

Track & Field Analysis Report

Richard Keroack - June 17, 2019

Goal: NCAA Top Ten

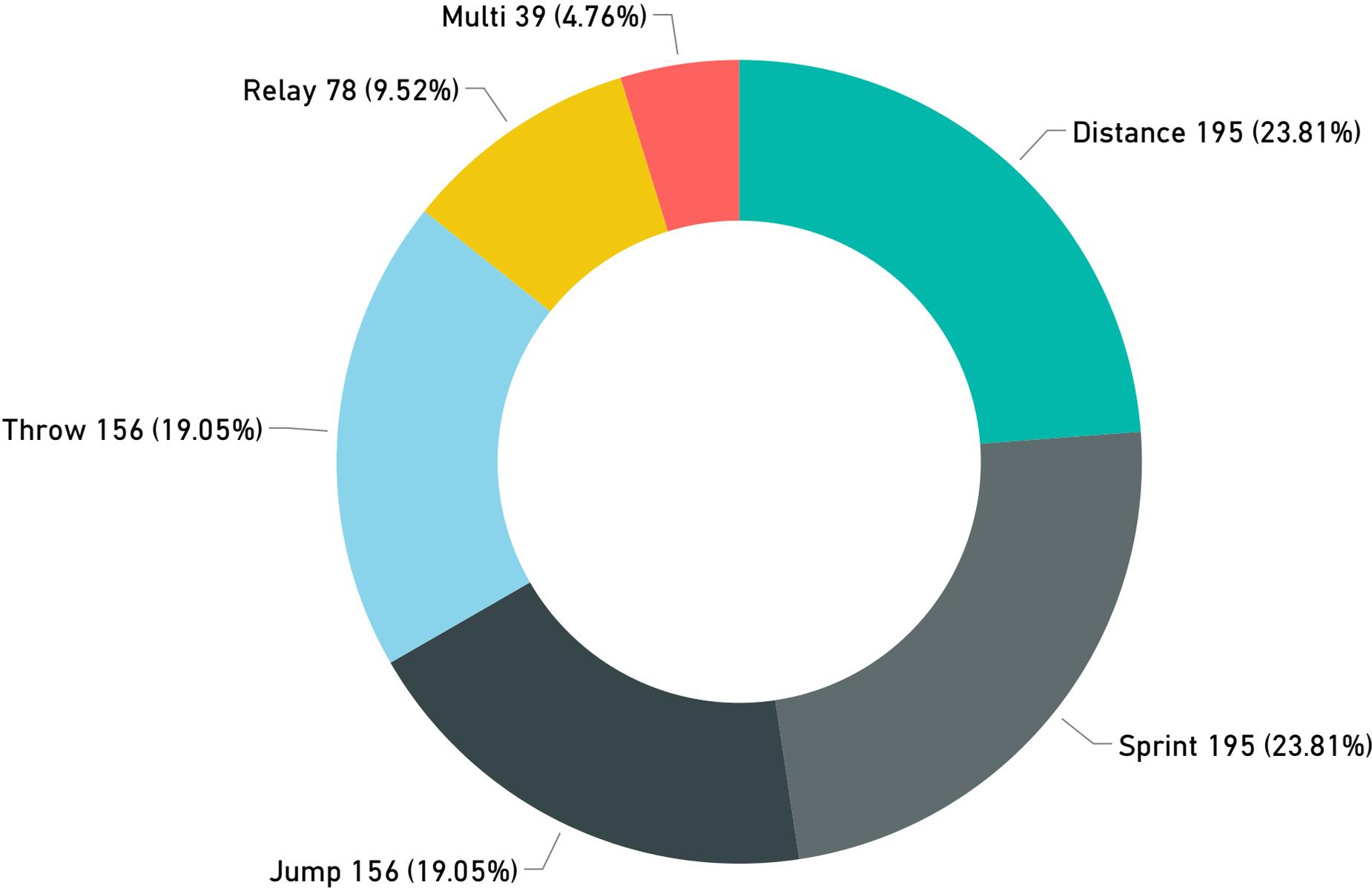
Selected Key Findings

- Four of the top five scoring (XC/T&F Combined) programs over the last five years tended to place in the top ten nationally in each of the three seasons (XC/Indoor/Outdoor). These institutions are Oregon, Arkansas, Stanford, and Michigan.
- Six of the top ten scoring teams (XC/T&F Combined) programs over the last five years have top twenty distance programs. These institutions are Oregon, Arkansas, Stanford, Texas, Oklahoma State, and Syracuse.

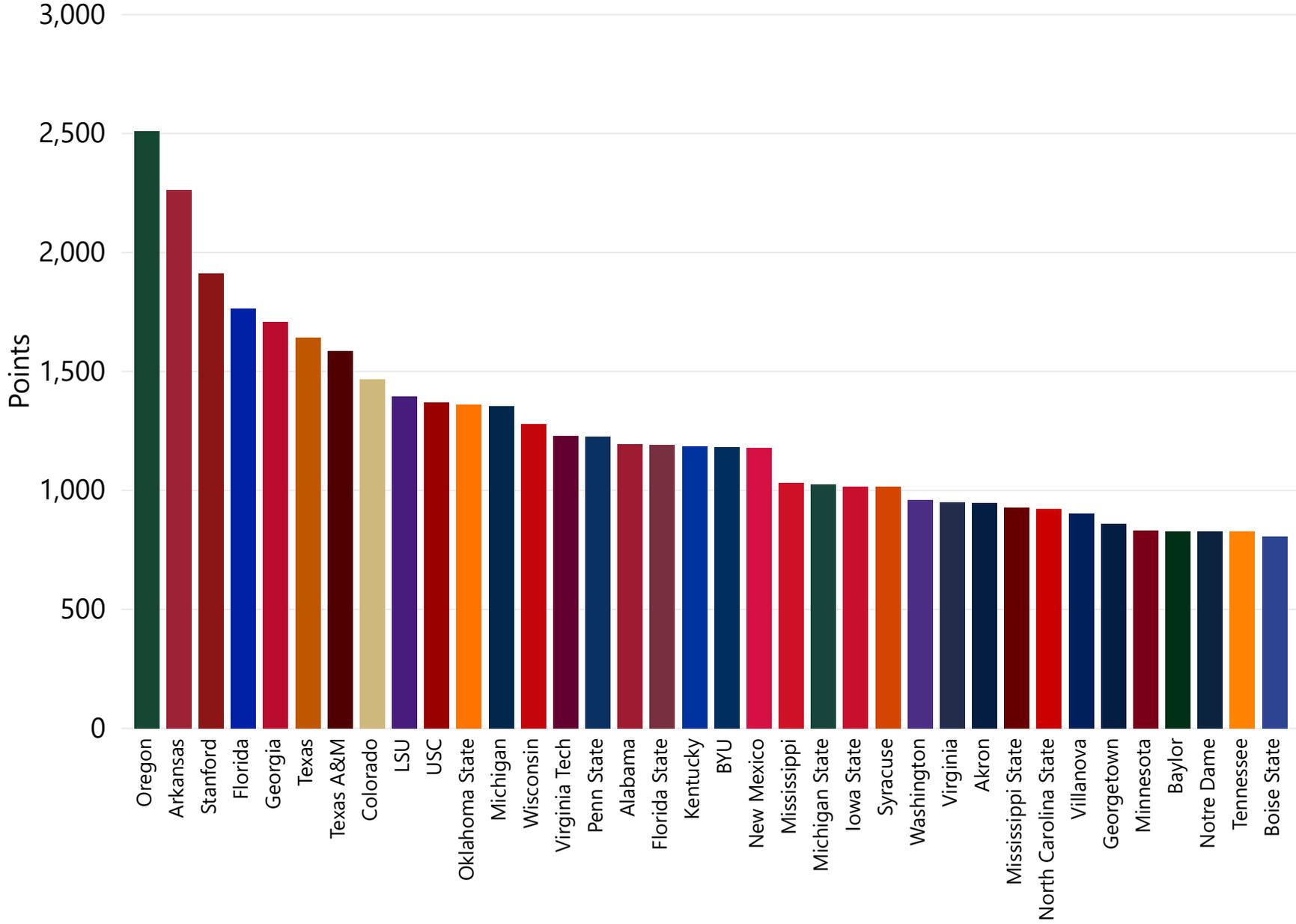
RK Hypothesis

- Oregon, Arkansas, and Stanford are clearly the top programs in the country. Both their men's and women's teams have success in all three seasons. I think their distance-first model could be the best.
 - Pros of the distance-first model:
 - Ability to score Director's Cup Points in all three seasons. Directly related to departmental goal of NCAA Top Ten.
 - Diversification of Director's Cup scoring opportunities. One poor meet or season has less impact than it would have for a sprint/jump-first program.
 - Cons of the distance first model:
 - The best programs are already doing this. It would be a challenge to recruit against them.
 - Distance track events are subject to more randomness than sprints/jumps. Distance races can be tactical, reducing the correlation between talent and outcome. Larger point scoring variances would be expected.

