



Financial Aid Optimization Analysis

Montana State University-Bozeman
October 2018

Financial Aid

Financial Aid

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National Landscape

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Full-Time Freshman Summaries

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Model Population Analysis

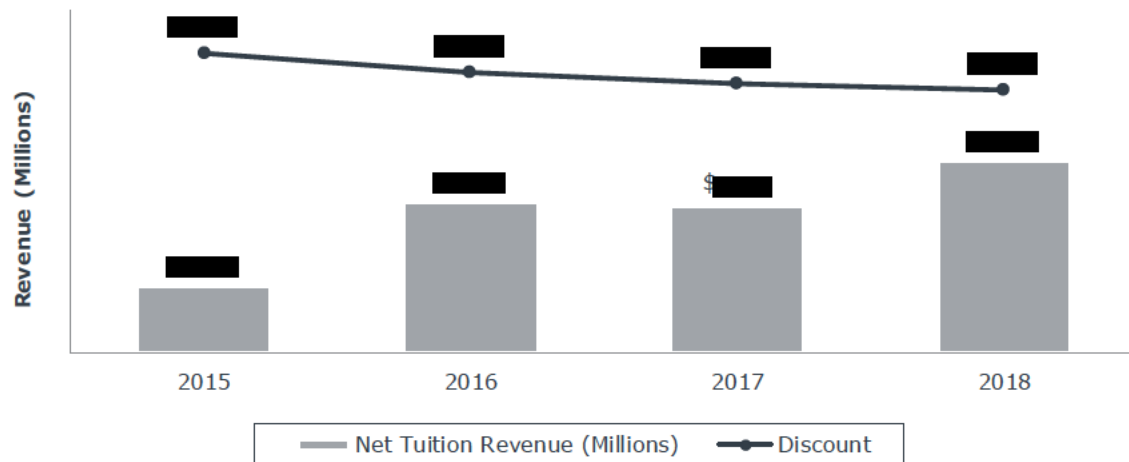
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Appendix

MSU-Bozeman Full-Time Freshmen Revenues and Discount

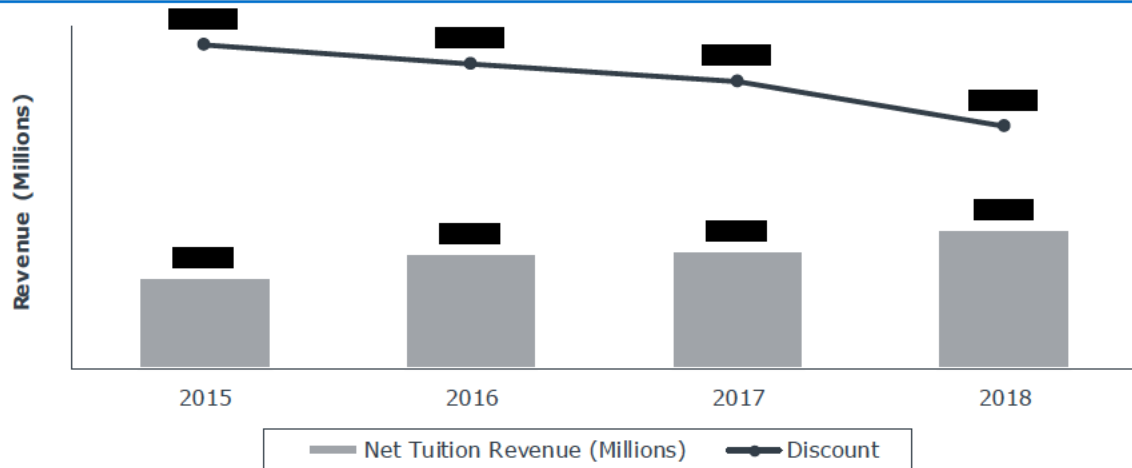


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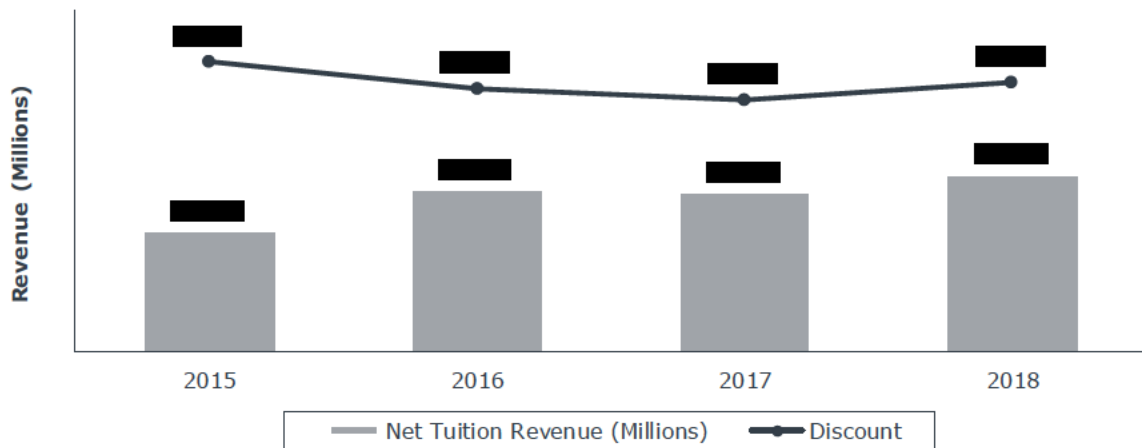
Full-Time Freshman Enrollment:	2868	3335	3092	3209
Annual Tuition & Fees:	\$14,059	\$15,161	\$15,696	\$16,844
Avg Net Tuition Rev Per Student:				
Average Test Score:	24.6	24.6	24.4	24.5

MSU-Bozeman Full-Time Resident Freshman Revenues and Discount



Full-Time Freshmen Enrollment	1441	1642	1518	1476
Annual Tuition & Fees	\$6,800	\$6,887	\$7,047	\$7,278
Avg Net Tuition Rev Per Student:				
Average Test Score:	23.6	23.7	23.6	23.6

MSU-Bozeman Full-Time Freshmen Non-Resident Revenues and Discount



Full-Time
Freshmen
Enrollment

1427

1693

1574

1733

Annual Tuition &
Fees

\$21,390

\$23,185

\$24,039

\$24,992

Avg Net Tuition
Rev Per Student:

[Redacted]

[Redacted]

[Redacted]

[Redacted]

Average Test
Score:

