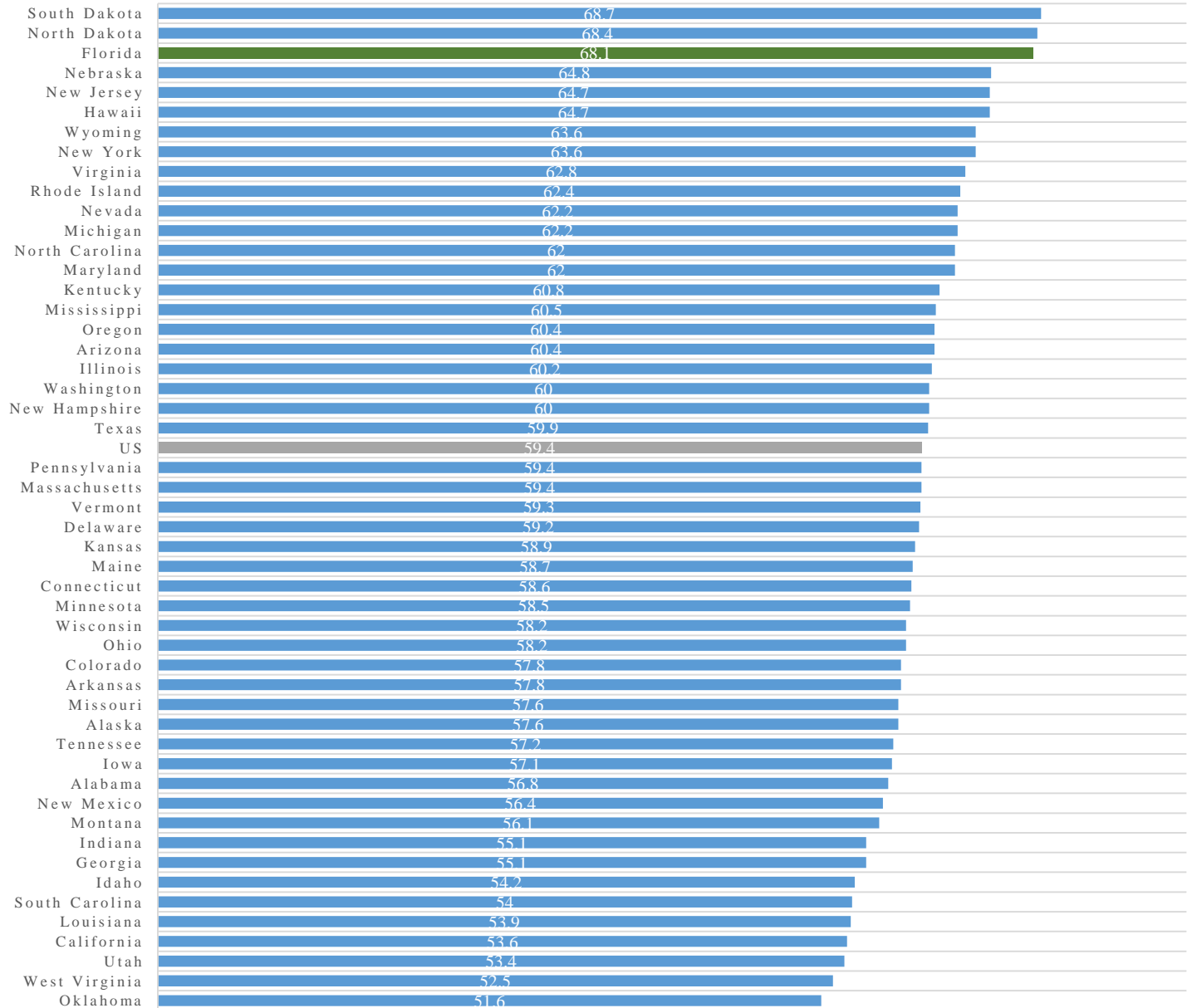
$$\frac{\text{number of first-time 2008 still enrolled in 2yr or 4yr in fall 2009}}{\text{number of first-time enrolled in 2yr or 4yr in fall 2008}}$$

