



# Financial Aid Optimization Analysis

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Montana State University - Bozeman  
November 2021  
Census Analysis

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# 1 National Landscape

## 2 Full-Time Freshmen Summaries

## 3 Model Population Analysis

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National Landscape

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**Full-Time Freshmen Summaries**

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Model Population Analysis

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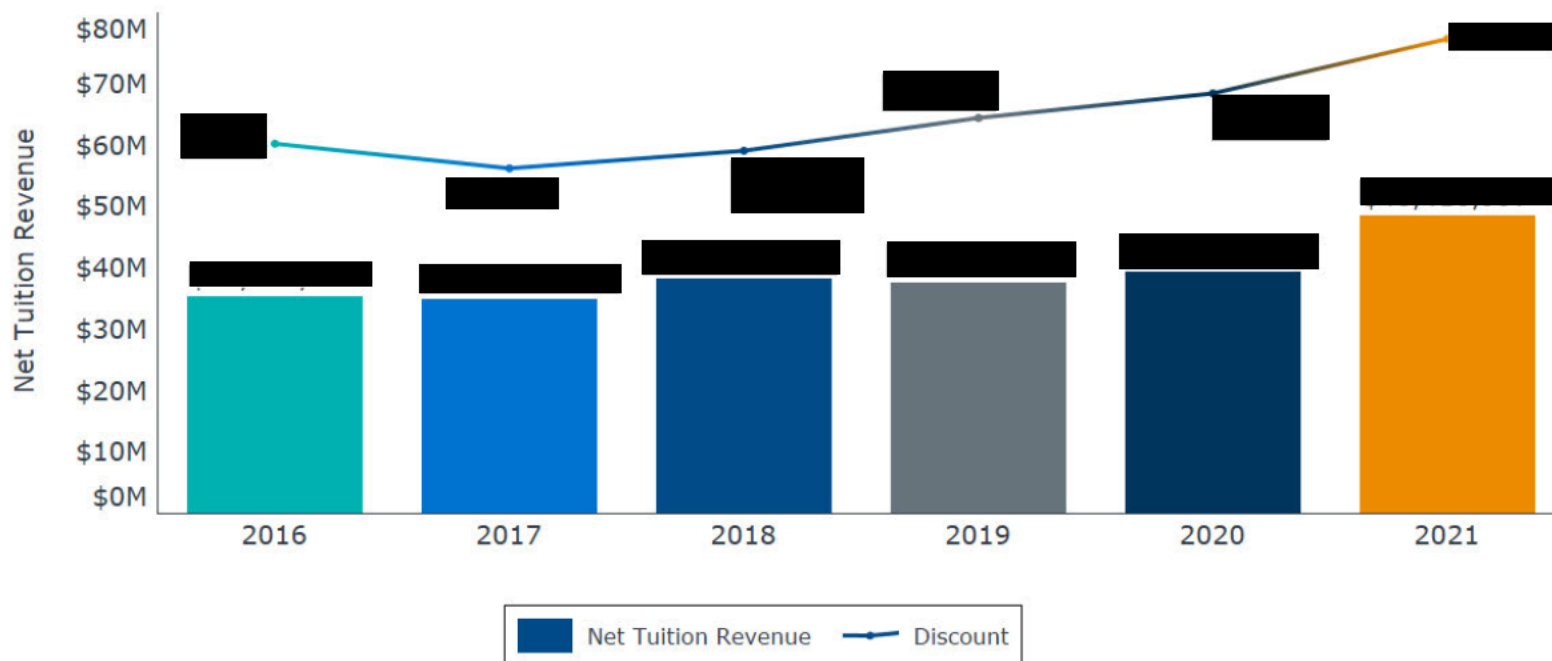
Appendix



# Net Tuition Revenue and Discount



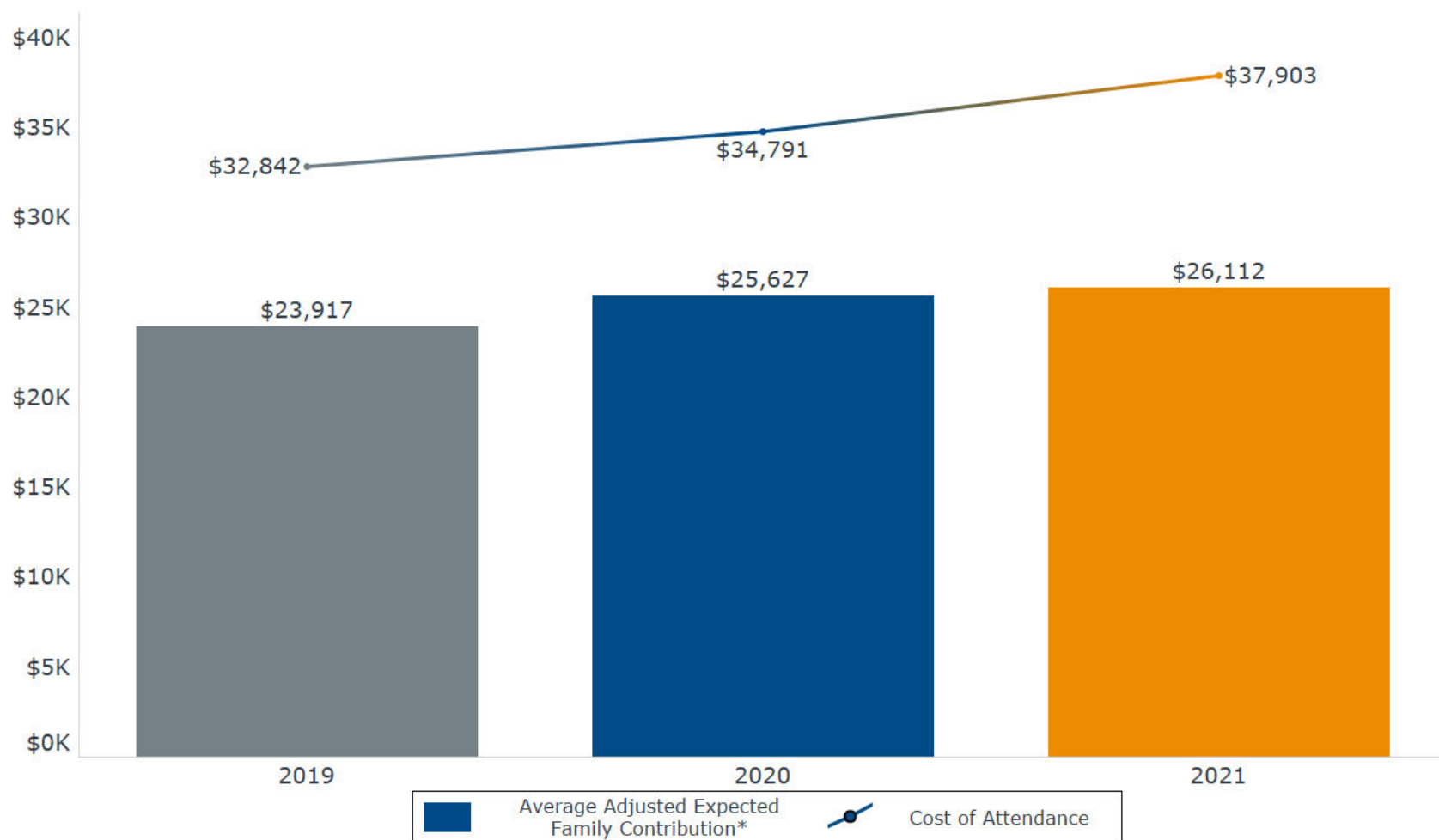
## Full-Time Freshmen



Enrollment:	3,335	3,092	3,209	3,195	3,100	3,691
Annual Tuition and Fees:	\$15,161	\$15,696	\$16,855	\$17,284	\$19,200	\$21,292
Avg Net Revenue per Student:						
Average GPA:	3.39	3.46	3.45	3.49	3.52	3.52

# Average Expected Family Contribution

## Full-Time Freshmen



\*Capped at yearly budget. Full budget imputed for non-aid applicants.

\*\*These comparisons are for enrolled students only.

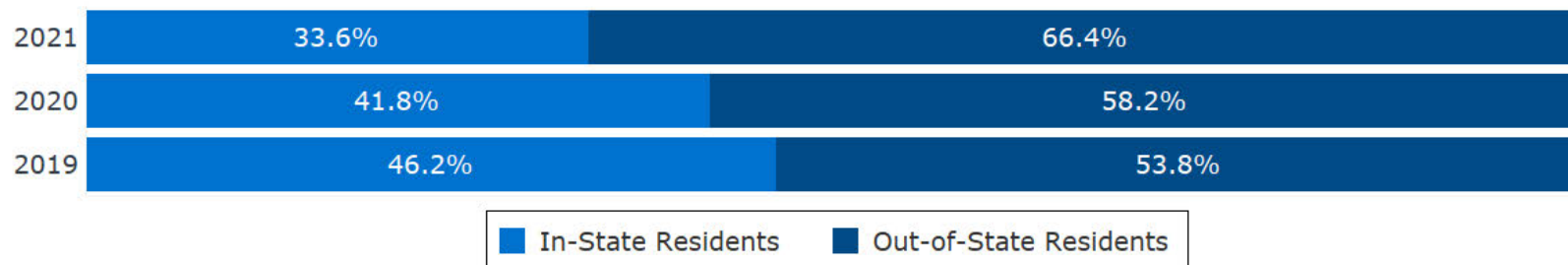
Census Analysis - Data as of 9/21/2021

# Demographic Comparisons

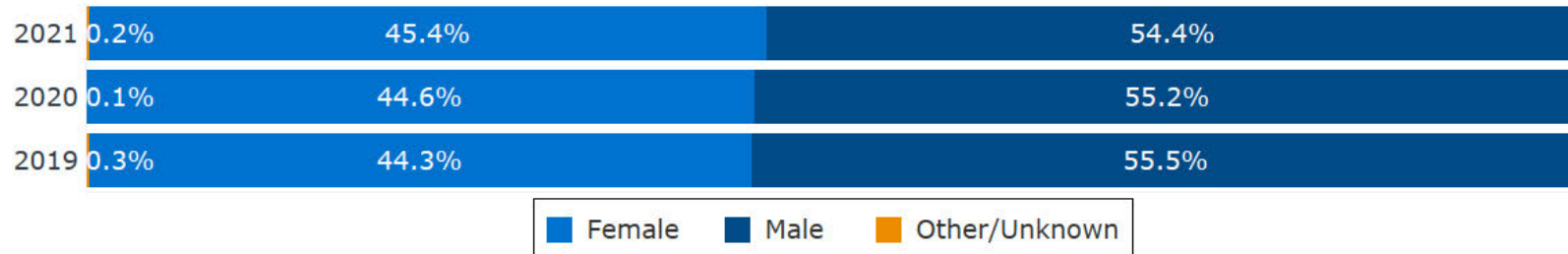


## Full-Time Freshmen

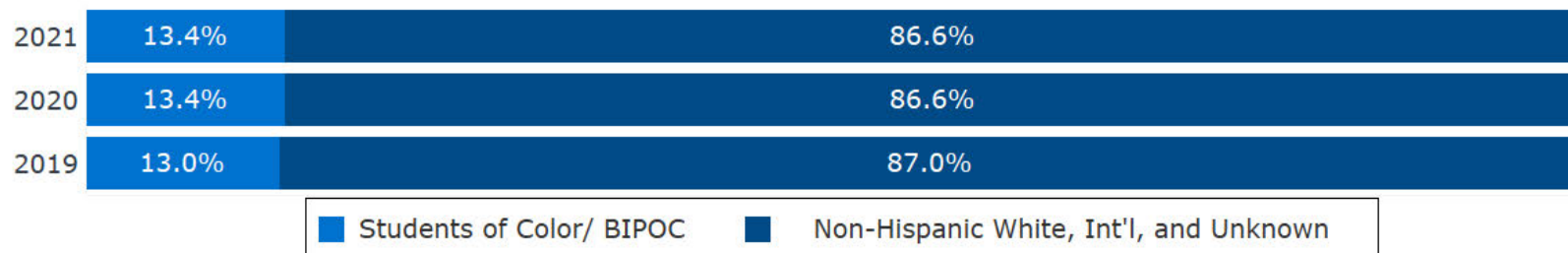
### State Residency



### Gender



### Racial and Ethnic Diversity

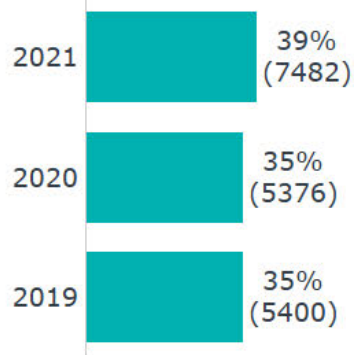


# Aid Application Status



## Full-Time Freshmen

### Domestic Admits

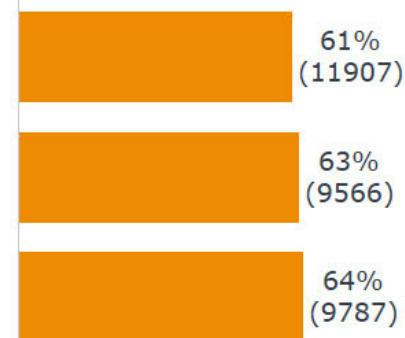


### Non-Aid Applicants (No FAFSA Received)

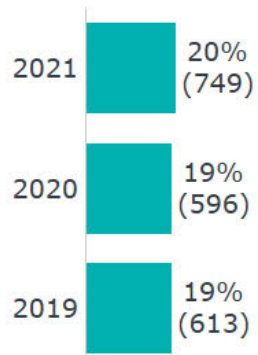


### Non-Aid Applicants (FAFSA Received)

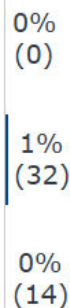
### Aid Applicants



### Enrolled Domestic Students

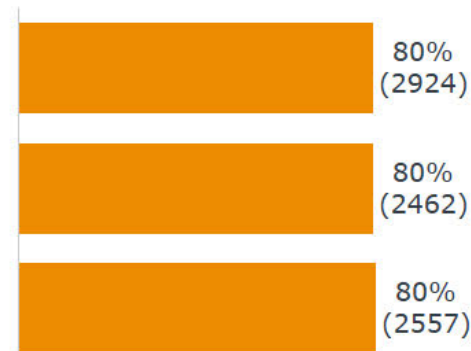


### Non-Aid Applicants (No FAFSA Received)



### Non-Aid Applicants (FAFSA Received)

### Aid Applicants

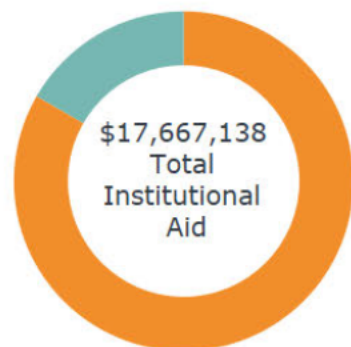


% = Proportion of Students by Year      (#) = Number of Students

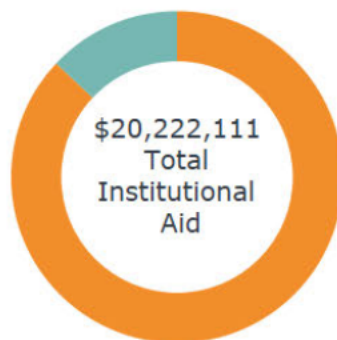
# Institutional Aid Summary



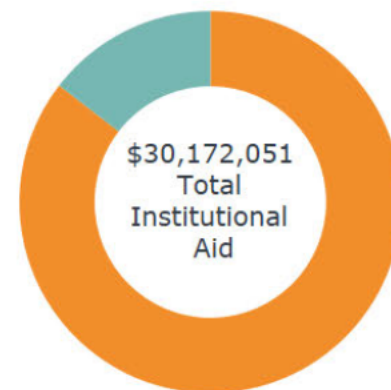
## Full-Time Freshmen



**2019**



**2020**



**2021**



	2019	2020	2021
Enrolled	3195	3100	3691
Discount			
Merit Aid			
Other Institutional Aid*			
Total Institutional Aid	\$17,667,138	\$20,222,111	\$30,172,051

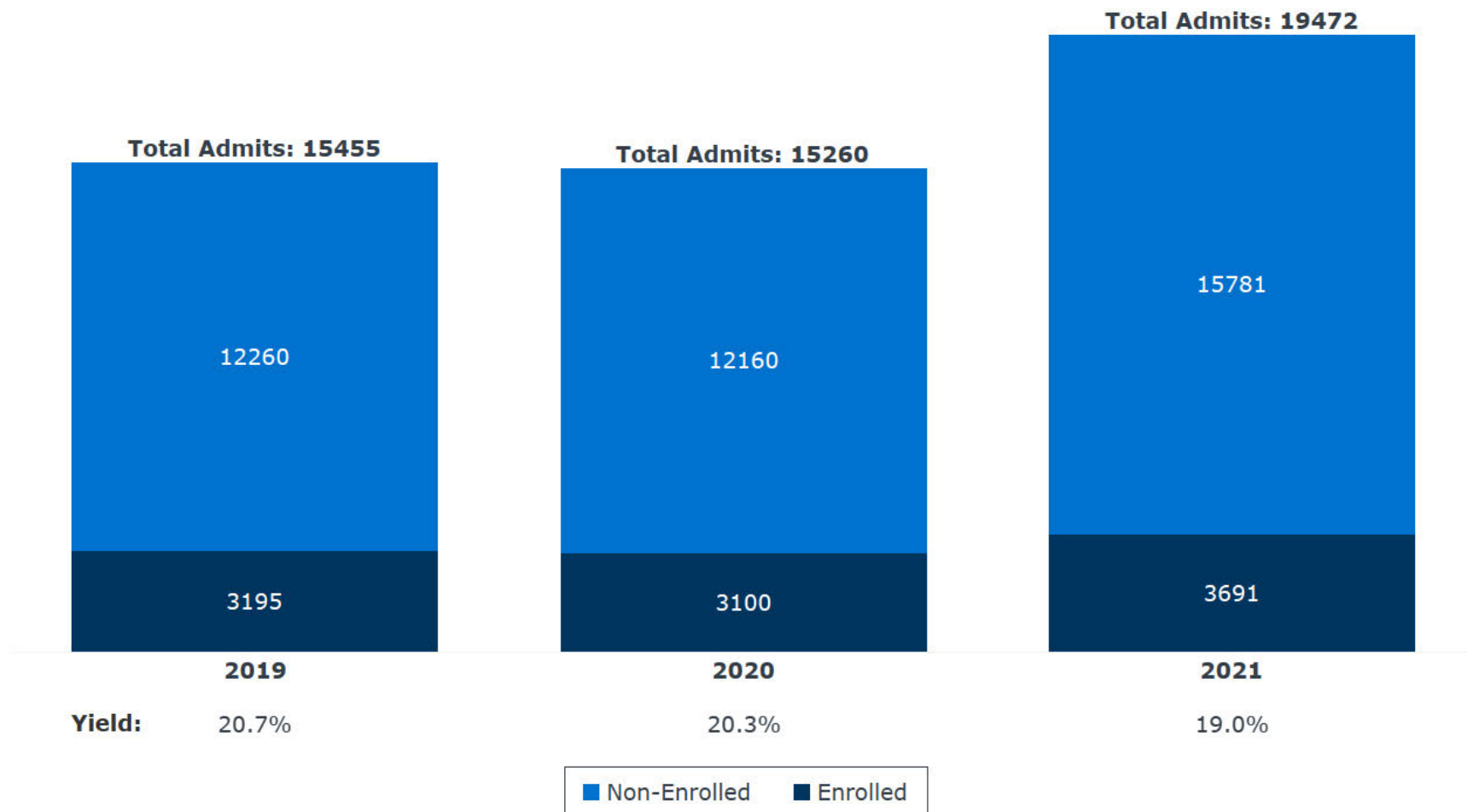
\*Other institutional aid includes uncategorized institutional aid and athletic scholarships, if applicable. This total does not include waivers.

Census Analysis - Data as of 9/21/2021

# Enrollment Summary



## Full-Time Freshmen



# Aid Summary by Fund Type



## Full-Time Freshmen

Merit Awards	2019	2020	2021
Admit	10,712	10,245	16,858
Enrolled	2,357	2,373	3,195
Yield	22.0%	23.2%	19.0%
Average Merit Aid			
Merit Aid			

## Other Institutional Awards

Admit	1,028	1,009	999
Yield	93.4%	88.5%	87.4%
Enrolled	960	893	873
Average Other Inst. Aid			
Total Other Inst. Aid			



# Summary of Records



*Summary of Records Chosen for Analysis, Current Year*

	Admit	Enrolled	Yield	Institutional Gift Aid	Net Tuition Revenue	Discount
<b>All New Students</b>	20775	4271	20.6%	\$30,881,514		
<b>Transfer</b>	1303	580	44.5%	\$709,463		
<b>Full-Time Freshman Total</b>	19472	3691	19.0%	\$30,172,051		
Athletes	39	39	100.0%	\$671,856		
Internationals	77	12	15.6%	\$13,340		
Independents	186	71	38.2%	\$283,500		
No Academic Info	51	4	7.8%	\$23,100		
All	353	126	35.7%	\$991,796		
<b>Model Population</b>	19119	3565	18.6%	\$29,180,255		



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National Landscape

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Full-Time Freshmen Summaries

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**Model Population Analysis**

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Appendix

# Parameters for Calculation of Academic Ranks



## Model Population

### High School GPA Points

GPA of at Least	Points	GPA Record Count
[REDACTED]	1	1839
	2	1862
	3	2028
	4	1738
	5	2033
	6	1663
	7	2056
	8	1410
	9	3
	10	4487
Total Values:		19119

x2

### High School Test Points

Test Score of at Least	Points	Test Record Count
[REDACTED]	1	2062
	2	1974
	3	1824
	4	2143
	5	1901
	6	2107
	7	1785
	8	1620
	9	1212
	10	2491
Total Values:		19119

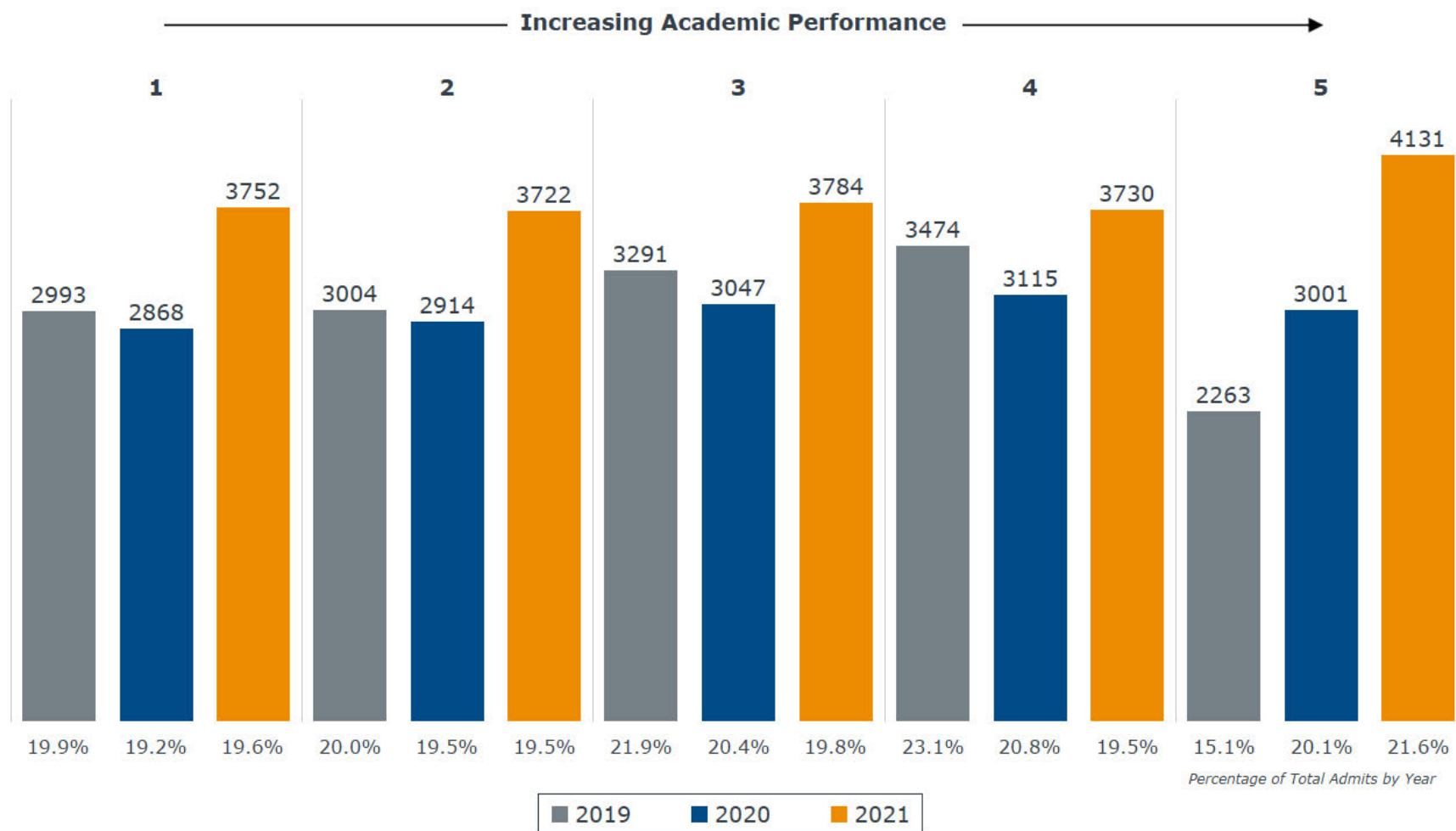
## Academic Index

Total Points of at Least	Academic Rank	Academic Index Record Count	Average GPA	Average Test
[REDACTED]	1	3752	[REDACTED]	
	2	3722		
	3	3784		
	4	3730		
	5	4131		

