



UNIVERSITY SYSTEM OF GEORGIA

Revising the Freshman Index & Minimum Admission Scores

Research & Policy Analysis

RAC-RA

March 20, 2019

SAT Background

Pre March 2016

March 2016-
Present

Fall 2020
entrants-forward

SAT
Format

Math

Cr. Reading

Writing

Math

EBRW

Math

Reading

Writing

System
Admission

Math \geq 400

Cr. Reading \geq 430

Math Test \geq 22

Reading Test \geq 24

= 400 on
old Math

= 430 on old
Cr. Reading

Sector
Admission

500 (HS GPA) + Cr. Reading + Math

Research	2500
Comprehensive	2040
State Univ.	1940
State Coll.	1830

500 (HS GPA) +
Reading Test Conv. + Math Test Conv.

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Math

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Math \geq 400

Cr. Reading \geq 430

Math Test \geq 22

Reading Test \geq 24

Create new freshman index
formula and sector and
system admission criteria
such that

- Concordance is eliminated
- Straight forward to students and parents
- Hold students harmless

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Sector
Admission

Goals

1. Develop Freshman Index that incorporates EBRW
2. Identify appropriate sector admission minimums for **FI^{new}**
3. Identify appropriate system admission minimums for EBRW and ACT Reading

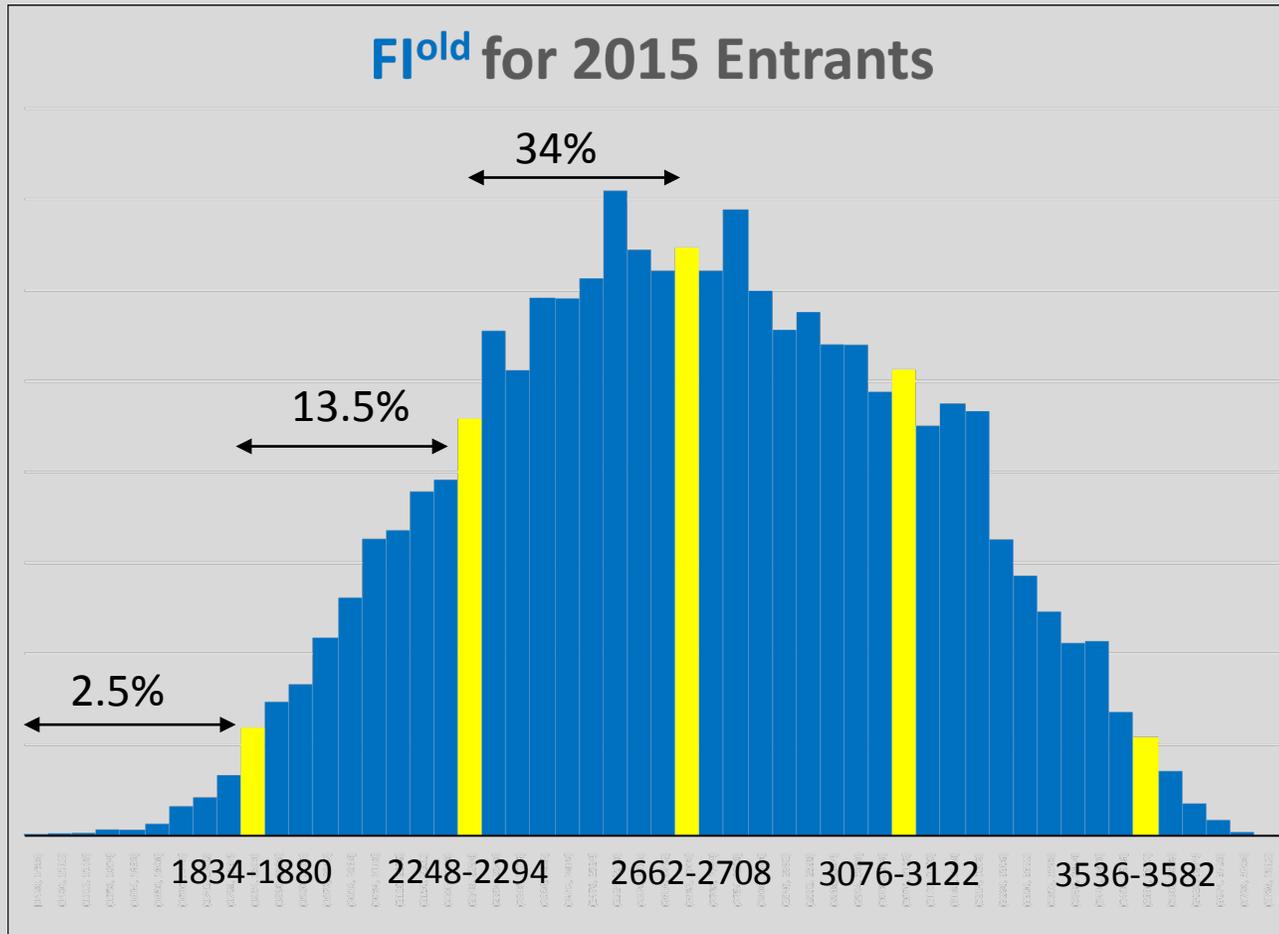


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Goal 1: Develop FJ^{new}



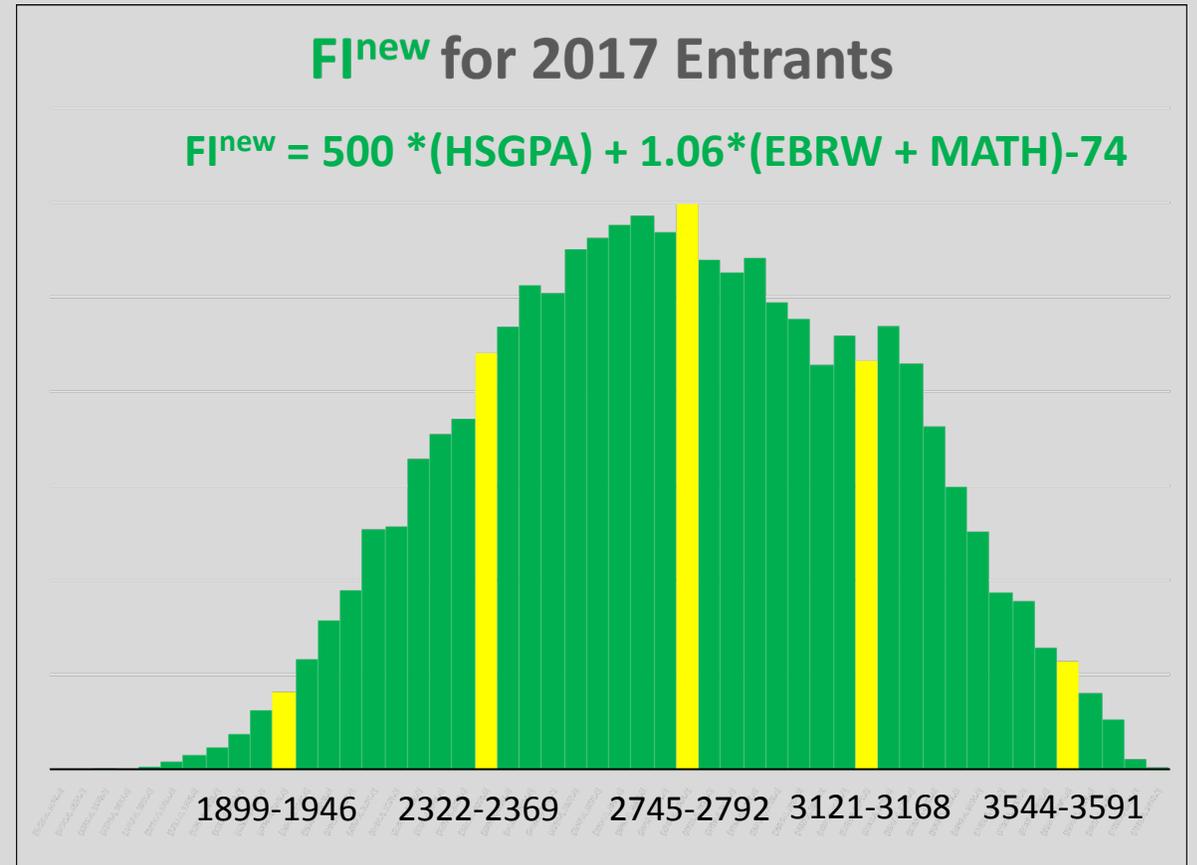
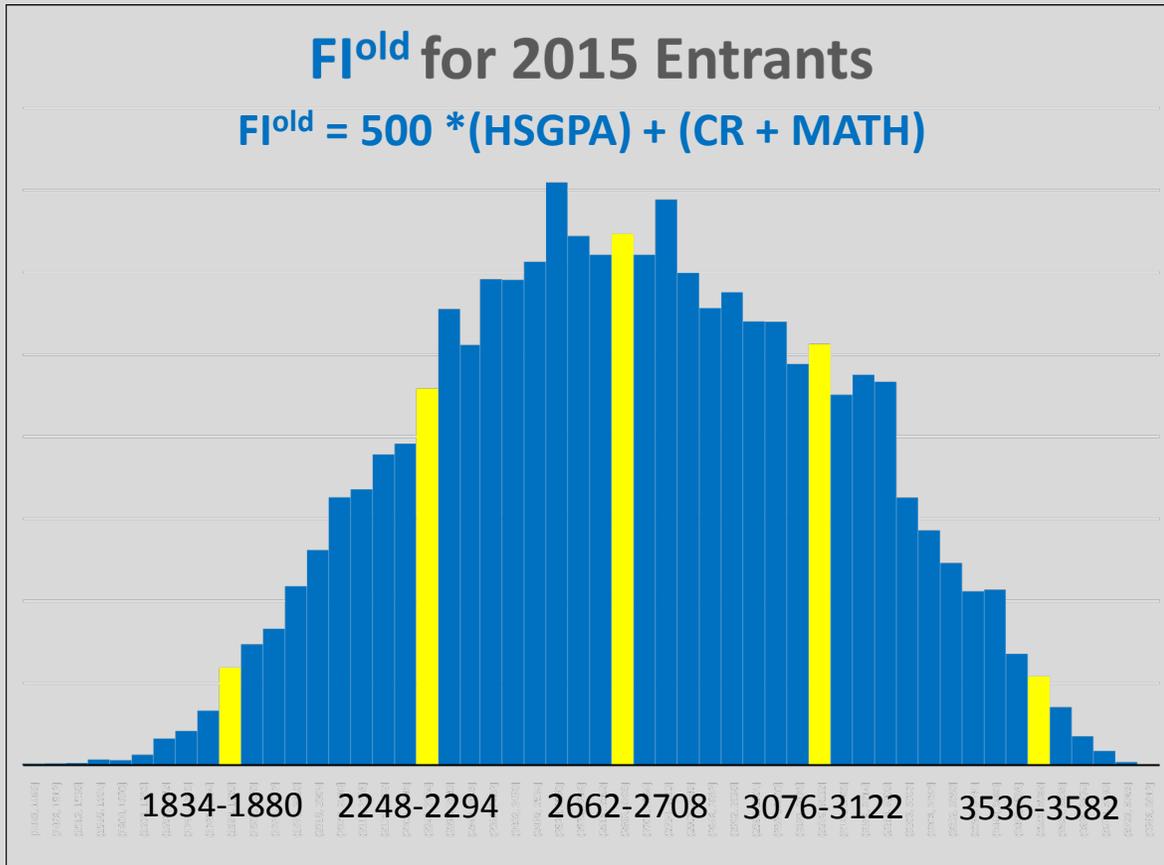
$$FJ^{old} = 500 * (HSGPA) + (CR + MATH)$$