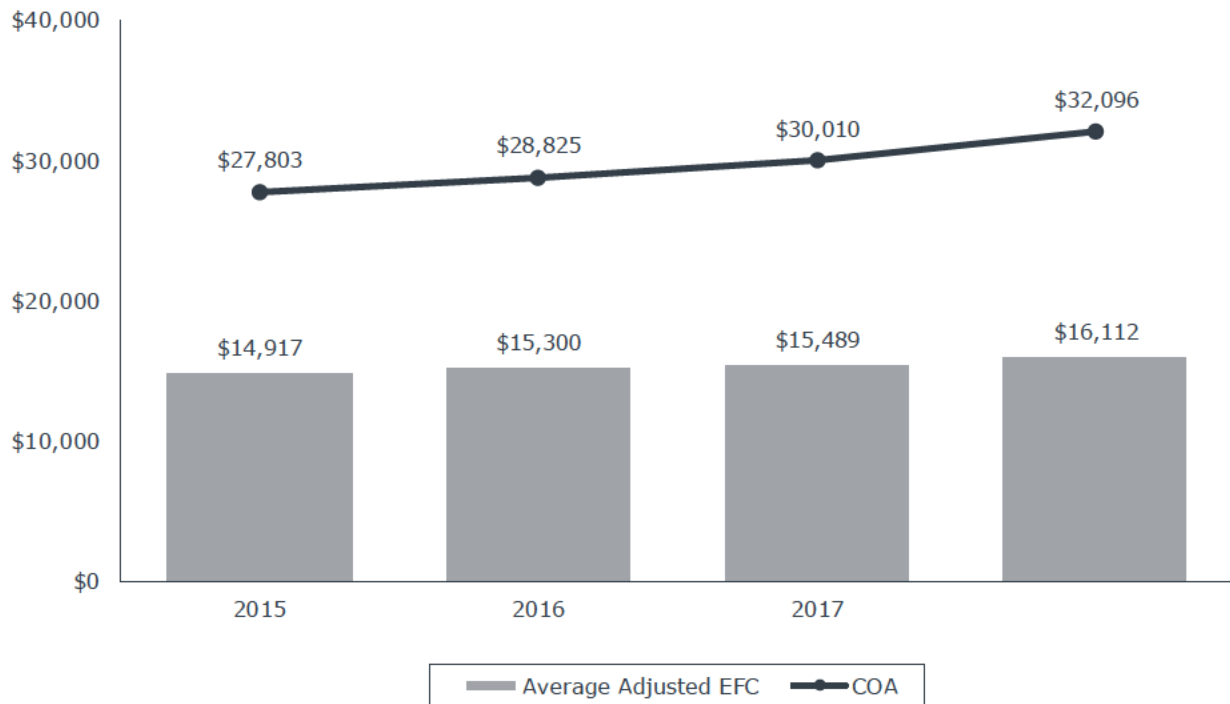
25.6

25.5

25.2

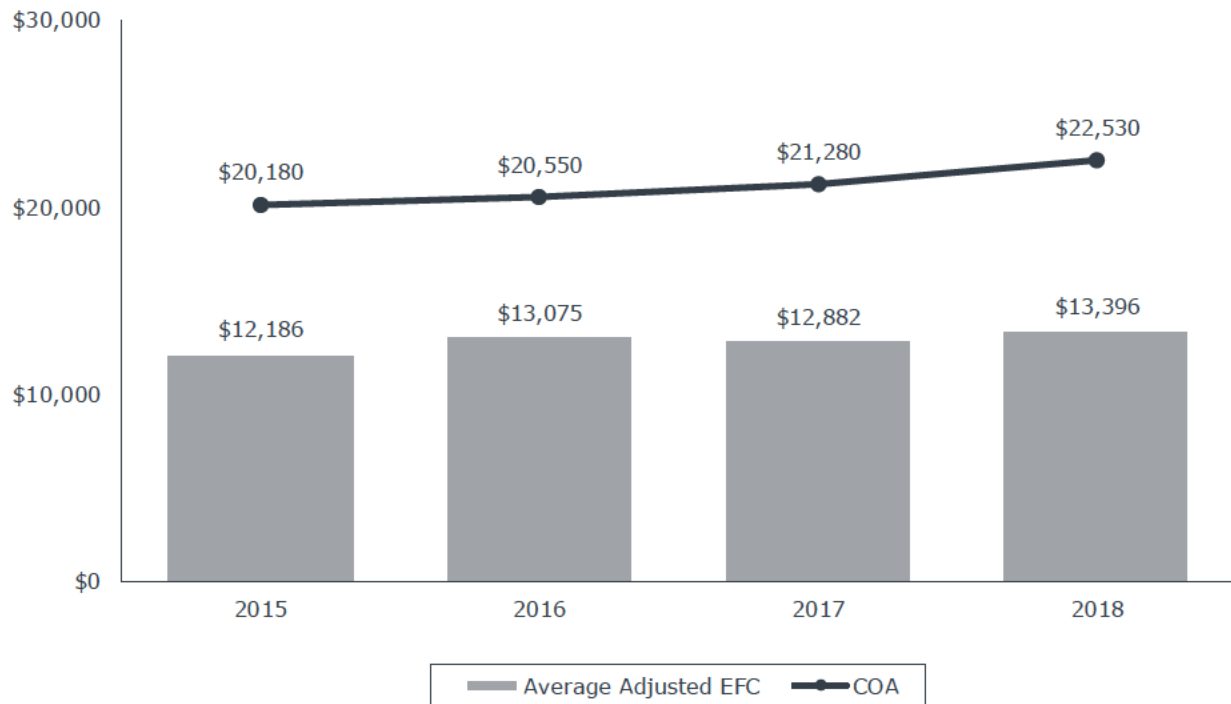
25.2

Average Expected Family Contribution



* Capped at yearly budget. Full budget imputed for non-FAFSA filers.

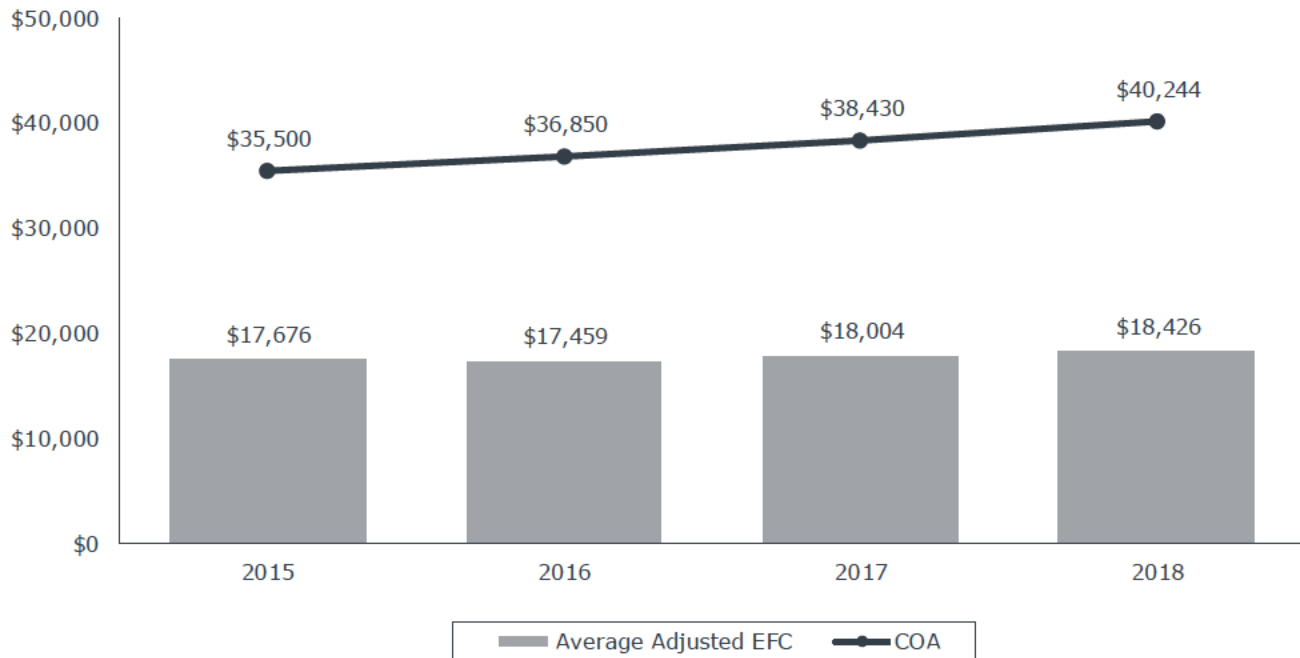
Average Expected Family Contribution (Residents)



* Capped at yearly budget. Full budget imputed for non-FAFSA filers.



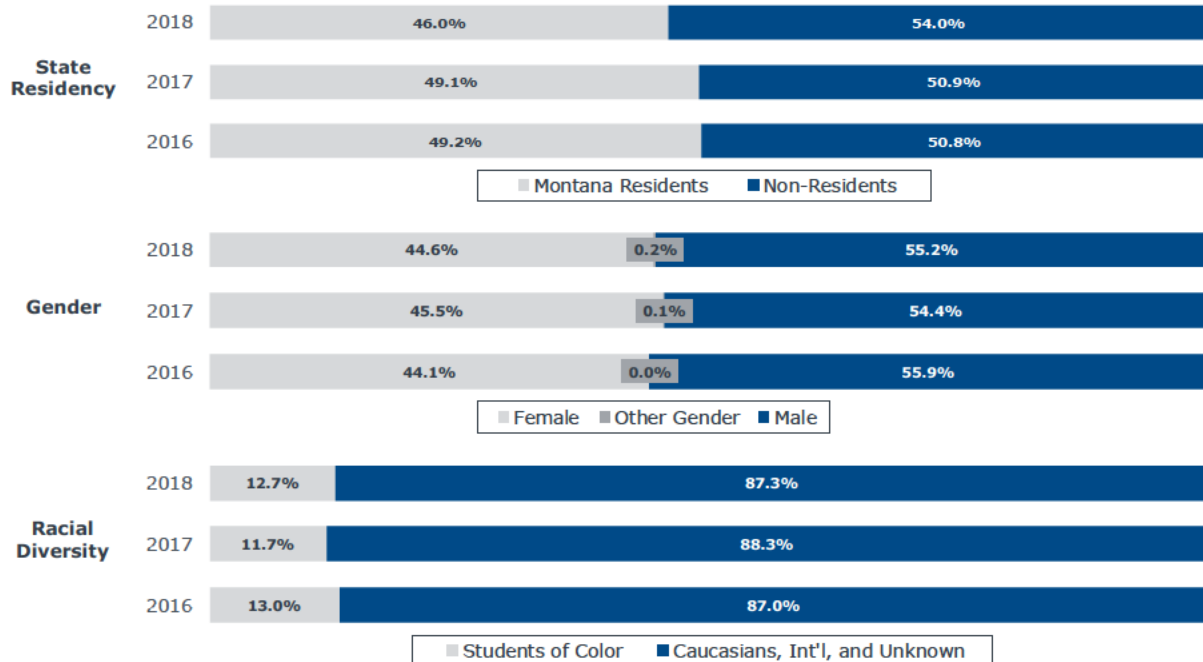
Average Expected Family Contribution (Non-Residents)¹⁰



* Capped at yearly budget. Full budget imputed for non-FAFSA filers.

Demographic Comparisons

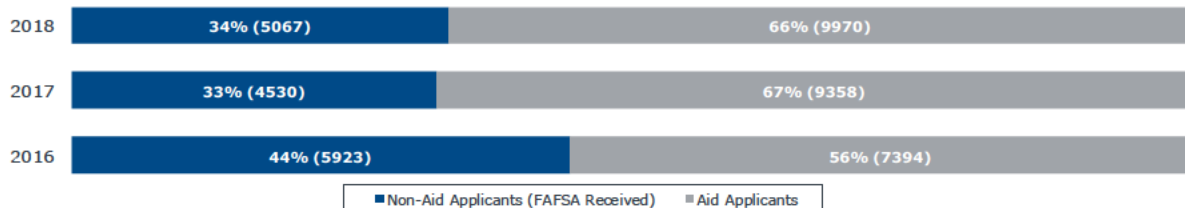
Full-Time Enrolled Freshmen



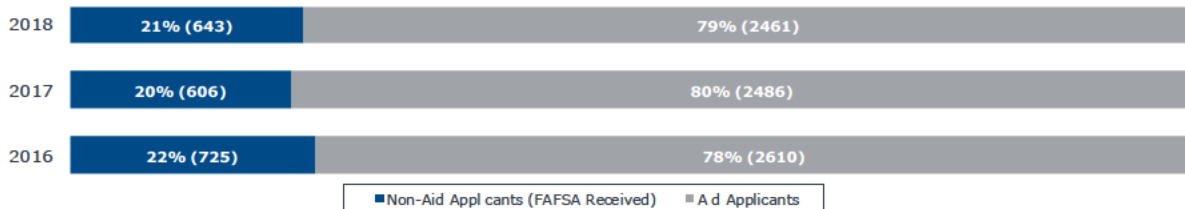
Aid Application Status

Full-Time Freshmen

Admits



Enrolled



MSU-Bozeman

2018 Financial Aid Optimization Analysis

Summary of Records Chosen for Analysis

	Admits	Enrolled	Yield	Institutional Gift	Net Revenue	Discount	Waivers	Athletic Scholarships	Discount w/o Waivers and Athletic
All New Students:	16,361	3,842	23%	\$14,885,437			\$0	\$224,946	
Transfers:	1,310	633	48%	\$385,059			\$0	\$53,454	
Full-Time Freshman Total:	15,051	3,209	21%	\$14,500,378			\$0	\$171,492	
Athletes:	28	27	96%	\$236,132			\$0	\$171,492	
Internationals:	199	32	16%	\$2,000			\$0	\$0	
Independents:	163	62	38%	\$85,750			\$0	\$0	
No Academic Info:	42	1	2%	\$0			\$0	\$0	
Full-Time Freshman Excluded:	432	122	28%	\$323,882			\$0	\$171,492	
Model Population:	14,619	3,087	21%	\$14,176,496			\$0	\$0	

