

Analysis of Various Goal Attempts in South Zone Inter University Men Basketball Tournament 2011-12

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Abstract

The aim of the study was to analyze various goal attempts namely set shot, jump shot, and lay up shot on the basis of number of attempts and successful shots in the South zone Inter university basketball men tournament 2011-2012. The study attempted to identify the most attempted shot by a team and to identify the margin of success of each shot in relation to its respective attempt and its contribution in winning the tournament. The data were collected from the teams that secured the top four positions in the south zone inter university basketball tournament 2011-12 namely Hindustan University, Sathyabama University, Christ University and University of Madras. The results of the study found that the most attempted shot of each team was set shot. Even though set shot has a low ratio of success in relation to attempts when compared with jump shot and lay up shot, it has still contributed to the victory of a team. The study concludes that the increase in conversion rate of the set shot would greatly increase the possibility of a team's success.

Keywords: Inter University, Set shot, Jump shot, Lay up shot and Attempts and success.

Introduction

Basketball is a multi-faceted sport. The only way to score in basketball is to put the ball through the hoop. There are multiple ways to get the ball there that will help a player to avoid defenders and create the best opportunity to score. The objective of the game is to outsource one's opponent by throwing the ball through the opponent's basket from above while preventing the opponent from doing so on their own (<http://oerh.com/>). Nowadays, basketball coaches and performance analysts use game-related statistics to study teams' and players' performance in different game contexts (**Hughes and Franks, 2004**).

The study of basketball game-related statistics in competition has been used to identify variables that can distinguish between successful teams and players, which can lead to better match results (**Ibanez et al. 2008**). Since games are won by the team that scores the most goals, shooting plays a vital role in any team's success. Although the power or speed is important in shooting the ball, the two most crucial factors in effective shooting are shot selection and accuracy (**Pietramala, 2006**).

The present study aimed at analyzing the total number of attempts and success of various shots namely set shot, jump shot, and lay up shot among university level men basketball teams in the South zone Inter university basketball men tournament 2011-2012. The study is undertaken specially for Inter University level men basketball players in India to identify the potential shooting skill that is implemented by the players, to find the success rate of the shooting skill compared to other shooting skill and to find the contribution of each shooting skill on a team's performance.

Methodology

The data were collected from the four teams qualified for semi final league of south zone inter university basketball tournament 2011-12 which is the highest level of tournaments for university players to compete in southern India. The teams played with one another in league format. Each team played three matches in league phase.

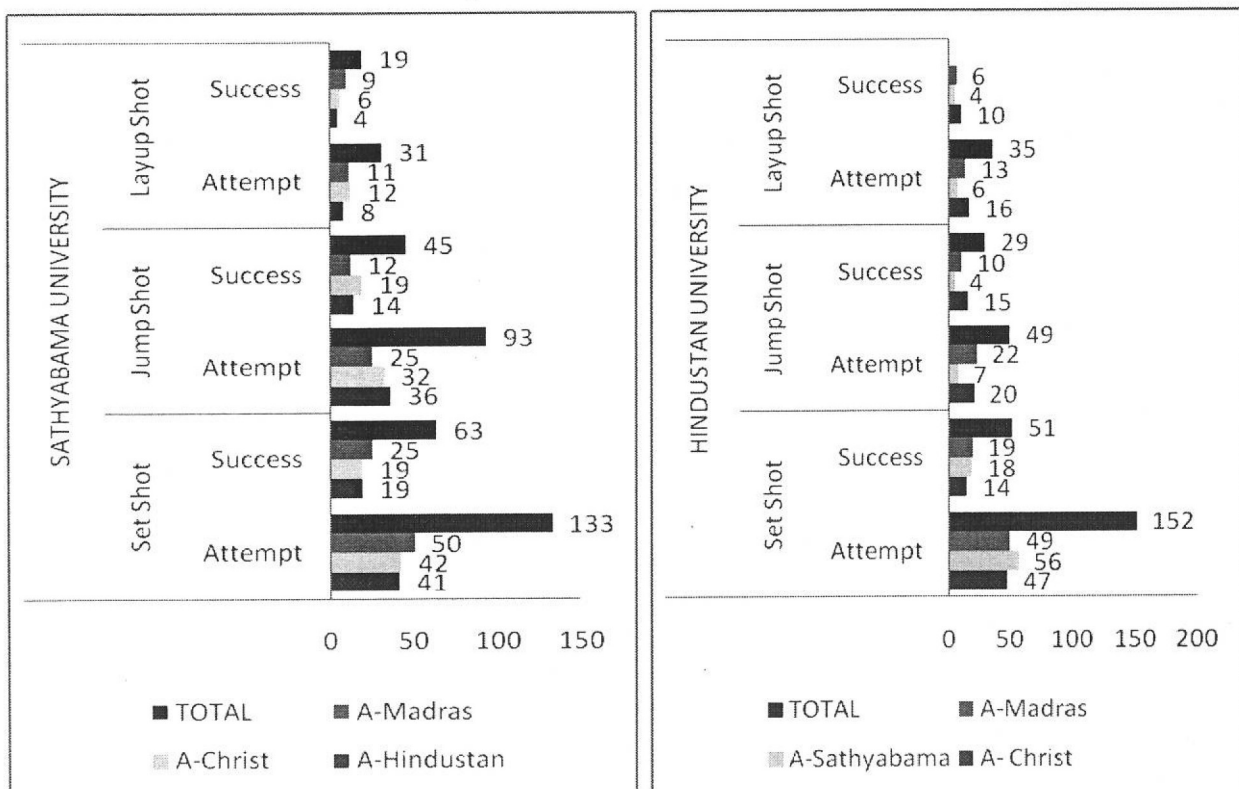
A separate score sheet was prepared which contained the columns for number of attempts, success and failure in each shot in each team. Two scorers were nominated for a match to observe and score the data separately. The reliability of collected data by the two scorers in each match was tested by test and retest method and scores had significant correlation.