1. Find avg score at the mean and ± 1 and ± 2 standard deviations
2. Create system of equations that match-*as best as possible*- FJ^{old} to FJ^{new} on these key points
3. Flexible formula

$$FJ^{new} =$$

$$500 * (HSGPA) + x * (EBRW + MATH) + y$$

Goal 1: Develop FI^{new}



Goal 1: Evaluate FI^{new}

For almost all students, $FI^{new} \geq FI^{old}$

In the few instances where it is not, FI^{new} is still large enough to gain admission to the same sector under FI^{old}

HS GPA	SAT Reading Test (converted to Old SAT CR)	SAT Math Test (converted to Old SAT Math)	SAT EBRW	SAT Math	Freshman Index
3.38	18 (310)	22 (400)			2400
3.38			410	440	2517



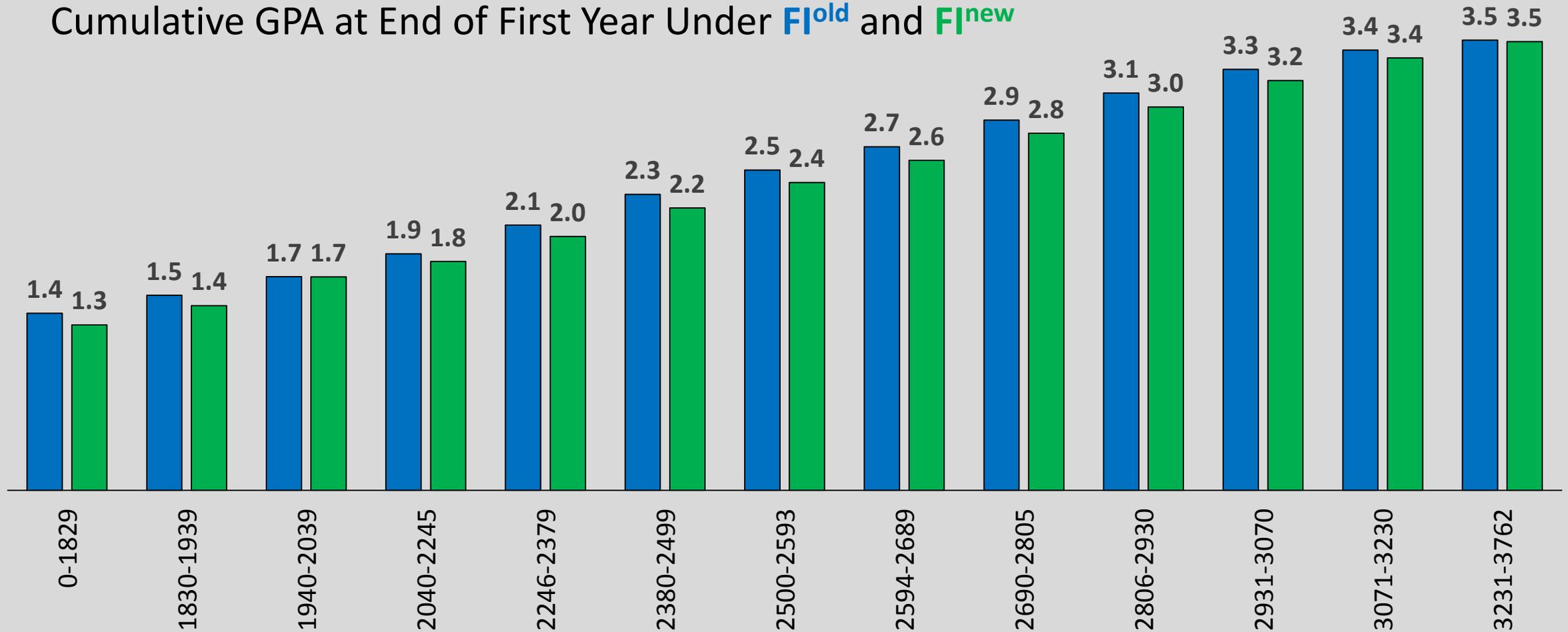
Goal 1: Evaluate FI^{new}

- Outcomes of students are similar across comparable values of FI^{new} and FI^{old}
 - Under FI^{new} , performance is slightly lower
 - Expected due to $FI^{new} \geq FI^{old}$