Persistence in Postsecondary Education (Two-Year Colleges)

National Average: 59.4%

Florida: 68.1%

Rank: 3



Persistence in Postsecondary Education (Four-Year Universities)

National Average: 79.5%

Florida: 86.5%

Rank: 1



Completion of Postsecondary Credential

- Data from IPEDS
- Calculated separately for 2yr and 4yr

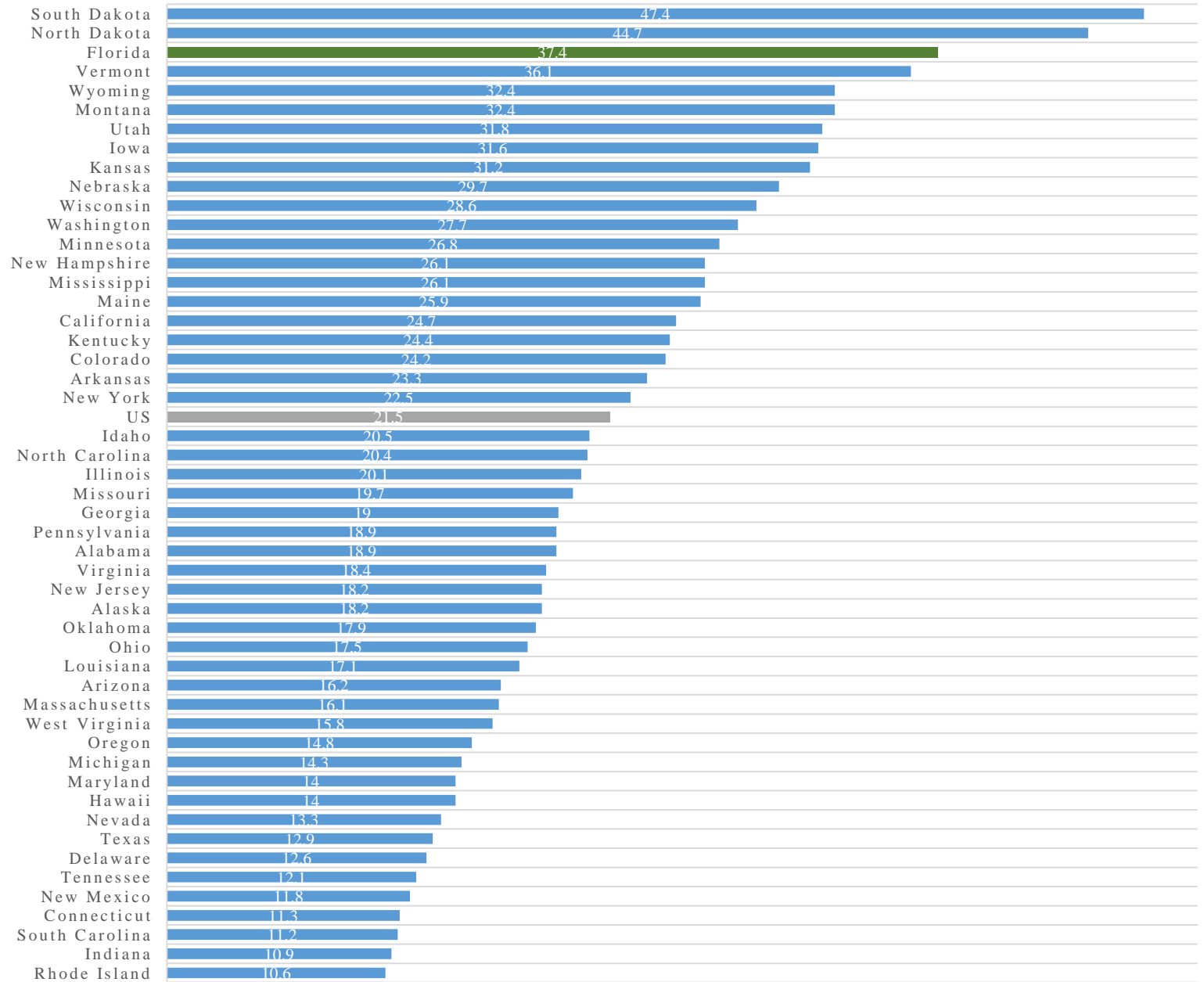
$$\frac{\text{number completing credential within 150\% of program}}{\text{number of first-time enrolled in 2yr or 4yr in fall 2008}}$$