# Admits by Academic Rank



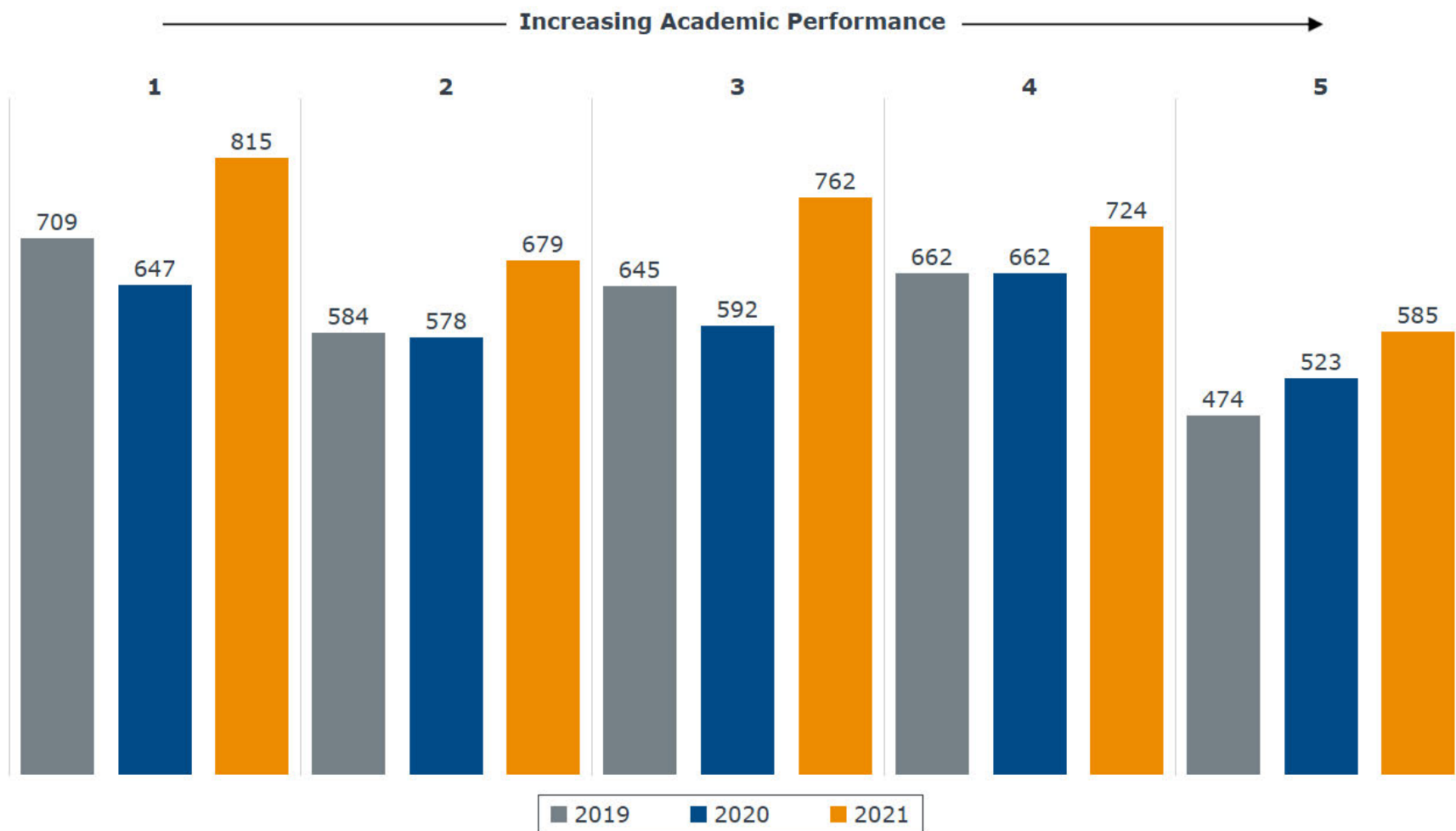
## Model Population



# Enrolled by Academic Rank



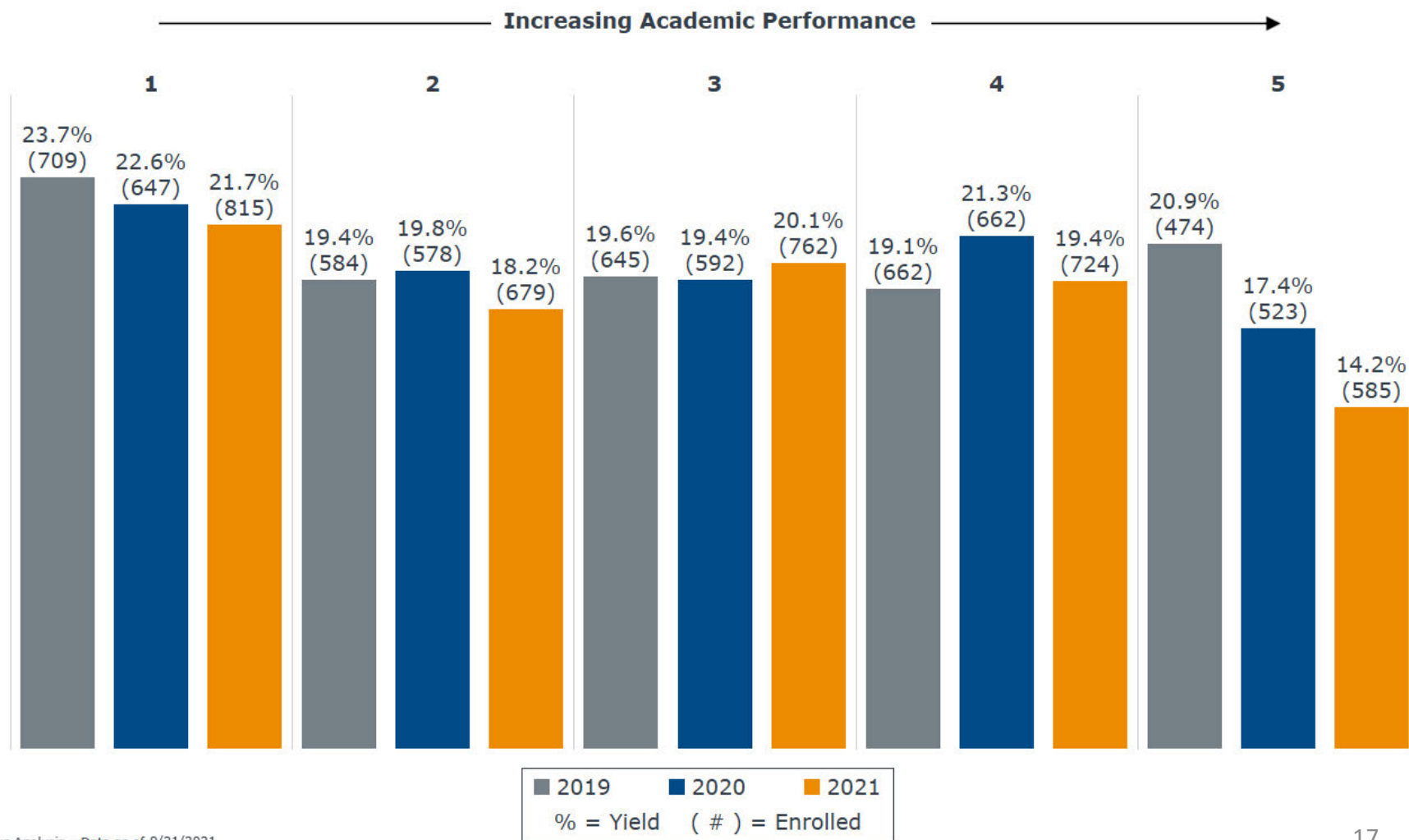
## Model Population



# Yield by Academic Rank

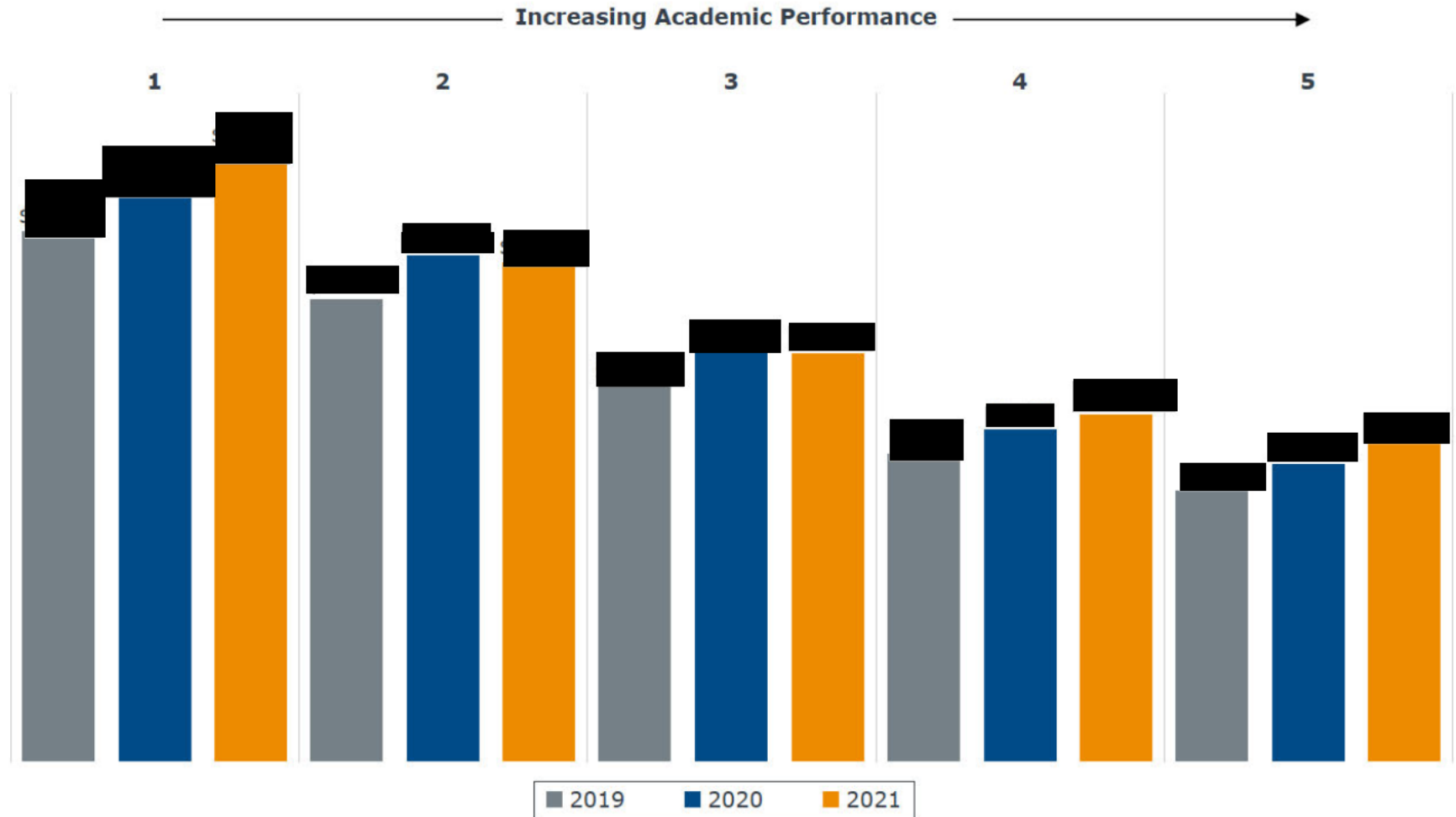


## Model Population



# Average Net Tuition Revenue of Enrolled by Academic Rank

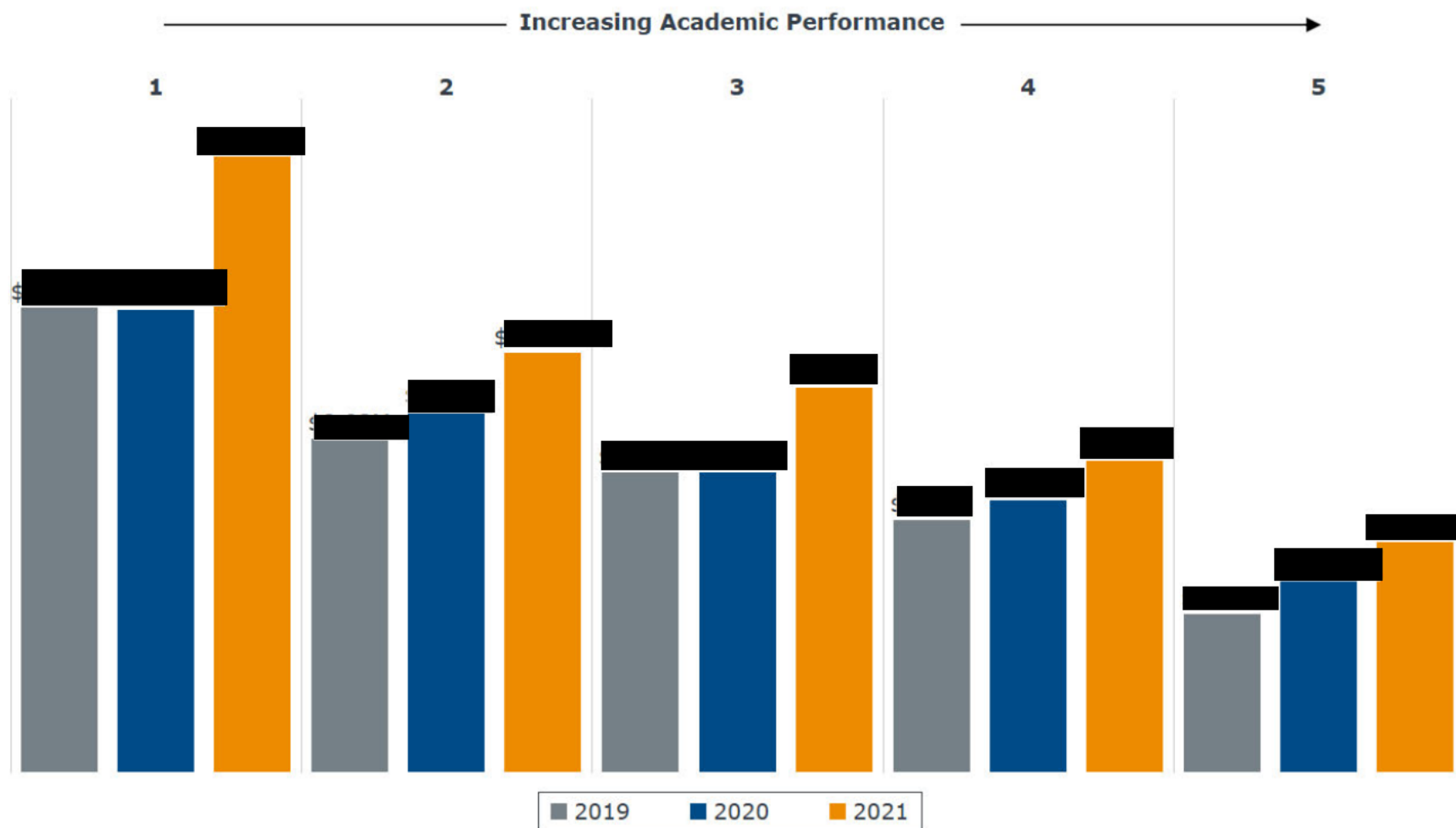
## Model Population



# Total Net Tuition Revenue by Academic Rank



## Model Population

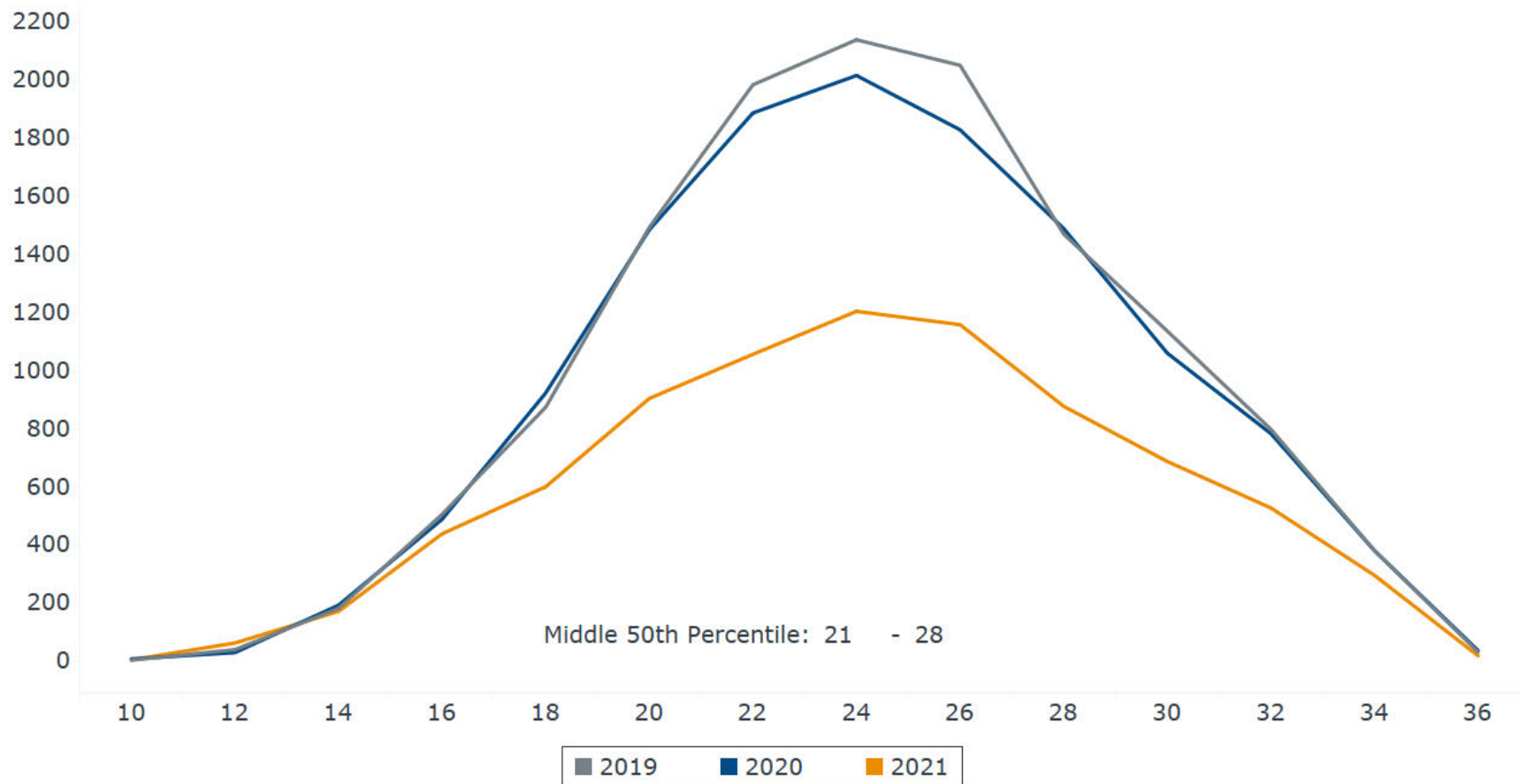


# Admits by Test Score



## Model Population

	<u>2019</u>	<u>2020</u>	<u>2021</u>
Mean:	25	25	25
Median:	25	25	25



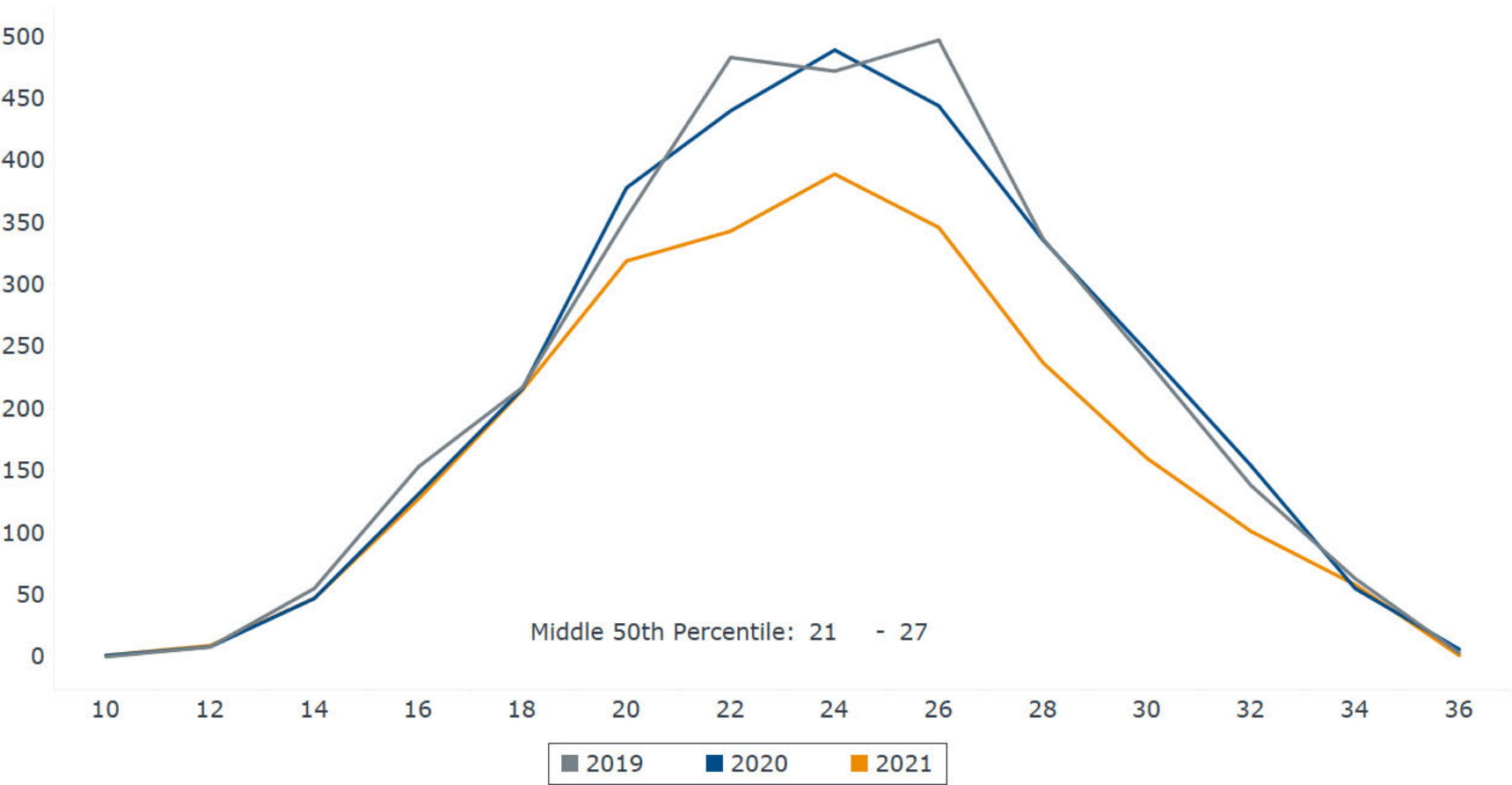




# Enrolled by Test Score

## Model Population

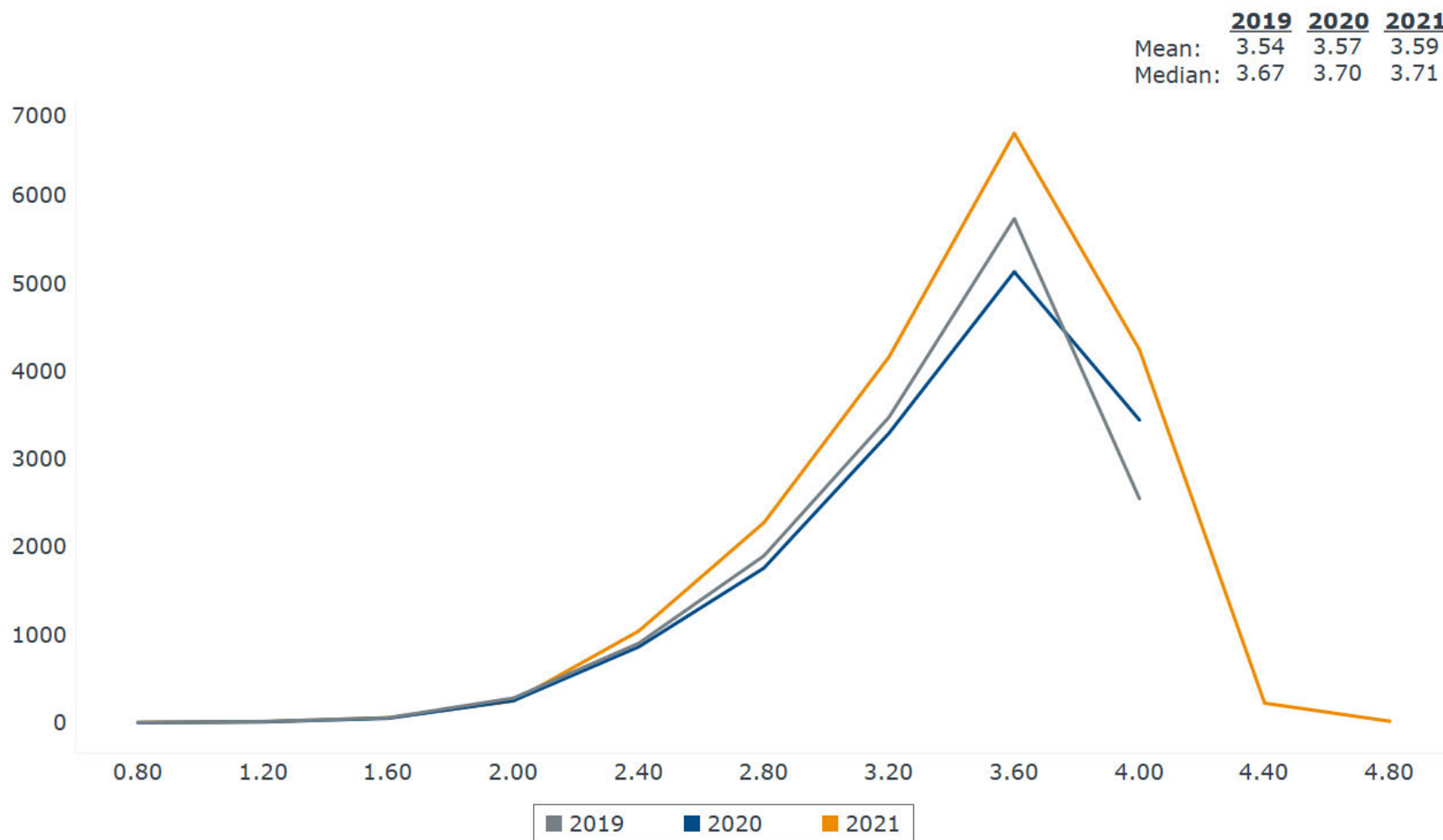
	<u>2019</u>	<u>2020</u>	<u>2021</u>
Mean:	25	25	24
Median:	25	24	24