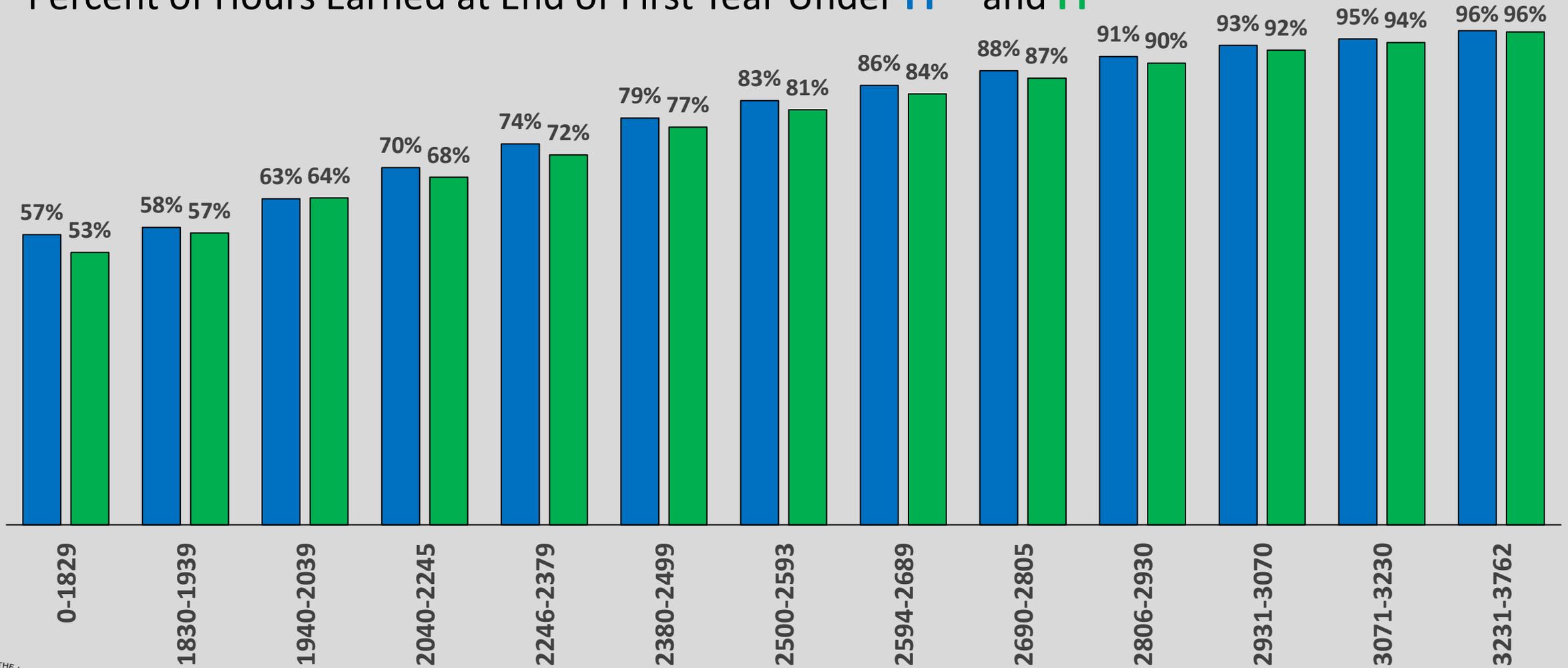
Goal 1: Evaluate F^{new}

Cumulative GPA at End of First Year Under F^{old} and F^{new}



Goal1: Evaluate F^{new}

Percent of Hours Earned at End of First Year Under F^{old} and F^{new}



Average % Hours Earned Overall: **84.5**



Goals

1. Develop Freshman Index that incorporates EBRW
2. Identify appropriate sector admission minimums for **FI^{new}**
3. Identify appropriate system admission minimums for EBRW and ACT Reading



Goal 2: Identify Sector Minimums

Logical Approach: keep sector minimum the same

- **FJ^{new}** constructed with this intent
- Students are eligible for the same or even more selective sector
- Composition and academic outcomes of students eligible for sector admission not meaningfully changed
- Continuity and ease of socialization