Completion of Postsecondary Credential (Two-Year Colleges)

National Average: 21.2%

Florida: 37.4%

Rank: 3

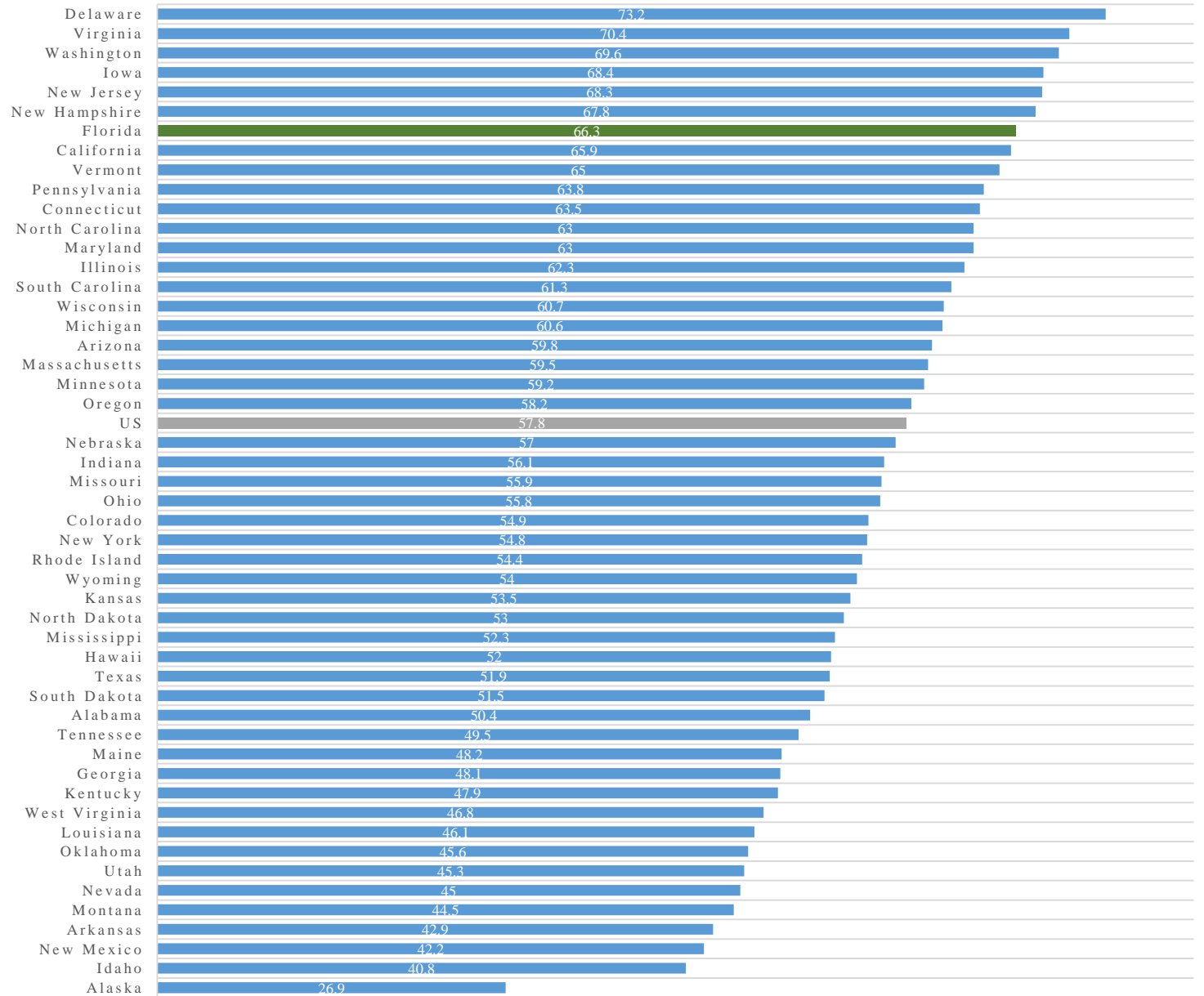


Completion of Postsecondary Credential (Four-Year Universities)