Points Available by Category - Invitational Scoring



Director's Cup Points by Institution (Combined Men's and Women's XC/Indoor/Outdoor)

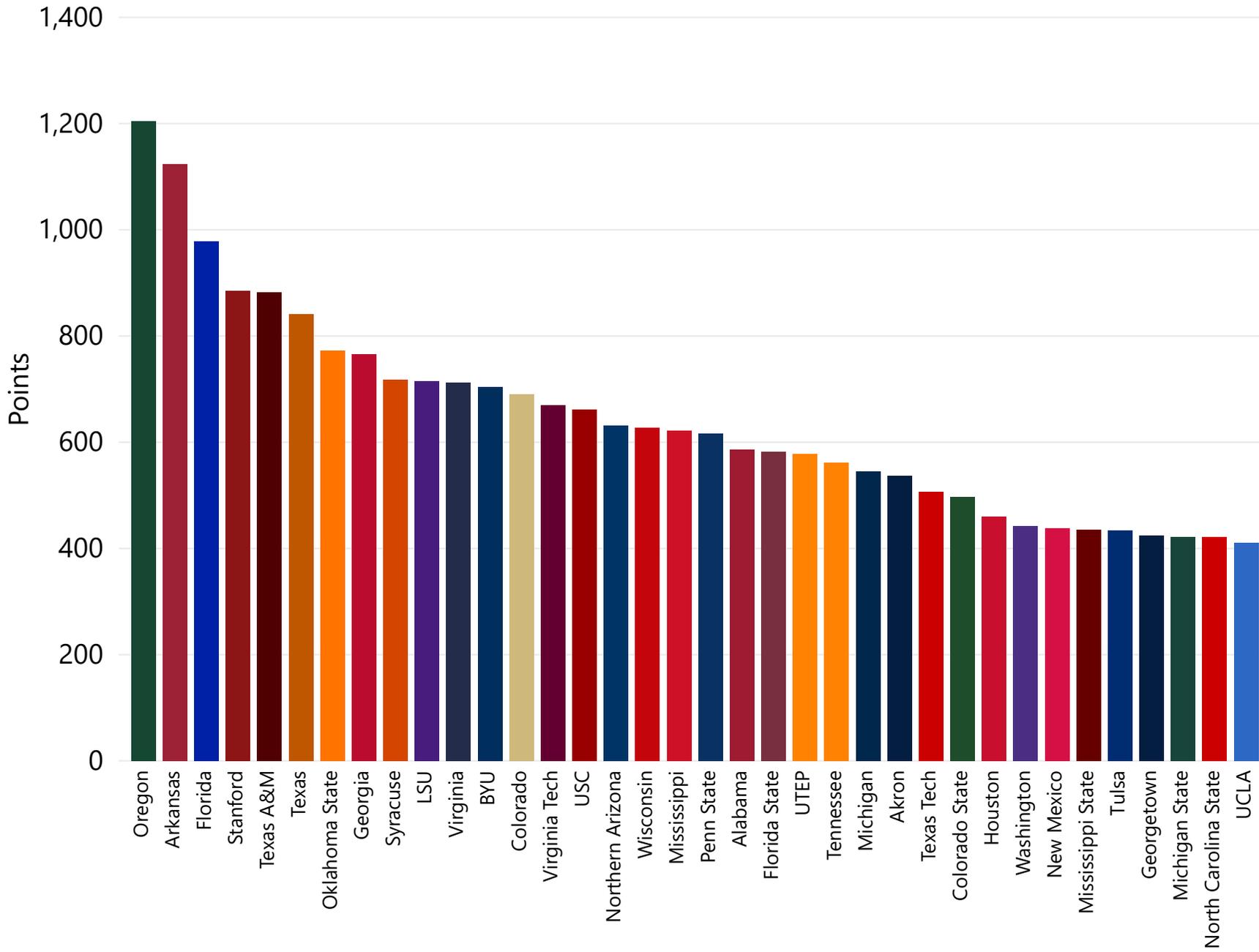


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Director's Cup Points by Institution (Men's XC/Indoor/Outdoor)

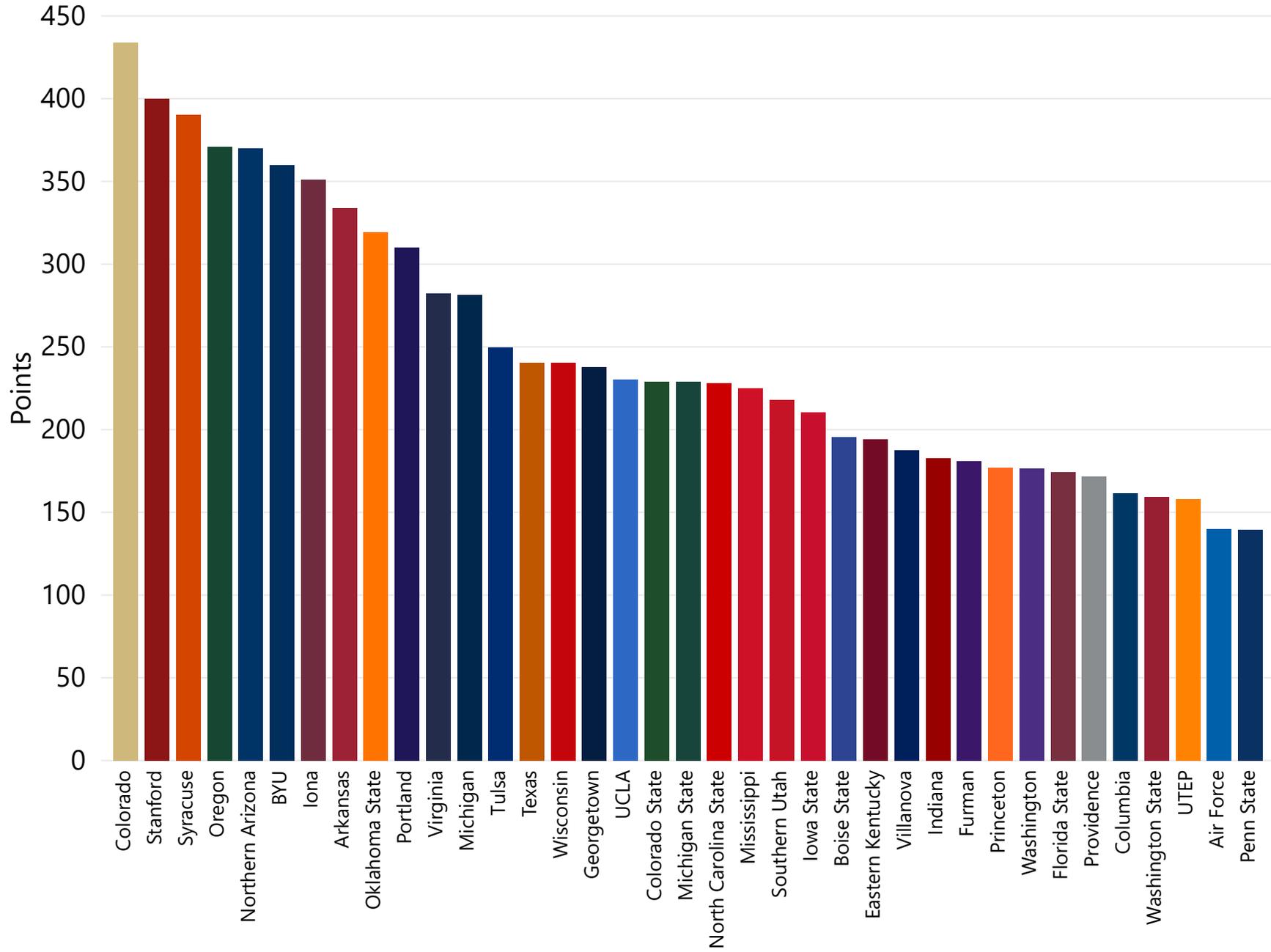


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Director's Cup Points by Institution (Men's XC)

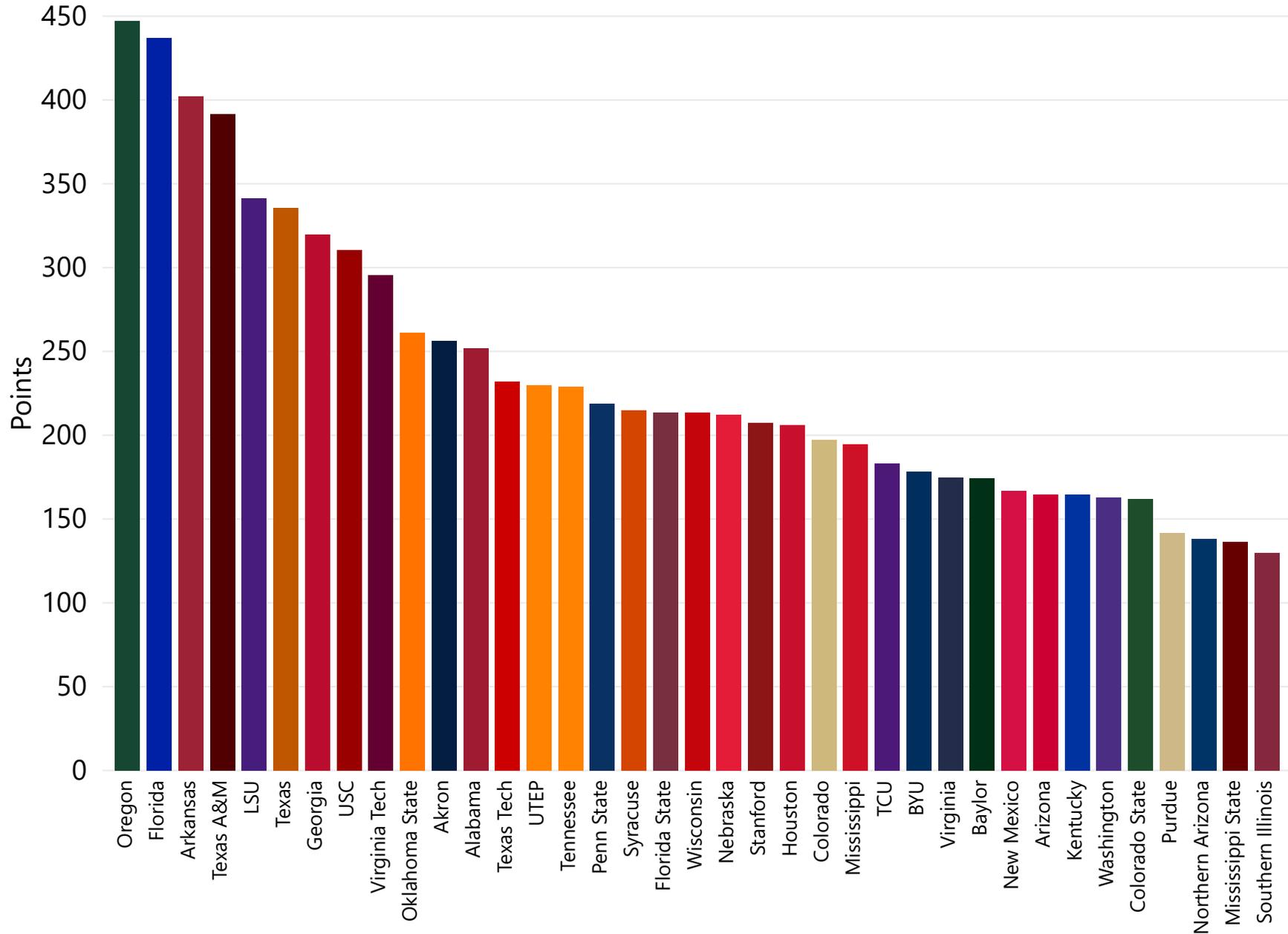


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Director's Cup Points by Institution (Men's Indoor)