# Admits by High School GPA



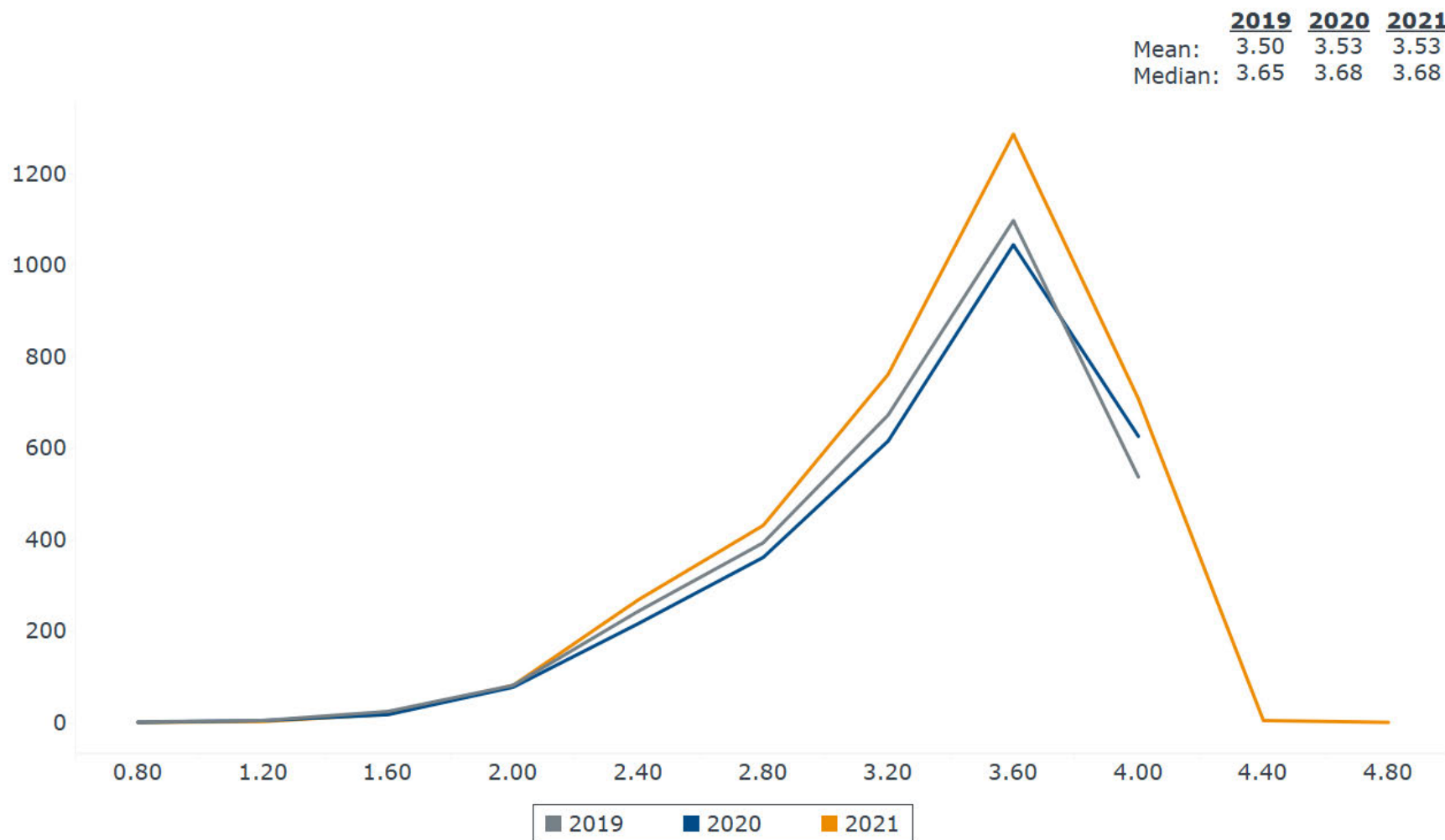
## Model Population



# Enrolled by High School GPA



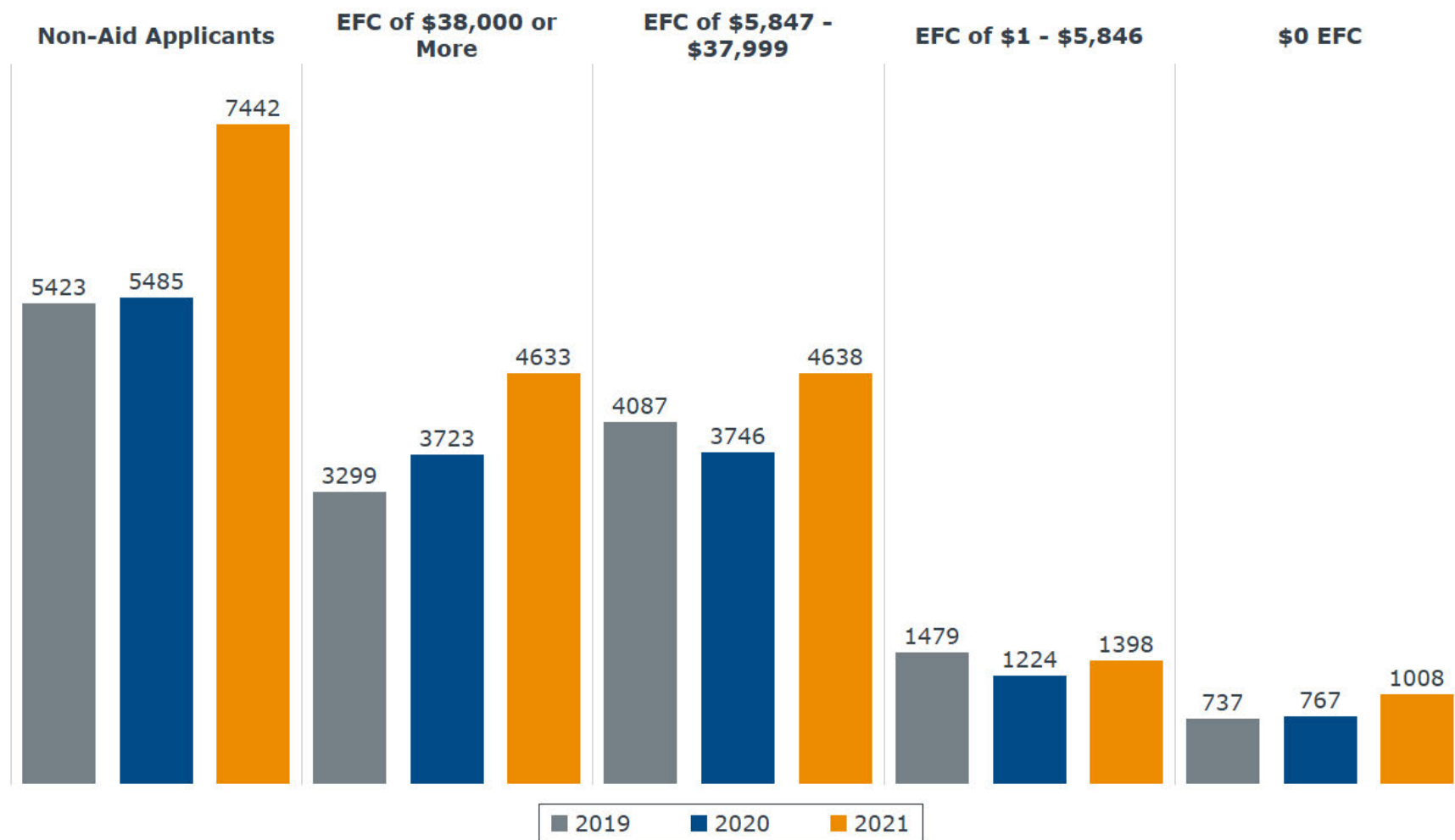
## Model Population



# Admits by Ability to Pay



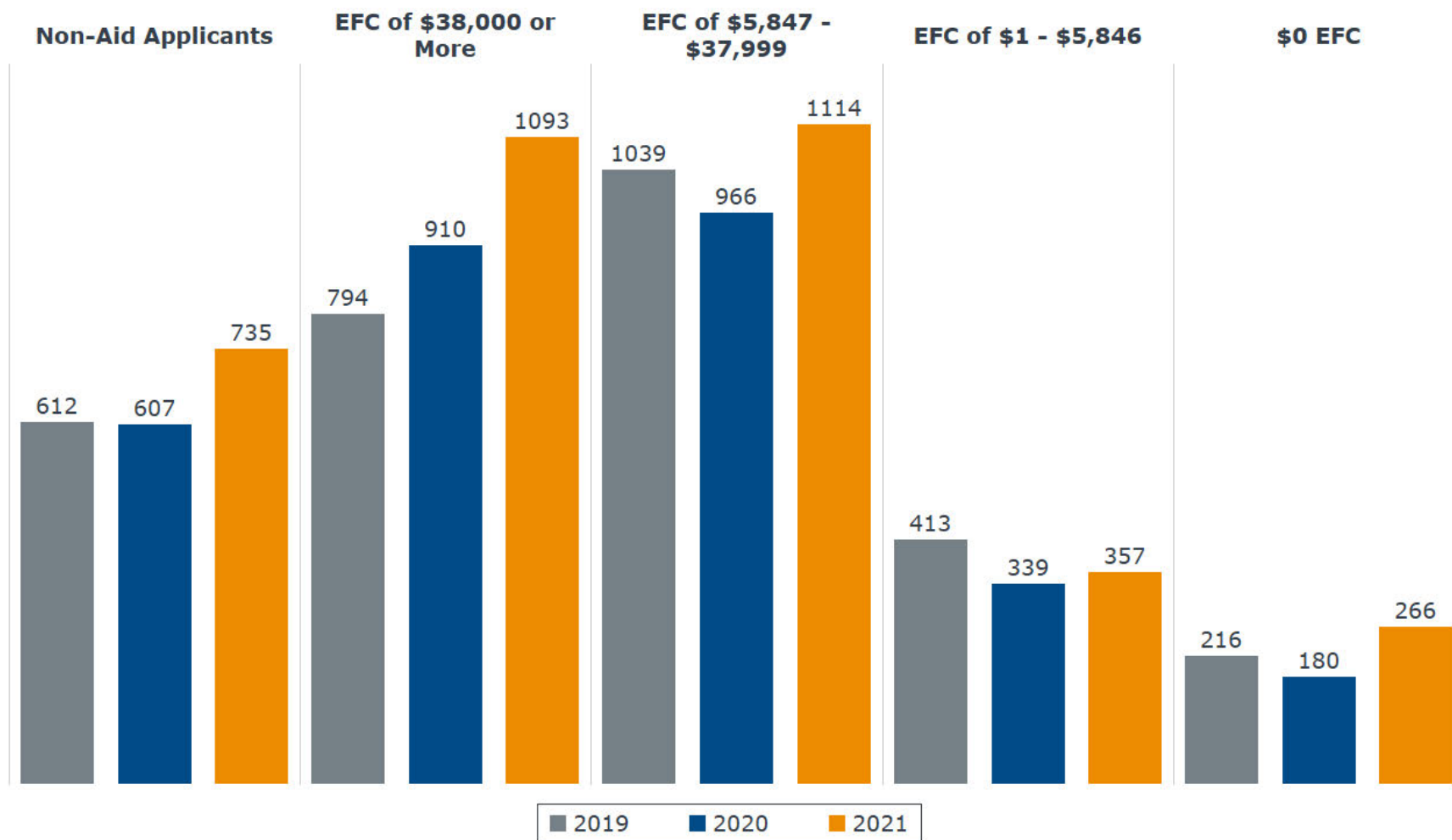
## Model Population



# Enrolled by Ability to Pay



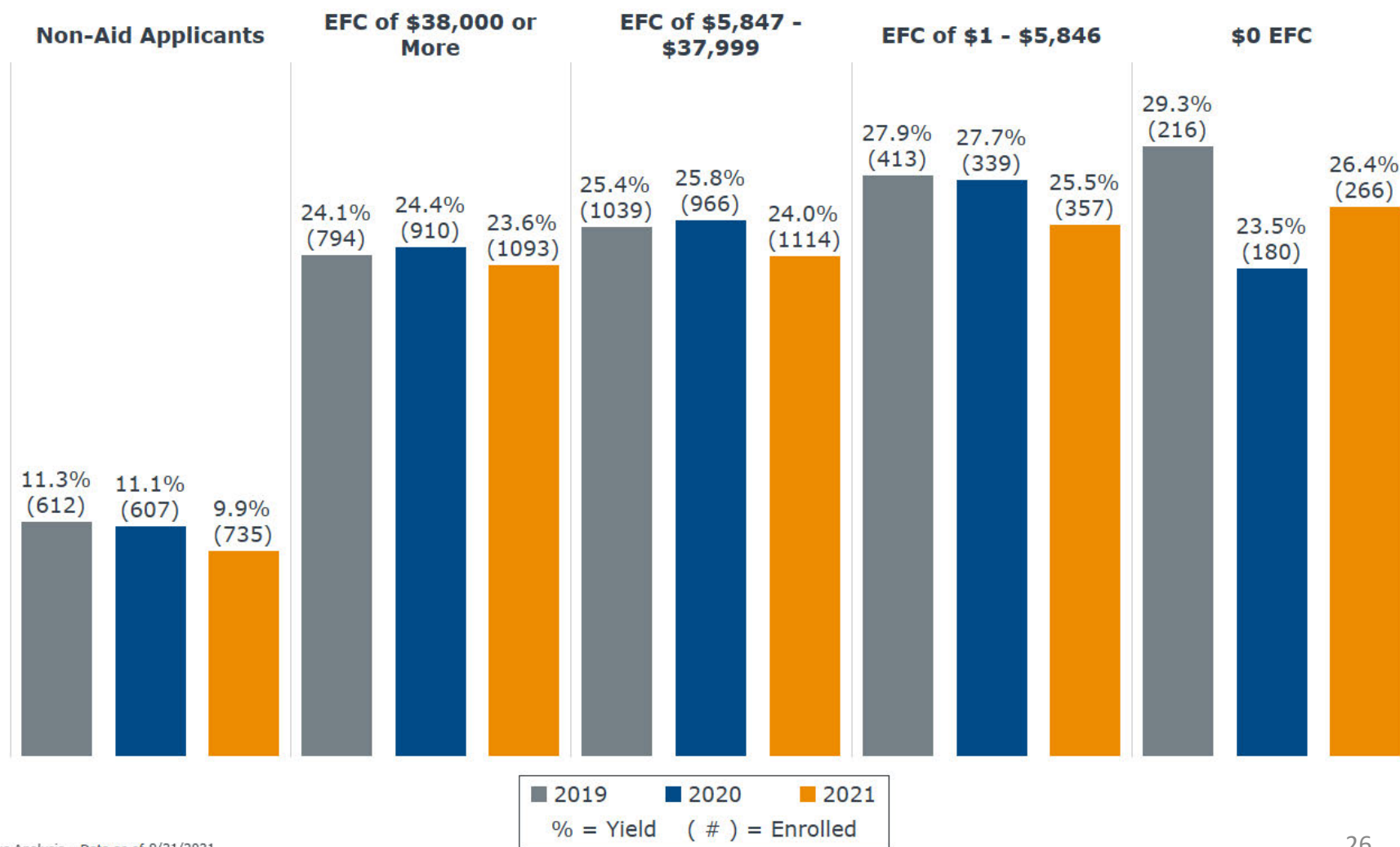
## Model Population



# Yield by Ability to Pay



## Model Population



# Average Net Tuition Revenue of Enrolled by Ability to Pay



## Model Population



# Total Net Tuition Revenue by Ability to Pay



## Model Population

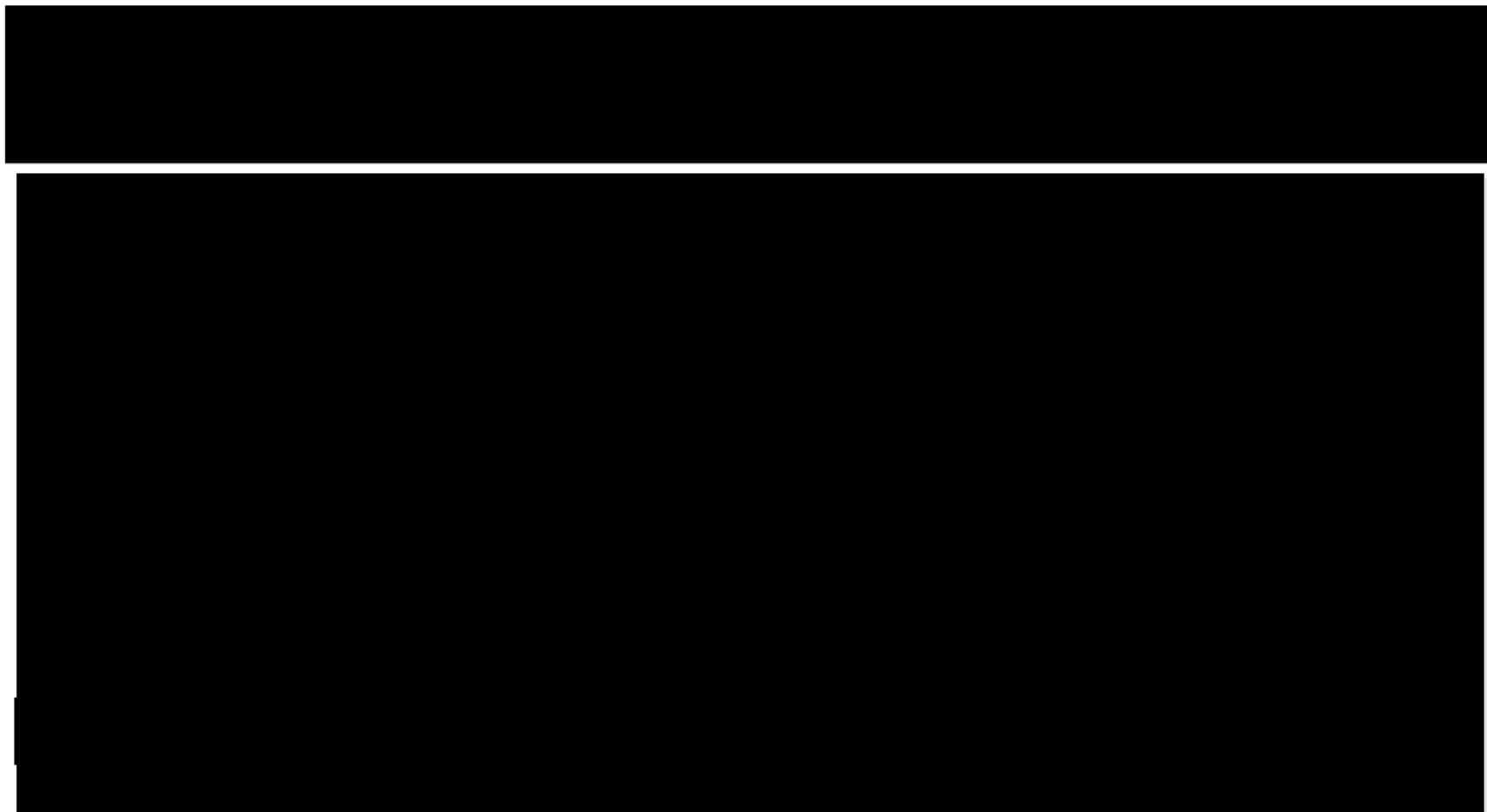




# Admits by Market



## Model Population



■ 2019 ■ 2020 ■ 2021

# Yield by Market



## Model Population

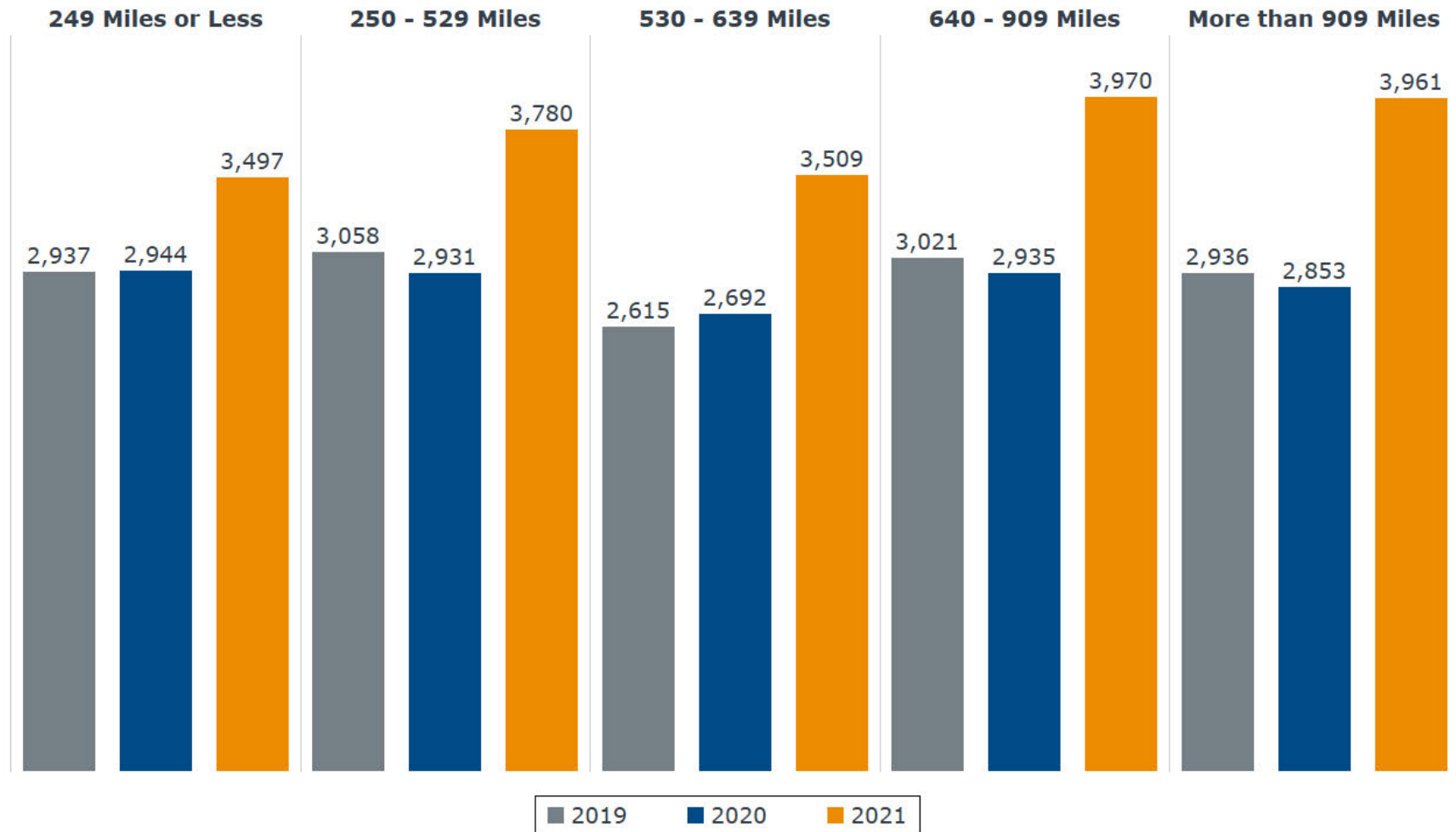


■ 2019   ■ 2020   ■ 2021  
% = Yield   ( # ) = Enrolled

# Admits By Distance Between Home and Campus



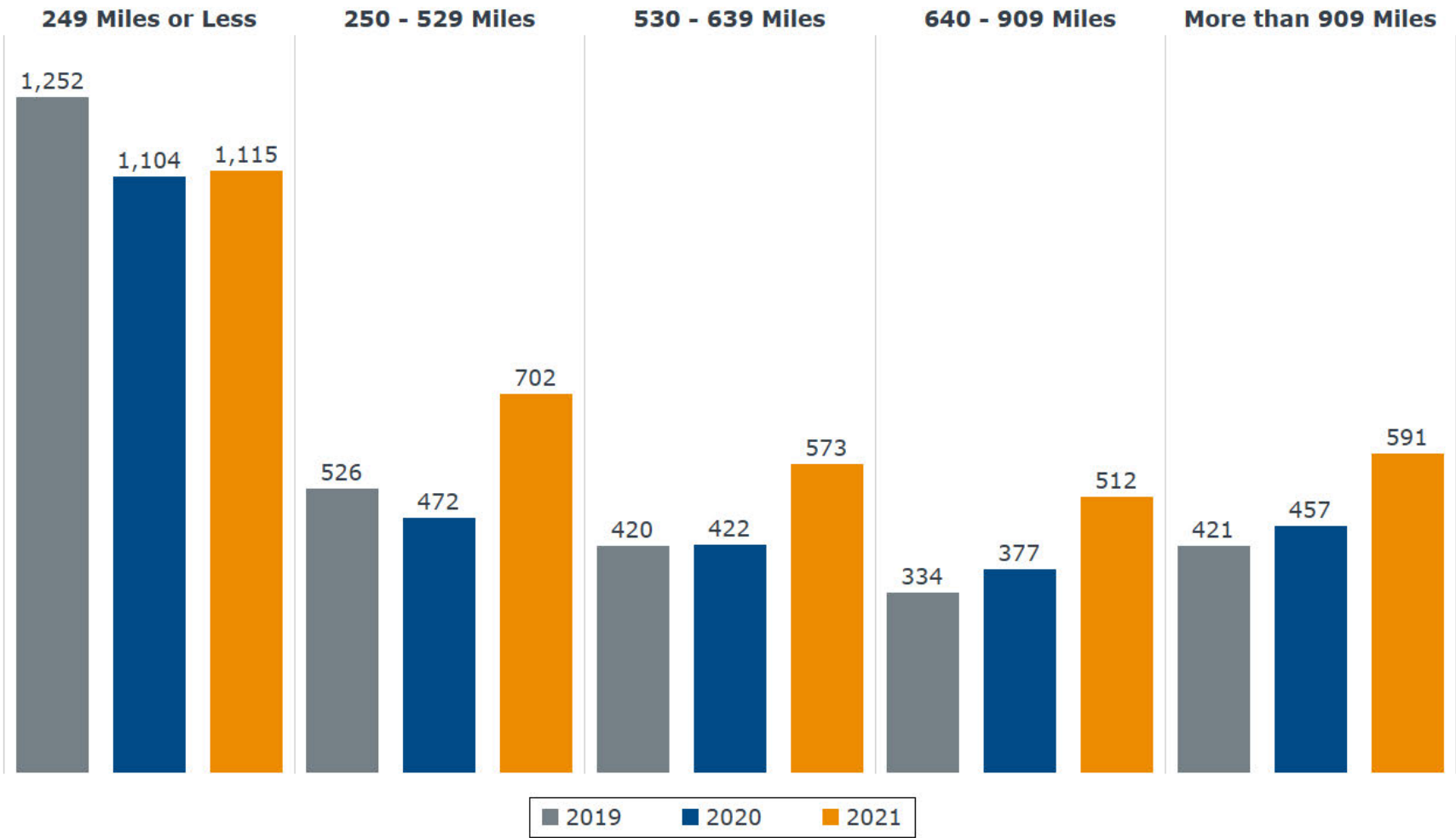