Goal 2: Identify Sector Minimums

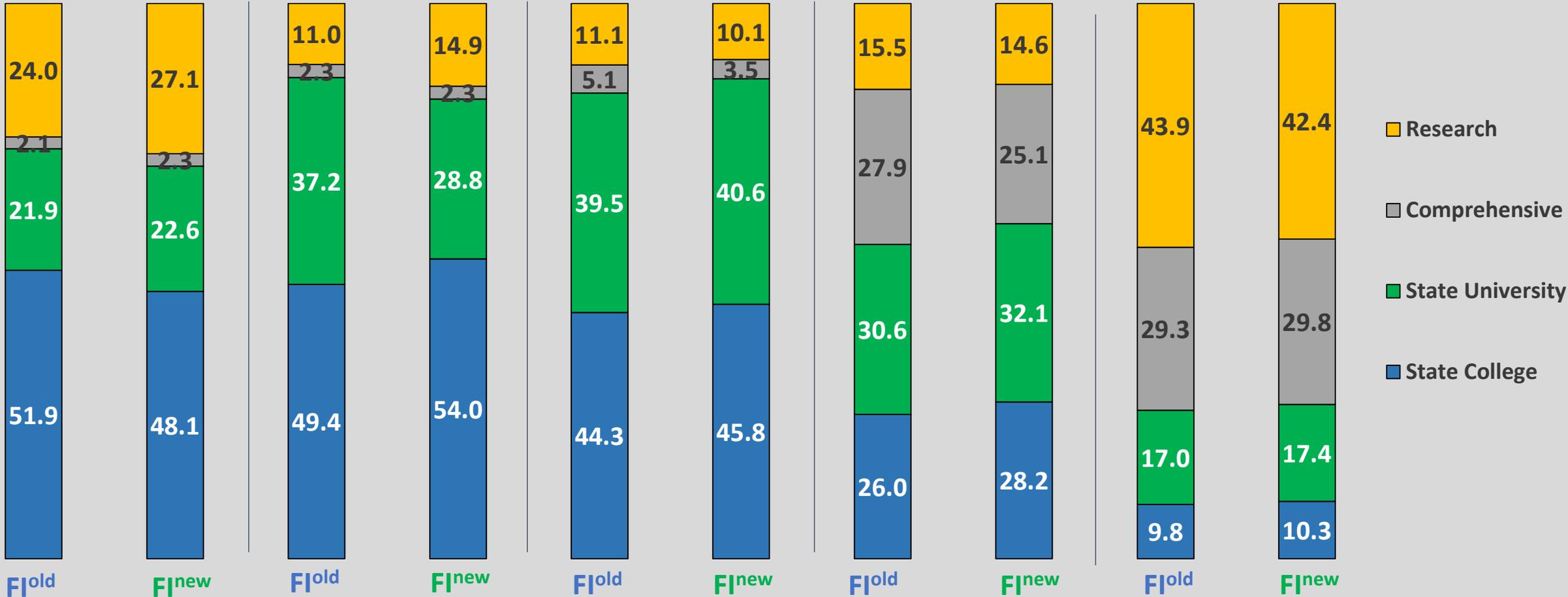
	# admitted under FI^{old}	# admitted under FI^{new}	# now admitted under FI^{new}	# now not admitted under FI^{new}
Research (2500)	18,797	19,936	1,151	12
Comprehensive (2040)	26,788	27,141	363	10
State Univ. (1940)	27,519	27,723	214	10
State Colleges (1830)	27,946	28,041	96	1

	FI^{old}	FI^{new}
$FI < 1830$	233	138



Goal 2: Identify Sector Minimums

Fall 2017 Sector Enrollment Based on FI Score Under FI^{old} and FI^{new}



N/A (0-1829)

State Colleges (1830-1939)

State Universities (1940-2039)

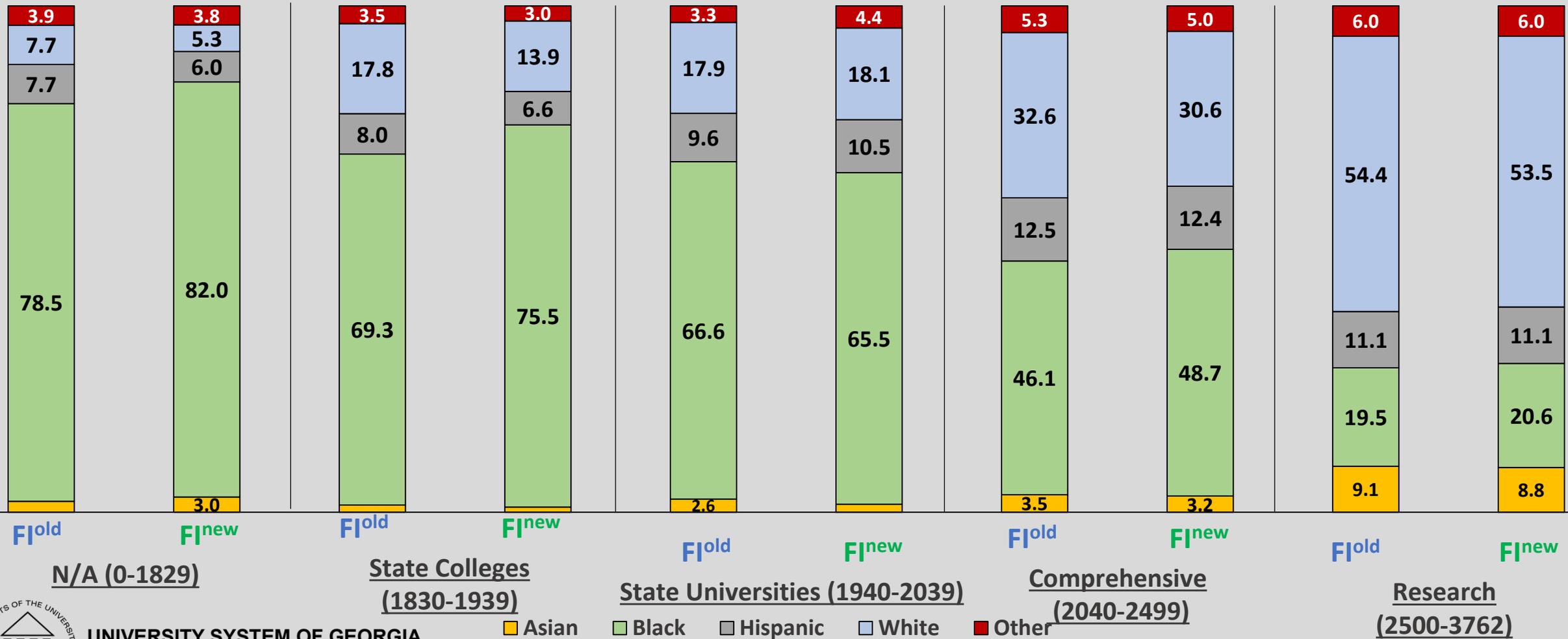
Comprehensive (2040-2499)