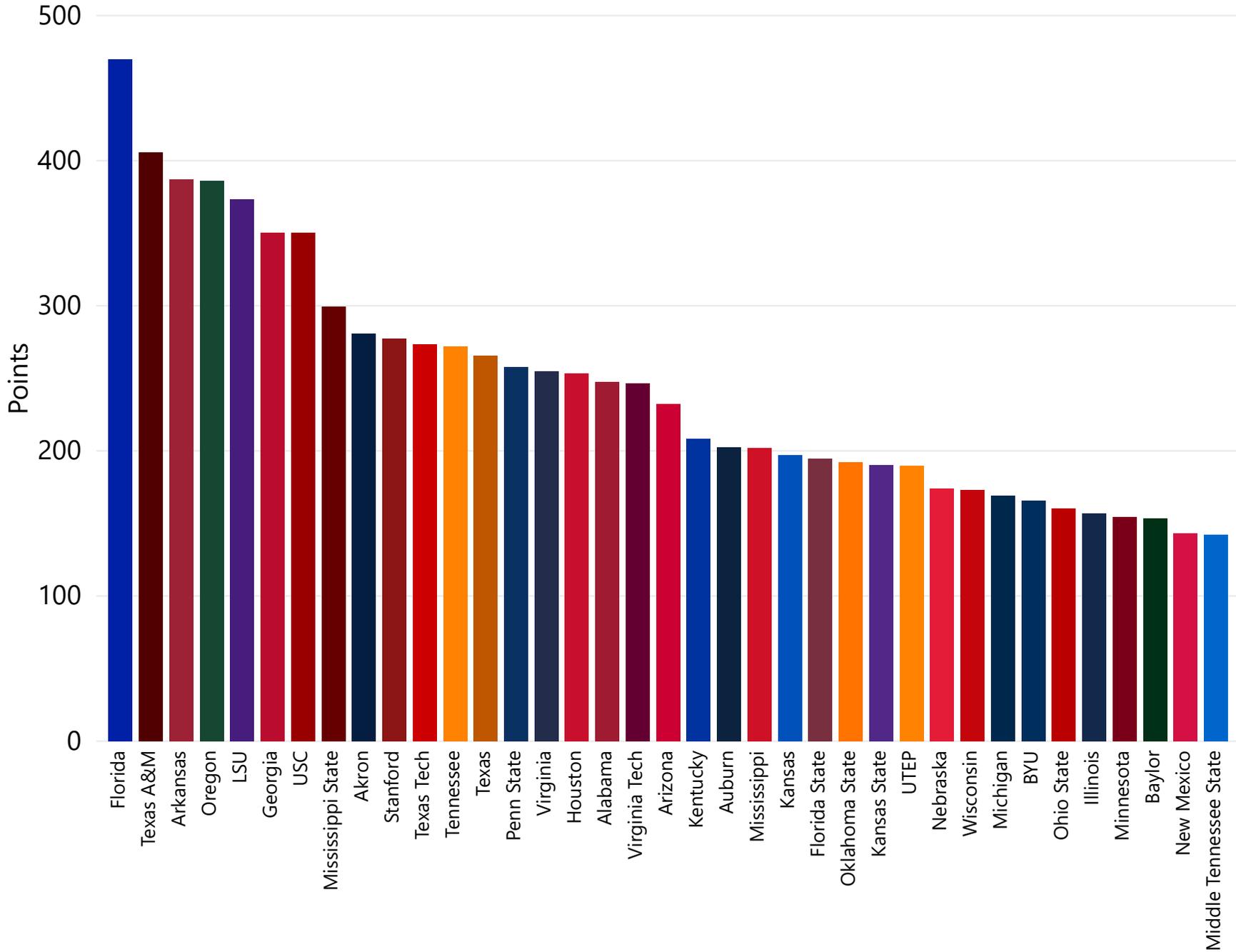


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Director's Cup Points by Institution (Men's Outdoor)



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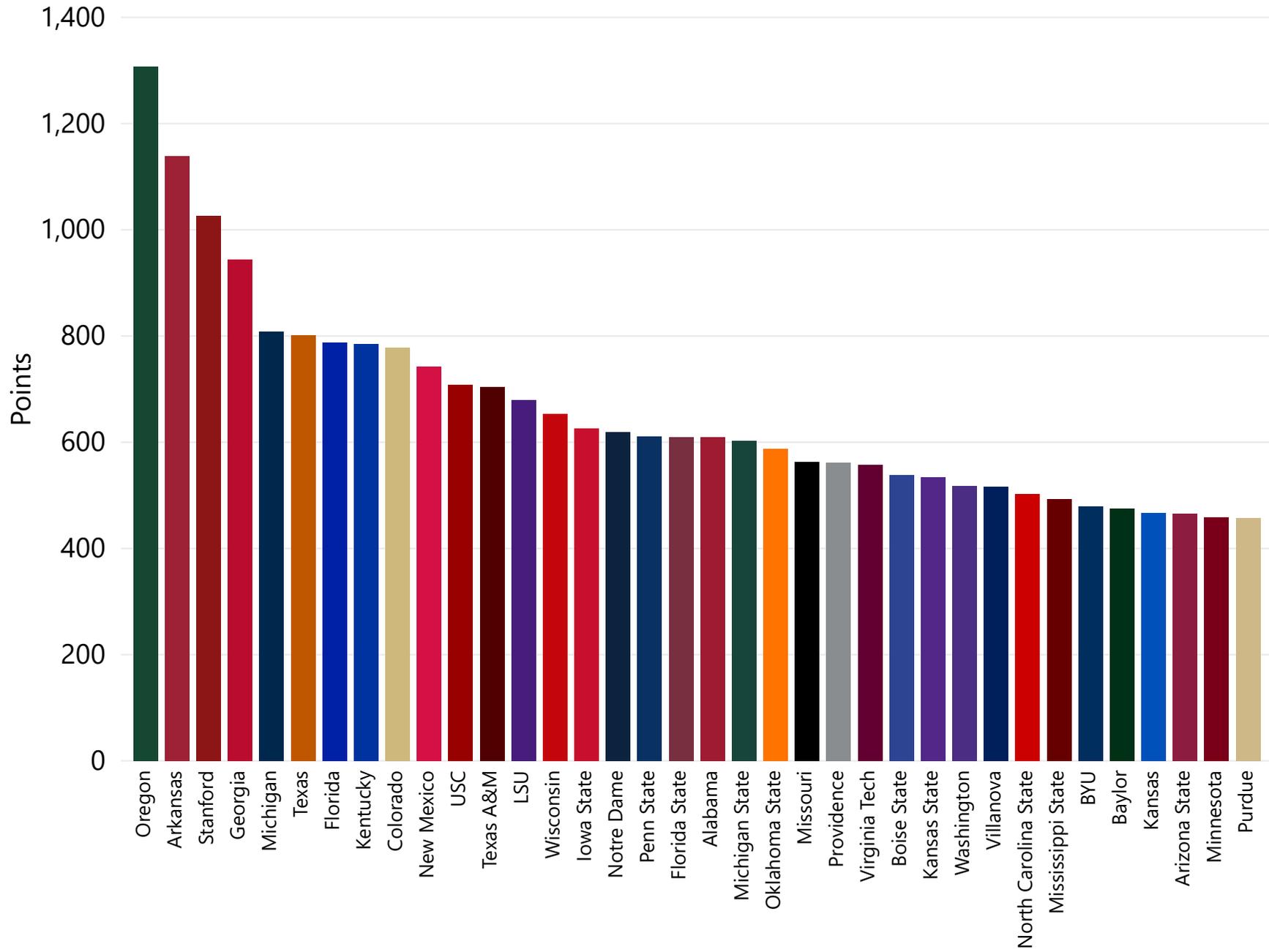
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Director's Cup Points by Institution (Women's XC/Indoor/Outdoor)

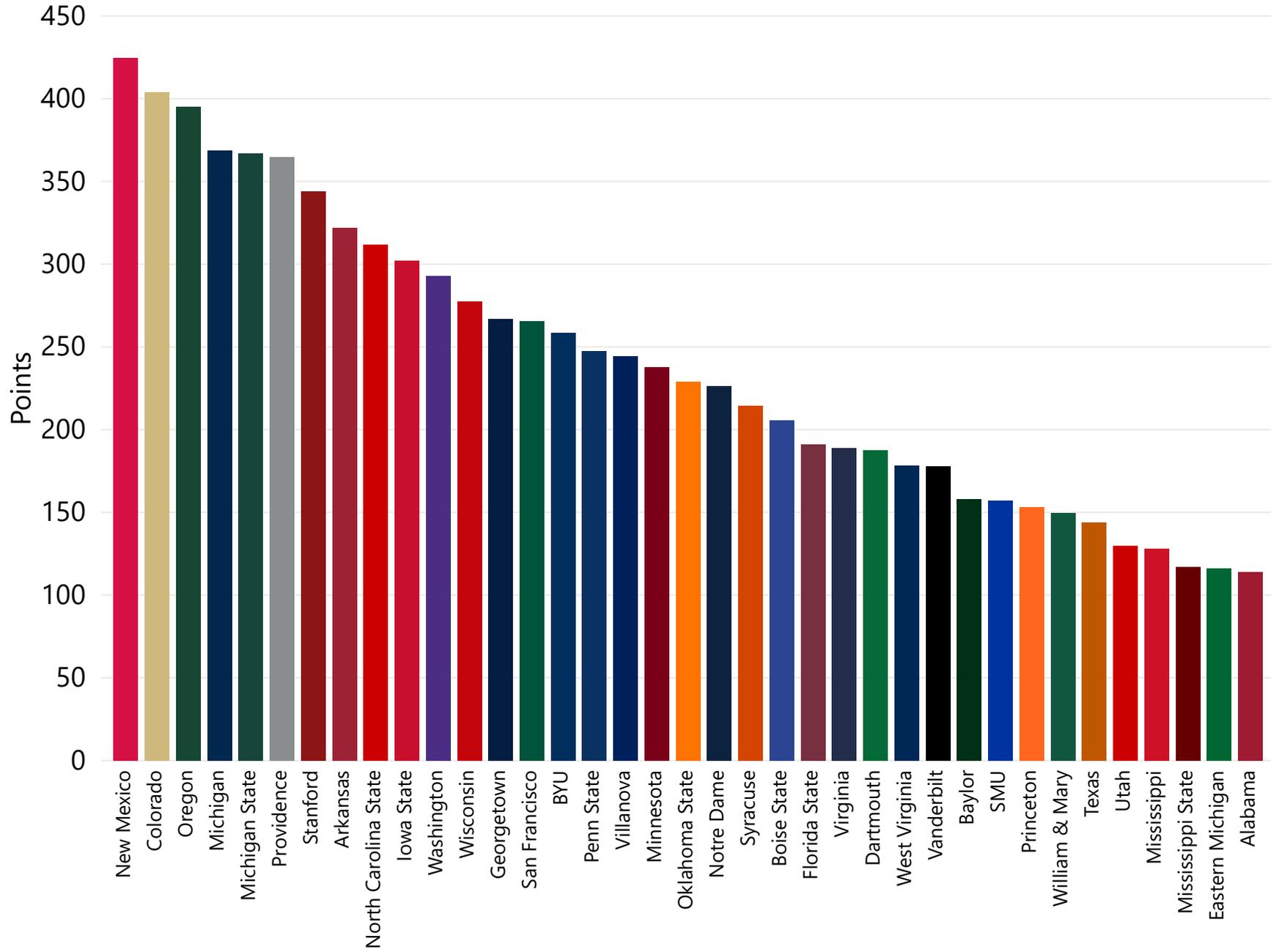


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Director's Cup Points by Institution (Women's XC)