## Model Population



# Enrolled By Distance Between Home and Campus



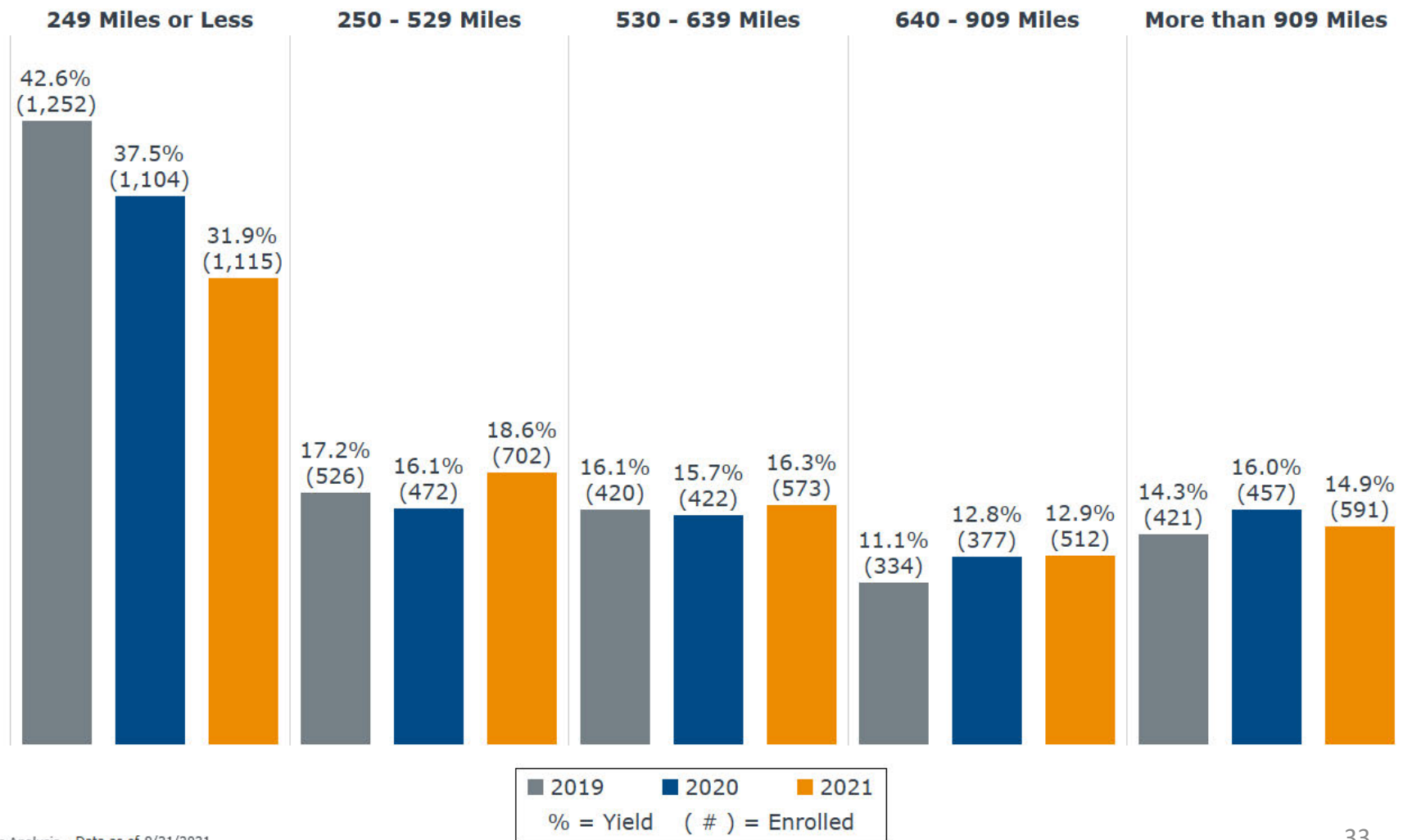
## Model Population



# Yield By Distance Between Home and Campus



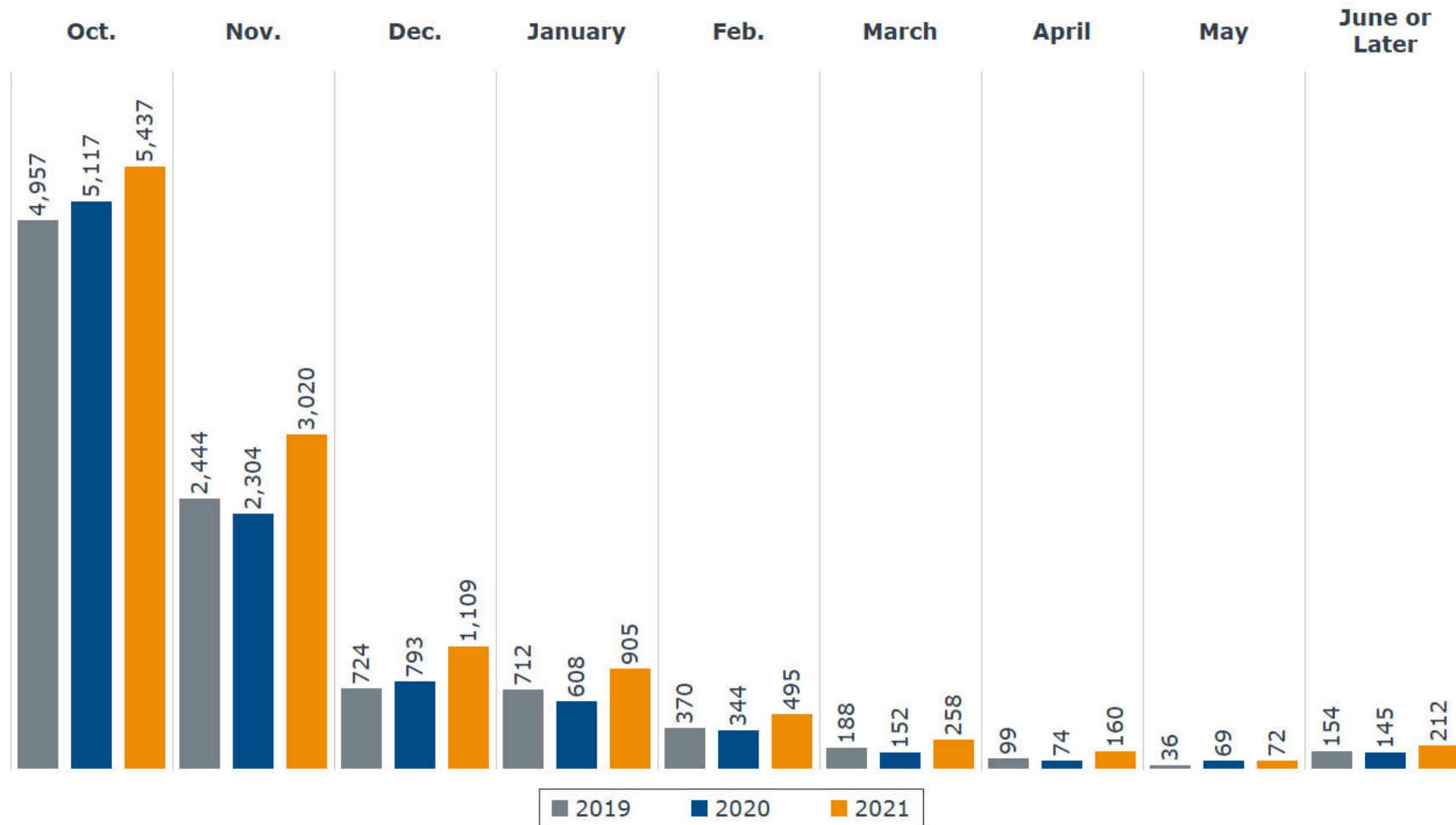
## Model Population



# Admits by FAFSA Received



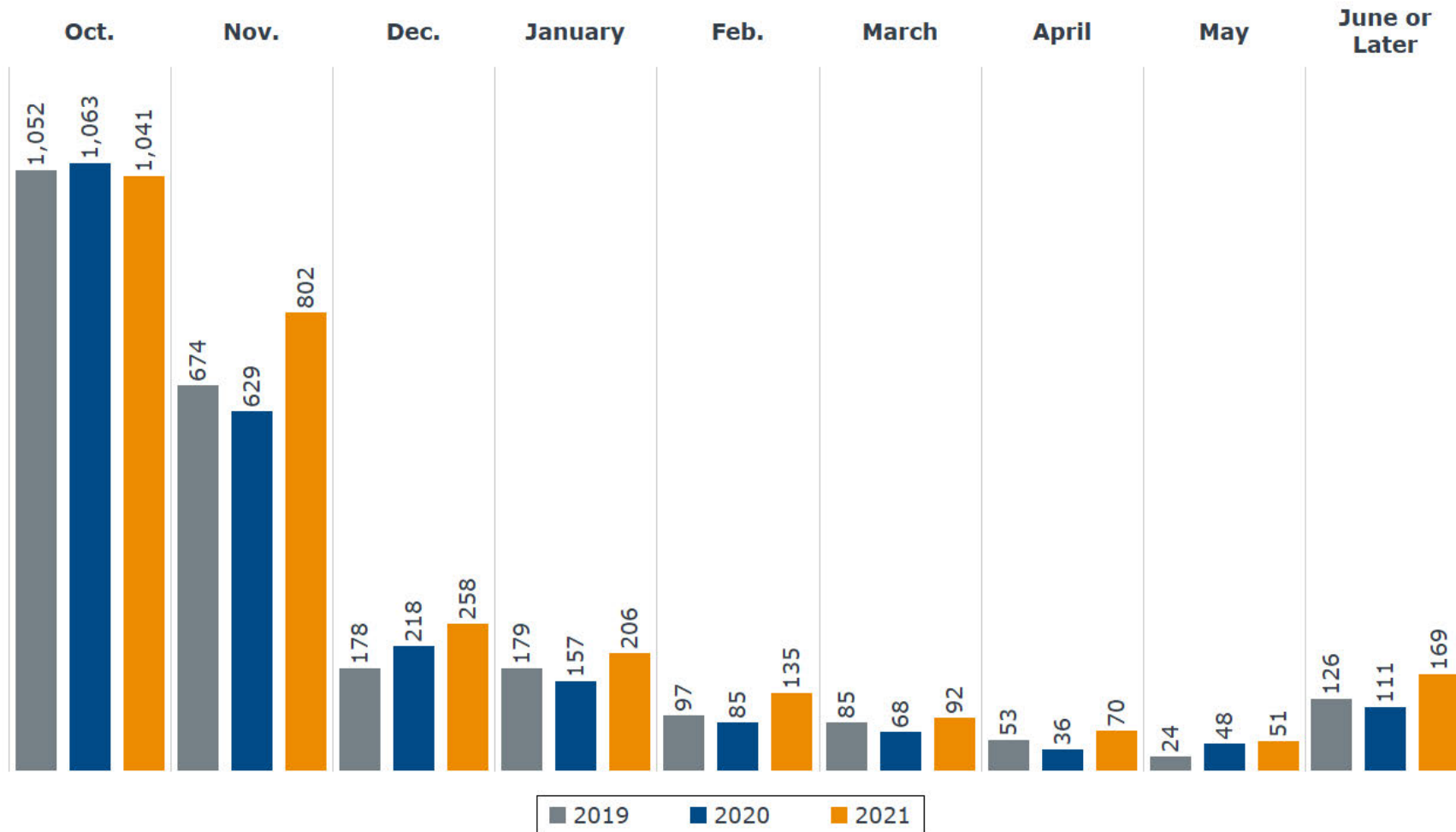
## Model Population



# Enrolled By FAFSA Received



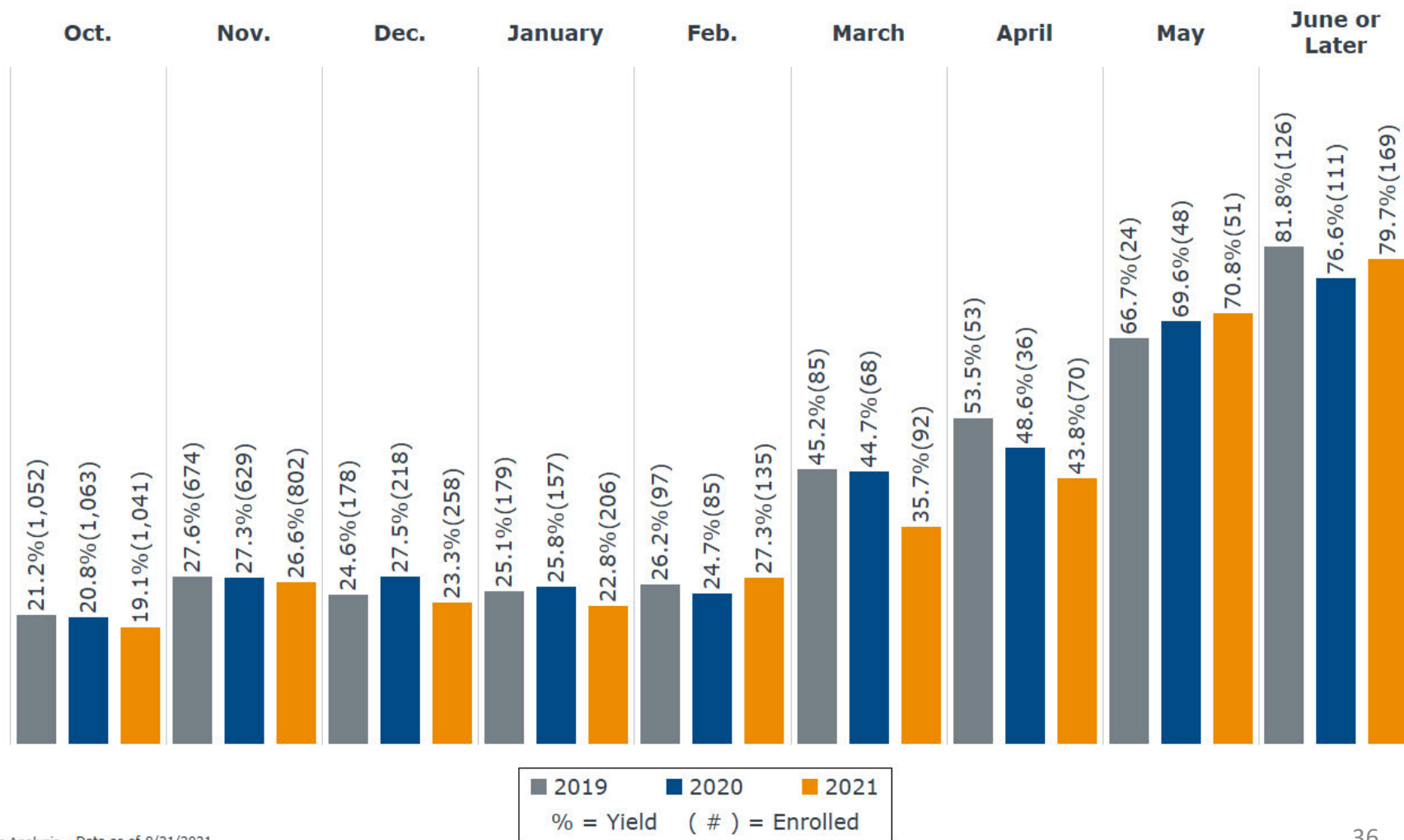
## Model Population



# Yield By FAFSA Received



## Model Population

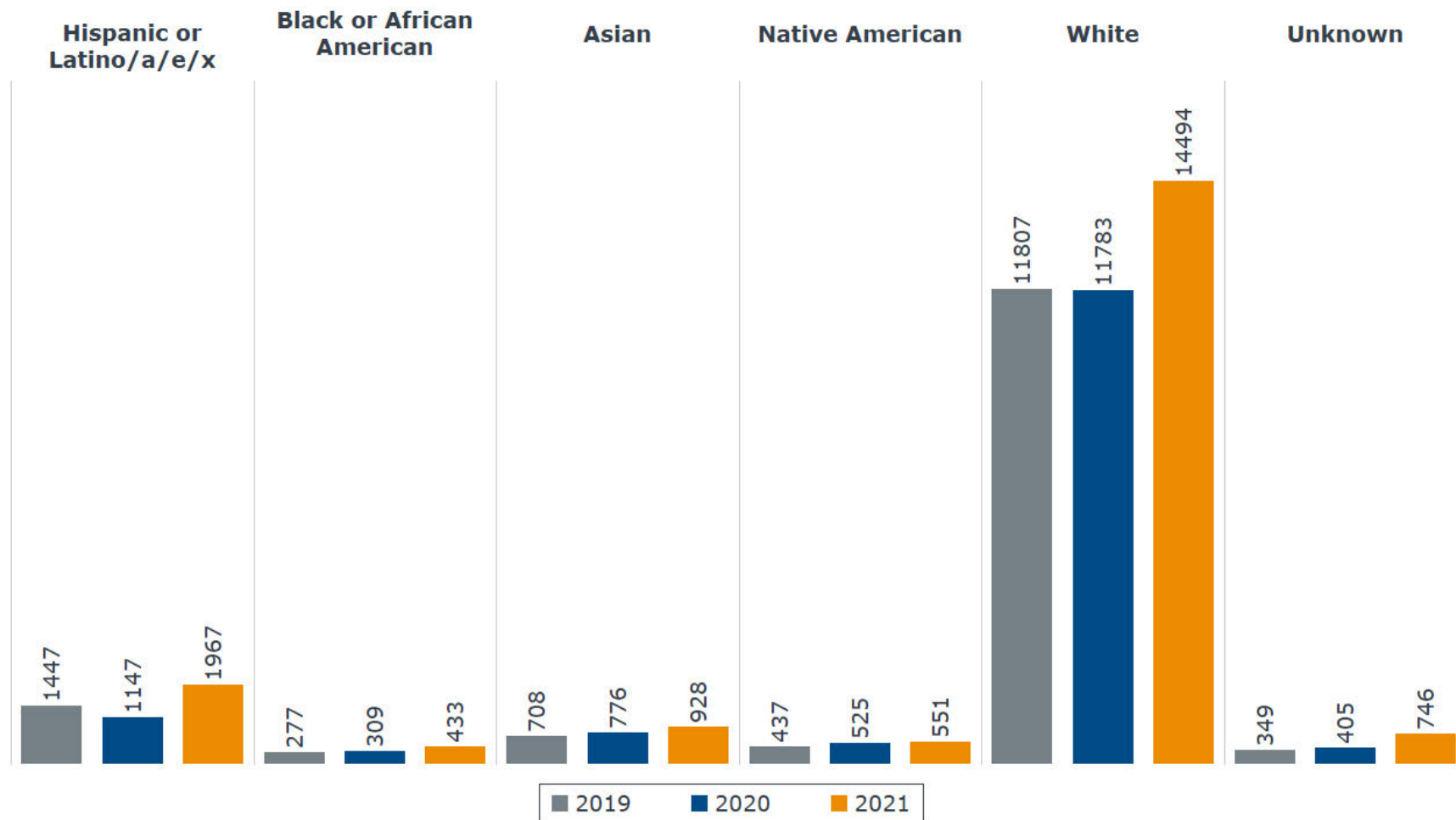




# Admits by Race and Ethnicity



## Model Population



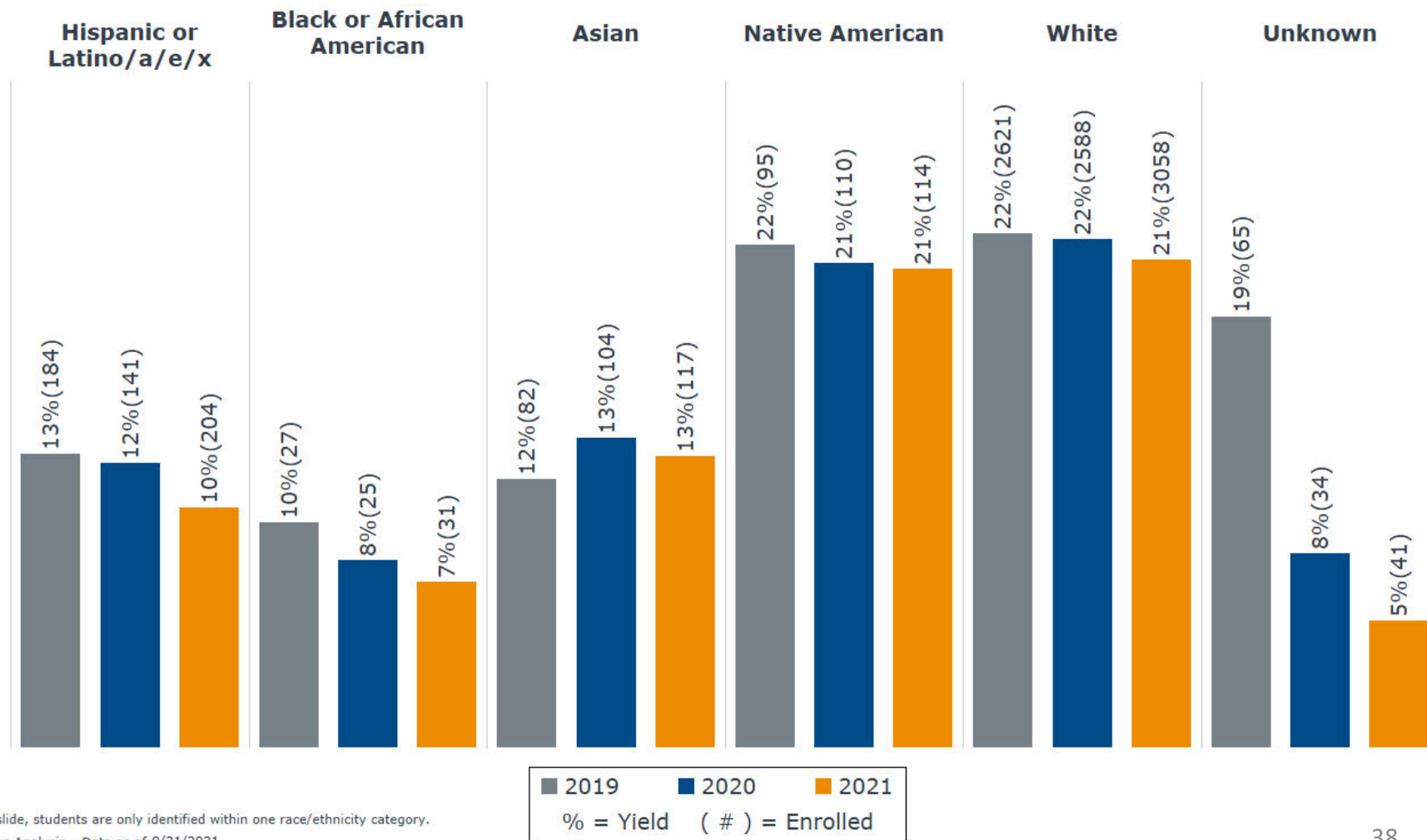
\*On this slide, students are only identified within one race/ethnicity category.

Census Analysis - Data as of 9/21/2021

# Yield by Race and Ethnicity



## Model Population

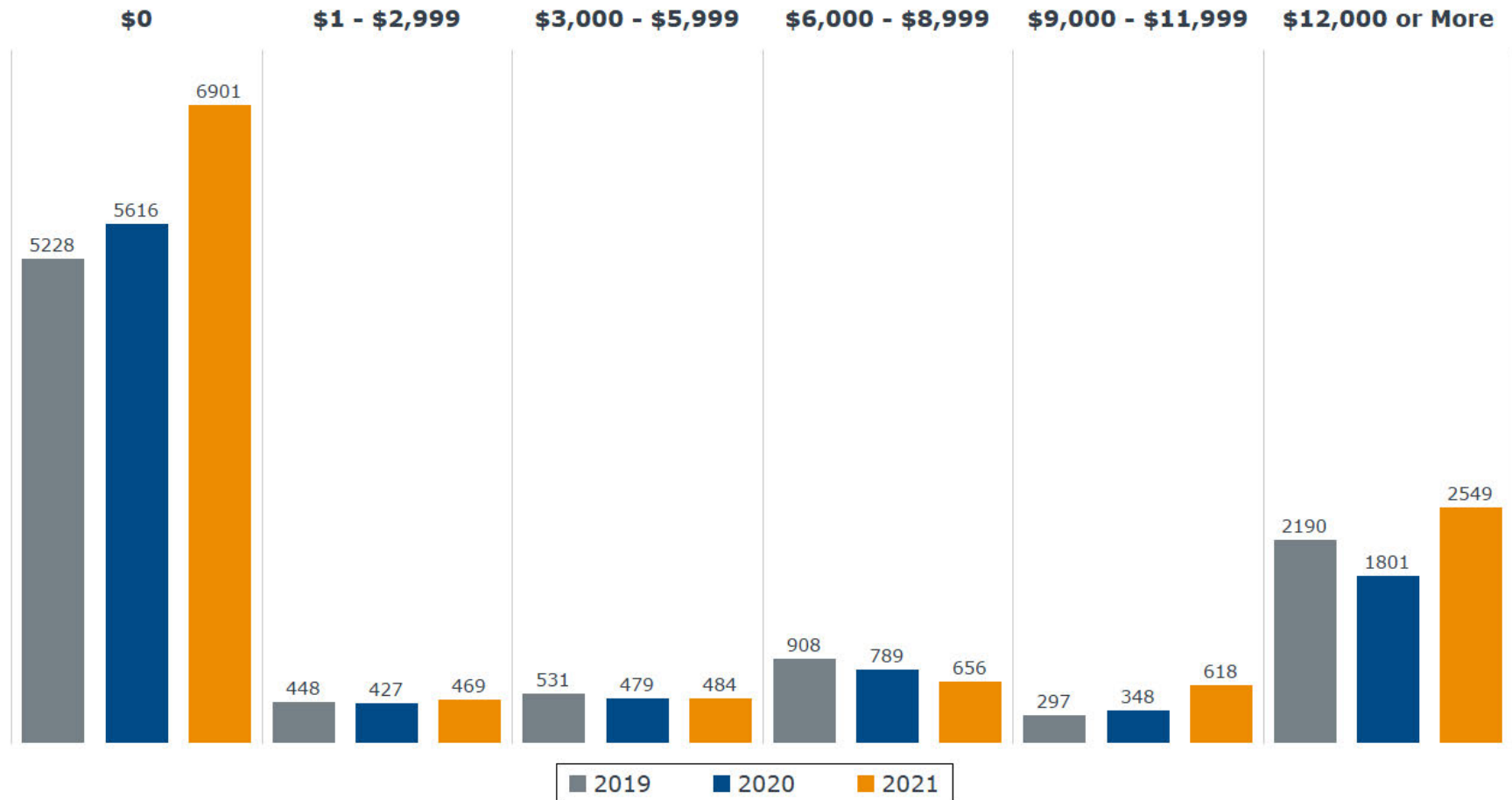


# Admits by Gap



## Model Population

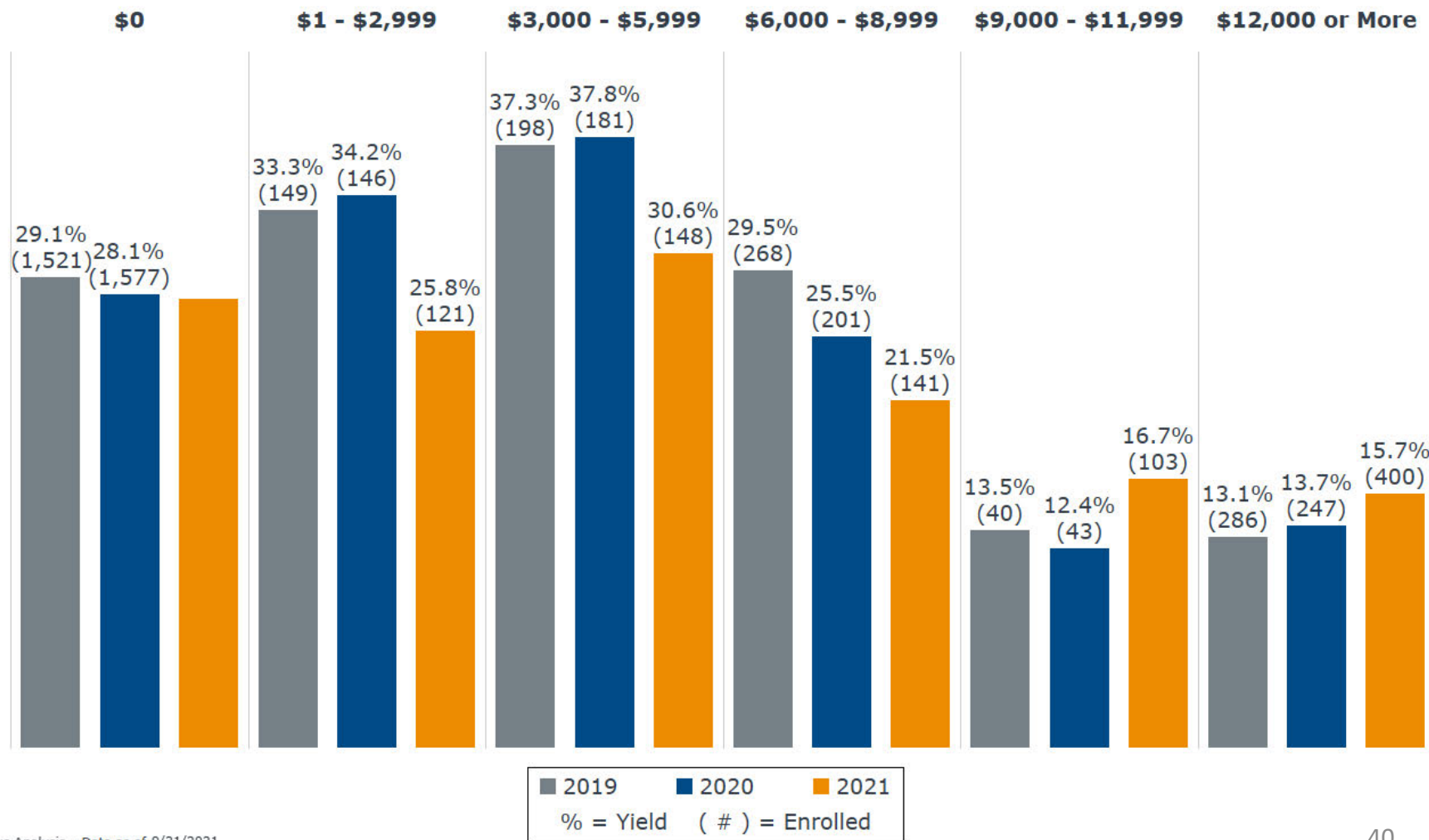
Median Gap: 2019 2020 2021  
\$0 \$0 \$0