Deposit and Net Revenue Comparison



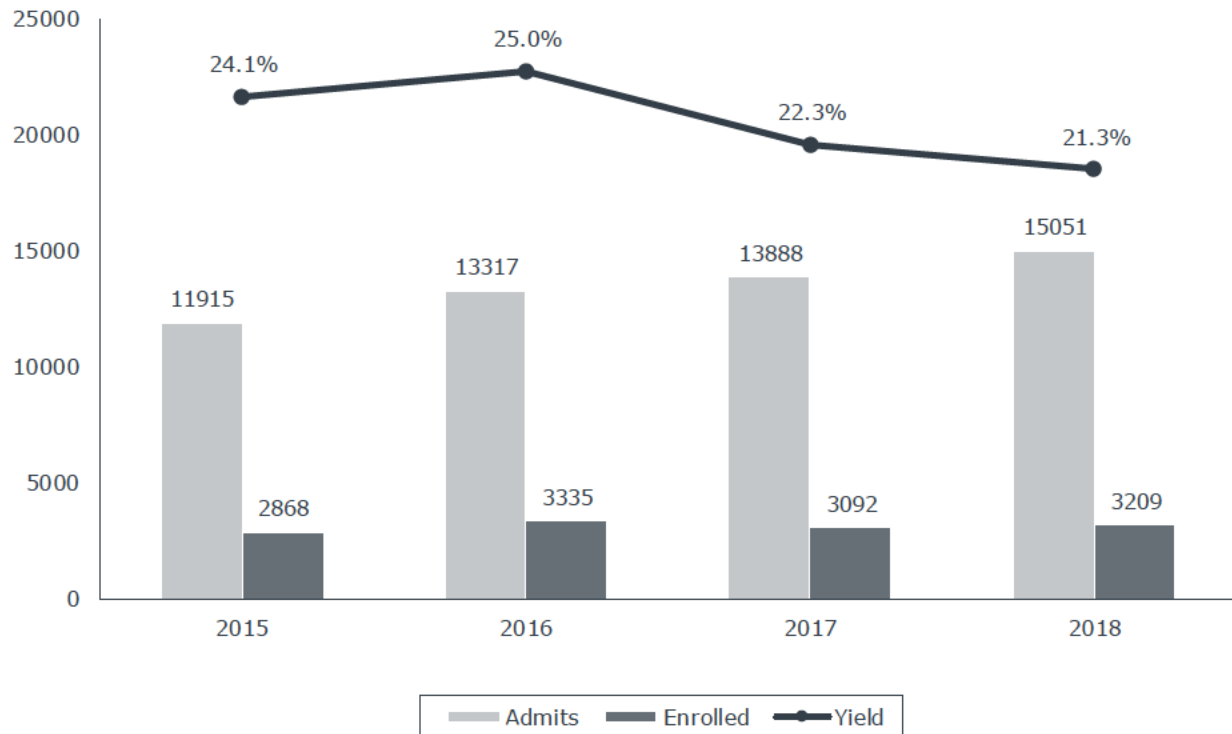
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Full-Time Freshmen Population Compared to Previous Years

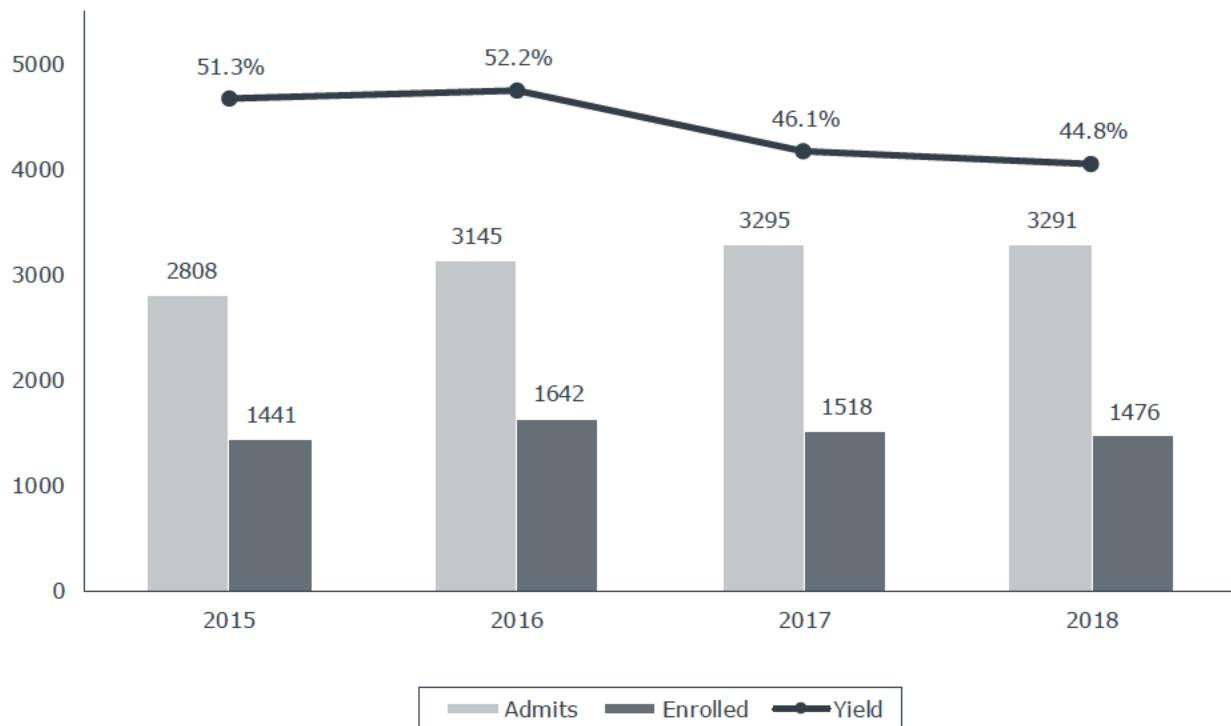
As of 07/30/2018

	2016 Enrollment	2017 Enrollment	2018 Net Deposits	2016 Average Net Revenue	2017 Average Net Revenue	2018 Average Net Revenue
Full-Time Freshmen	3335	3092	3080	\$ █████	█████	█████
Montana Residents	49.2%	49.1%	45.2%	\$ █████	█████	█████
Out-of-State	50.8%	50.9%	54.8%	█████	█████	█████
Males	55.9%	54.4%	54.7%	█████	█████	█████
Females	44.1%	45.5%	45.2%	█████	█████	█████
Students of Color	13.0%	11.7%	12.9%	█████	█████	█████
Visited Campus	58.9%	60.4%	62.5%	\$ █████	█████	█████
WUE	14.9%	6.2%	9.8%	█████	█████	█████
Non-Resident, Non-WUE	35.9%	44.7%	45.1%	█████	█████	█████
██████████	█████	█████	█████	█████	█████	█████
██████████	█████	█████	█████	█████	█████	█████
██	█████	█████	█████	█████	█████	█████
██	█████	█████	█████	█████	█████	█████
██████████	█████	█████	█████	█████	█████	█████
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██	█████	█████	█████	█████	█████	█████
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██████████	█████	█████	█████	█████	█████	█████

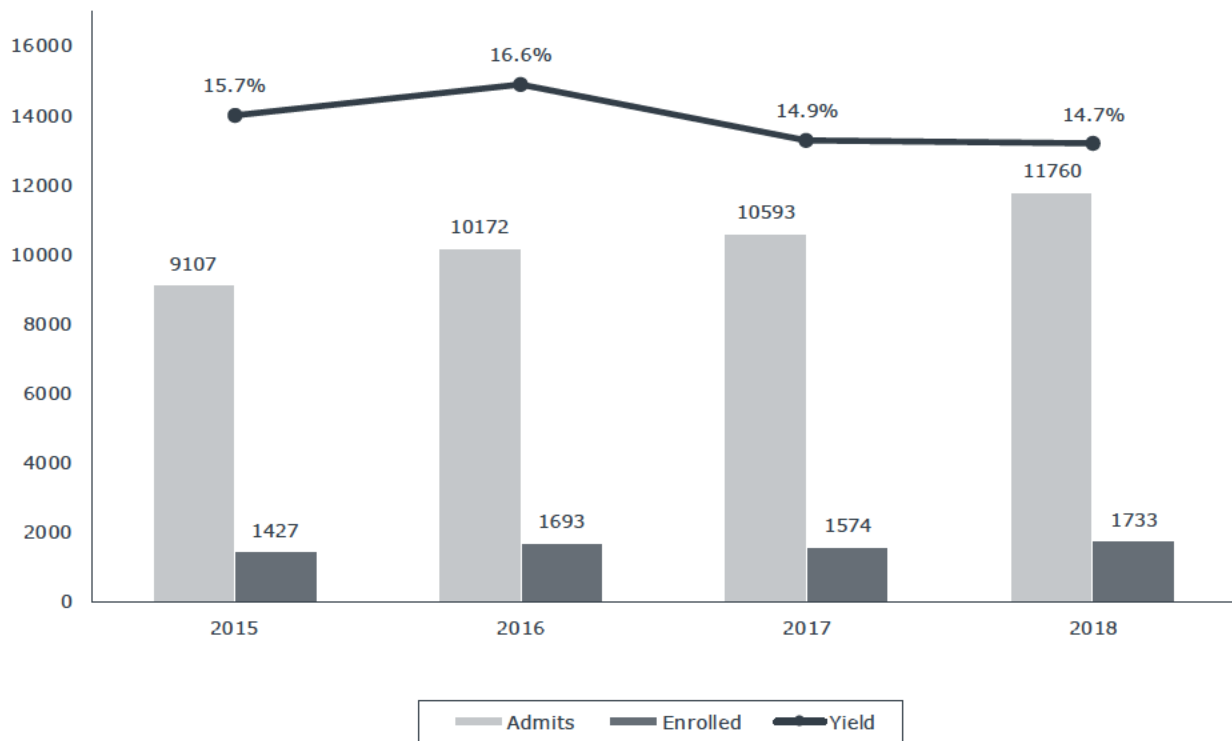
MSU-Bozeman Full-Time Freshmen Yield



MSU-Bozeman Full-Time Freshmen Yield (Residents)