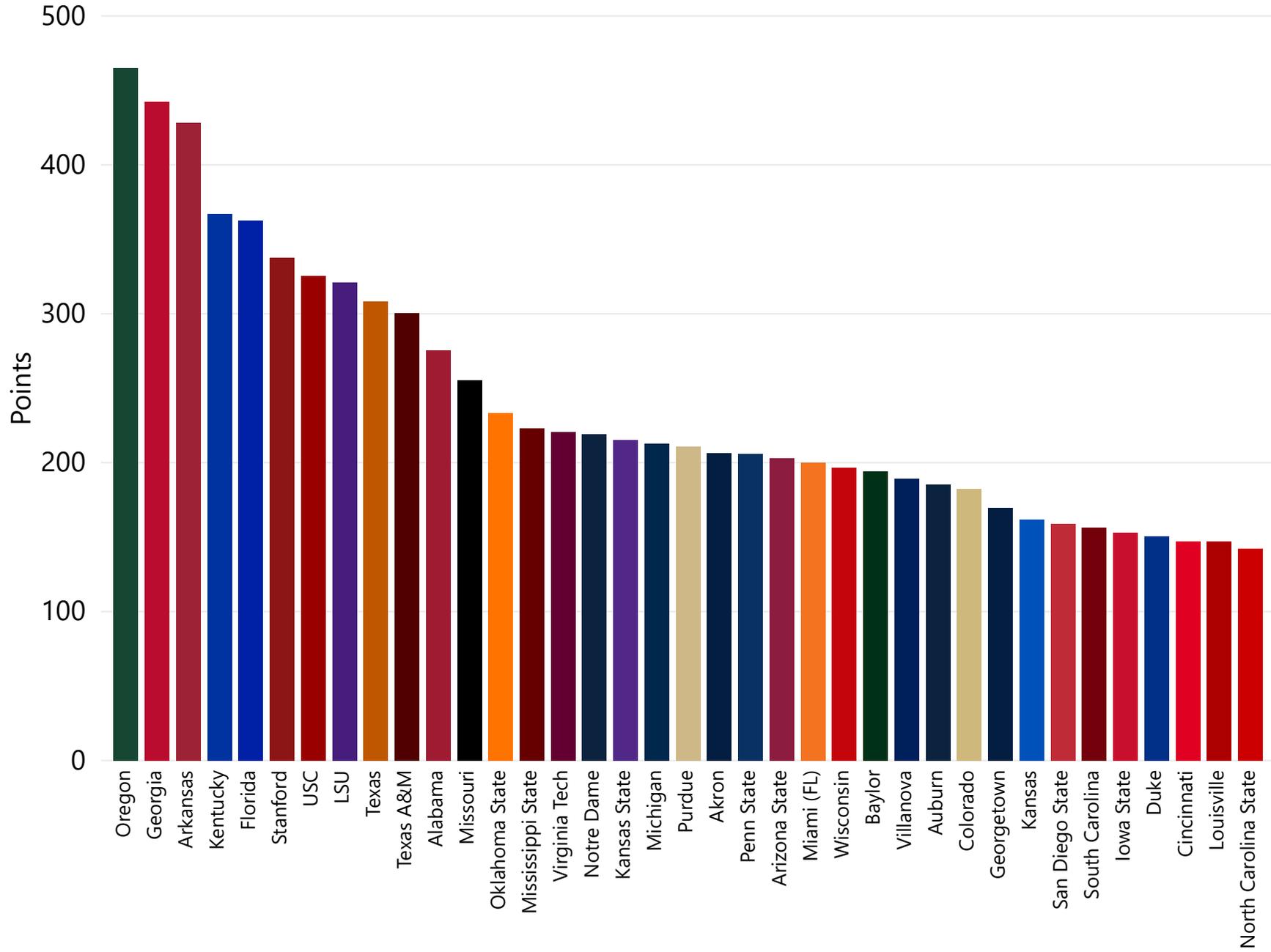


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Director's Cup Points by Institution (Women's Indoor)

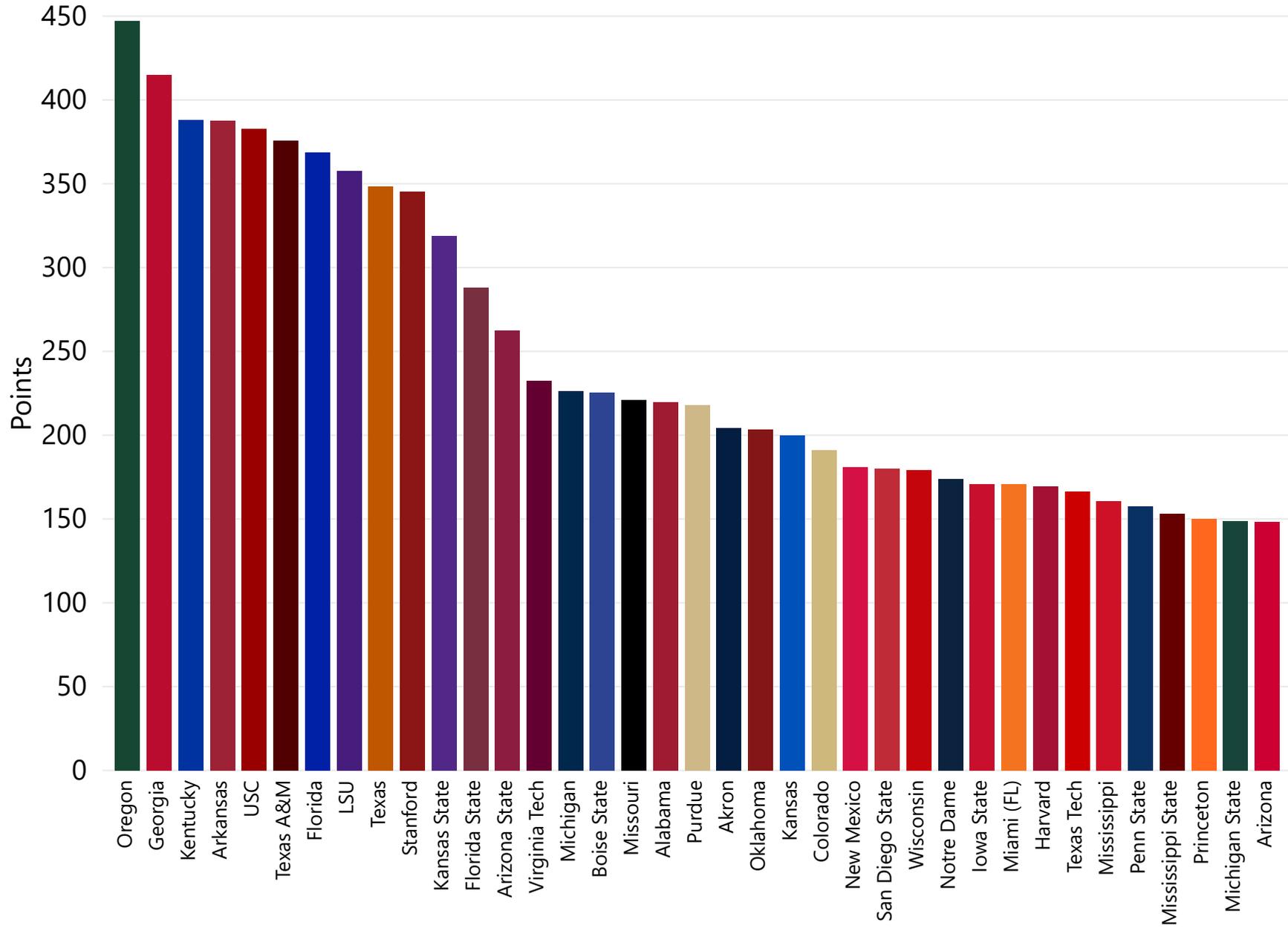


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Director's Cup Points by Institution (Women's Outdoor)



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Sport MCC

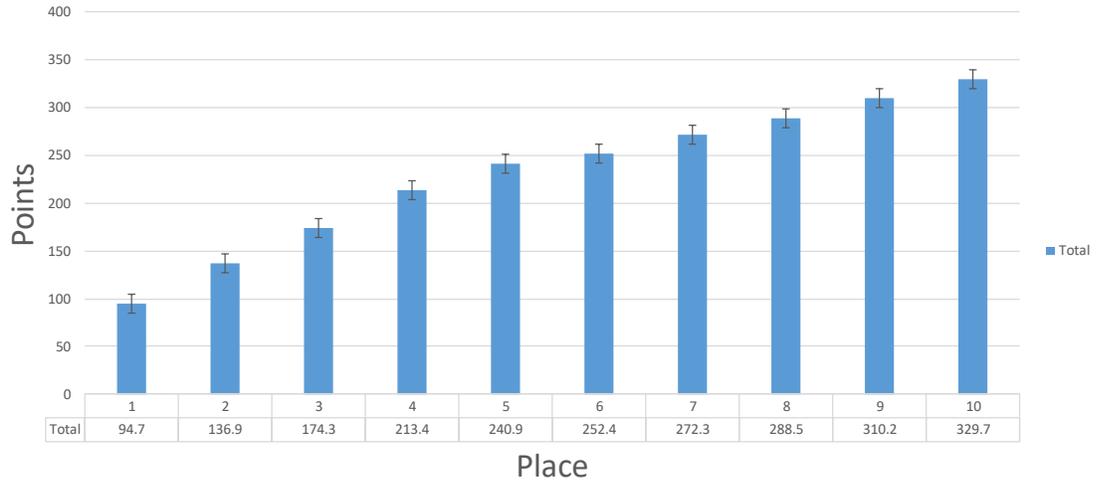
Row Labels Average of Points

1	94.7
2	136.9
3	174.3
4	213.4
5	240.9
6	252.4
7	272.3
8	288.5
9	310.2
10	329.7
Grand Total	231.33

