

# NCAA Men's Division II Advanced Stats Cheat Sheet

## Introduction

This document will review most of the standard and advanced team metrics that are available via Pivot Analysis' tools as well as many other sites or applications. The importance (correlation with efficiency) of many of these factors are included in the Advanced Stats Season Review published by Pivot Analysis. These two documents, used in conjunction, can provide a clear path for team analysis and understanding how and why a team was successful. All percentiles are based on the final season-long metrics across the whole division.

## Other Resources

Four Factors: [www.pivotanalysis.com/post/what-are-four-factors-basketball](http://www.pivotanalysis.com/post/what-are-four-factors-basketball)

Offensive/Defensive Ratings: [www.pivotanalysis.com/post/offensive-and-defensive-ratings](http://www.pivotanalysis.com/post/offensive-and-defensive-ratings)



## Overview of percentiles



<b>Elite (90th Percentile)</b>
<b>Above Average (75th Percentile)</b>
<b>Average (50th Percentile)</b>
<b>Below Average (25th Percentile)</b>
<b>Poor (10th Percentile)</b>

<b>Categories</b>	<b>Description</b>
PPP	Points per possession - Scoring Efficiency
EFG	Effective Field Goal Percentage - Points per shot without free throws
PPS w/FT	Point per shot with Free Throws - True shooting percentage
FG%	Field goal percentage
2pt PPS	Points per shot on 2 point field goal attempts - 2 point field goal percentage
A/TO	Assist to Turnover Ratio
3pt PPS	Points per shot on 3 point field goal attempts - 3 point field goal percentage
FT%	Free throw percentage
ORR	Offensive Rebound Rate - Ratio of missed shots that result in an offensive rebound
FTR	Free Throw Rate - Ratio of made FTs to FGAs
3PAR	3 point attempt rate - Proportion of FGAs that are taken from 3
Assist%	Assist Percentage - Ratio of Assists to made field goals
Pace	# of Possessions per 40 minutes
TOV	Turnover Percentage - Percentage of possessions that end in a turnover



## **Scoring Efficiency + Pace**

<b>PPPx100</b>	<b>Pace</b>
<b>114.78</b>	<b>76.42</b>
<b>110.31</b>	<b>74.14</b>
<b>105.66</b>	<b>71.40</b>
<b>101.21</b>	<b>68.82</b>
<b>96.43</b>	<b>67.02</b>

Overall Metrics for Per 100 Poss Scoring Efficiency / Pace (Possessions per 40 min)

<b>PPS w/FT</b>	<b>PPS noFT</b>	<b>2pt PPS</b>	<b>3pt PPS</b>
<b>1.35</b>	<b>1.13</b>	<b>1.12</b>	<b>1.17</b>
<b>1.31</b>	<b>1.08</b>	<b>1.07</b>	<b>1.11</b>
<b>1.26</b>	<b>1.04</b>	<b>1.02</b>	<b>1.06</b>
<b>1.21</b>	<b>1.00</b>	<b>0.98</b>	<b>1.00</b>
<b>1.16</b>	<b>0.96</b>	<b>0.94</b>	<b>0.94</b>

Scoring efficiencies with and without Free Throws / from 2 / from 3



### **Four Factors + Other Shooting and Assist Metrics**

Effective Field Goal %	Offensive Rebound Rate	Free Throw Rate	Turnover %
<b>56.37%</b>	<b>36.90%</b>	<b>26.95%</b>	<b>16.07%</b>
<b>54.02%</b>	<b>33.83%</b>	<b>24.90%</b>	<b>17.32%</b>
<b>52.04%</b>	<b>30.34%</b>	<b>21.96%</b>	<b>18.74%</b>
<b>49.78%</b>	<b>27.01%</b>	<b>19.39%</b>	<b>20.08%</b>
<b>47.94%</b>	<b>24.60%</b>	<b>17.76%</b>	<b>21.50%</b>

Four Factors

3FG%	FT%	3PAR	FG%
<b>39.09</b>	<b>77.13</b>	<b>45.50%</b>	<b>48.48</b>
<b>37.07</b>	<b>74.54</b>	<b>41.99%</b>	<b>46.86</b>
<b>35.24</b>	<b>71.61</b>	<b>38.18%</b>	<b>45.07</b>
<b>33.34</b>	<b>68.91</b>	<b>34.43%</b>	<b>43.22</b>
<b>31.47</b>	<b>66.60</b>	<b>31.69%</b>	<b>41.52</b>

Additional FG%s + Three Point Attempt Rate

Asst%	A/TO
<b>57.92%</b>	<b>1.35</b>
<b>53.58%</b>	<b>1.17</b>
<b>49.82%</b>	<b>1.00</b>
<b>46.40%</b>	<b>0.86</b>
<b>43.26%</b>	<b>0.76</b>

Assist Percentage + Assist/Turnover Ratio