MSU-Bozeman Full-Time Freshmen Yield (Non-Residents)



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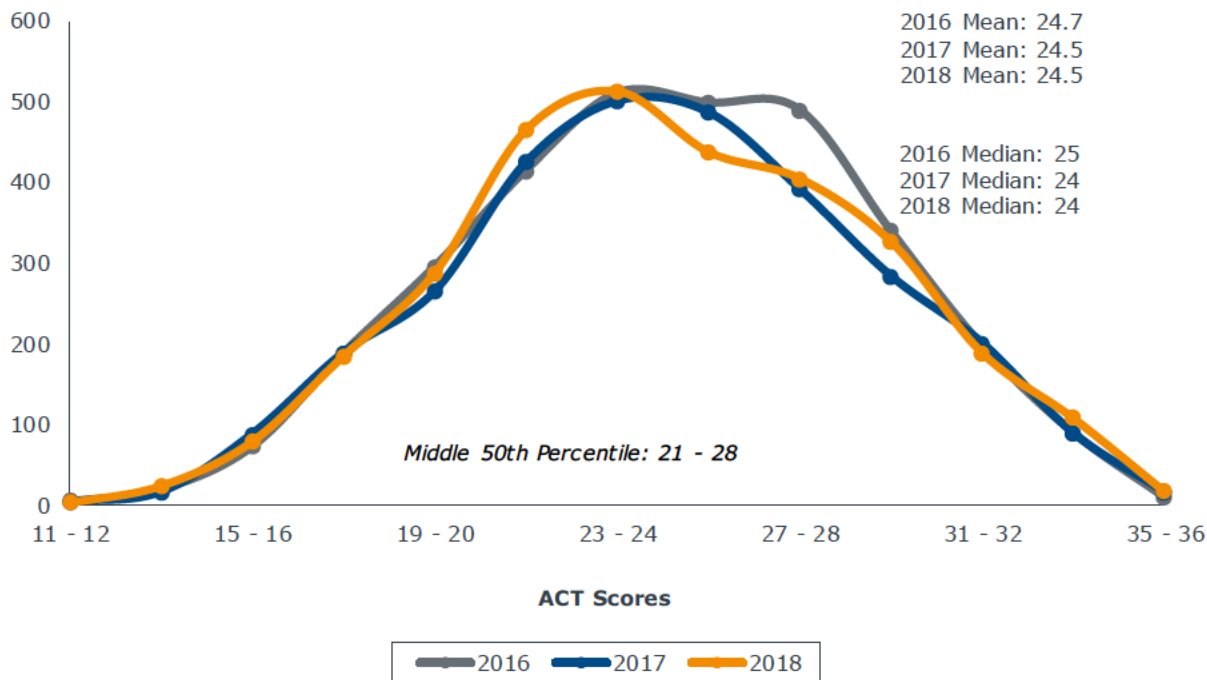
Model Population Analysis

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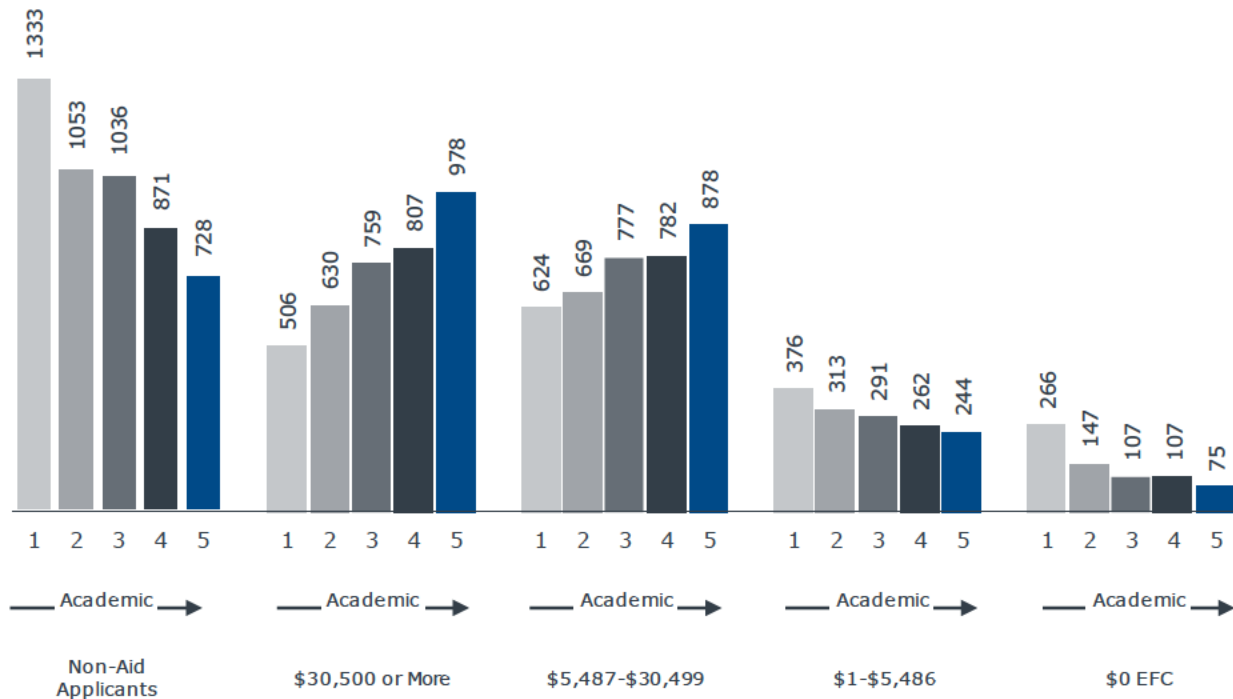
Enrolled by Test Score

Model Population



Admits by Cell: EFC and Academic Ranks

Model Population

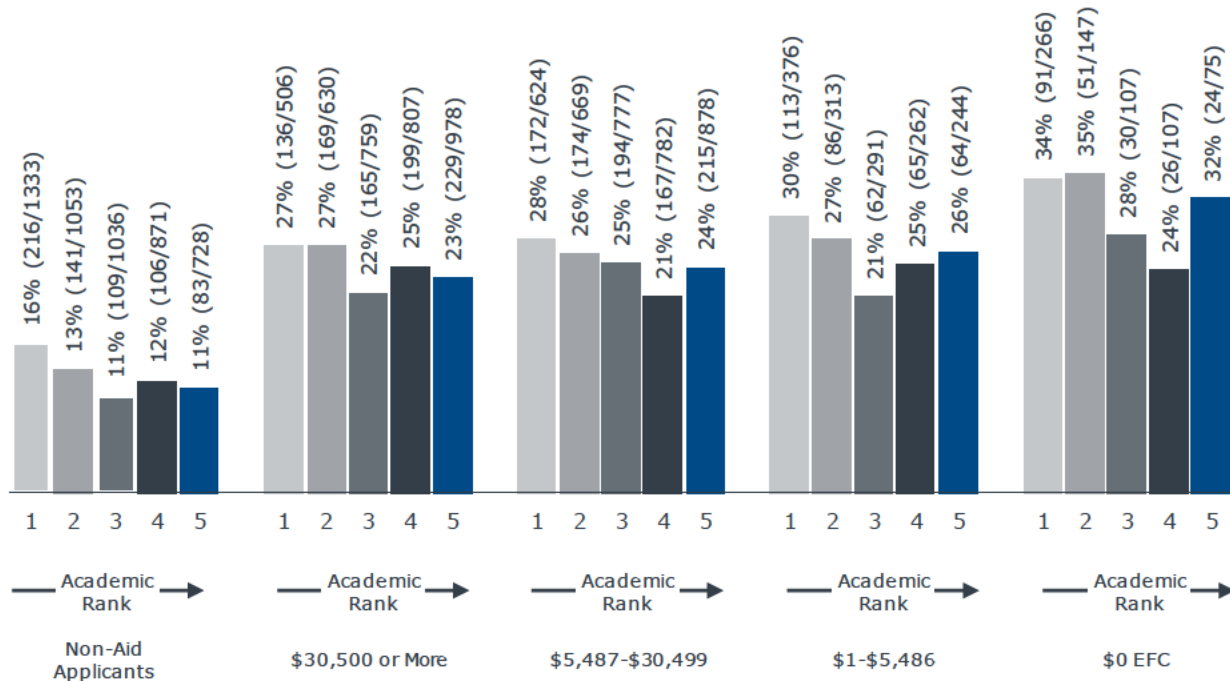


Yield by Cell: EFC and Academic Ranks

Model Population

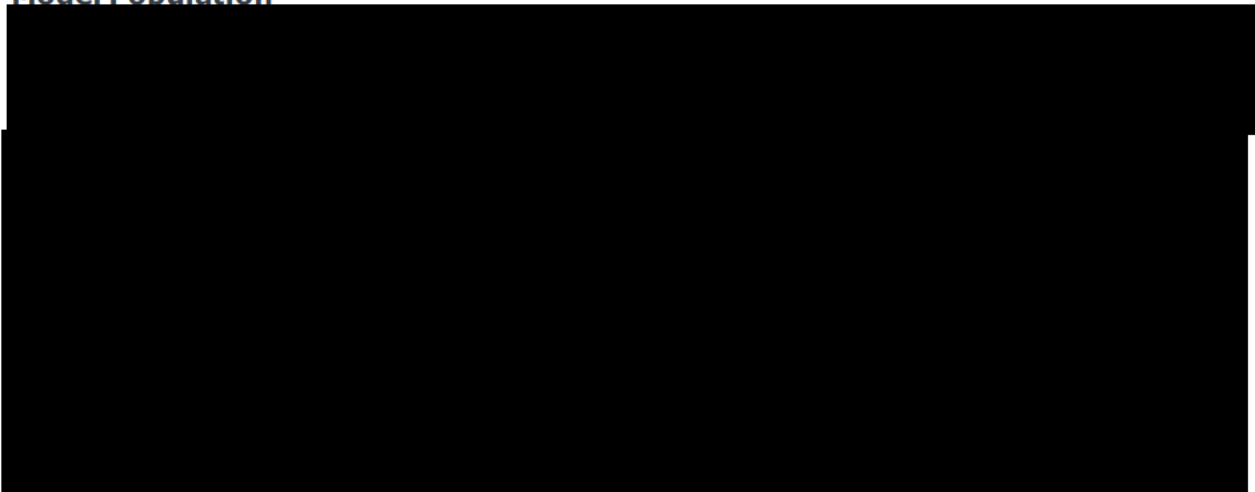
Current Year Data as of September 26, 2018