Sport

Average of Points

Average Points Scored by Place (Men's Cross Country)



Place Year

Sport WCC

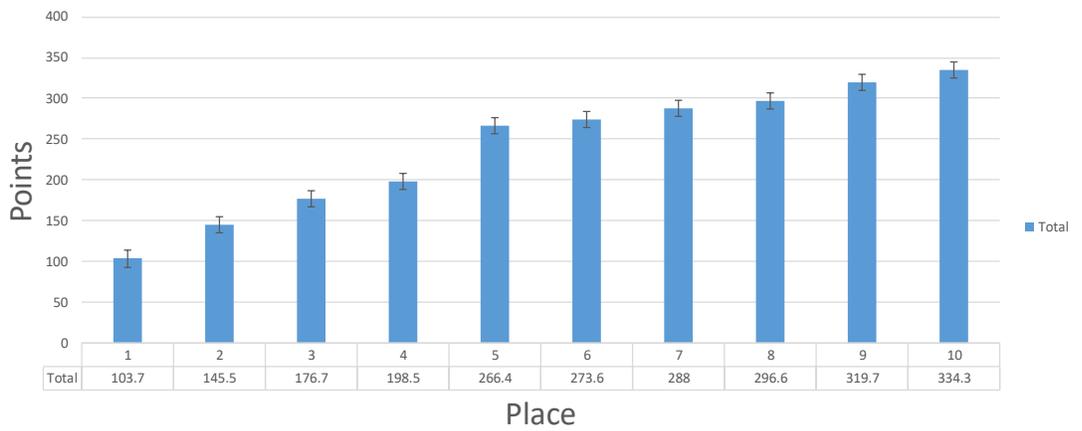
Row Labels Average of Points

1	103.7
2	145.5
3	176.7
4	198.5
5	266.4
6	273.6
7	288
8	296.6
9	319.7
10	334.3
Grand Total	240.3

Sport

Average of Points

Average Points Scored by Place (Women's Cross Country)

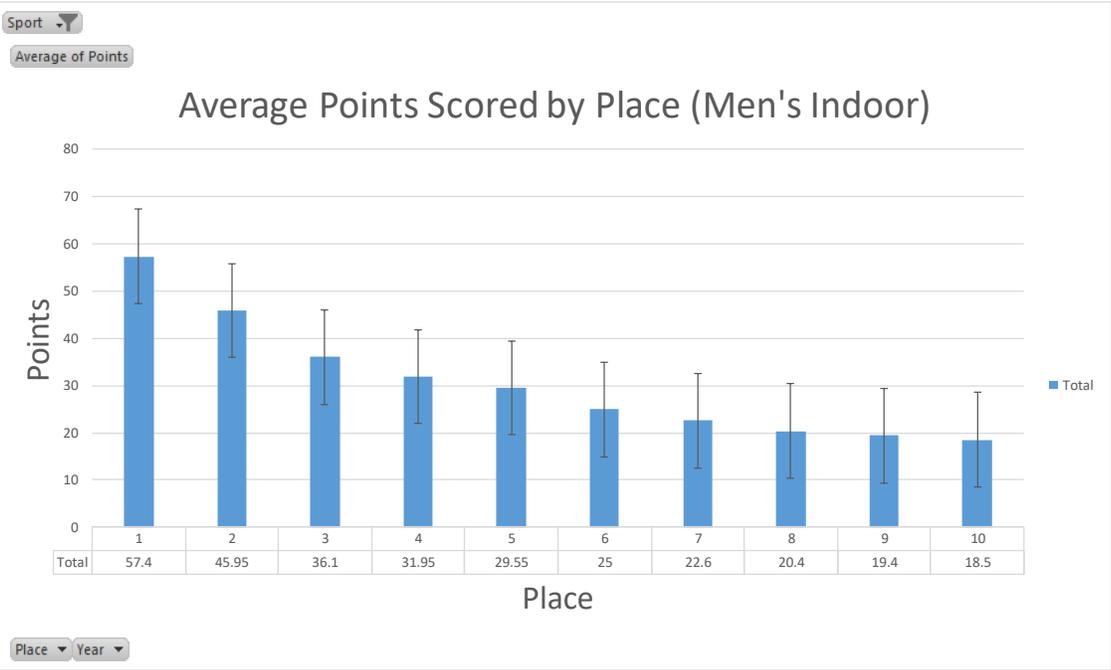


Place Year

Sport **MTI**

Row Labels Average of Points

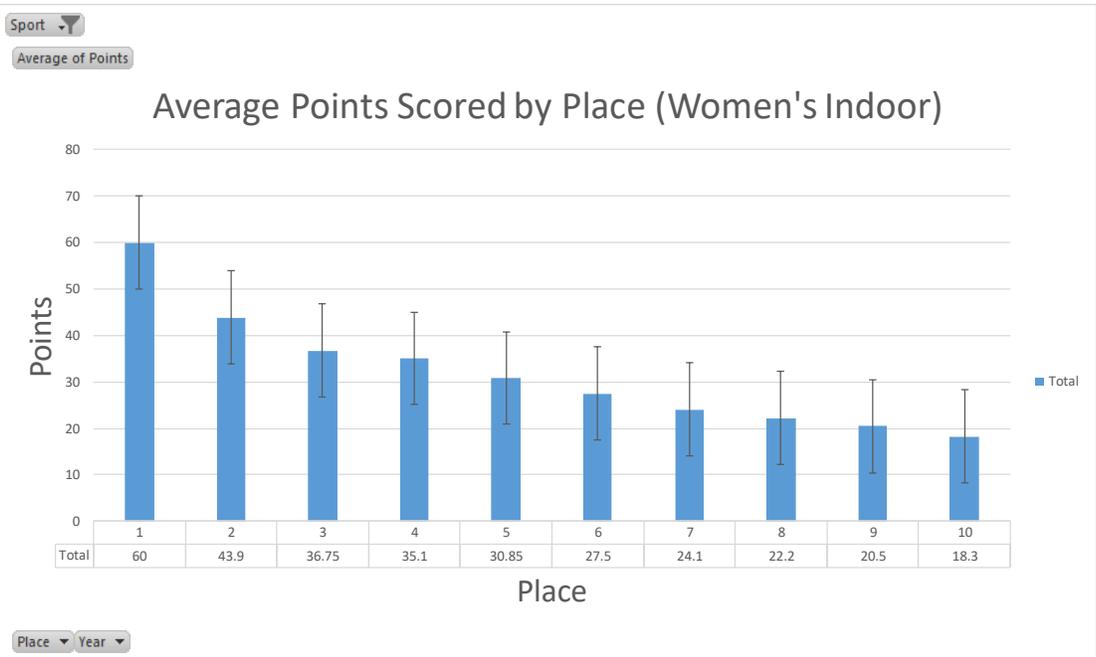
1	57.4
2	45.95
3	36.1
4	31.95
5	29.55
6	25
7	22.6
8	20.4
9	19.4
10	18.5
Grand Total	30.685



Sport **WTI**

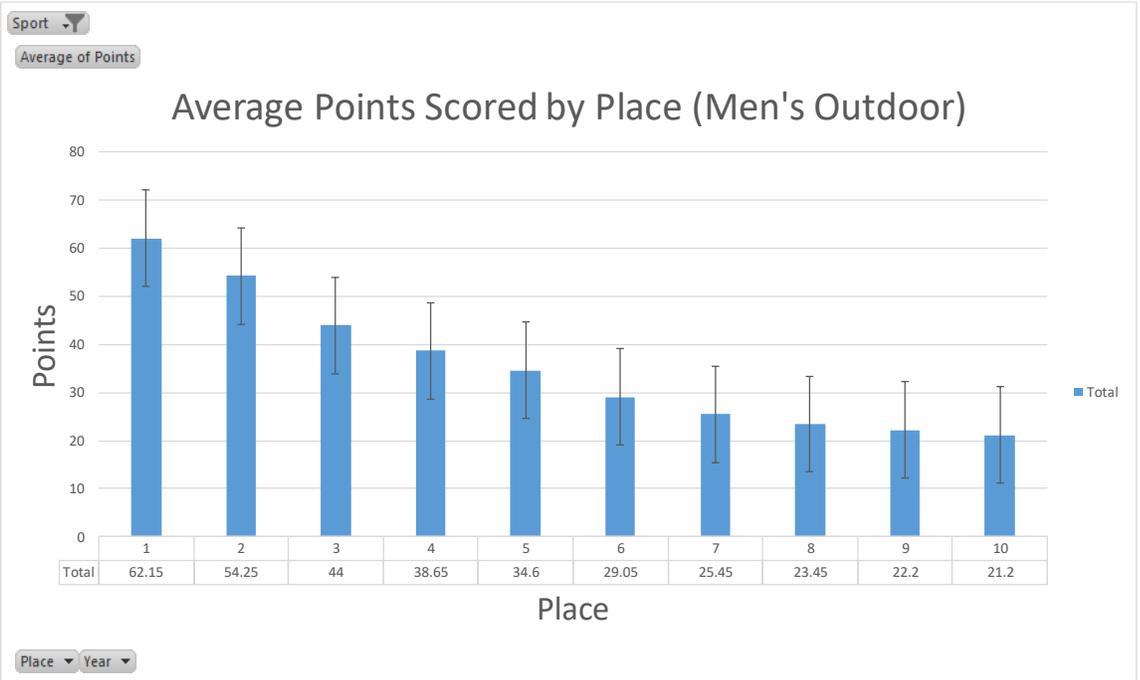
Row Labels Average of Points

1	60
2	43.9
3	36.75
4	35.1
5	30.85
6	27.5
7	24.1
8	22.2
9	20.5
10	18.3
Grand Total	31.92