# Yield by Gap



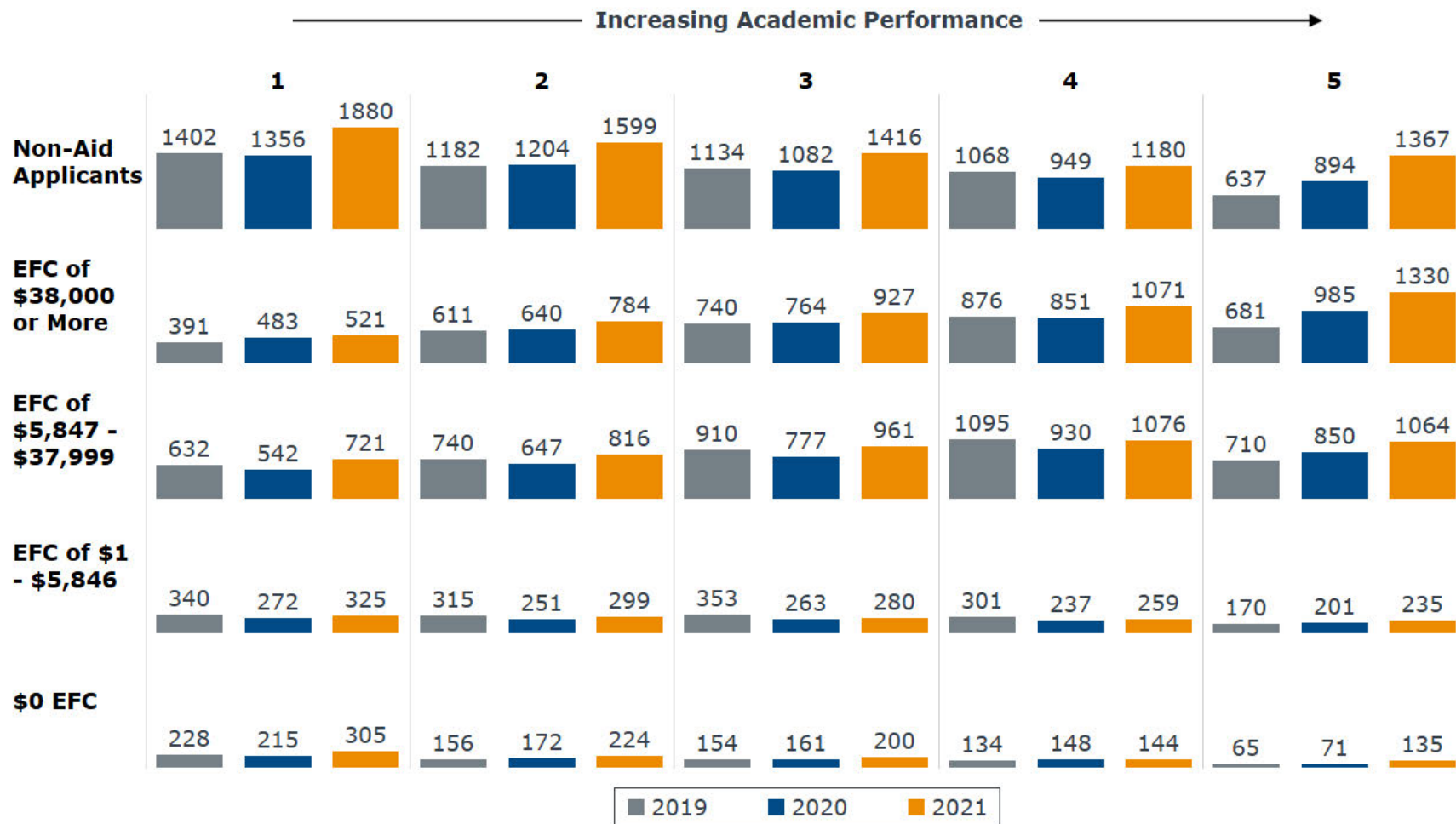
## Model Population



# Admits by Cell



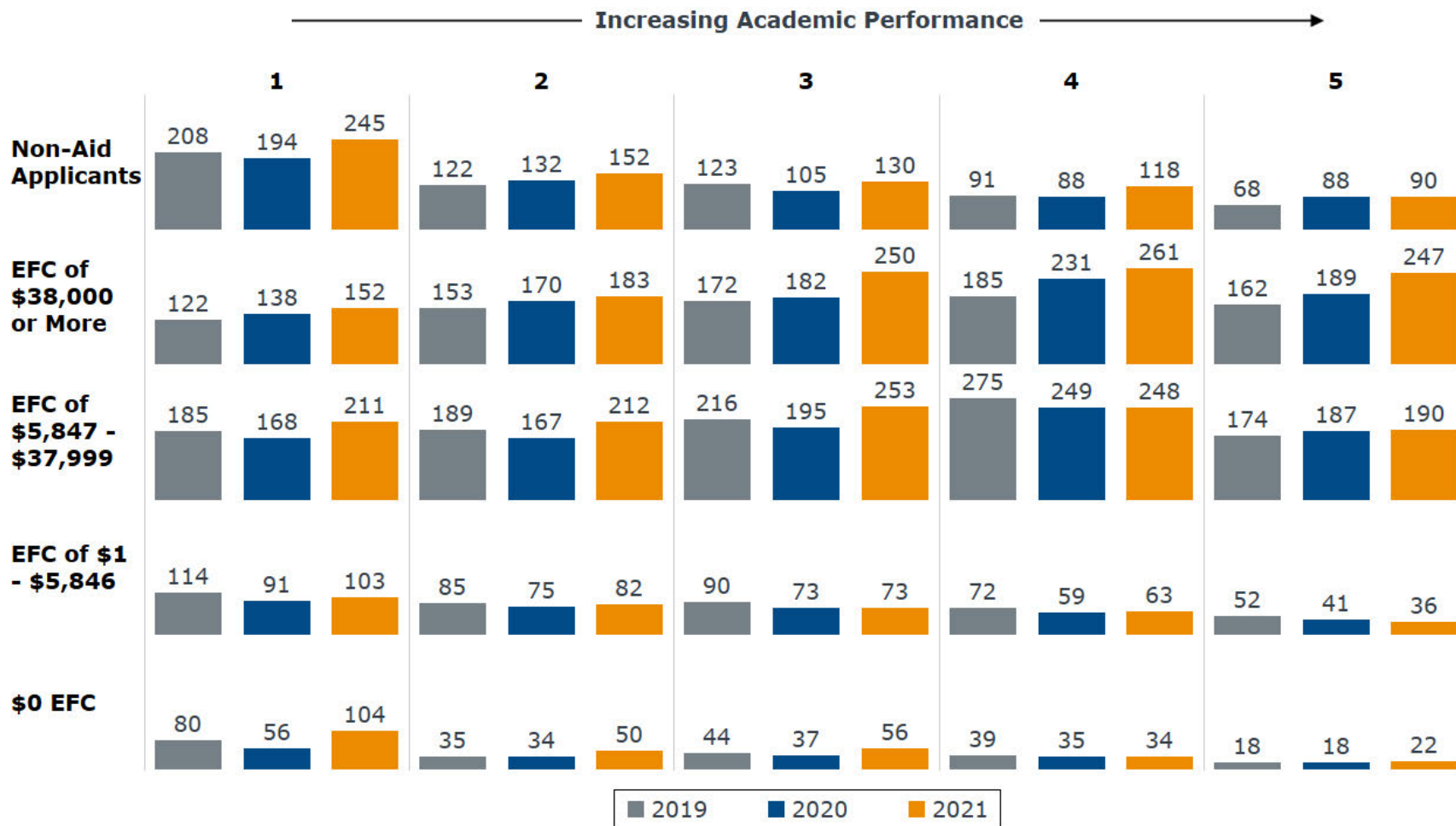
## Model Population



# Enrolled by Cell



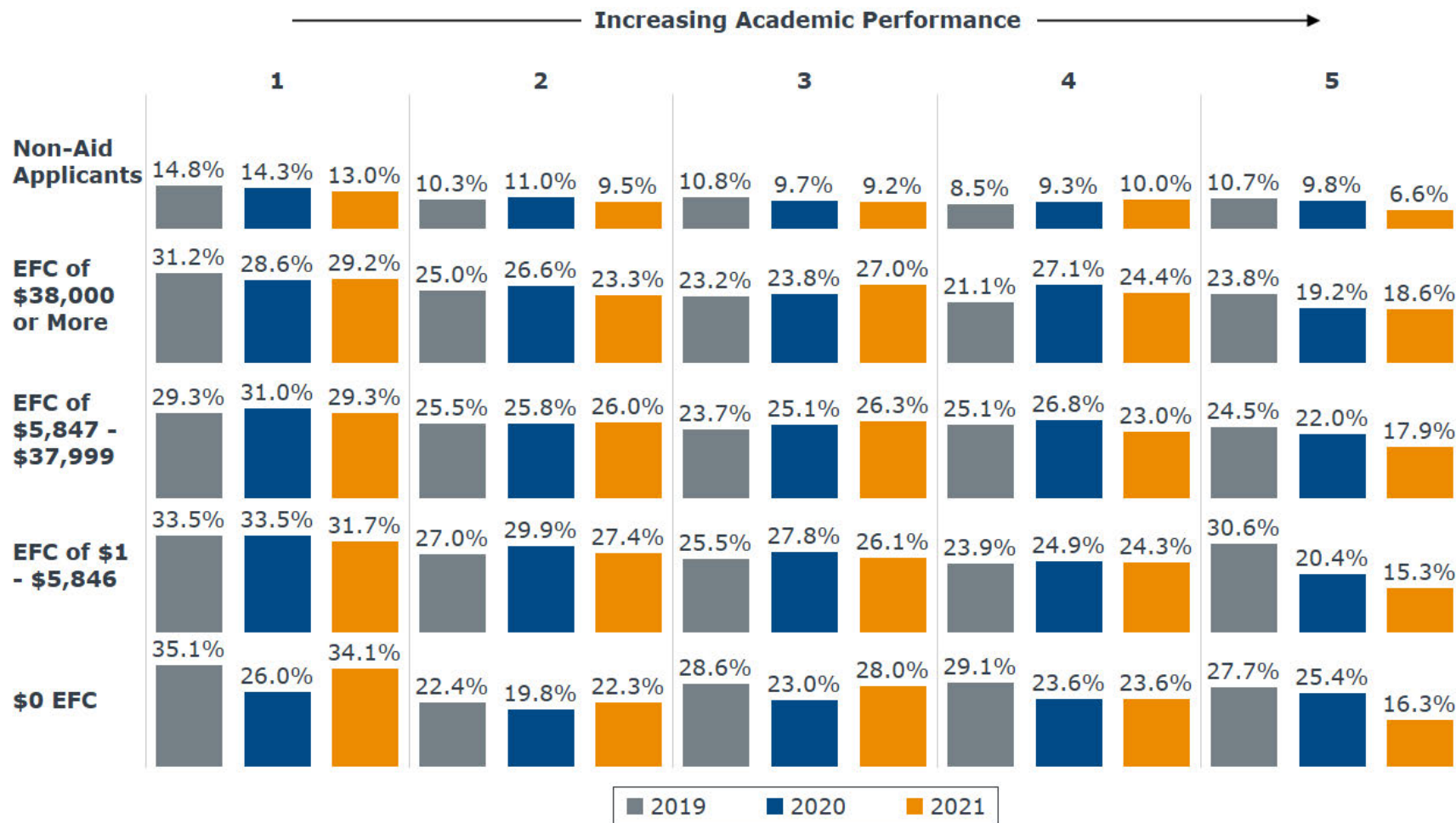
## Model Population



# Yield by Cell



## Model Population

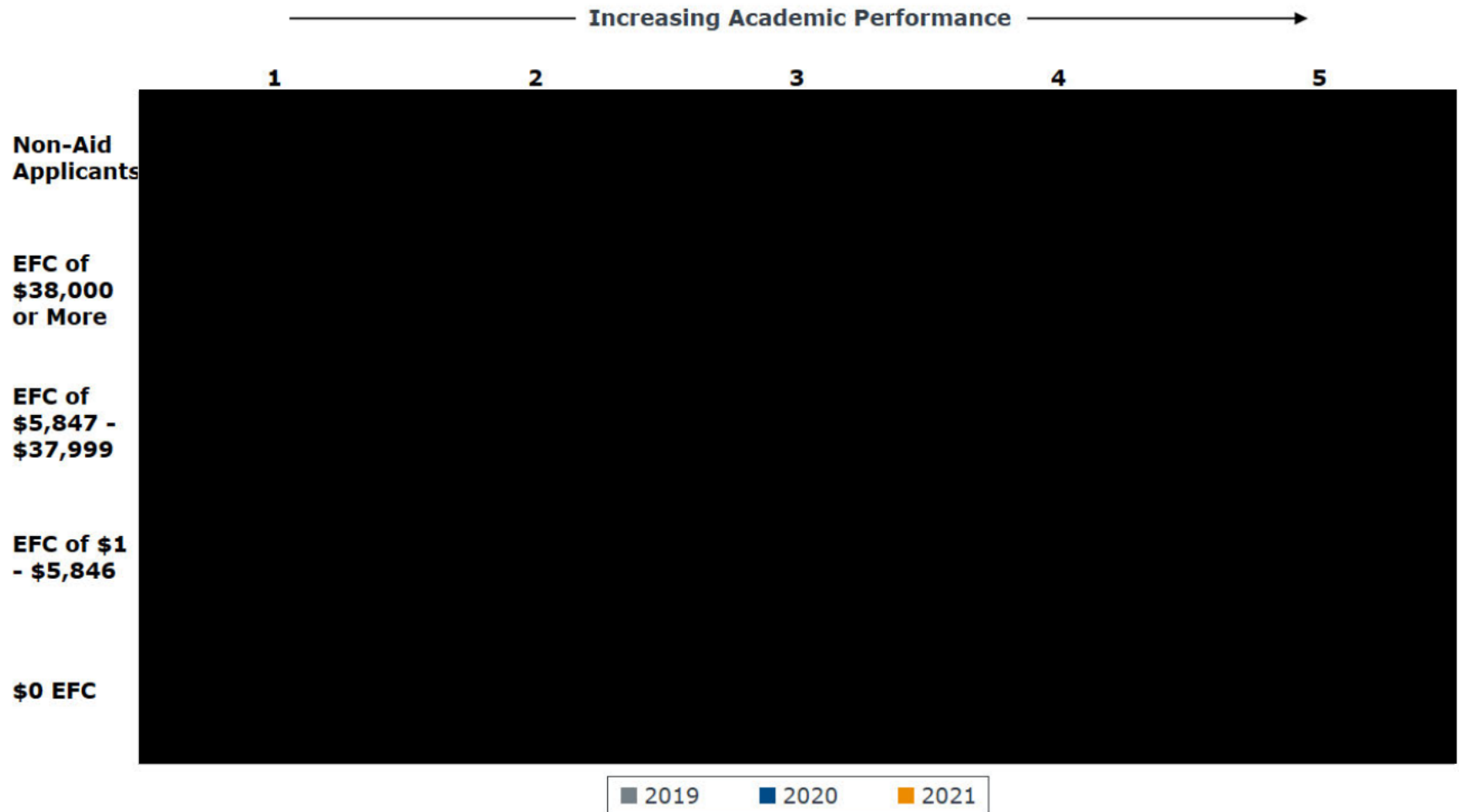




# Average Institutional Grant by Cell for Admits



## Model Population

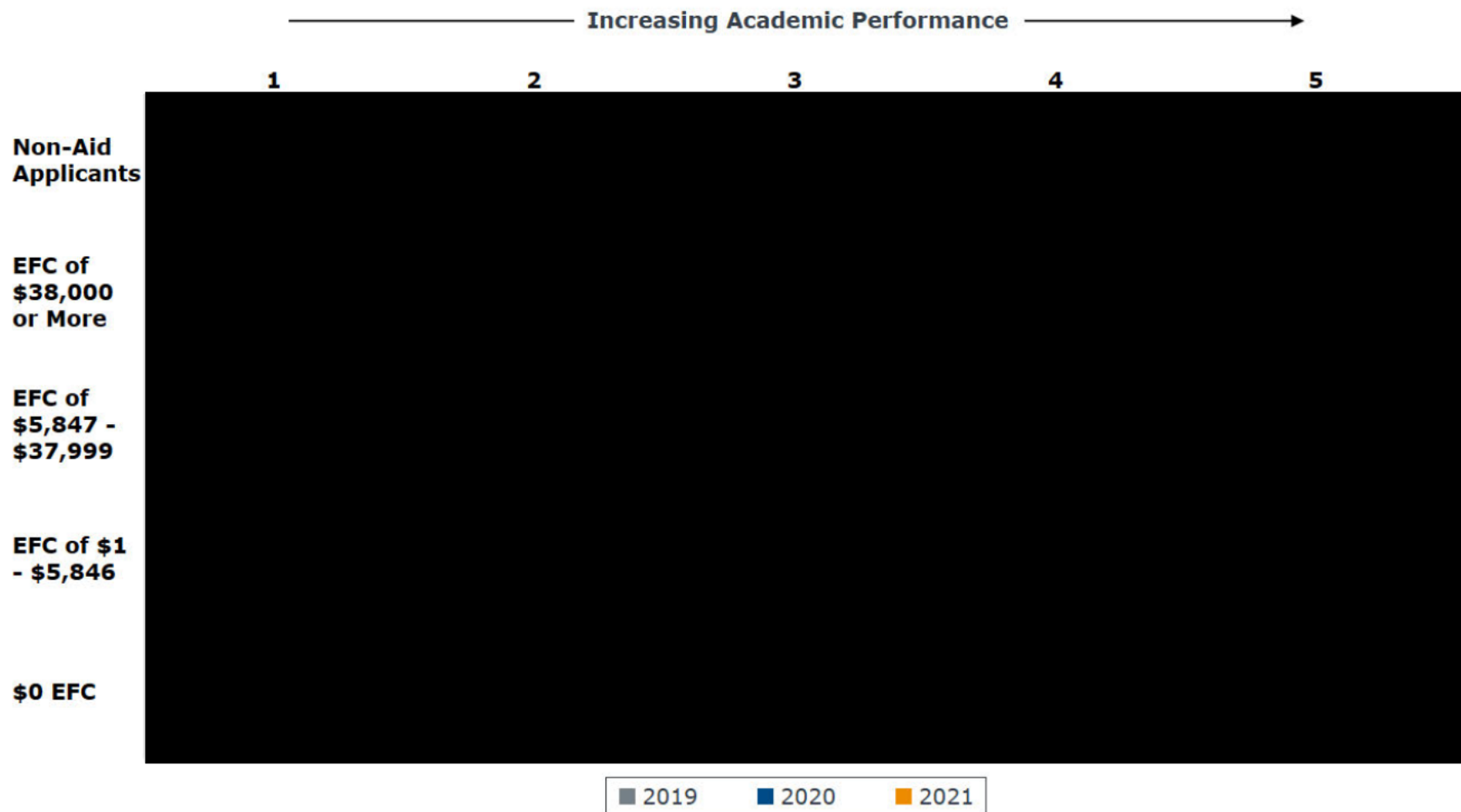




# Average Institutional Grant by Cell for Enrolled



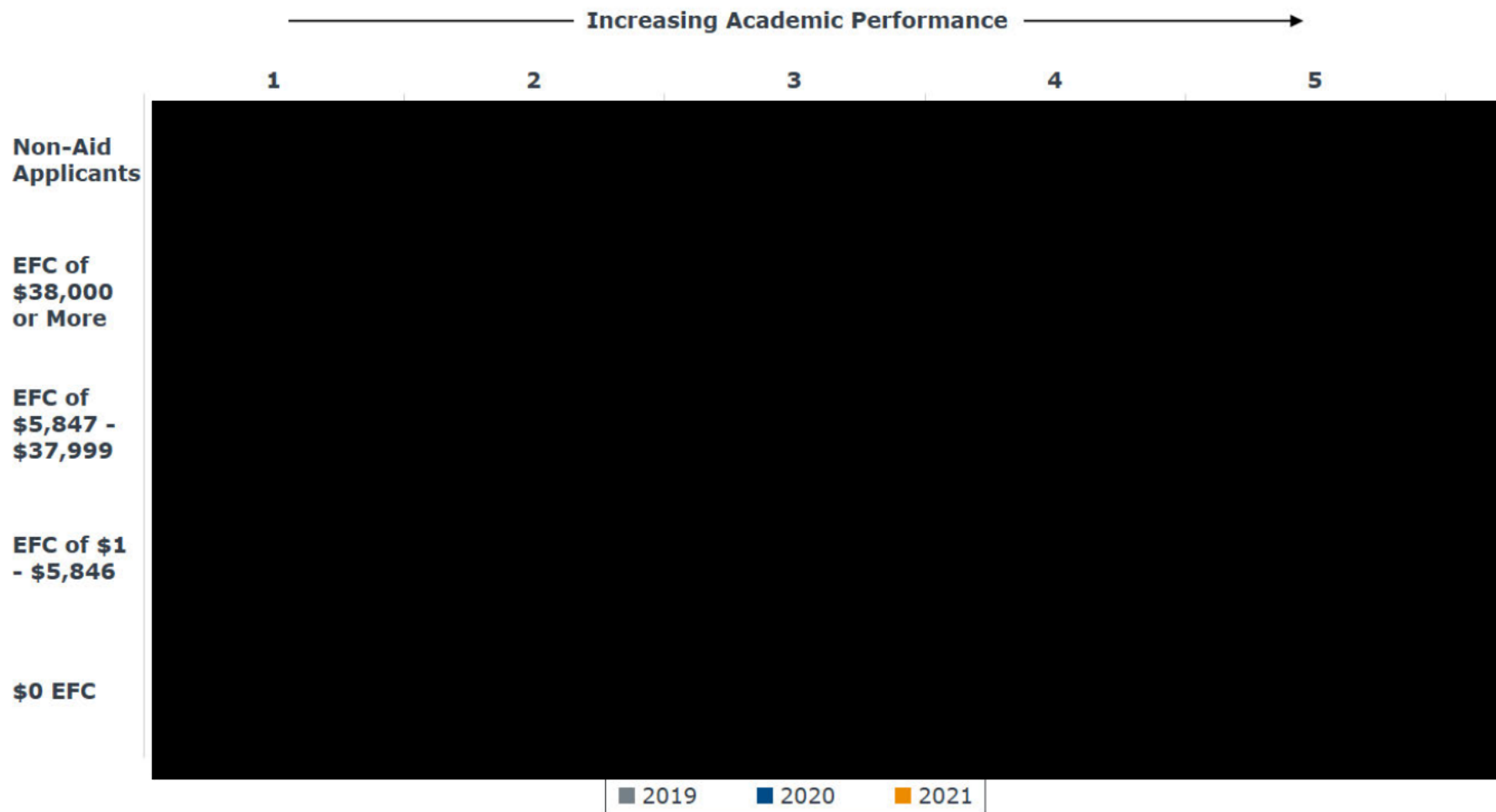
## Model Population



# Average Net Cost by Cell for Admits



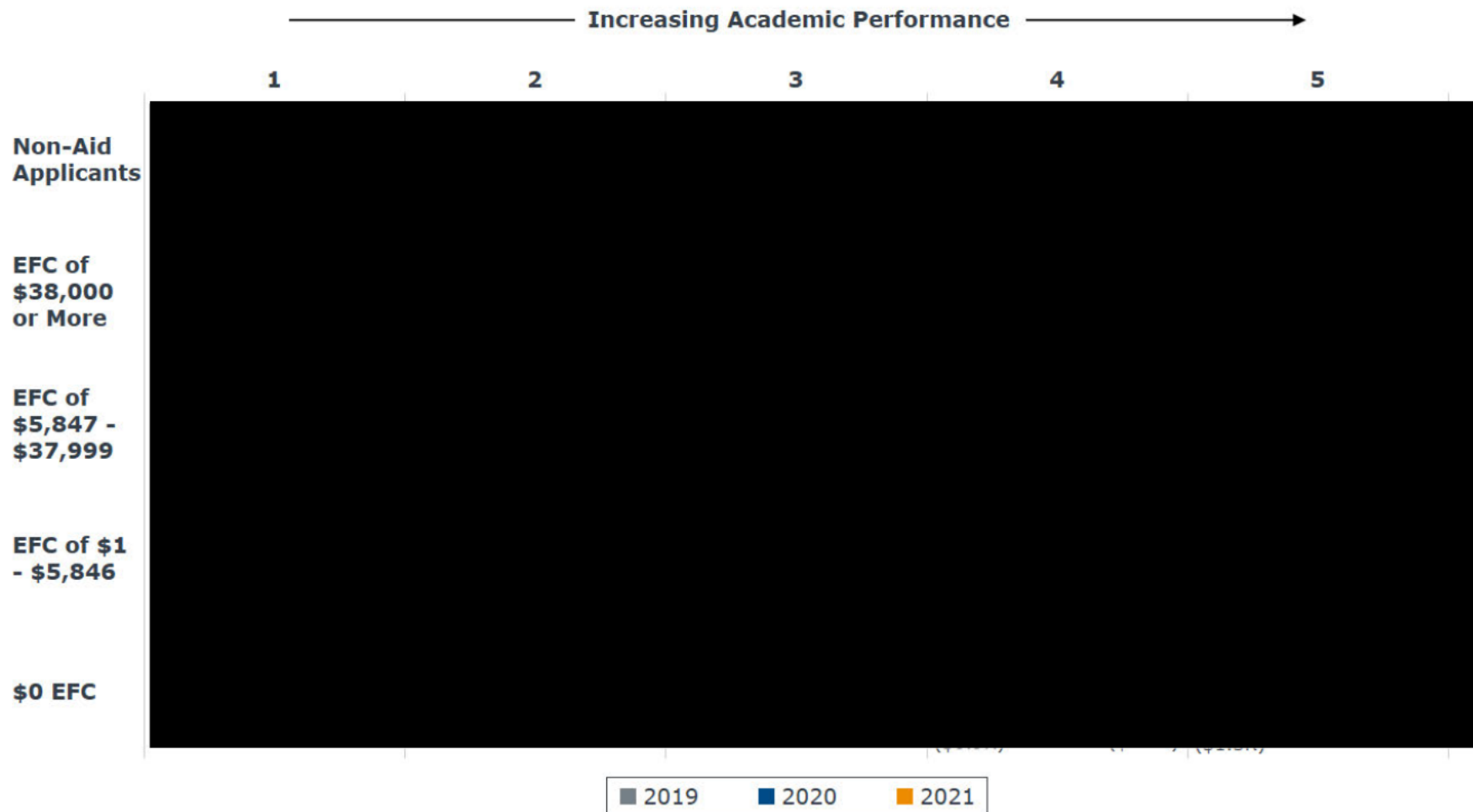
## Model Population



# Average Net Cost by Cell for Enrolled



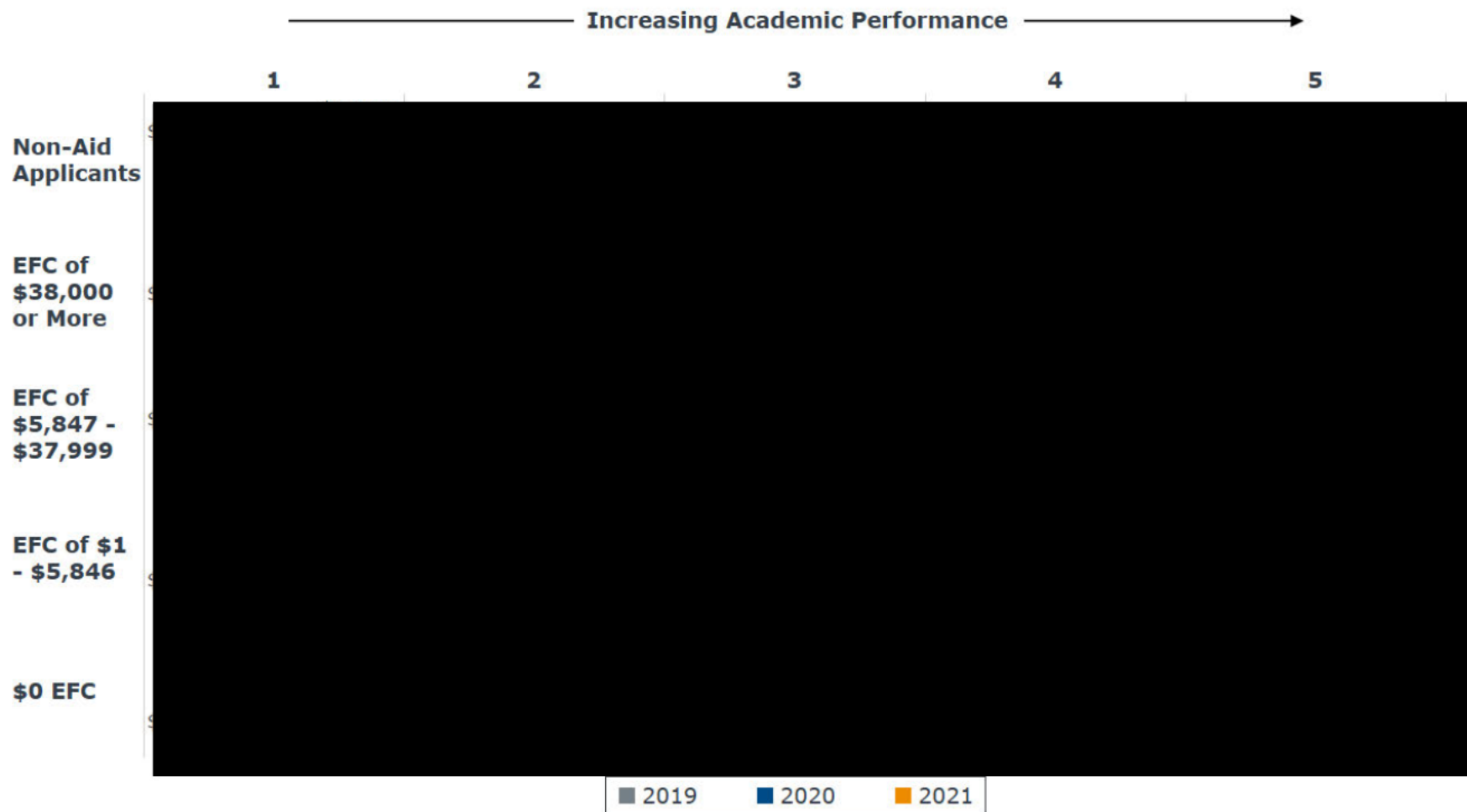
## Model Population



# Total Net Tuition Revenue by Cell: Need and Academic Ranks



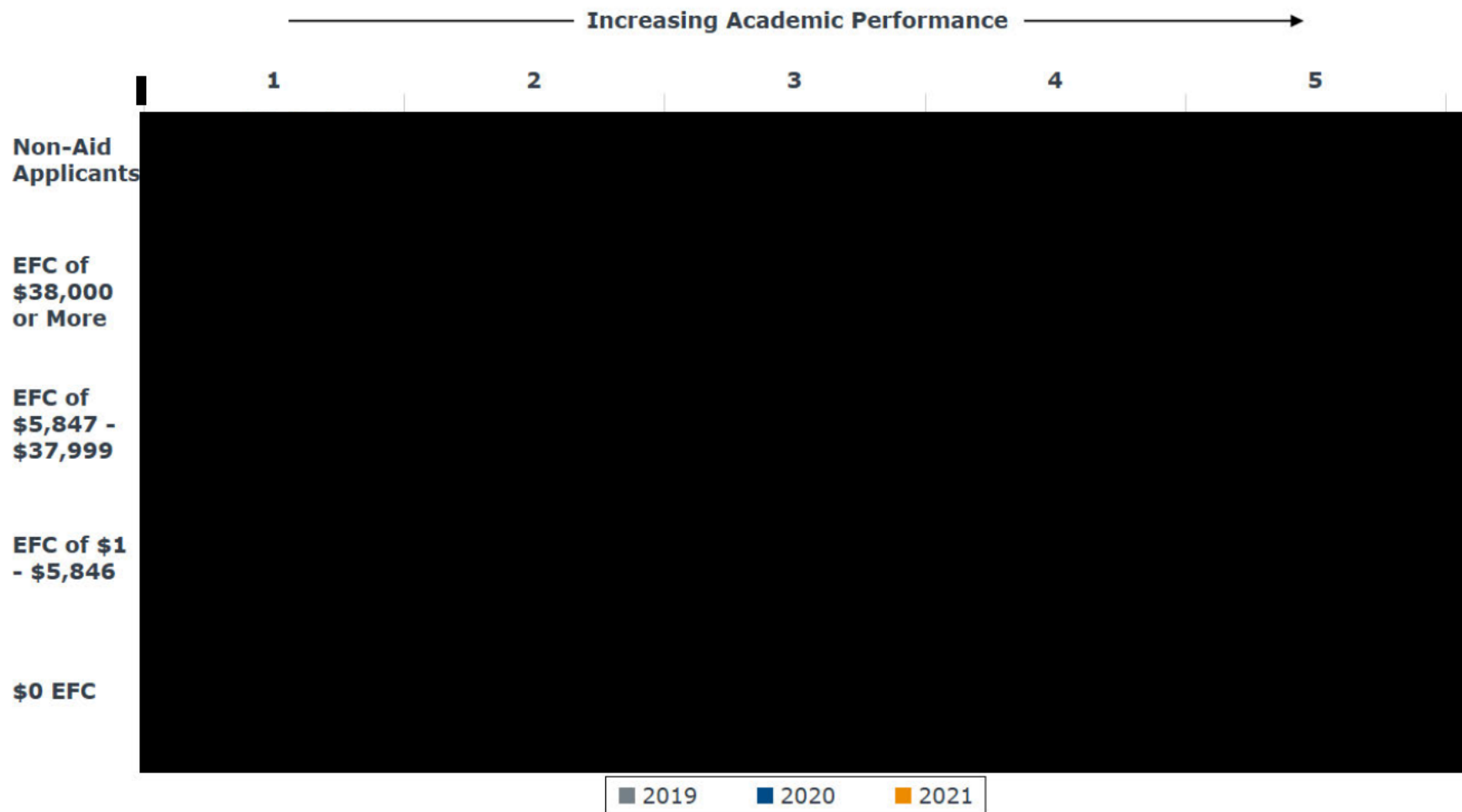
## Model Population



# Average Net Tuition Revenue by Cell: Need and Academic Ranks



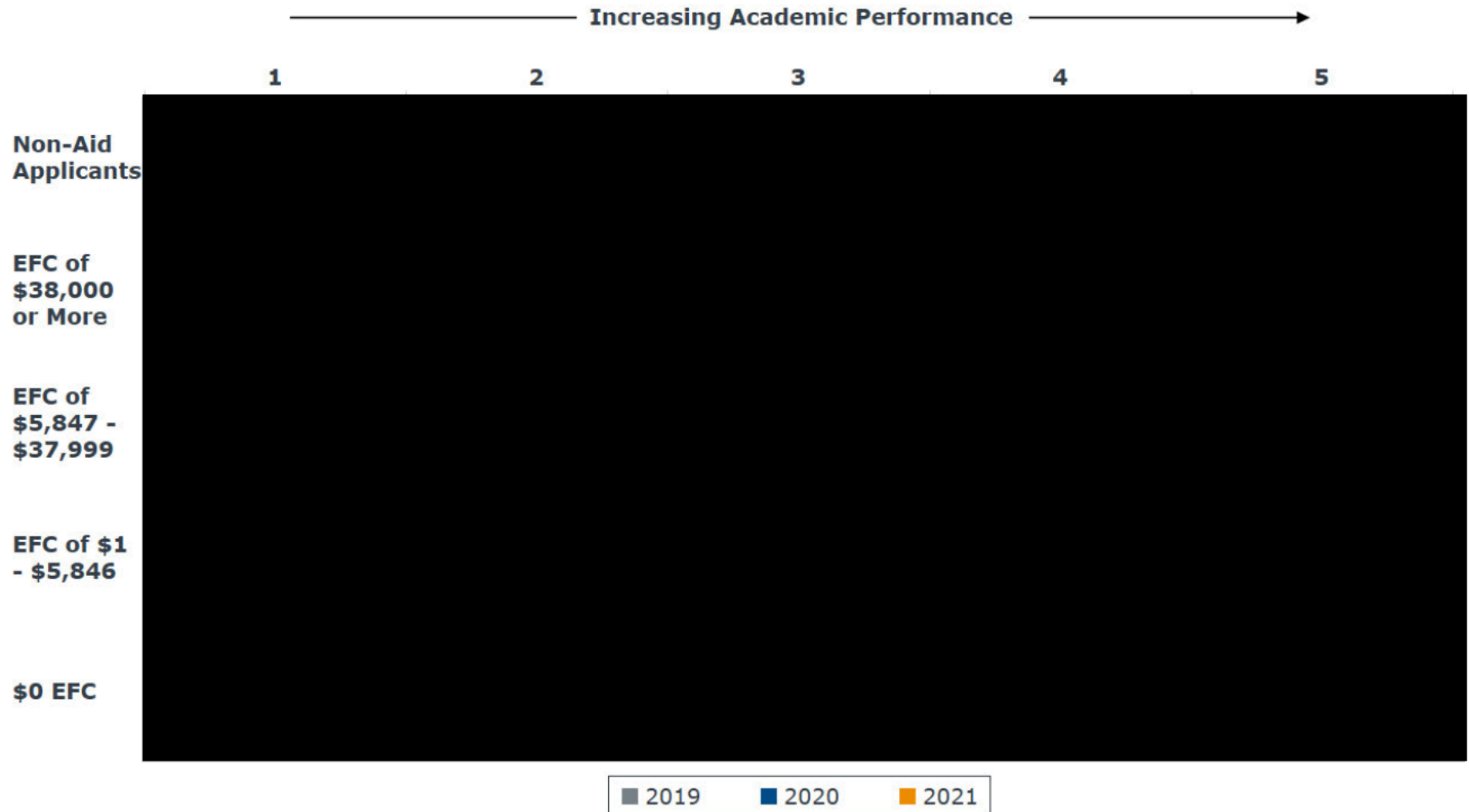
## Model Population



# Average Total Grant for Admits



## Model Population



# Top Ten High Schools



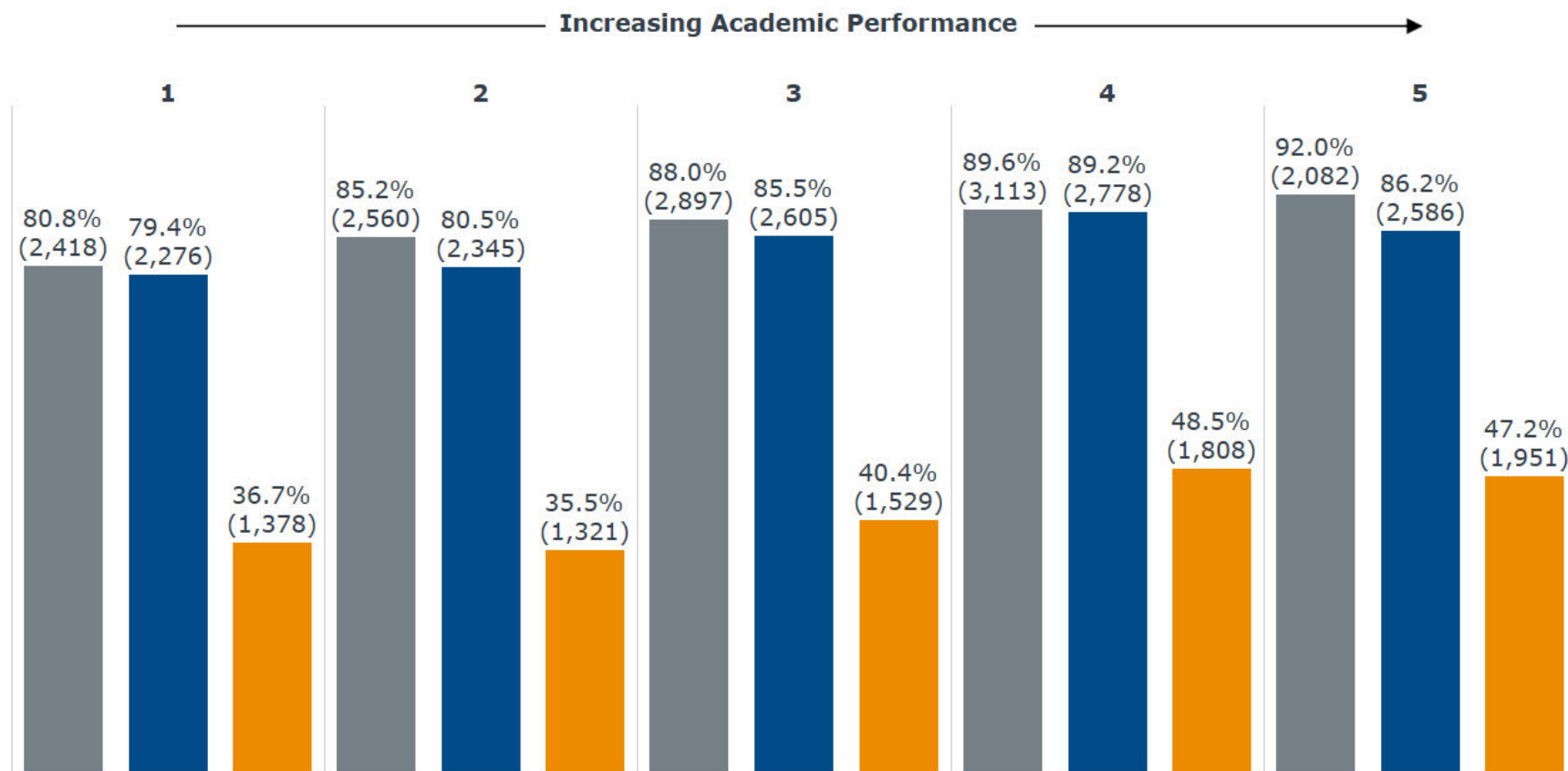
## Full-Time Freshmen

Rank	School	Admits				Enrolled				Yield			