Academic Rank Parameters last re-normed in Summer 2018



Average Total Grant by Cell: EFC and Academic Ranks

Model Population



1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Academic Rank →					Academic Rank →					Academic Rank →					Academic Rank →					Academic Rank →				
Non-Aid Applicants					\$30,500 or More					\$5,487-\$30,499					\$1-\$5,486					\$0 EFC				

Parameters for Calculation of Academic Ranks

Model Population

Date Last Re-Normed: **Summer 2018**

Current Year Data Date: **9/26/2018**

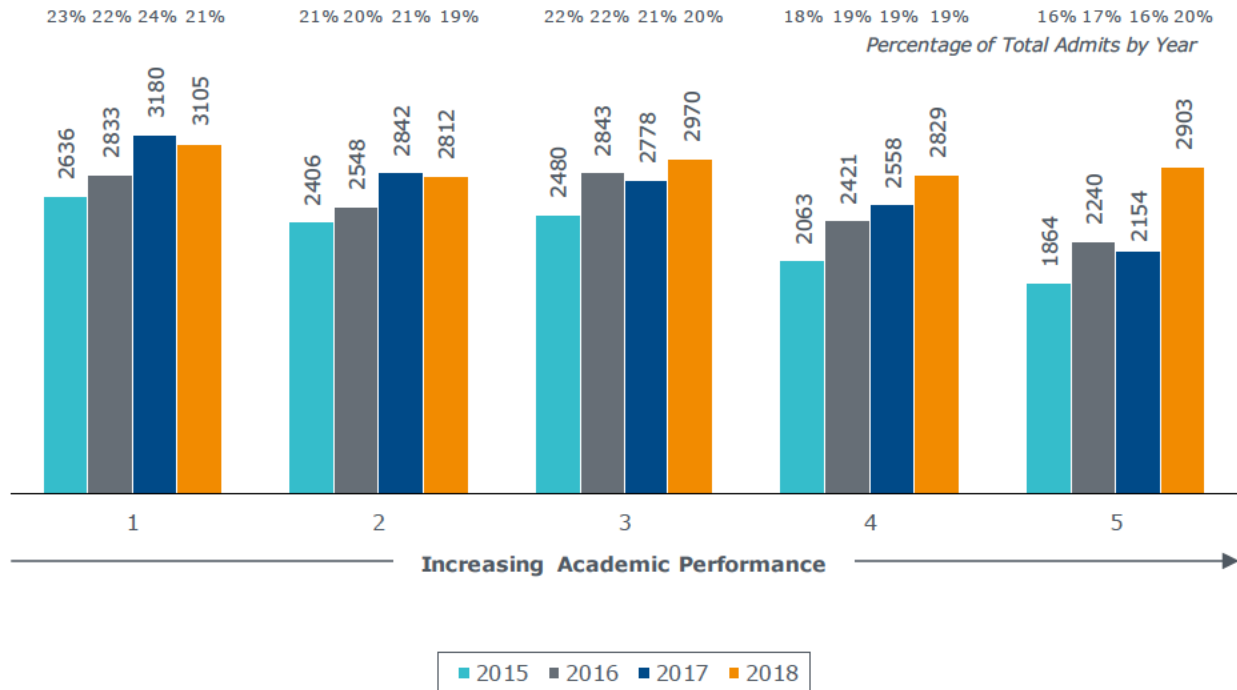
High School GPA Points		
GPA of at Least	Points (x2)	Record Count
0	0	0
1	1	1348
2	2	1377
3	3	1377
4	4	1369
5	5	1732
6	6	1586
7	7	1511
8	8	1574
9	9	276
10	10	2469
Total Values:		14619

ACT Score Points		
ACT Score of at Least	Points	Record Count
0	0	0
1	1	1212
2	2	1379
3	3	1104
4	4	2179
5	5	1362
6	6	1188
7	7	1131
8	8	2021
9	9	1766
10	10	1277
Total Values:		14619

Academic Index						
Total Points of at Least	Quintile	Academic Rank	Record Count	Average GPA	Average Rank	Average ACT
0	0	0	0			
1	1	1	3105			
10	2	2	2812			
15	3	3	2970			
20	4	4	2829			
25	5	5	2903			