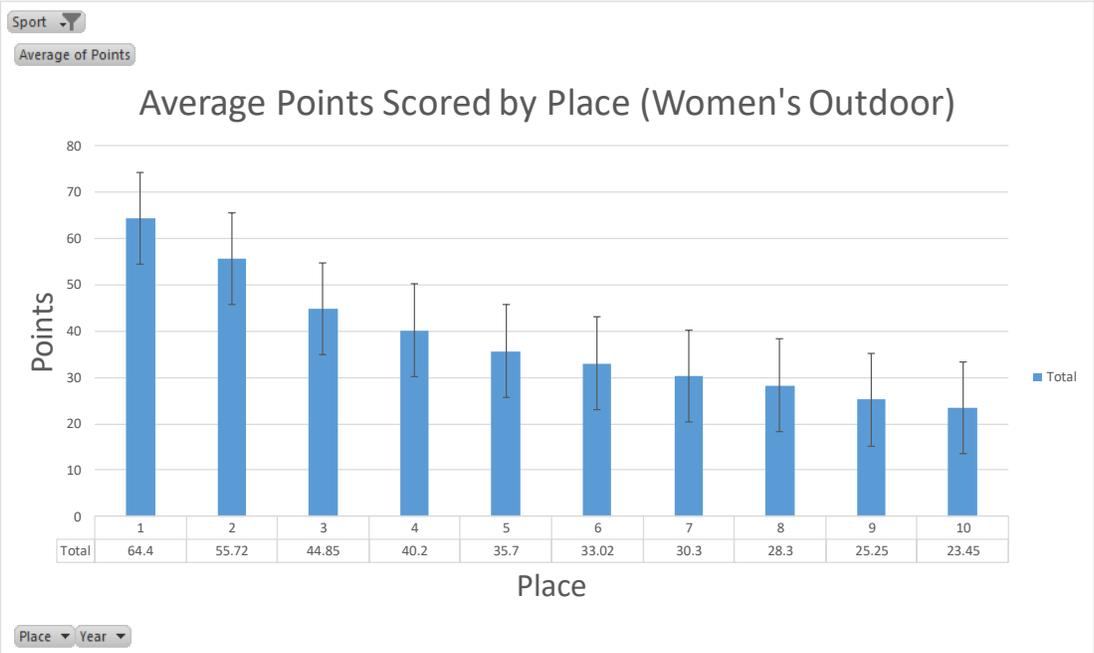
Sport MTO

Row Labels	Average of Points
1	62.15
2	54.25
3	44
4	38.65
5	34.6
6	29.05
7	25.45
8	23.45
9	22.2
10	21.2
Grand Total	35.5



Sport WTO

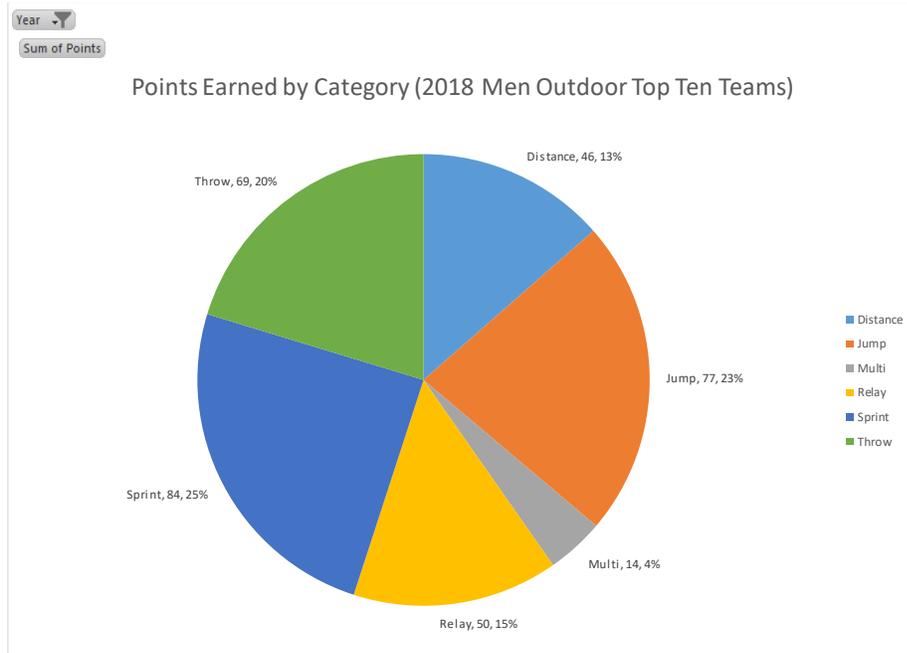
Row Labels	Average of Points
1	64.4
2	55.72
3	44.85
4	40.2
5	35.7
6	33.02
7	30.3
8	28.3
9	25.25
10	23.45
Grand Total	38.119



Year 2018

Row Labels Sum of Points

Distance	46
Jump	77
Multi	14
Relay	50
Sprint	84
Throw	69
Grand Total	340



Year 2018

Sum of Points Column Labels

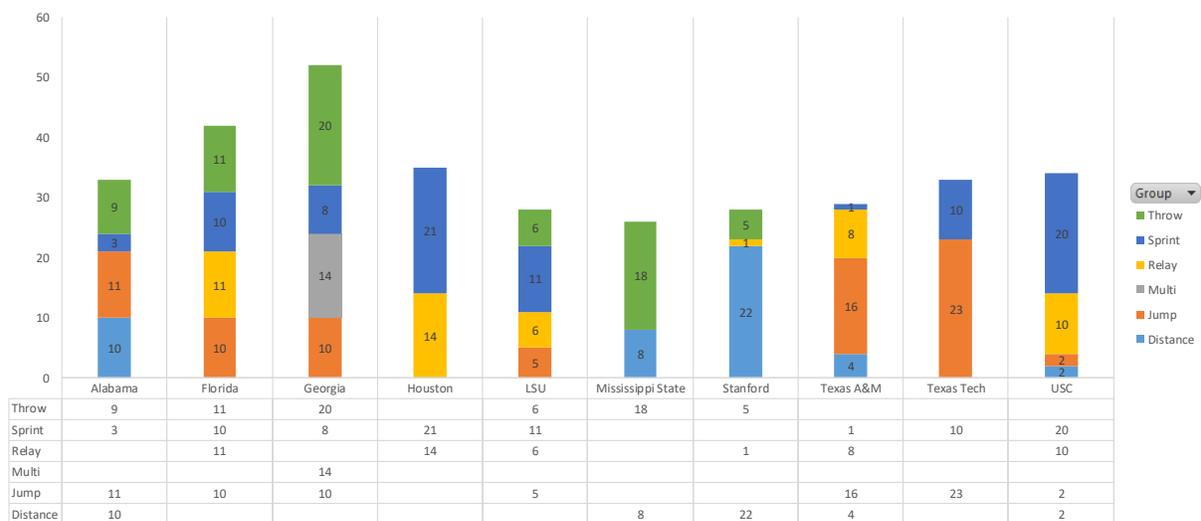
Row Labels Distance

	Jump	Multi	Relay	Sprint	Throw	Grand Total
Alabama	10	11		3	9	33
Florida		10	11	10	11	42
Georgia	10	14		8	20	52
Houston			14	21		35
LSU		5	6	11	6	28
Mississippi State	8				18	26
Stanford	22		1		5	28
Texas A&M	4	16	8	1		29
Texas Tech		23		10		33
USC	2	2	10	20		34
Grand Total	46	77	14	50	84	340

Year 2018

Sum of Points

Points Earned by Category (2018 Men Outdoor Top Ten Teams)