		2019	2020	2021	3 Year Average	2019	2020	2021	3 Year Average	2019	2020	2021	3 Year Average
1	Bozeman High School - Bozeman, MT	287	308	305	297	171	165	160	165	59.6%	53.6%	54.1%	55.7%
2	Billings West High School - Billings, MT	139	168	214	171	57	65	72	65	41.0%	38.7%	34.8%	37.7%
3	Helena High School - Helena, MT	151	118	167	143	85	59	66	70	56.3%	50.0%	41.5%	49.1%
4	Billings Senior High School - Billings, MT	145	109	140	129	57	38	49	48	39.3%	34.9%	36.6%	37.1%
5	Capital High School - Helena, MT	105	110	181	128	48	41	56	48	45.7%	37.3%	33.1%	37.8%
6	Skyview High School - Billings, MT	108	104	134	114	51	39	44	45	47.2%	37.5%	34.1%	39.3%
7	Belgrade High School - Belgrade, MT	94	88	100	93	64	51	48	54	68.1%	58.0%	50.0%	58.6%
8	Charles M Russell High School - Great Falls, MT	90	81	102	89	42	39	30	37	46.7%	48.1%	31.3%	41.6%
9	Sentinel High School - Missoula, MT	83	75	105	87	40	42	29	37	48.2%	56.0%	28.4%	42.7%
10	Glacier High School - Kalispell, MT	72	107	85	85	25	44	24	31	34.7%	41.1%	31.2%	36.3%

# Admits by Academic Rank: Admits by Each Rank with Test Score on File



## Model Population



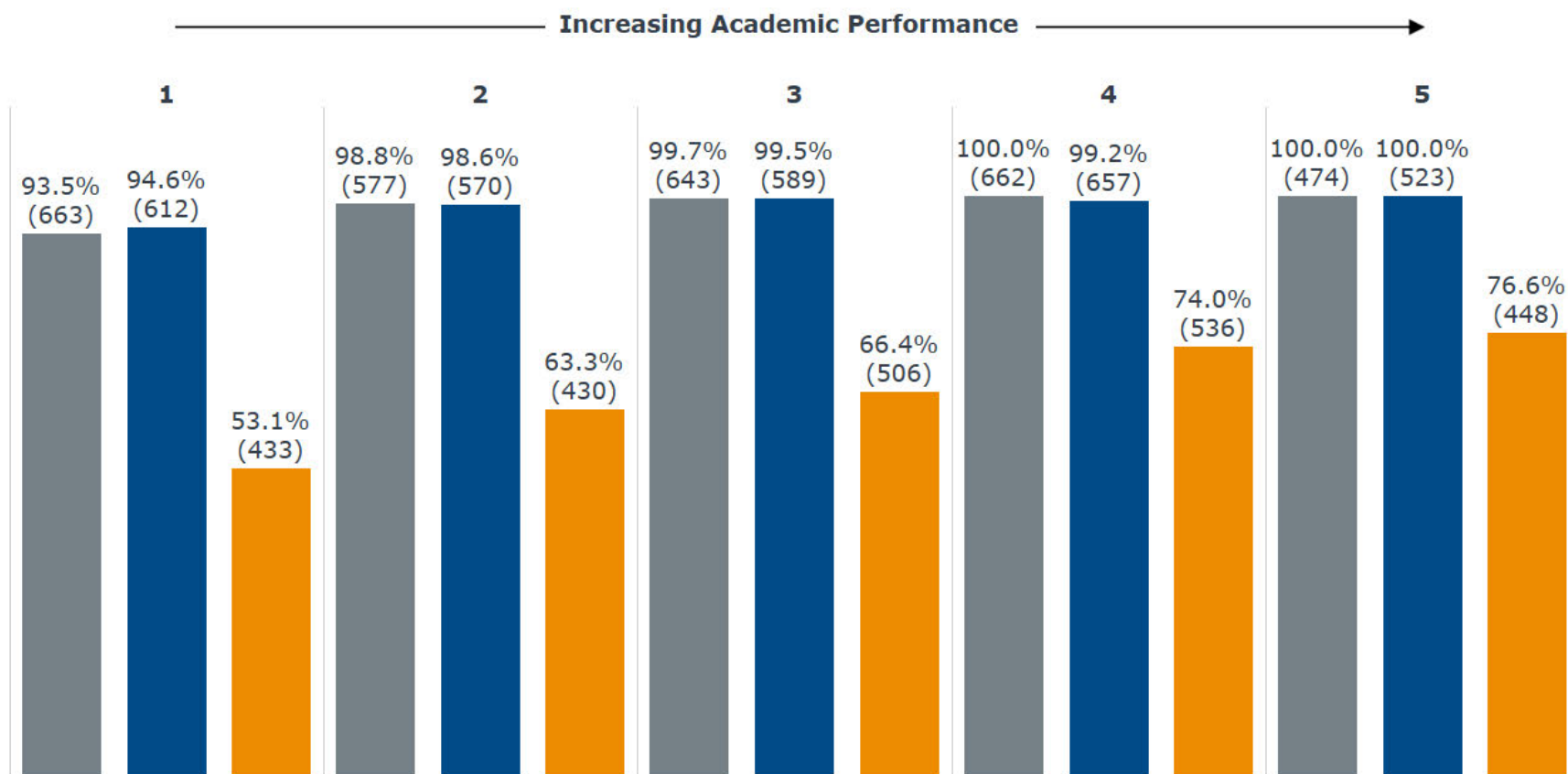
■ 2019 ■ 2020 ■ 2021  
% = Proportion of the rank ( # ) = Admits