Admits by Academic Rank

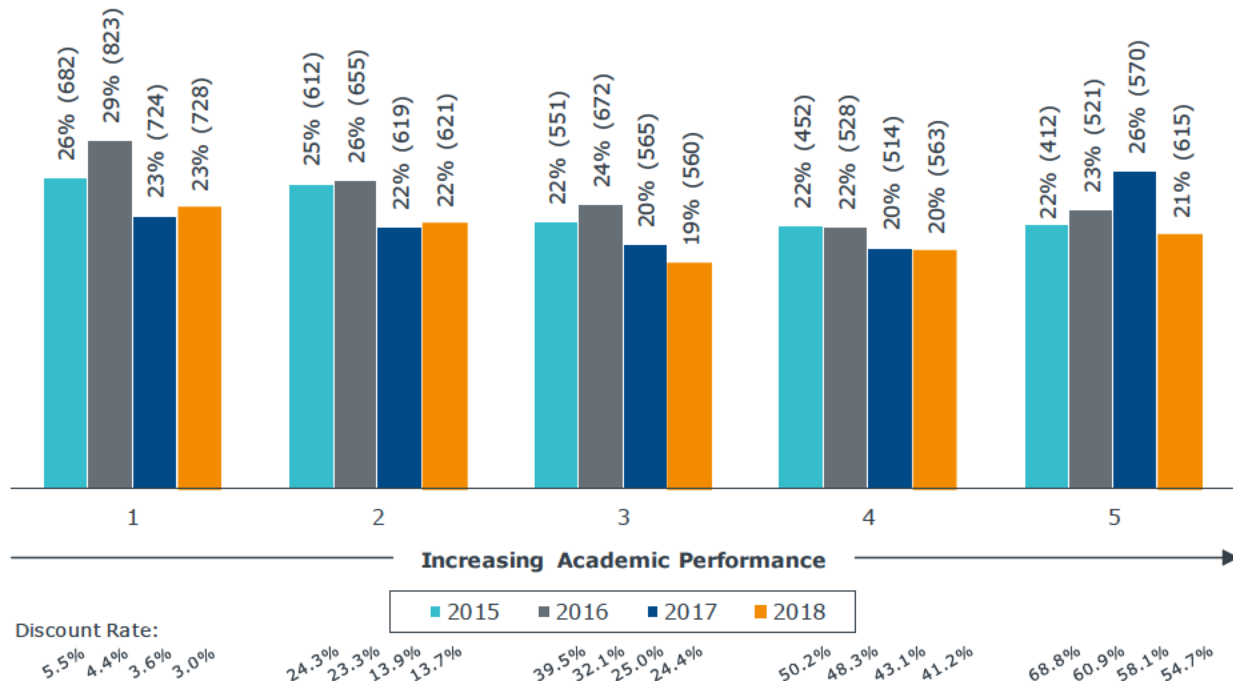
Model Population



Yield by Academic Rank

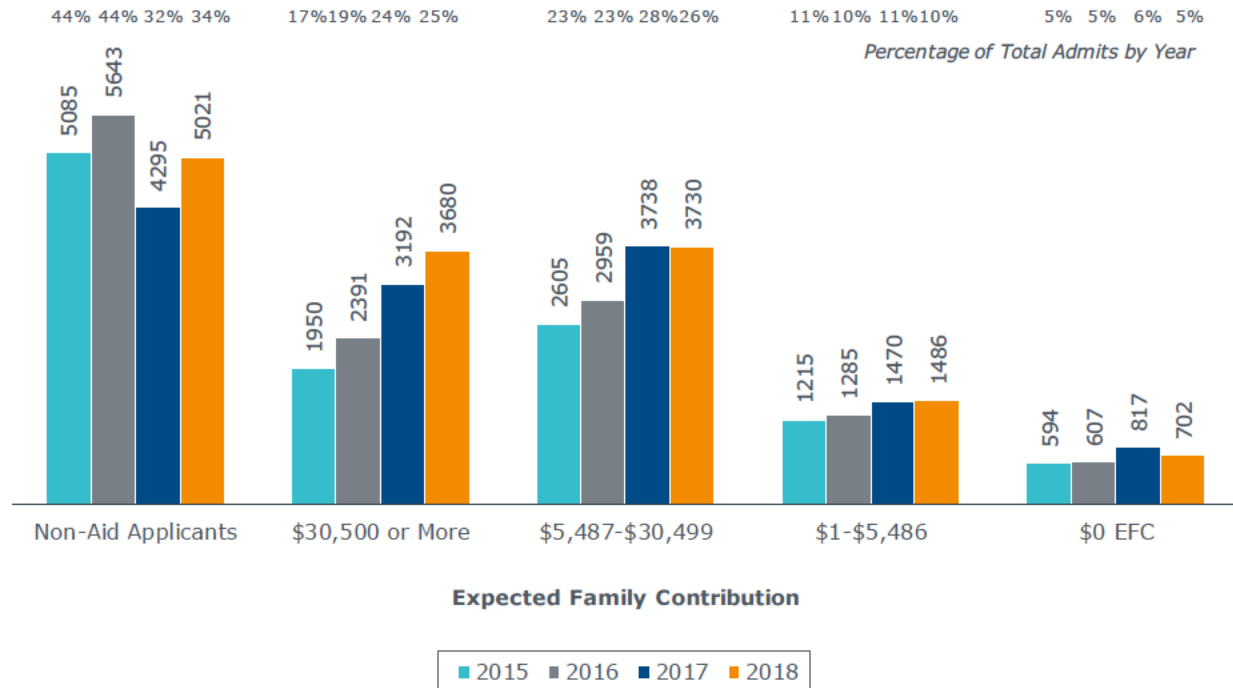
Model Population

% = Yield
(#) = Enrolled



Admits by EFC Rank

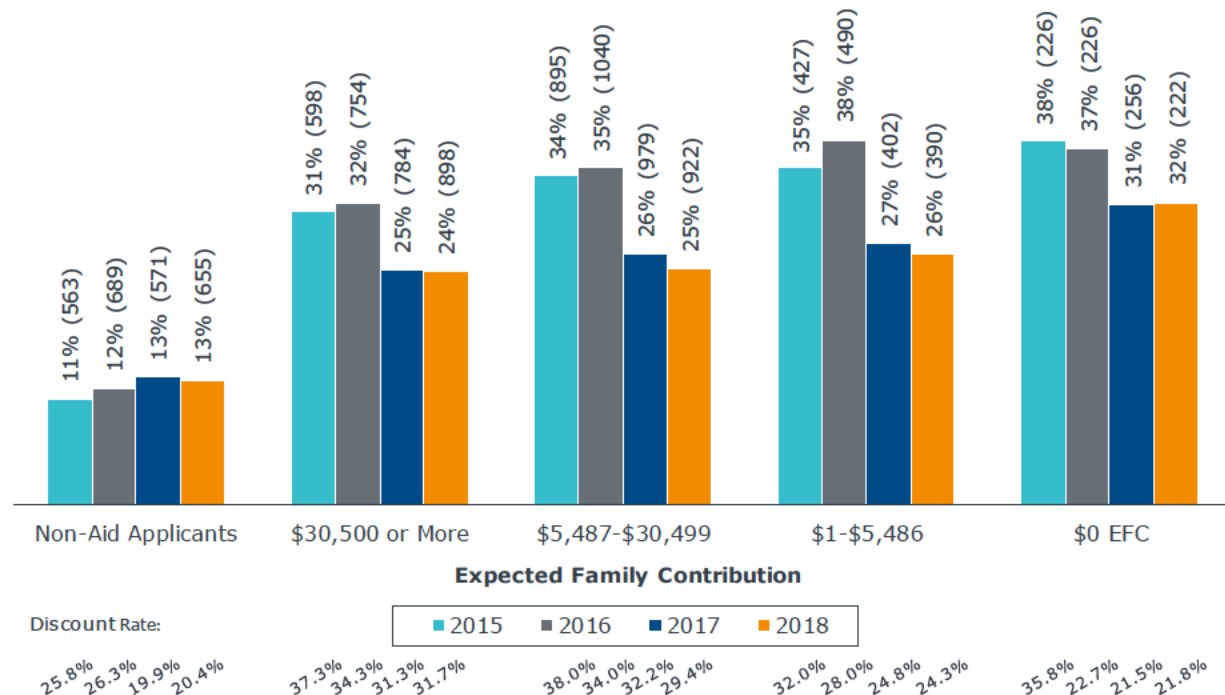
Model Population



Yield by EFC Rank

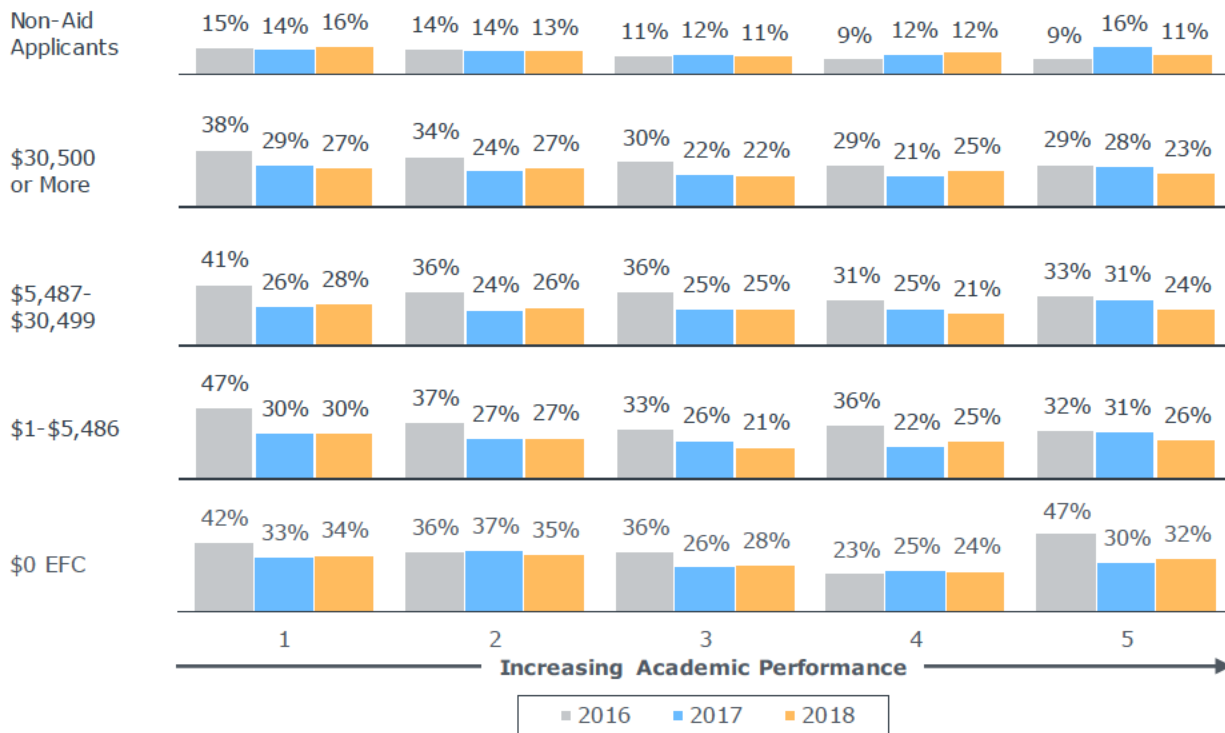
Model Population

% = Yield
(#) = Enrolled



Yield by Cell: EFC and Academic Ranks

Model Population



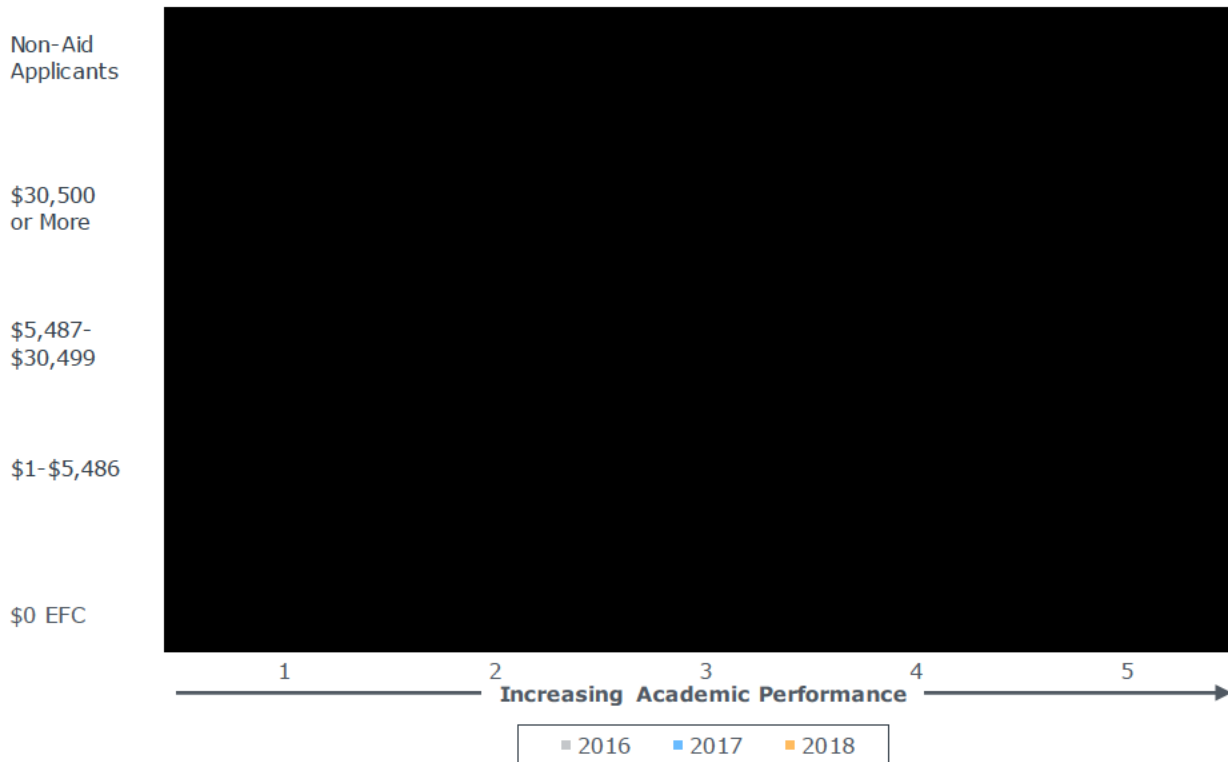
Average Total Grant by Cell: EFC and Academic Ranks