Research (2500-3762)

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Goal 2: Identify Sector Minimums

Fall 2017 Cohort IPEDS Race & Ethnicity Code Enrollment Under F^{old} and F^{new}



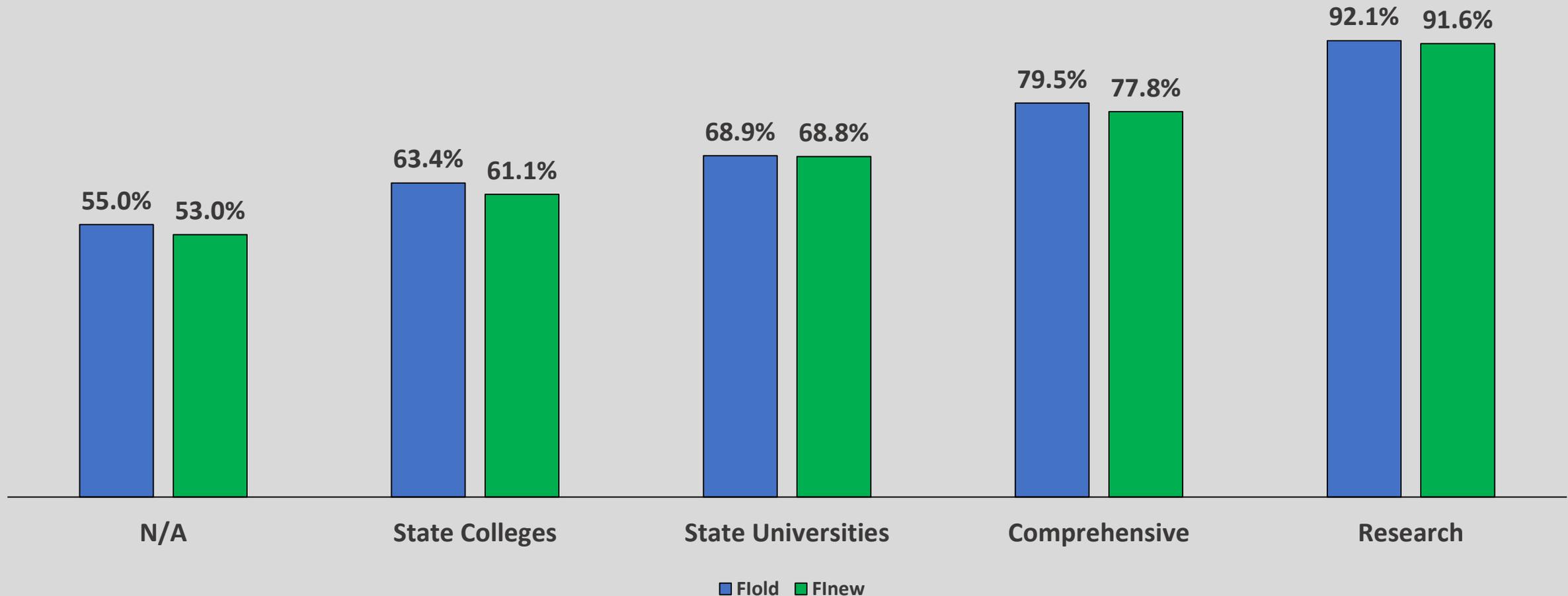
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Asian Black Hispanic White Other

Research (2500-3762)

Goal 2: Identify Sector Minimums

Percent of Students who Passed ENGL 1101 Under **F^{old}** and **F^{new}**



Average Pass Rate Overall: **85.6%**



Goals

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Goal 3: System Minimum Scores for EBRW and ACT Reading

Minimum Scores for Admission to USG			
Old SAT	Math (400)	Cr. Reading (430)	
New SAT Section	Math (440)	EBRW	
ACT	Math (17)	English (17)	Reading

Approach

- Examine outcomes at known minimum score for old SAT (Fall 15)
- Find minimum scores for new SAT (Fall 17) that produce same outcomes at the Fall 15 minimum



Goal 3: System Minimum Scores for EBRW

Average Outcomes at SAT Minimum Scores (for population that has met Math requirement)			
	2015 SAT Cr. Reading	2017 SAT Reading Test	2017 SAT EBRW
Minimum Score	430	24	
Avg GPA	2.39	2.37	
Avg % Hours Earned	81.1	79.4	
% Took English 1101	90.4	87.6	
% Passed English 1101	85	83.7	
% Students at or above min score	90.8	92.1	



