

NCAA Men's Division I 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 winning) 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.

Other Resources

Four Factors: www.pivotanalysis.com/post/what-are-four-factors-basketball

Offensive/Defensive Ratings: www.pivotanalysis.com/post/offensive-and-defensive-ratings

Overview of percentiles

| Offensive Metrics | Defensive Metrics | Elite (90th Percentile) |
|---|-------------------|---------------------------------|
| All percentiles based on 2019/2020 final metrics | | Above Average (75th Percentile) |
| All metrics are adjusted to remove "garbage time" | | Average (50th Percentile) |
| Shot profile numbers are based on Pivot Analysis's shot categories in the lineup explorer | | Below Average (25th Percentile) |
| Each section's importance is shown in the 19/20 Review | | Poor (10th Percentile) |



Scoring Efficiency + Pace

| Points Per 100 Possessions | Points Per 100 Possessions (Opp) | Net Rating Per 100 | Possessions Per 40 mins |
|----------------------------|----------------------------------|--------------------|-------------------------|
| 113.843 | 98.698 | 11.952 | 69.184 |
| 110.468 | 101.737 | 6.863 | 67.263 |
| 105.920 | 105.464 | 0.462 | 65.638 |
| 101.278 | 109.365 | -6.040 | 63.934 |
| 98.285 | 113.580 | -13.712 | 62.740 |

Overall Metrics for Offense / Defense / Net / Pace

| Points Per Shot(w/FTs) | Points Per Shot(w/out FTs) | Points Per Shot(w/FTs) (Opp) | Points Per Shot(w/out FTs) (Opp) |
|------------------------|----------------------------|------------------------------|----------------------------------|
| 1.311 | 1.061 | 1.128 | 0.922 |
| 1.272 | 1.029 | 1.173 | 0.954 |
| 1.215 | 0.993 | 1.218 | 0.991 |
| 1.174 | 0.950 | 1.273 | 1.030 |
| 1.135 | 0.922 | 1.314 | 1.065 |

Scoring Efficiencies with and without Free Throws (Offense / Defense)



Four Factors (Offense/Defense/Net)

| Effective Field Goal % | Offensive Rebound Rate | Turnover % | Free Throw Rate |
|------------------------|------------------------|---------------|-----------------|
| 53.03% | 32.85% | 14.45% | 27.48% |
| 51.43% | 30.49% | 15.56% | 25.52% |
| 49.64% | 27.83% | 16.79% | 22.87% |
| 47.52% | 25.33% | 17.92% | 20.31% |
| 46.12% | 22.57% | 19.00% | 18.14% |

Offensive Four Factors Metrics

| Effective Field Goal % (Opp) | Offensive Rebound Rate (Opp) | Turnover % (Opp) | Free Throw Rate (Opp) |
|---------------------------------|---------------------------------|---------------------|--------------------------|
| 46.12% | 24.29% | 19.51% | 17.91% |
| 47.72% | 25.98% | 17.94% | 20.14% |
| 49.55% | 28.06% | 16.59% | 22.35% |
| 51.49% | 29.88% | 15.43% | 25.25% |
| 53.24% | 31.62% | 14.42% | 28.67% |

Defensive Four Factors Metrics

| Net EFG | Net ORR | Net TOV | Net FTR |
|--------------|---------------|---------------|---------------|
| 5.12% | 6.59% | 3.40% | 6.46% |
| 2.97% | 3.06% | 1.50% | 3.58% |
| 0.01% | -0.56% | -0.01% | -0.09% |
| -3.14% | -3.24% | -1.55% | -3.28% |



| | | | |
|---------------|---------------|---------------|---------------|
| -5.88% | -5.92% | -3.26% | -6.88% |
|---------------|---------------|---------------|---------------|

Four Factors Margins

Shot Profiles (Rim/Mid/Three)

| FG% At the Rim | % of FGA At the Rim | FG% At the Rim (Opp) | % of FGA At the Rim (Opp) |
|----------------|---------------------|----------------------|---------------------------|
| 59.00% | 52.40% | 49.83% | 39.30% |
| 56.80% | 49.33% | 51.78% | 42.55% |
| 54.50% | 45.80% | 54.95% | 45.80% |
| 52.10% | 41.98% | 57.50% | 48.70% |
| 50.16% | 38.29% | 59.87% | 51.80% |

At the Rim Effectiveness (Offense / Defense)

| 3ptFG% | % of FGA from 3 | 3ptFG% (Opp) | % of FGA from 3 (Opp) |
|---------------|-----------------|---------------|-----------------------|
| 36.70% | 44.07% | 30.23% | 32.20% |
| 35.03% | 41.00% | 31.70% | 34.60% |
| 33.15% | 37.45% | 33.30% | 37.50% |
| 31.50% | 33.58% | 34.90% | 40.10% |
| 29.90% | 29.93% | 36.70% | 42.70% |

Three Point Effectiveness (Offense / Defense)

| FG% Mid-Range | % of FGA from Mid-Range | FG% Mid-Range (Opp) | % of FGA from Mid-Range (Opp) |
|---------------|-------------------------|---------------------|-------------------------------|
| 39.80% | 10.43% | 30.90% | 22.54% |
| 38.00% | 13.38% | 33.13% | 18.73% |
| 35.25% | 16.60% | 35.65% | 16.60% |
| 32.70% | 20.70% | 38.03% | 14.40% |



| | | | |
|---------------|---------------|---------------|---------------|
| 30.46% | 24.10% | 40.10% | 12.83% |
|---------------|---------------|---------------|---------------|

Mid-Range Effectiveness (Offense / Defense)

Misc. Stats (Assists/Other FG%s)

| Assist Percentage | Assist/Turnover Ratio | Assist Percentage (Opp) | Assist/Turnover Ratio (Opp) |
|-------------------|-----------------------|-------------------------|-----------------------------|
| 57.92% | 1.232 | 44.38% | 0.761 |
| 55.13% | 1.093 | 47.94% | 0.858 |
| 51.79% | 0.969 | 51.63% | 0.978 |
| 47.80% | 0.858 | 54.85% | 1.100 |
| 44.38% | 0.764 | 58.71% | 1.218 |

Assist Metrics (Offense / Defense)

| FG% | 2pFG% | FT% | TS% | FG% (Opp) | 2pFG% (Opp) | FT% (Opp) | TS% (Opp) |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 46.32% | 53.18% | 75.94% | 56.79% | 40.13% | 45.33% | 67.63% | 50.09% |
| 44.97% | 51.46% | 74.01% | 55.38% | 41.73% | 47.27% | 69.08% | 51.75% |
| 43.44% | 49.46% | 71.14% | 53.26% | 43.32% | 49.34% | 71.00% | 53.50% |
| 41.56% | 47.09% | 68.22% | 51.55% | 45.09% | 51.60% | 72.53% | 55.25% |
| 40.42% | 45.37% | 65.99% | 50.11% | 46.73% | 53.70% | 74.11% | 56.86% |

Other shooting percentages