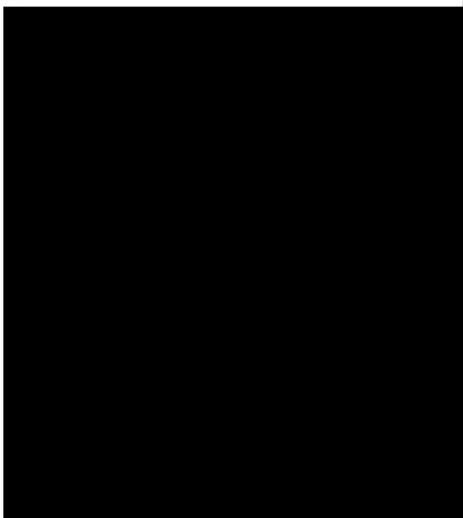


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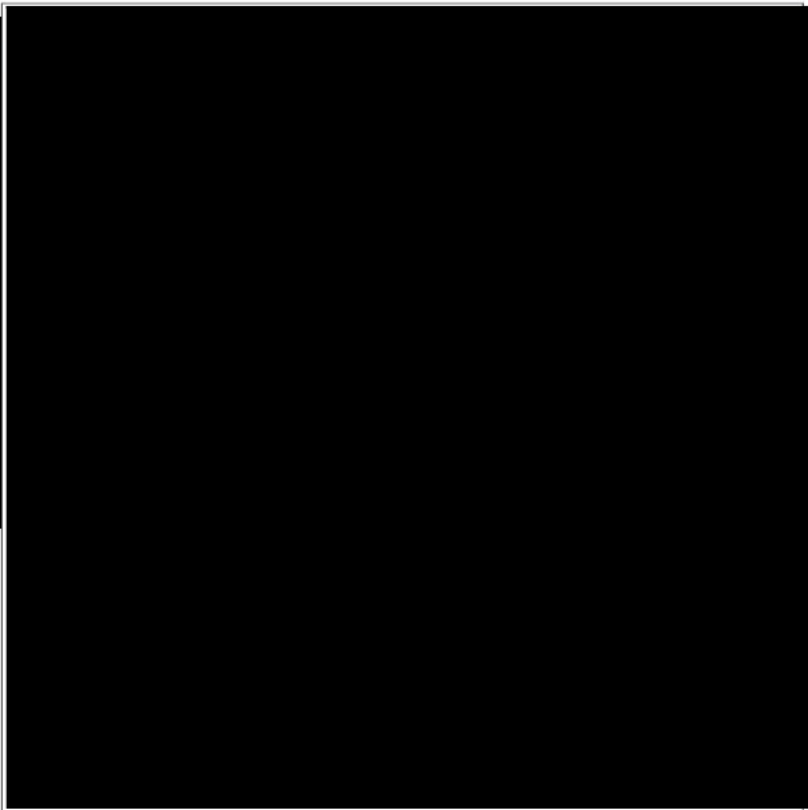
Model Population