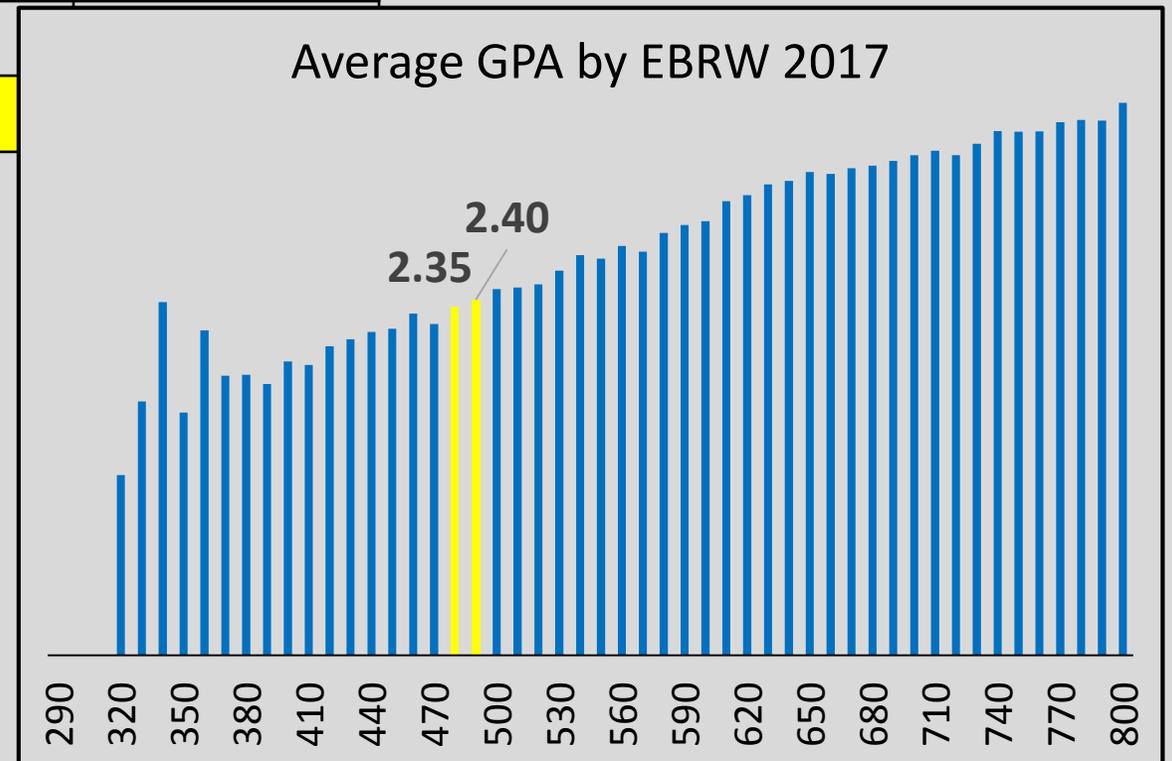
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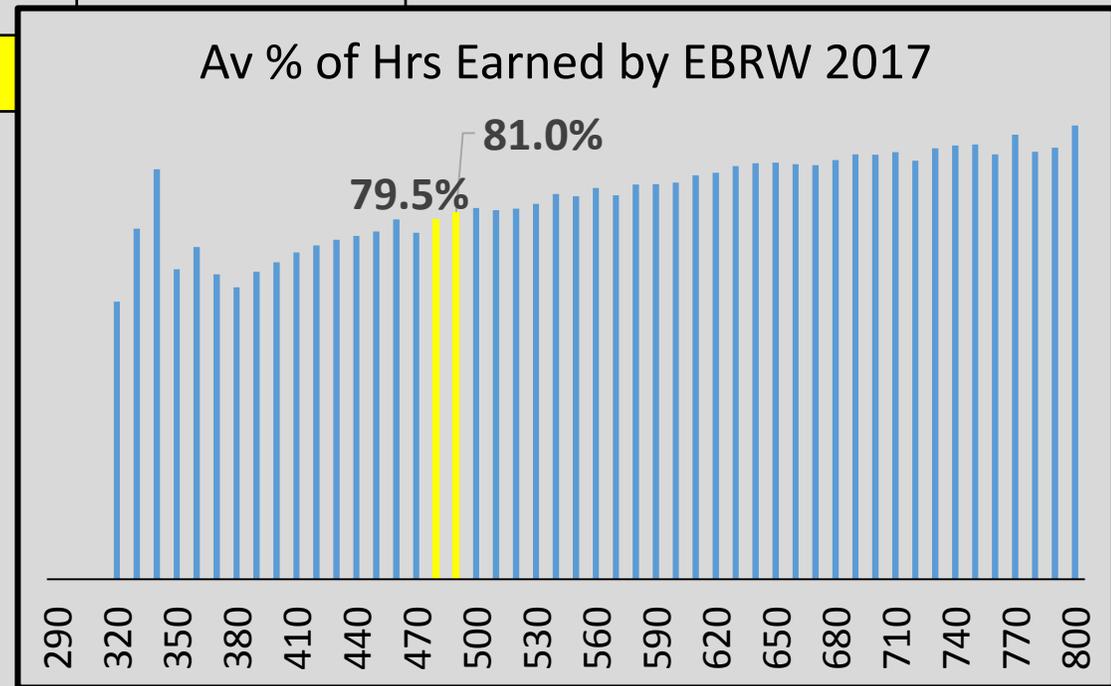
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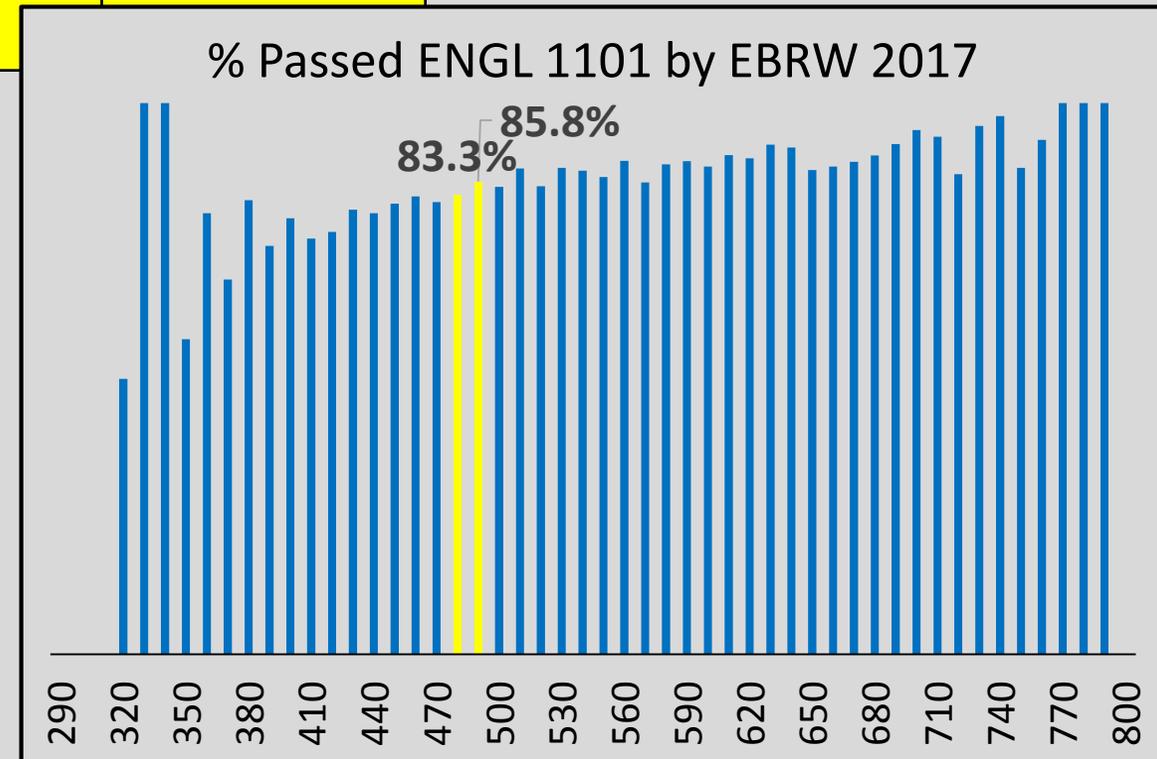
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Goal 3: System Minimum Scores for EBRW