National Average: 57.8%

Florida: 66.3%

Rank: 7



Summary: State Level Analysis

- Florida leads the nation in persistence at four-year universities
- Postsecondary enrollment and graduate rates also very high
- High school completion rates among the lowest in the nation
- Look at this a different way...

Overall Public Education Pipeline

- Instead of examining success at each major juncture, it is possible to measure overall success.
- Beginning with 100 students who began 9th grade in fall 2004, how many:
 - Graduate from high school on time?
 - Directly enter a public college or university?
 - Are still enrolled their second year?
 - Graduate from a public college within 150% of time?

Overall Public Education Pipeline

	Of 100 9th Graders, How Many:	Graduate from High School On Time?	Directly Enter Any Public College?	Are Still Enrolled Their Second Year?	Graduate from Public College Within 150% Time?
Florida	100	67	34	26	17
US	100	75	36	25	15

Overall Public Education Pipeline

21
South Dakota
Virginia

20
Nebraska

19
California
Iowa
Kansas
Wisconsin

18
North Carolina
North Dakota

17
Delaware
Florida
Michigan
Mississippi

16
Colorado
Indiana
Louisiana
Pennsylvania

15
Alabama
Kentucky
Minnesota
Missouri
New Hampshire
Ohio
US
West Virginia

14
Arkansas
Montana
Utah
Washington
Wyoming

13
Arizona
Connecticut
Georgia
Maryland
New Jersey
Oklahoma
Rhode Island
South Carolina
Tennessee

<=12
Mass. (12)
New York (12)
Maine (11)
New Mexico (11)
Texas (11)
Vermont (11)
Hawaii (10)
Illinois (10)
Oregon (10)
Idaho (9)
Nevada (8)
Alaska (5)

Summary: Overall Educational Pipeline

- While relatively high among the states in terms of the overall health of the public education timeline, Florida still lags in terms of high school graduation rates.
- These state-level figures may mask additional trends for certain student groups (race/ethnicity and low income).
- Current status: preliminary analysis using previously released student-level data.
- Step for the future: fresh analysis of recent cohorts of Florida students.

Preliminary Student Level Analysis

- Preliminary analysis of a cohort of Florida high school students who graduated from high school in spring 2000.
- Tracked for 6 years through public postsecondary institutions.
- Disaggregated by race/ethnicity.
- Note: these figures are not for public release.

Postsecondary Enrollment Rates

- Overall: 53.61%
- White: 54.14%
- Hispanic: 56.31%
- Black: 48.18%
- Asian: 65.76%
- Low-Income: 45.35%

Postsecondary Credential Completion Rates

- Overall: 31.30%
- White: 36.43%
- Hispanic: 25.76%
- Black: 26.01%
- Asian: 44.92%
- Low-Income: 19.22%

Share of HS Graduates Who Complete PS Credential

- Overall: 16.78%
- White: 19.72%
- Hispanic: 14.51%
- Black: 12.53%
- Asian: 29.54%
- Low-Income: 8.72%

Summary: Preliminary Student Level Analysis

- The aggregate analysis masks some of sub-group trends.
- Particularly troubling may be the attainment of credentials for low-income students who may not be able to pay for additional years of higher education.

Next Steps

- Detailed analysis of student-level data to present descriptive information as well as apply advanced statistical techniques.
- Full report detailing the public education pipeline in Florida, including recommendations on improving educational attainment.
- Questions? Toby Park (tjpark@fsu.edu)