Adjusted for Increased Cost of Attendance

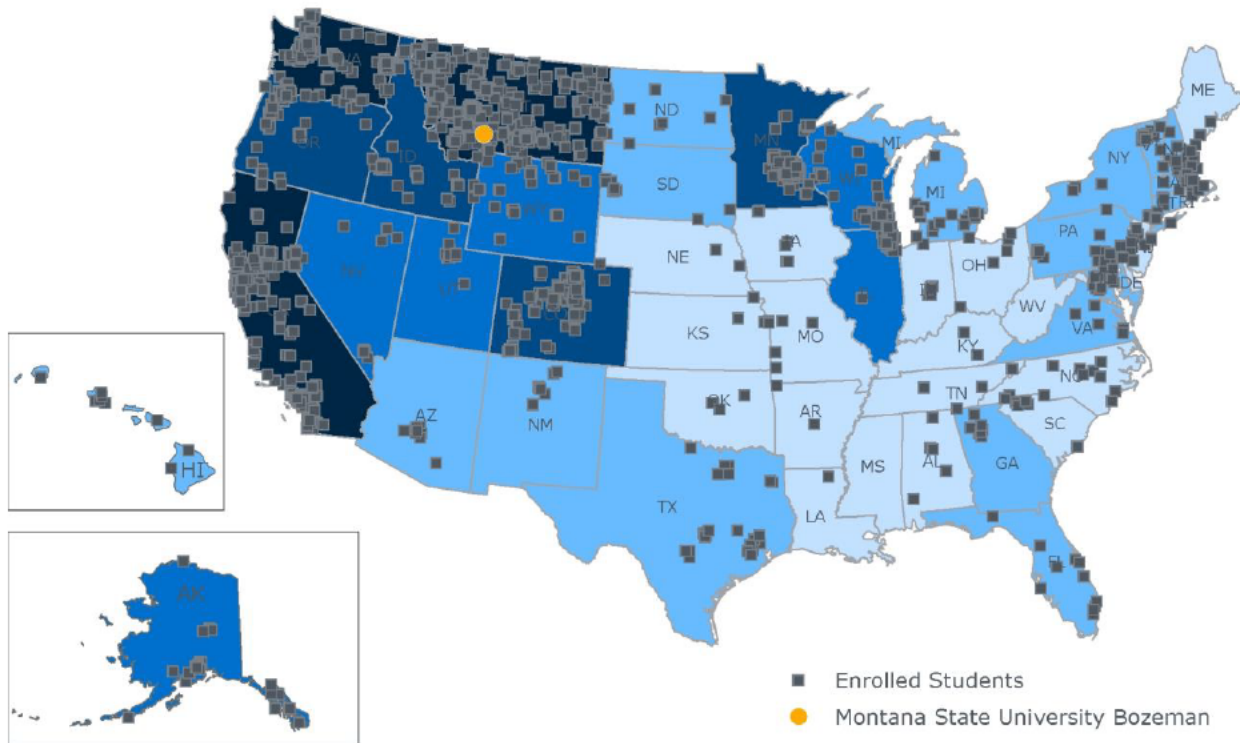




Admits

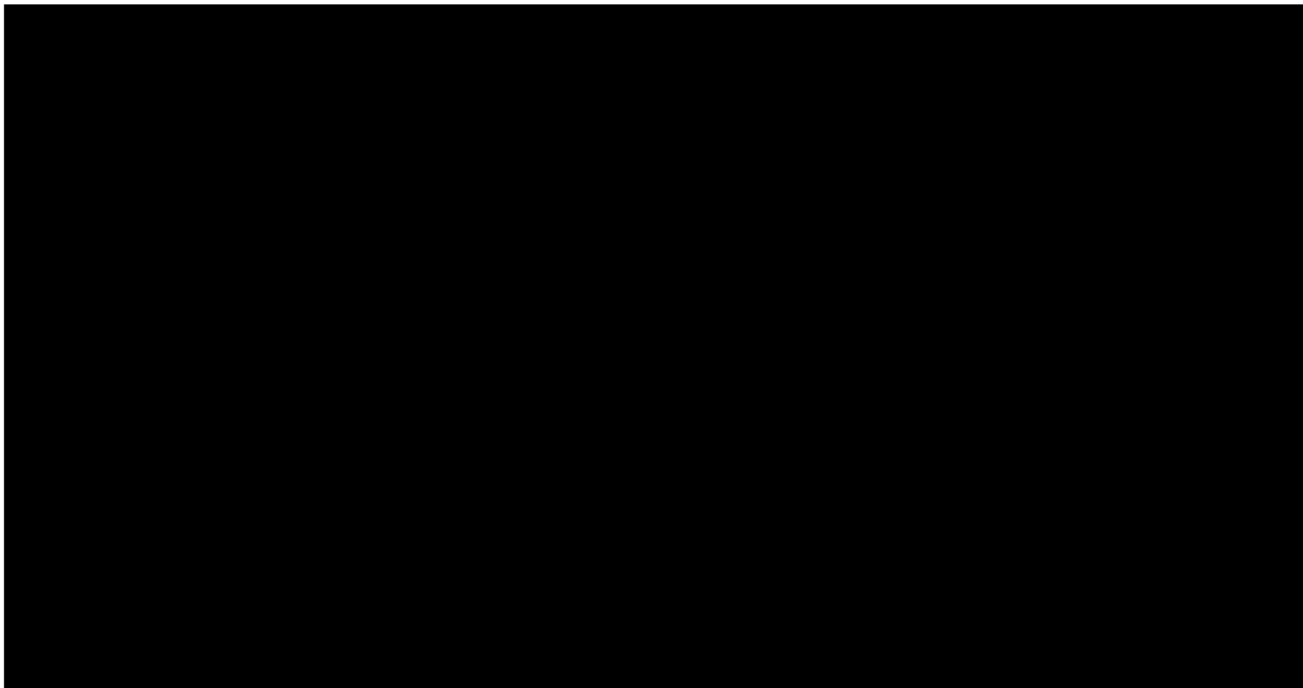


Admits by State



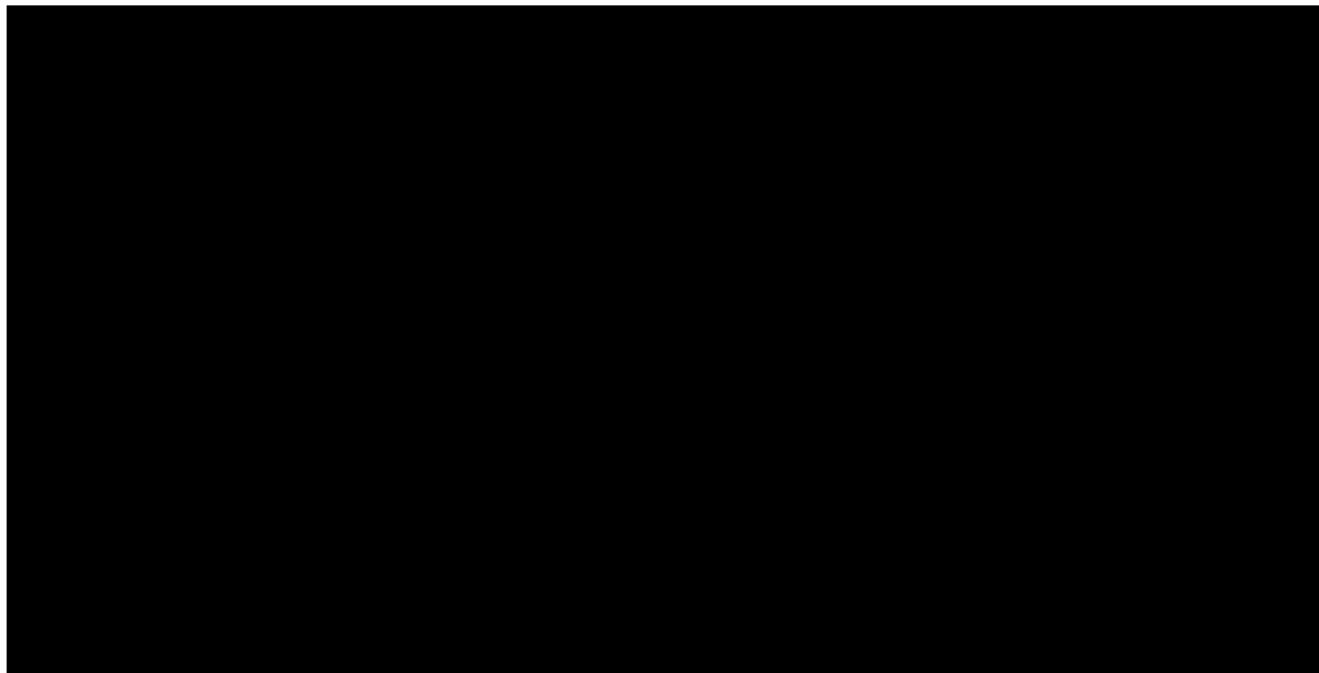
Admits by County





■ 2016 ■ 2017 ■ 2018

Yield by Market

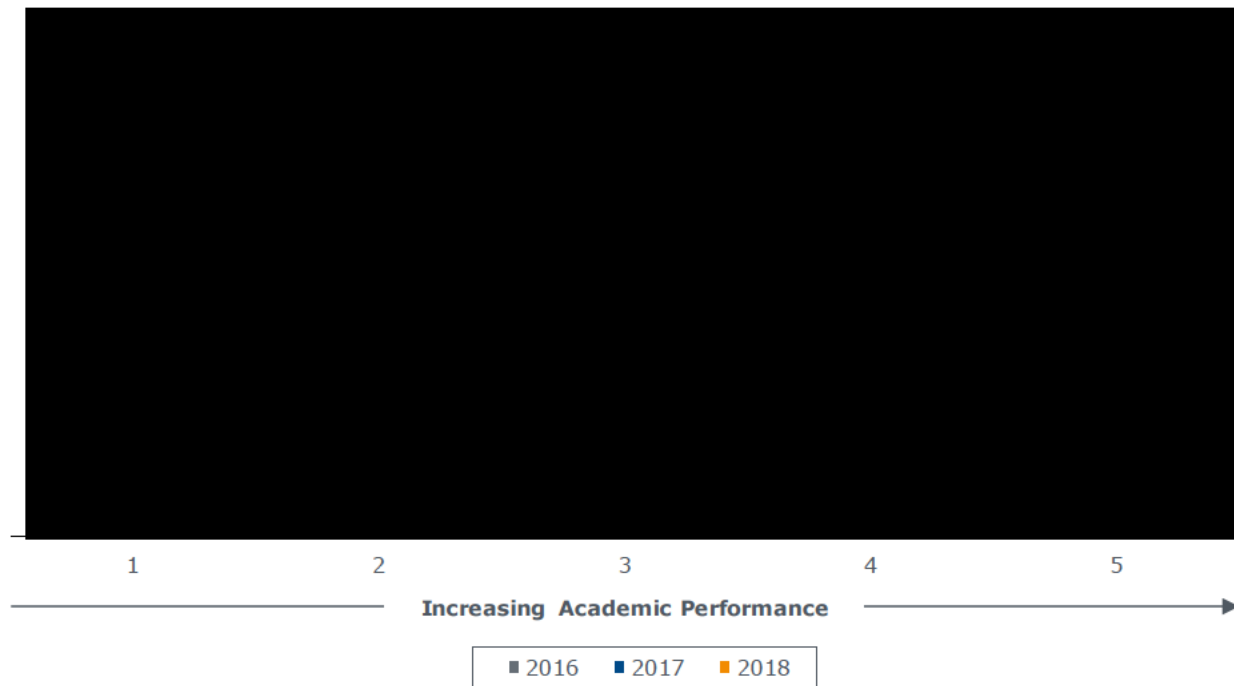


Markets

■ 2016 ■ 2017 ■ 2018

Average Net Revenue of Enrolled by Academic Rank

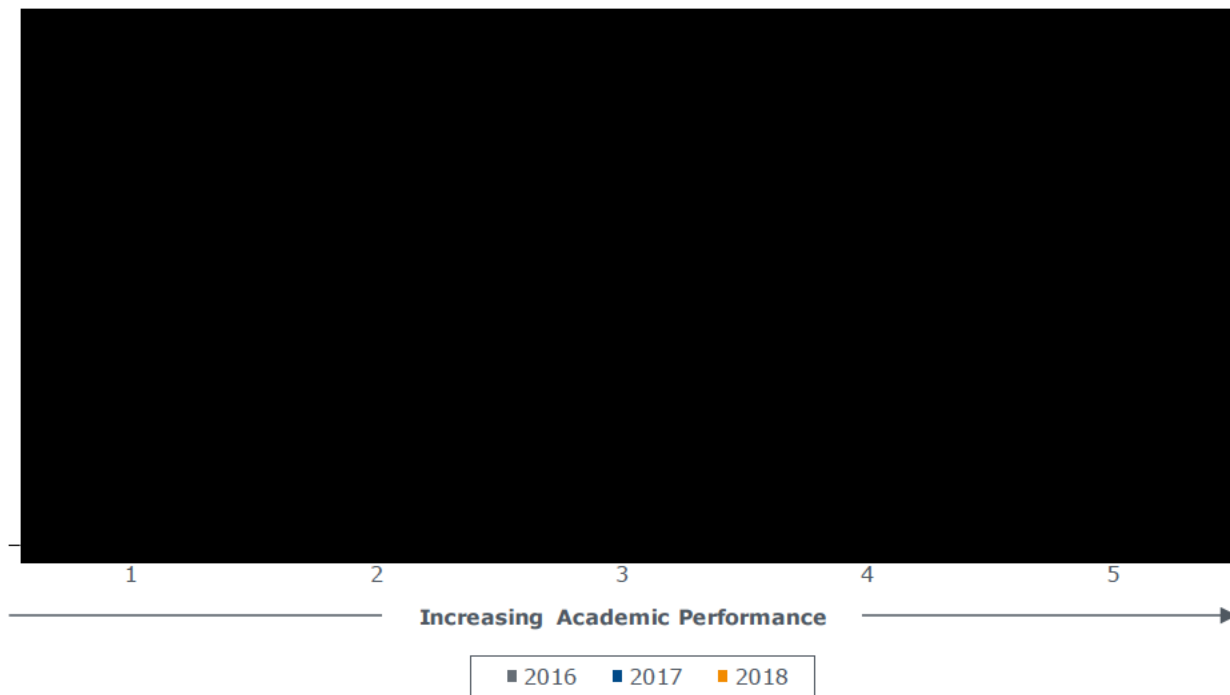
Model Population



Total Net Revenue of Enrolled by Academic Rank

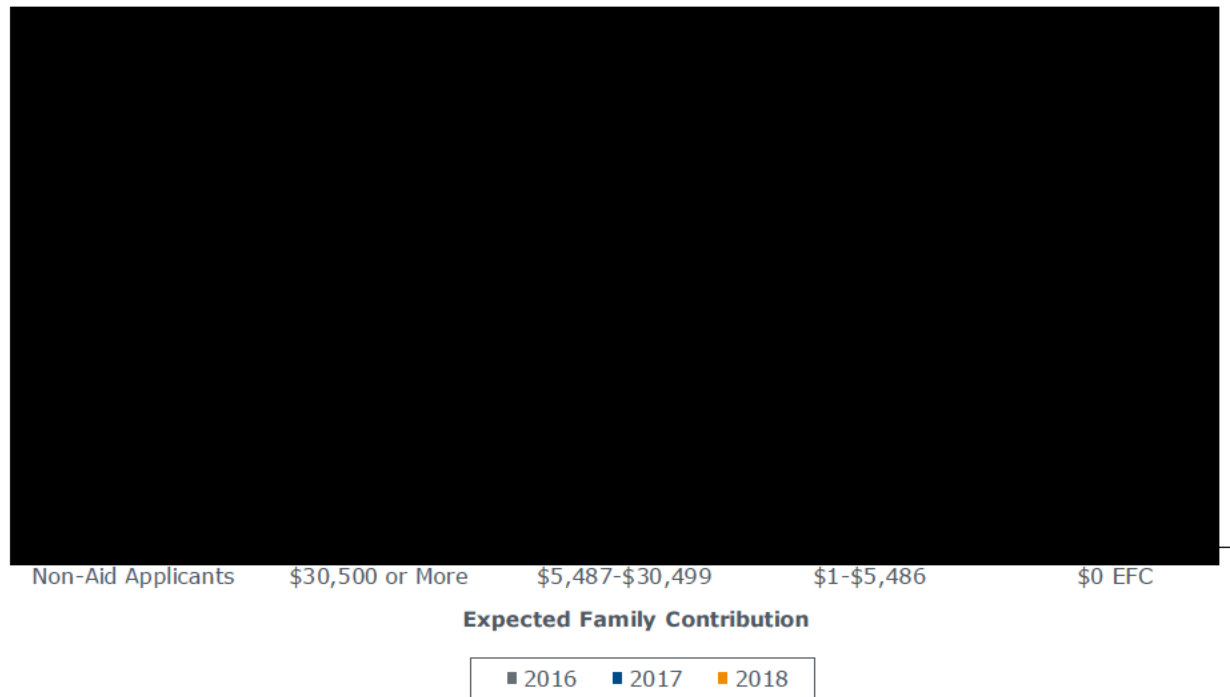


Model Population



Average Net Revenue of Enrolled by EFC Rank

Model Population



Total Net Revenue of Enrolled by EFC Rank

Model Population