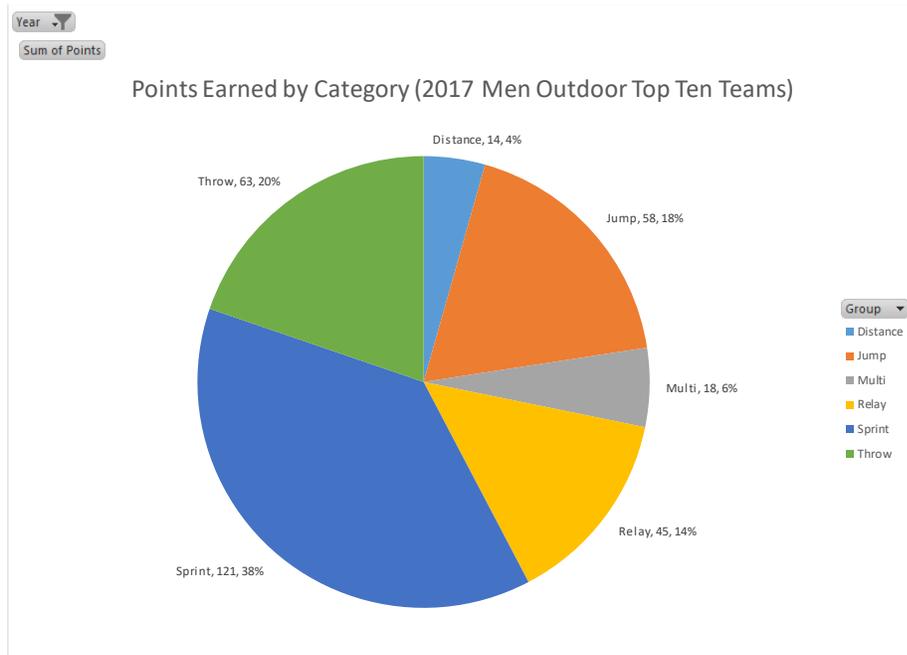


School

Year 2017

Row Labels Sum of Points

Distance	14
Jump	58
Multi	18
Relay	45
Sprint	121
Throw	63
Grand Total	319

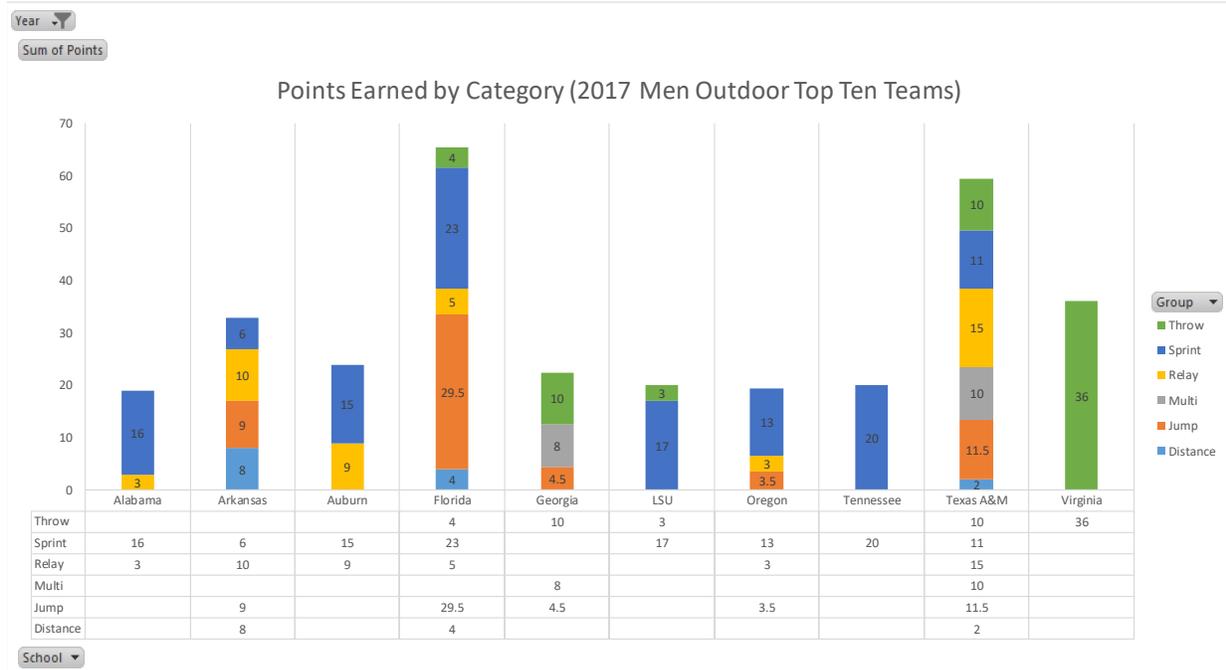


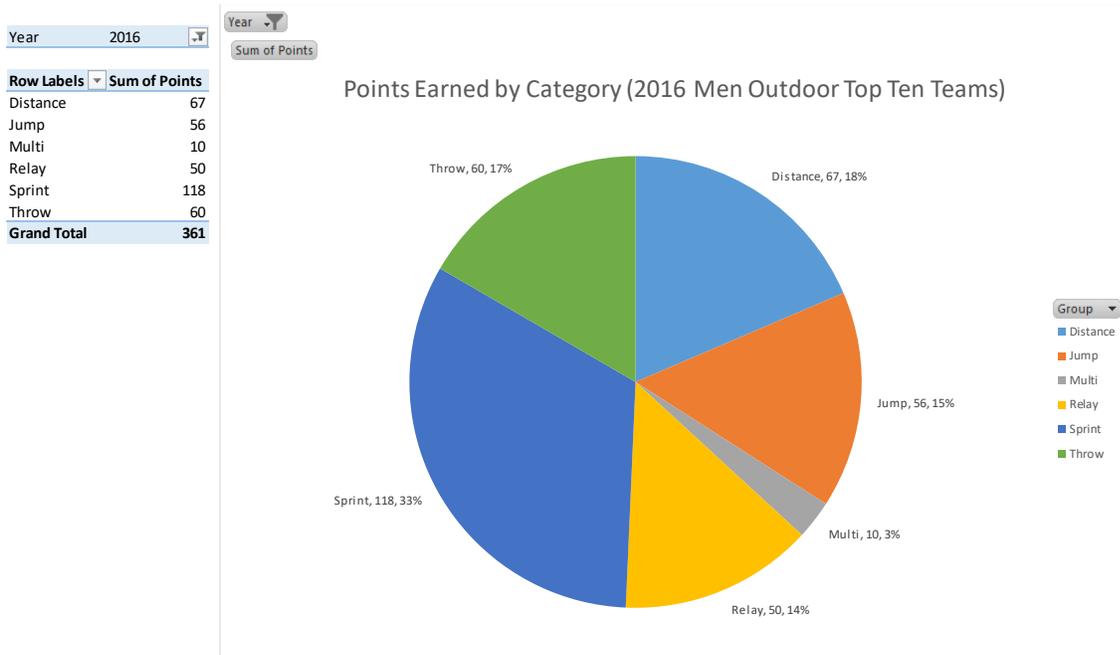
Year 2017

Sum of Points Column Labels

Row Labels Distance Jump Multi Relay Sprint Throw Grand Total

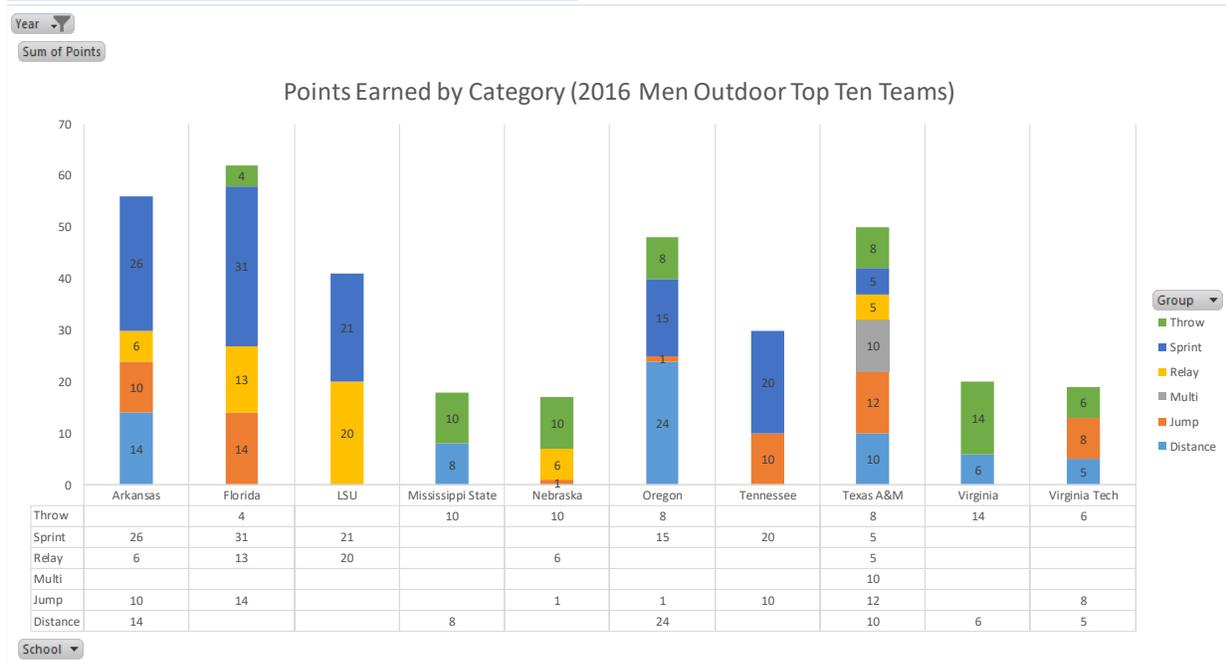
	Distance	Jump	Multi	Relay	Sprint	Throw	Grand Total	
Alabama					3	16	19	
Arkansas		8	9		10	6	33	
Auburn				9	15		24	
Florida		4	29.5		5	23	4	65.5
Georgia			4.5	8			10	22.5
LSU						17	3	20
Oregon				3.5		3	13	19.5
Tennessee						20		20
Texas A&M		2	11.5	10	15	11	10	59.5
Virginia							36	36
Grand Total	14	58	18	45	121	63	319	





Year: 2016

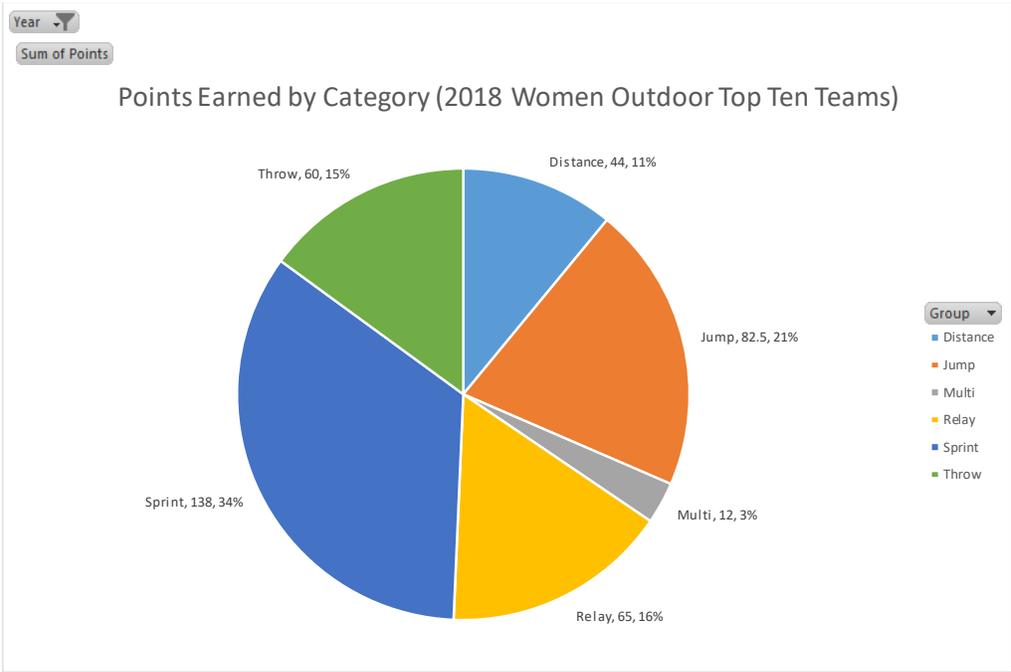
Row Labels	Distance	Jump	Multi	Relay	Sprint	Throw	Grand Total
Arkansas	14	10		6	26		56
Florida		14		13	31	4	62
LSU				20	21		41
Mississippi State	8					10	18
Nebraska		1		6		10	17
Oregon	24	1			15	8	48
Tennessee		10			20		30
Texas A&M	10	12	10	5	5	8	50
Virginia	6					14	20
Virginia Tech	5	8				6	19
Grand Total	67	56	10	50	118	60	361