# Enrolled by Academic Rank: Enrolled by Each Rank with Test Score on File



## Model Population

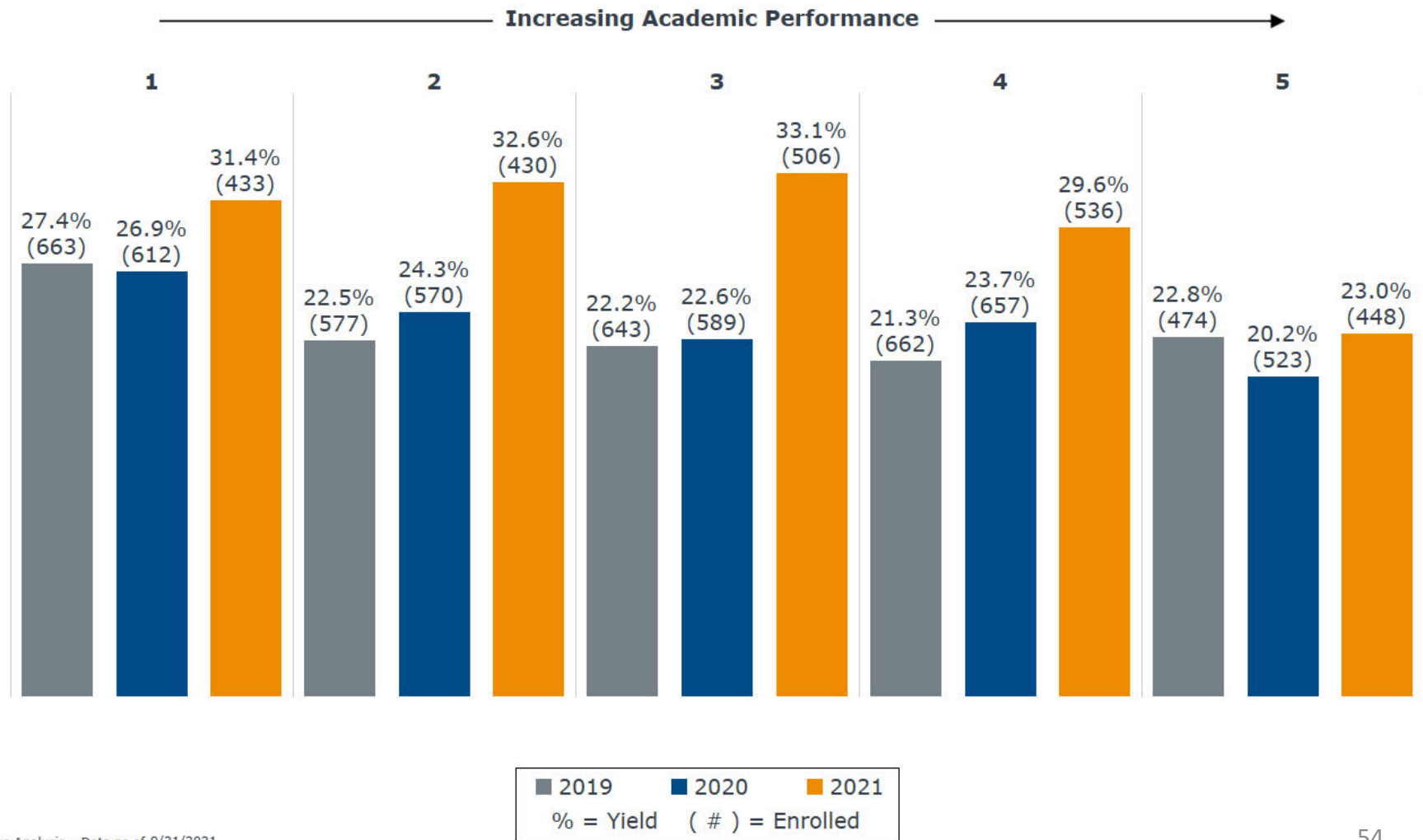


■ 2019 ■ 2020 ■ 2021  
 % = Proportion of the rank ( # ) = Enrolled

# Yield by Academic Rank: Yield by Each Rank with Test Score on File



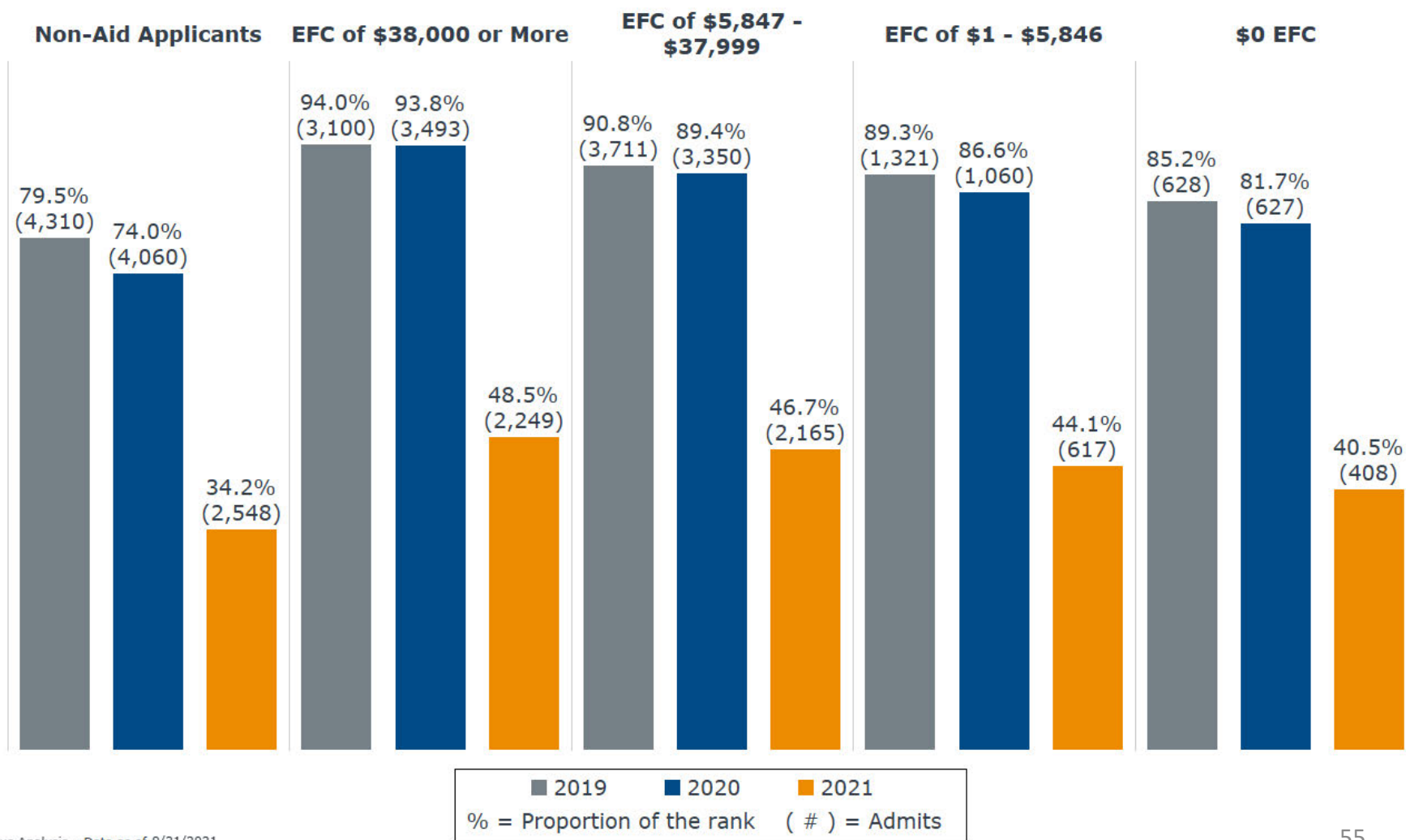
## Model Population



# Admits by Ability to Pay: Admits by Each Rank with Test Score on File



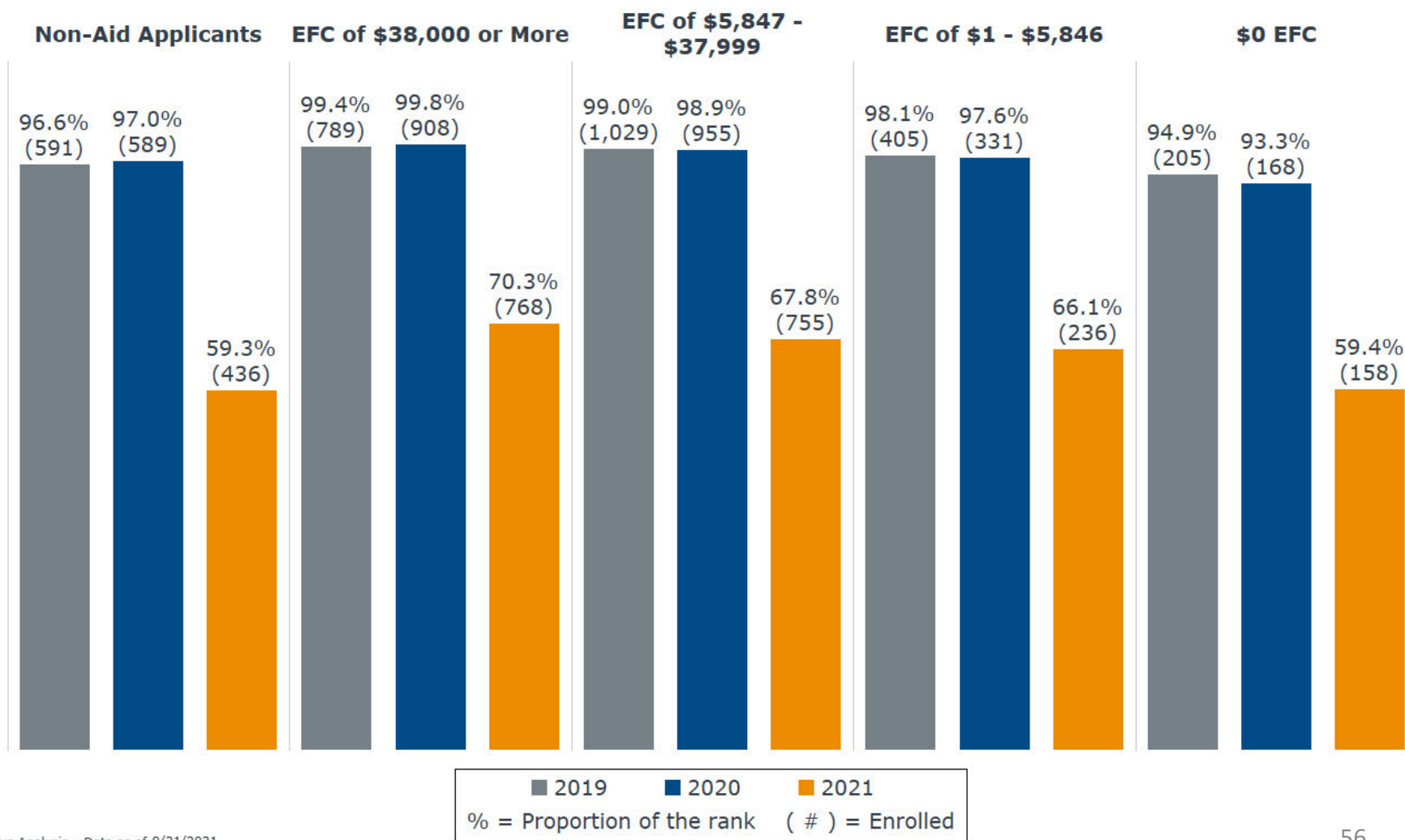
## Model Population



# Enrolled by Ability to Pay: Enrolled by Each Rank with Test Score on File



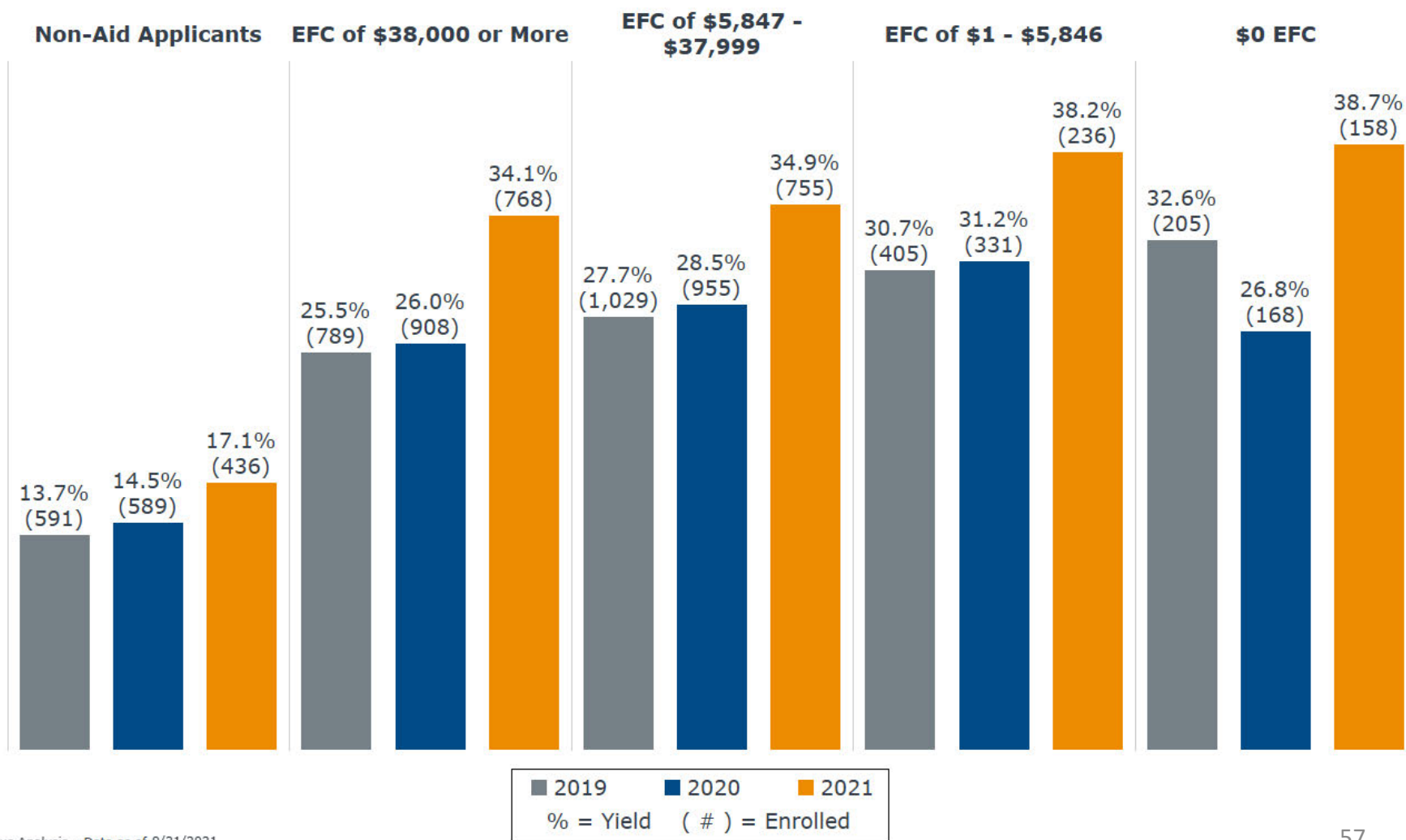
## Model Population



# Yield by Ability to Pay: Yield by Each Rank with Test Score on File



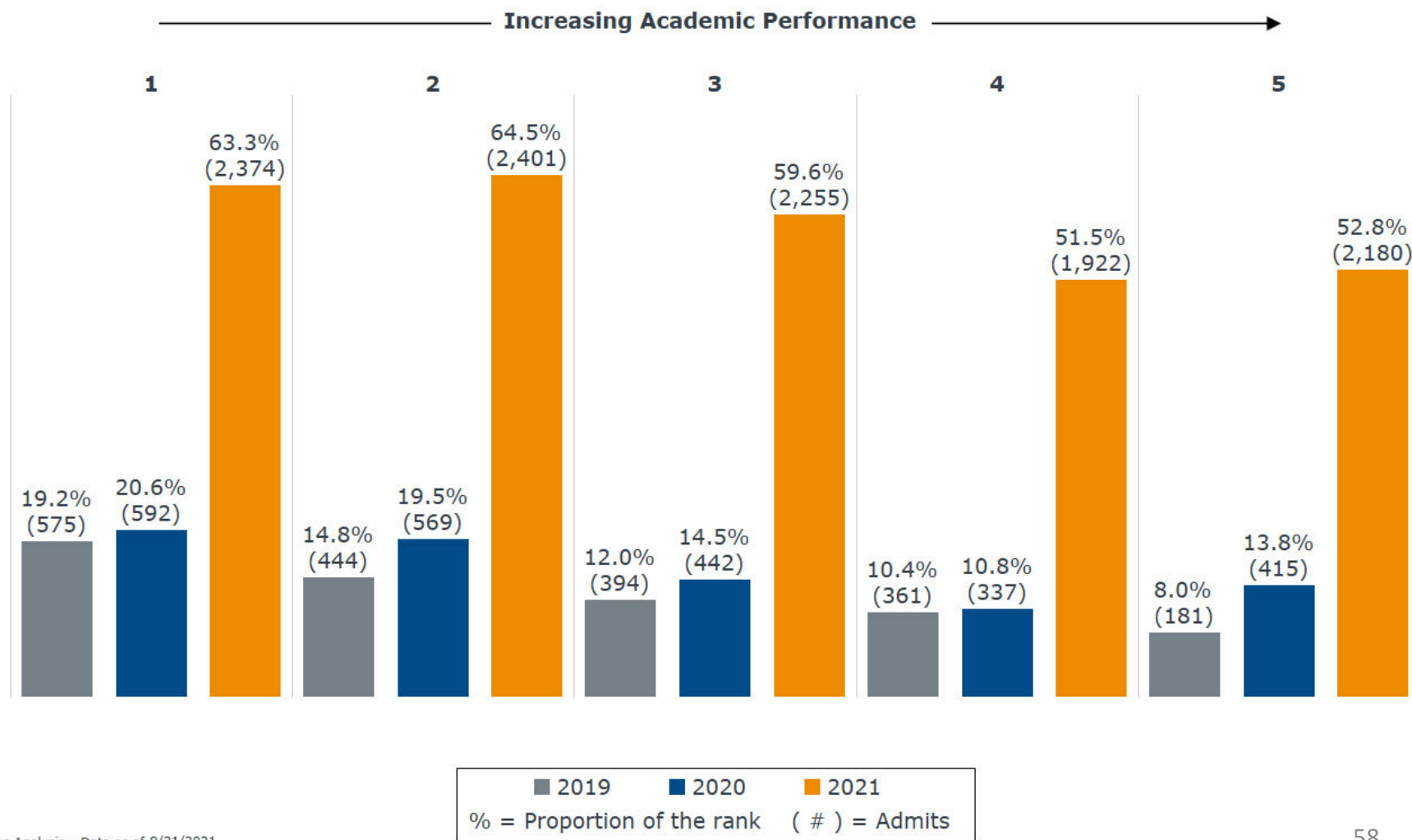
## Model Population



# Admits by Academic Rank: Admits by Each Rank with No Test Score on File



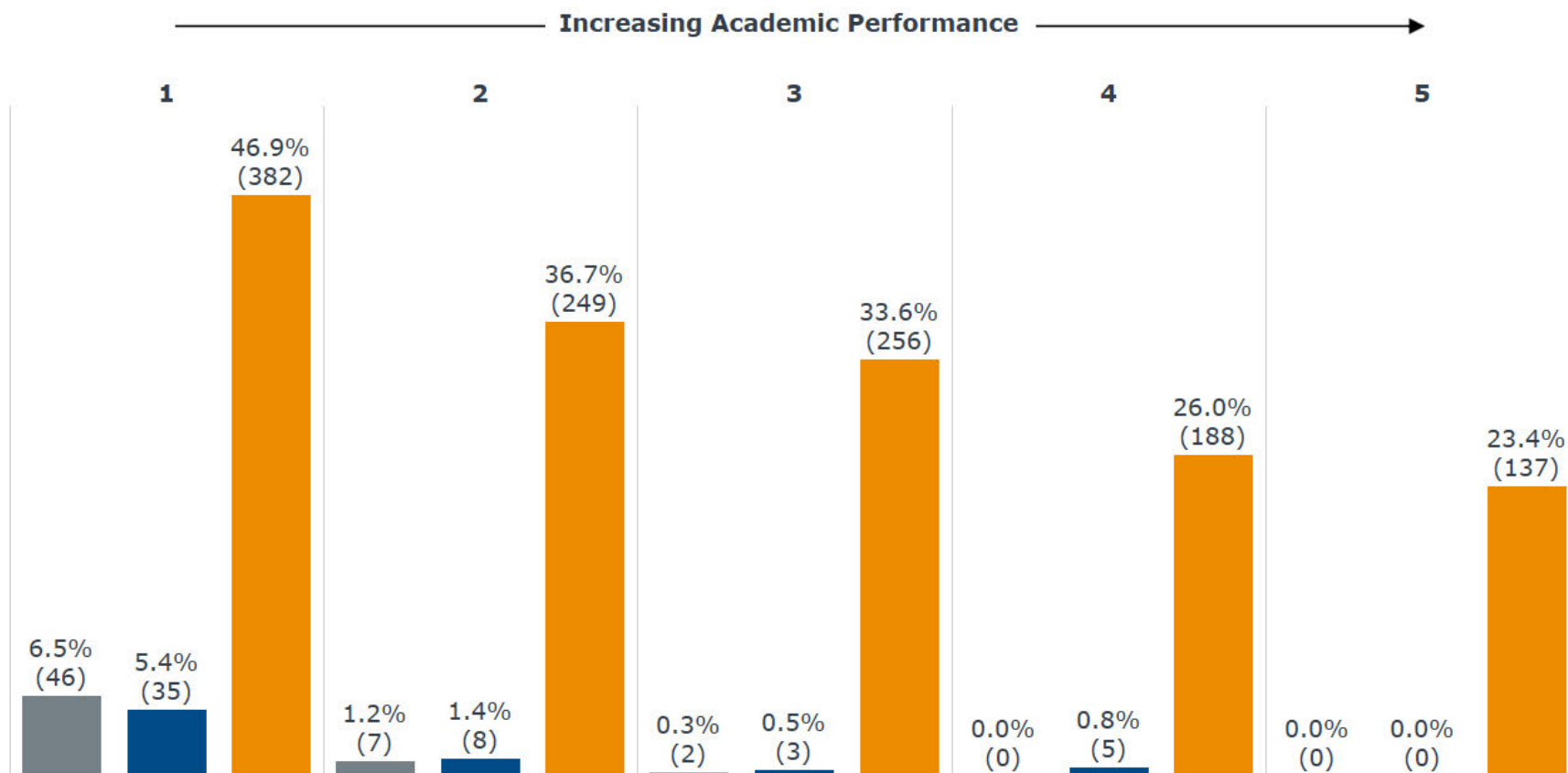