Average Outcomes at SAT Minimum Scores (for population that has met Math requirement)				
	2015 SAT Cr. Reading	2017 SAT Reading Test	2017 SAT EBRW	2017 SAT EBRW
Minimum Score	430	24	480	490
Avg GPA	2.39	2.37	2.35	2.40
Avg % Hours Earned	81.1	79.4	79.5	81
% Took English 1101	90.4	87.6	87.9	86.2
% Passed English 1101	85	83.7	83.3	85.8
% Students at or above min score	90.8	92.1	89.0	86.1



Goal 3: System Minimum Scores for ACT Reading

Average Outcomes at or Above ACT Minimum Scores 2017 (for population that has met Math requirement)			
	ACT English ≥ 17	ACT English ≥ 17 <u>and</u> Reading ≥ 17	ACT English ≥ 17 <u>or</u> Reading ≥ 17
# (%) meeting or exceeding requirements	6,536 (75%)	6,301 (72%) (235 no longer admitted)	7,064 (81%) (528 new “admits”)
Avg GPA	3.15	3.18	3.11
Avg % Hours Earned	91.8	92.1	91.1
% Took English 1101	46.6	45.2	49.3
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ACT	Math (17)	English (17)	Reading (17)

- SAT: Math 440 and EBRW 480
 - EBRW 480 concords with ACT English + Reading = 34
- ACT: Math 17 and (English 17 or Reading 17)



Conclusion

Fall 2020 entrants-forward

	SAT Section (new)	ACT
System Admission	Math (440) and EBRW (480)	Math (17) and English (17) or Reading (17)

Sector Admission Freshman Index	Research	Comp	State U	State College
SAT: $500 * (\text{HS GPA}) + 1.06 * (\text{EBRW} + \text{MATH}) - 74$ ACT: $500 * (\text{HS GPA}) + (\text{ACT} * 42) + 88$	2500	2040	1940	Open Access



Questions?

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