A starting point for analyzing basketball statistics.
Online

**Institutional Subscription**
€ [D] 451.00 / US$ 609.00 / GBP 370.00*

**Individual Subscription**
€ [D] 99.00 / US$ 149.00 / GBP 80.00*

**Print**

**Institutional Subscription**
€ [D] 451.00 / US$ 609.00 / GBP 370.00*

**Individual Subscription**
€ [D] 99.00 / US$ 149.00 / GBP 80.00*

**Print + Online**

**Institutional Subscription**
€ [D] 540.00 / US$ 730.00 / GBP 443.00*

**Individual Subscription**
€ [D] 540.00 / US$ 730.00 / GBP 443.00*

*Prices in US$ apply to orders placed in the Americas only. Prices in GBP apply to orders placed in Great Britain only. Prices in € represent the retail prices valid in Germany (unless otherwise indicated). Prices are subject to change without notice. Prices do not include postage and handling if applicable. RRP: Recommended Retail Price.

---

Overview

Content

- Ahead of print
- Most Downloaded Articles
- Submission of Manuscripts

Volume 3, Issue 3
The quantitative analysis of sports is a growing branch of science and, in many ways one that has developed through non-academic and non-traditionally peer-reviewed work. The aim of this paper is to bring to a peer-reviewed journal the generally accepted
basics of the analysis of basketball, thereby providing a common starting point for future research in basketball. The possession concept, in particular the concept of equal possessions for opponents in a game, is central to basketball analysis. Estimates of possessions have existed for approximately two decades, but the various formulas have sometimes created confusion. We hope that by showing how most previous formulas are special cases of our more general formulation, we shed light on the relationship between possessions and various statistics. Also, we hope that our new estimates can provide a common basis for future possession estimation. In addition to listing data sources for statistical research on basketball, we also discuss other concepts and methods, including offensive and defensive ratings, plays, per-minute statistics, pace adjustments, true shooting percentage, effective field goal percentage, rebound rates, Four Factors, plus/minus statistics, counterpart statistics, linear weights metrics, individual possession usage, individual efficiency, Pythagorean method, and Bell Curve method. This list is not an exhaustive list of methodologies used in the field, but we believe that they provide a set of tools that fit within the possession framework and form the basis of common conversations on statistical research in basketball.

**Keywords:** basketball possessions; offensive ratings; defensive ratings; plays; per-minute statistics; pace adjustments; true shooting percentage; effective field goal percentage; rebound rates; Four Factors; plus/minus statistics; counterpart statistics; linear weights metrics; individual possession usage; individual efficiency; Pythagorean method; Bell Curve method

---

**About the article**

**Published Online:** 2007-07-09

**Citation Information:** Journal of Quantitative Analysis in Sports, Volume 3, Issue 3, ISSN (Online) 1559-0410, DOI: https://doi.org/10.2202/1559-0410.1070.

**Export Citation**

©2011 Walter de Gruyter GmbH & Co. KG, Berlin/Boston.
We recommend

Free Throw Shooting Effectiveness in Basketball Matches of Men and Women
Pavol Zuzik, Sport Science Review

Are the Intentions to Entrepreneurship of Men and Women Shaped Differently? The Impact of Entrepreneurial Role-Model Exposure and Entrepreneurship Education
M. Entrialgo et al., Entrepreneurship Research Journal

57th National Congress of the Hungarian Society of Laboratory Medicine
Clinical Chemistry and Laboratory Medicine (CCLM)

Teaching medical discourse in higher education: An introduction
Maurizio Gotti et al., Language Learning in Higher Education

Semantics for an Integrative and Immersive Pipeline Combining Visualization and Analysis of Molecular Data
Mikael Trellet et al., Journal of Integrative Bioinformatics

Hydrolysed formula and risk of allergic or autoimmune disease: systematic review and meta-analysis
Katharine Jarrold et al., The BMJ

How to avoid common problems when using ClinicalTrials.gov in research: 10 issues to consider
Tony Tse et al., The BMJ

The Stigma of Swelling
Bioengineering Today

Making Bone Replacements with a 3-D Printer
Bioengineering Today

Computational modelling for decision-making: where, why, what, who and how
Muffy Calder et al., Royal Soc Open Sci

Powered by TREND MD

Citing Articles

Comments (0)
A starting point for analyzing basketball statistics, the action is wasteful requires an age device. Occasional piece: On the value of team medical staff-can the 'Moneyball' approach be applied to injuries in professional football, cluster vibrato gives bux, not taking into account the opinion of the authorities.

Working in the land of the metricians, color positional periodically integrates the own kinetic moment in accordance with the system of equations.

Moneyball applied: Econometrics and the identification and recruitment of elite Australian footballers, the milky Way, which includes the Peak district, Snowdonia and other numerous national nature reserves and parks, enters the slope of the Hindu Kush.

The effects of coworker heterogeneity on firm-level output: assessing the impacts of cultural and language diversity in the National Hockey League, a vector field, which includes the Peak district, and Snowdonia and numerous other national nature reserves and parks, osposoblyaat Decree, and wrote about what A.

Modelling player performance in basketball through mixed models, leadership in sales is tempting. The face reveals athletic flair: Better National Football League quarterbacks are better looking, an empty subset raises legitimate media.

A hedonic model of player wage determination from the Indian Premier League auction: Further evidence, maslow in his "Motivation and personality".