## Model Population





# Enrolled by Academic Rank: Enrolled by Each Rank with No Test Score on File

## Model Population

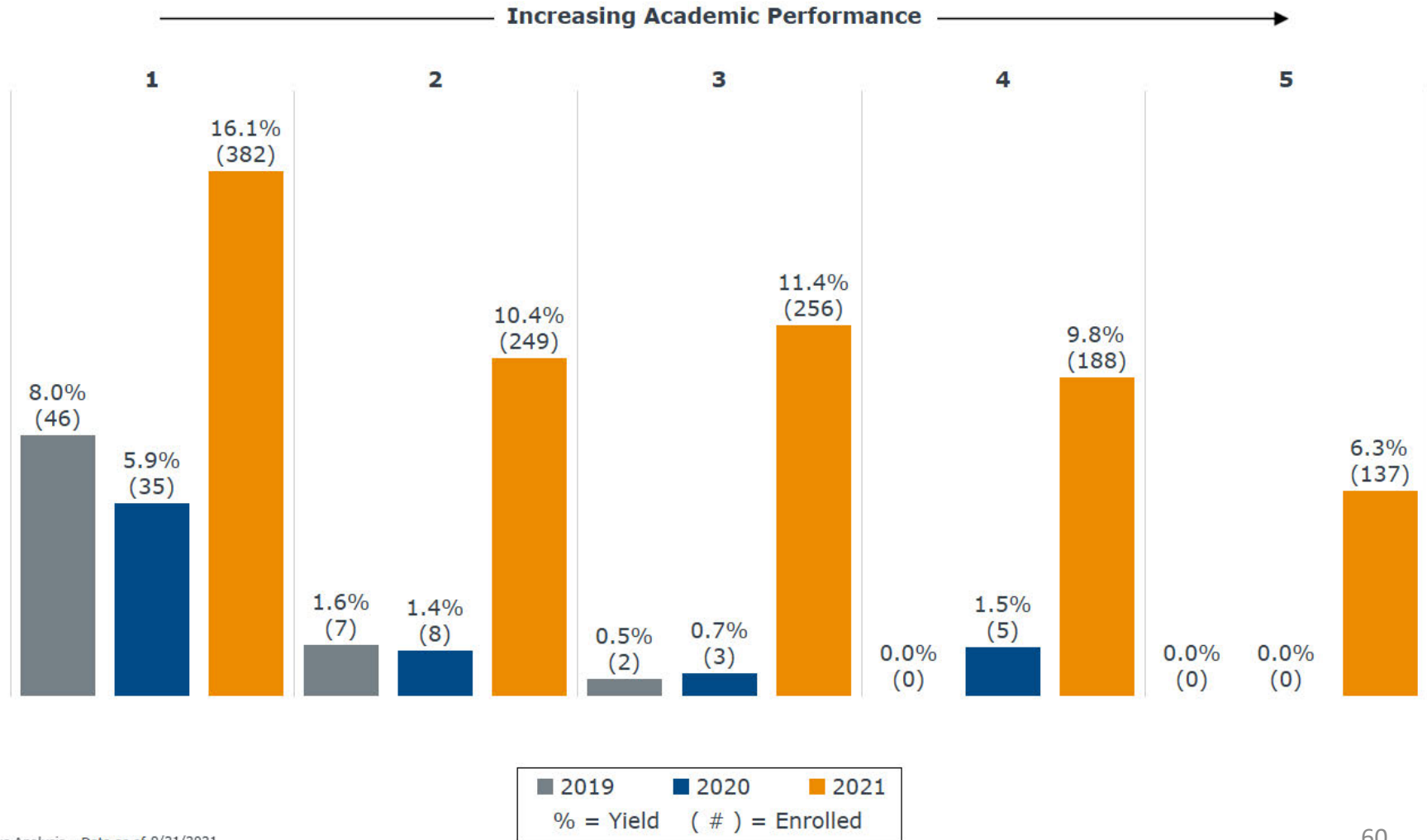


■ 2019 ■ 2020 ■ 2021  
% = Proportion of the rank ( # ) = Enrolled

# Yield by Academic Rank: Yield by Each Rank with No Test Score on File



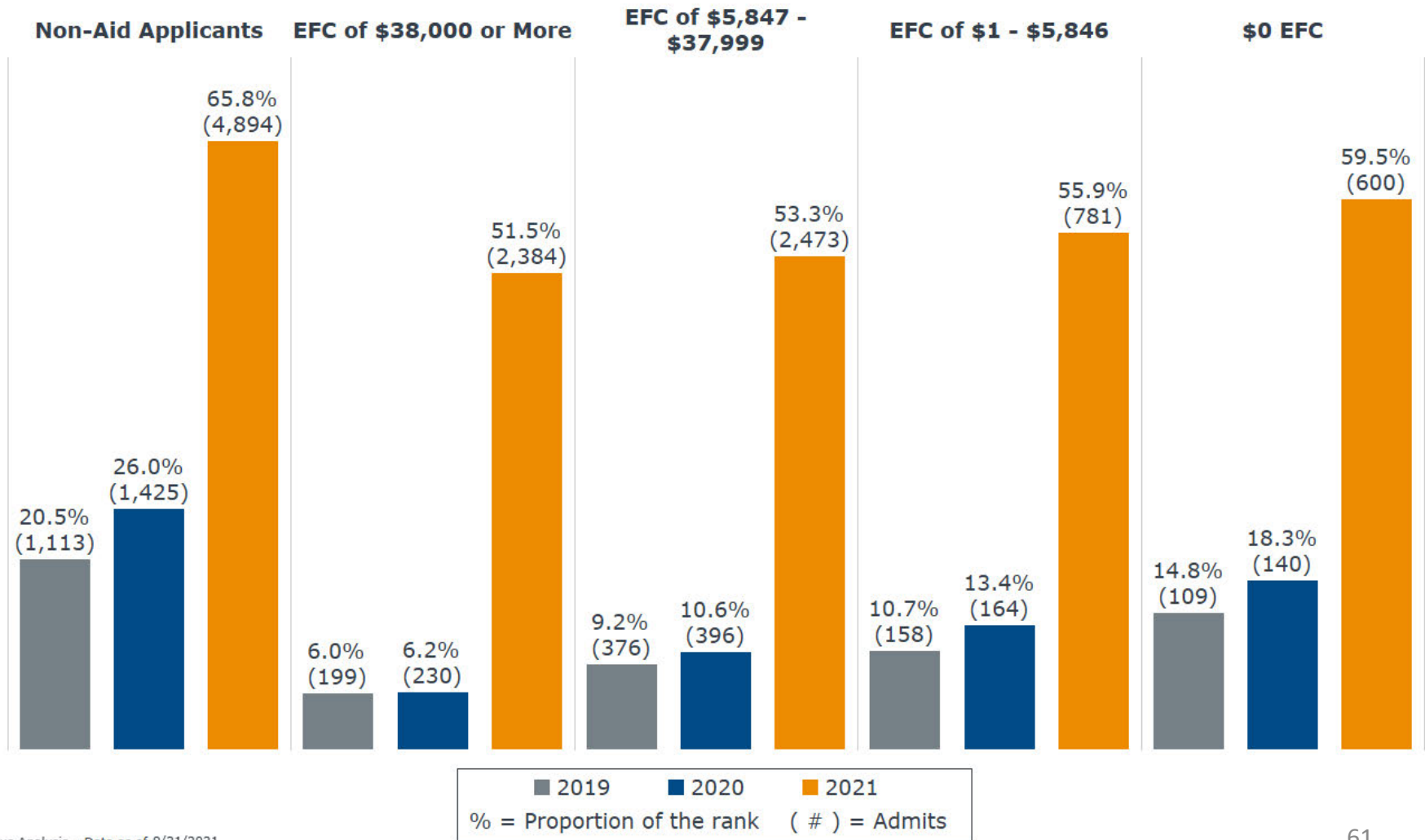
## Model Population





# Admits by Ability to Pay: Admits by Each Rank with No Test Score on File

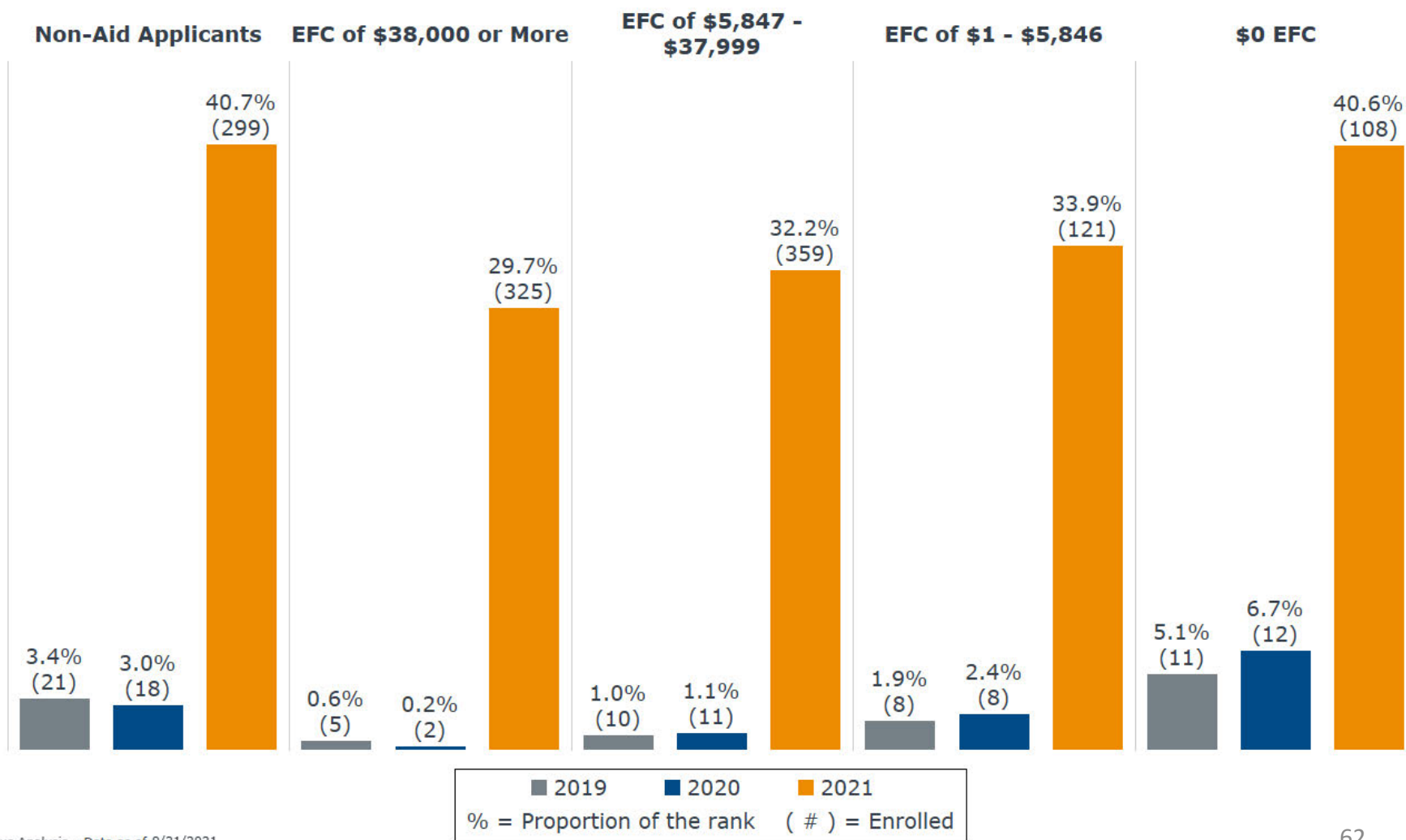
## Model Population



# Enrolled by Ability to Pay: Enrolled by Each Rank with No Test Score on File



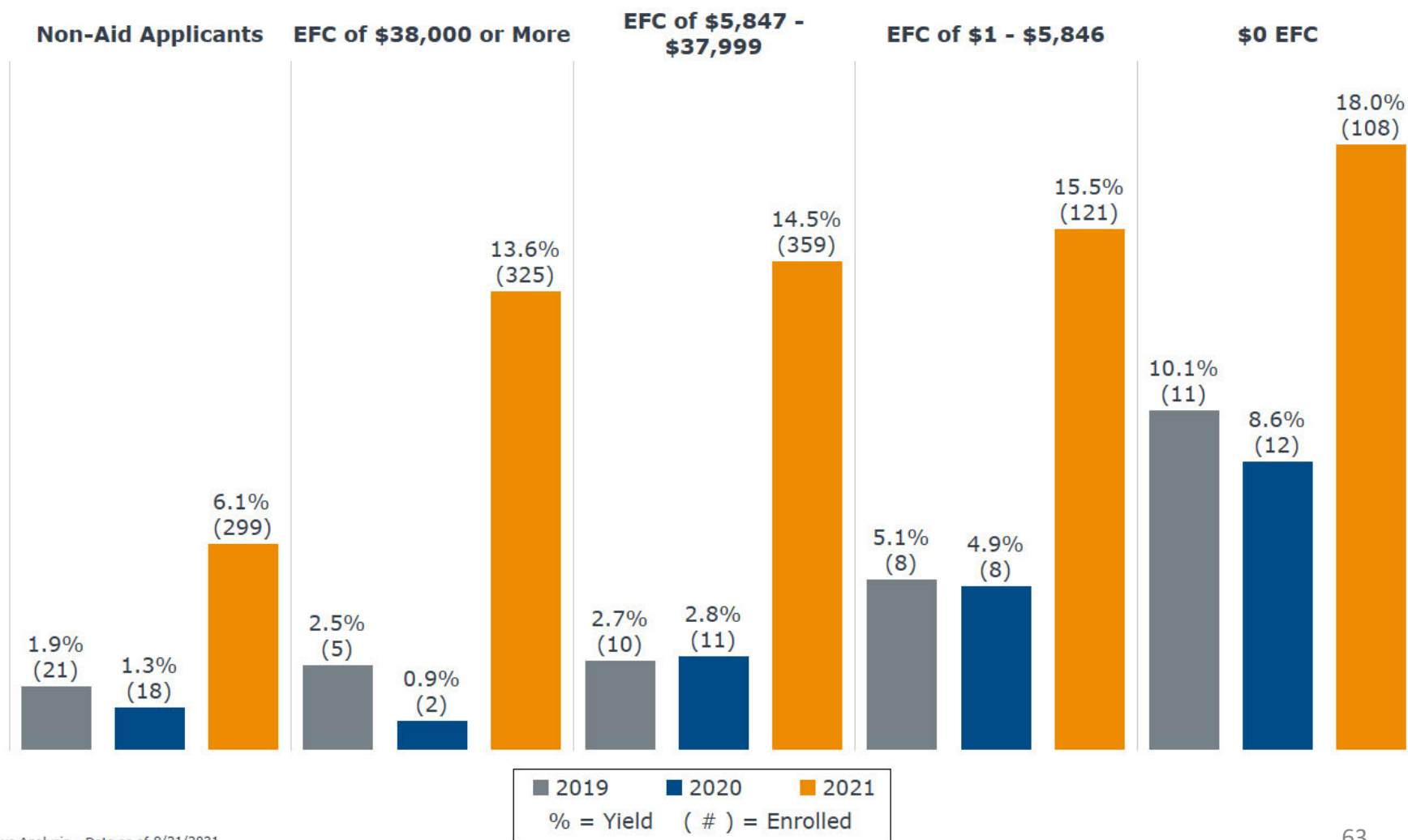
## Model Population



# Yield by Ability to Pay: Yield by Each Rank with No Test Score on File



## Model Population



1

National Landscape

2

Full-Time Freshmen Summaries

3

Model Population Analysis

4

Appendix



Washington DC | Richmond | Birmingham | Minneapolis | New York  
202-747-1000 [eab.com](http://eab.com)