Year 2018

Row Labels Sum of Points

Distance	44
Jump	82.5
Multi	12
Relay	65
Sprint	138
Throw	60
Grand Total	401.5



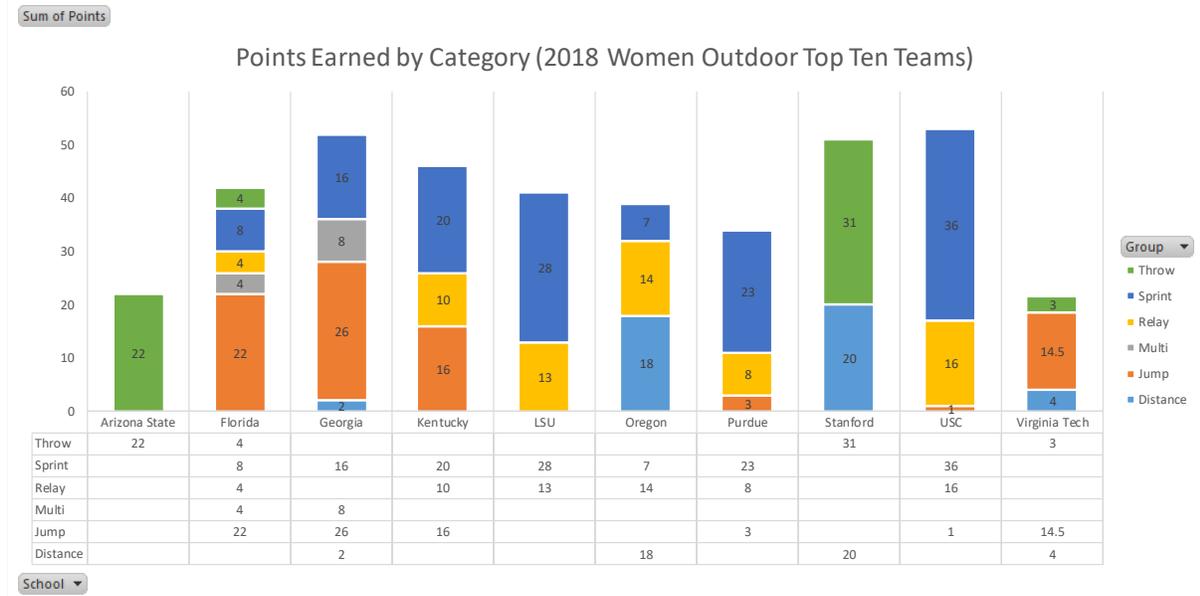
Year 2018

Sum of Points Column Labels

Row Labels Distance Jump Multi Relay Sprint Throw Grand Total

Row Labels	Distance	Jump	Multi	Relay	Sprint	Throw	Grand Total
Arizona State						22	22
Florida		22	4	4	8	4	42
Georgia	2	26	8		16		52
Kentucky		16		10	20		46
LSU				13	28		41
Oregon	18			14	7		39
Purdue		3		8	23		34
Stanford	20					31	51
USC		1		16	36		53
Virginia Tech	4	14.5				3	21.5
Grand Total	44	82.5	12	65	138	60	401.5

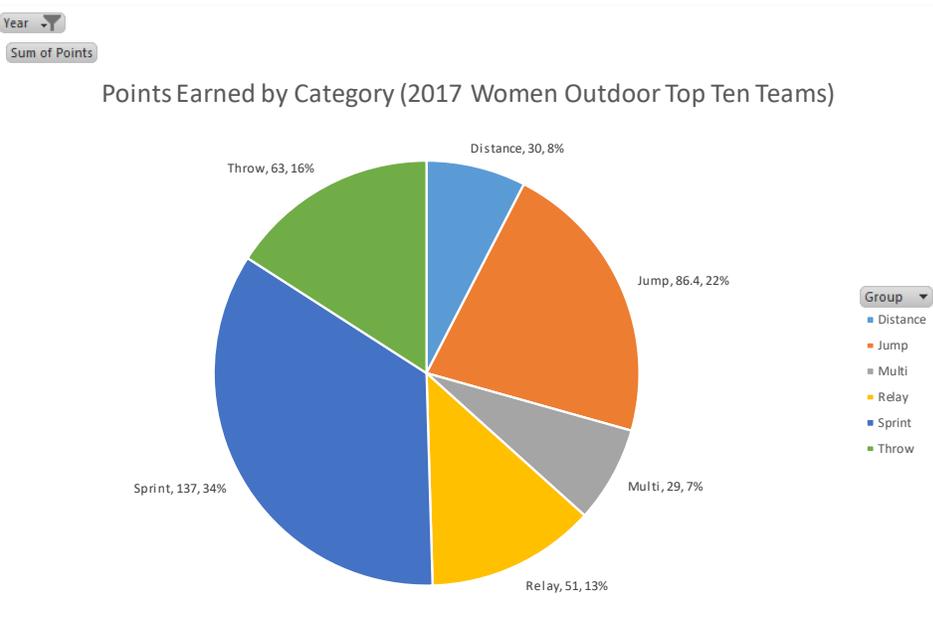
Year 2018



Year 2017

Row Labels Sum of Points

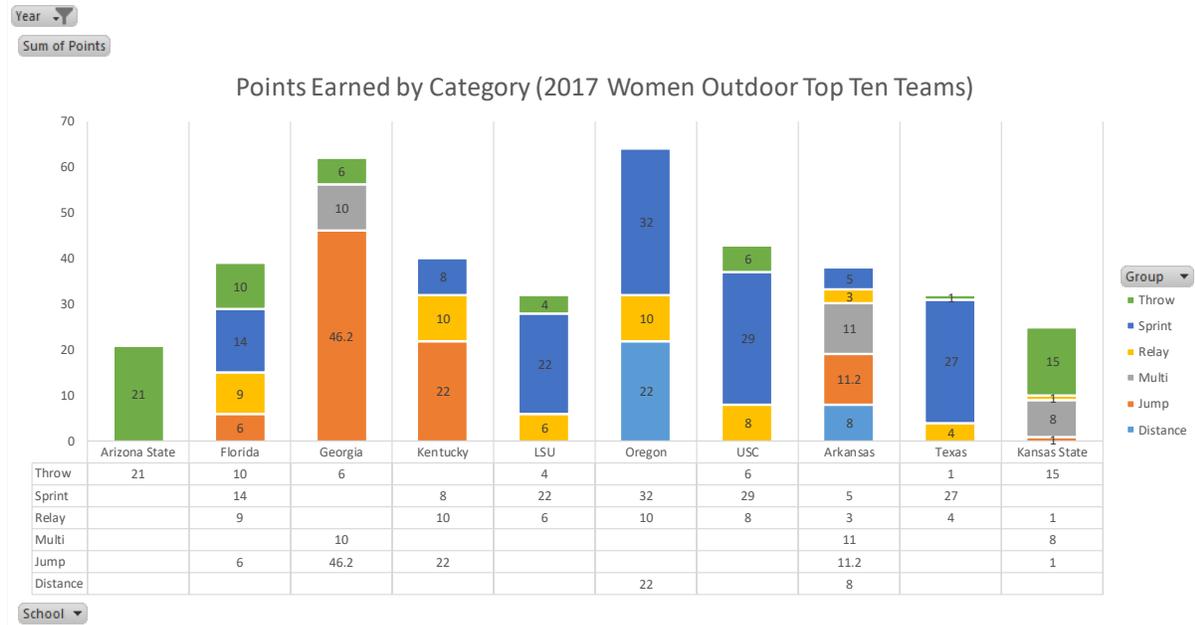
Distance	30
Jump	86.4
Multi	29
Relay	51
Sprint	137
Throw	63
Grand Total	396.4



Year 2017

Sum of Points Column Labels

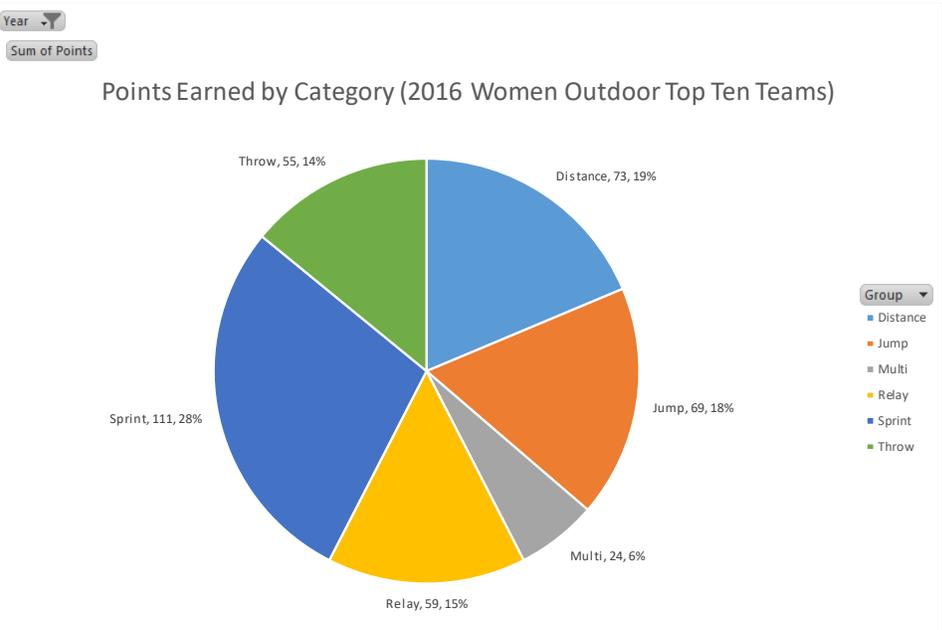
Row Labels	Distance	Jump	Multi	Relay	Sprint	Throw	Grand Total
Arizona State						21	21
Florida		6		9	14	10	39
Georgia		46.2	10			6	62.2
Kentucky		22		10	8		40
LSU				6	22	4	32
Oregon		22		10	32		64
USC				8	29	6	43
Arkansas		8	11.2	11	3	5	38.2
Texas				4	27	1	32
Kansas State			1	8	1	15	25
Grand Total	30	86.4	29	51	137	63	396.4



Year 2016

Row Labels Sum of Points

Distance	73
Jump	69
Multi	24
Relay	59
Sprint	111
Throw	55
Grand Total	391



Year 2016

Sum of Points Column Labels

Row Labels Distance

	Jump	Multi	Relay	Sprint	Throw	Grand Total
Florida	11		6	5	6	28
Georgia		31	10			41
LSU	2			15	11	31
Oregon	18		6	34	4	62
Stanford	21				8	29
USC				9	17	28
Arkansas	32	16	8	8	8	72
Texas		1	10	25		36
Kansas State		10	6		13	29
Texas A&M				5	11	35
Grand Total	73	69	24	59	111	391

Year 2016

Sum of Points

Points Earned by Category (2017 Women Outdoor Top Ten Teams)



School