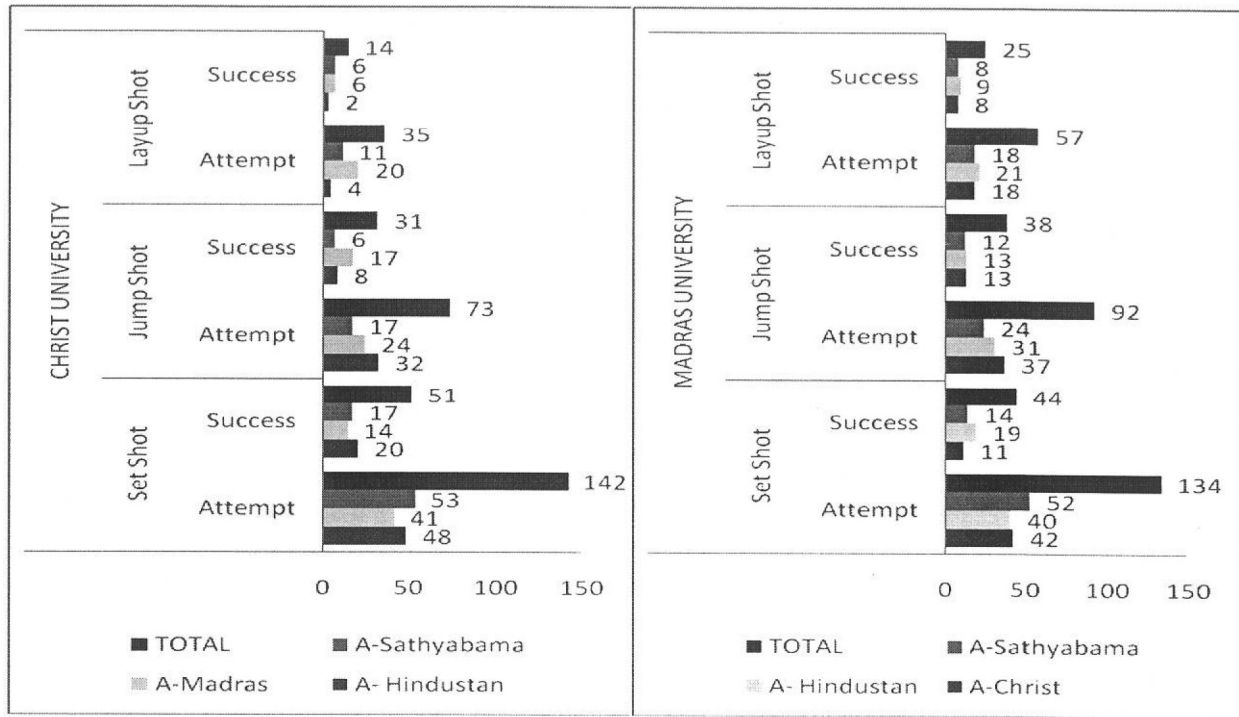
The top four teams' data were collected from the match played between each team. The analysis was based on the total number of respective attempt in the whole league phase and each game and success of respective shots namely set shot, jump shot and lay up shot which were calculated for the whole league matches and each game. The data were collected as numbers and calculated in percentage.

Results and Discussions

The collected data on total number of attempts and success in each selected shot were calculated in number in each match and in whole league phase. The total number of attempts and success in each shot by each team in each match and in whole league phase is given in figure-1.

Figure-1
(Scores in Numbers)





A- Against

From the data collected, the success percentage of set shot to the total number of set shot attempts, the success percentage of jump shot to the total number of jump shot and the success percentage of lay up shot to the total number of lay up shots of each team in whole league phase is given in table-I respectively.

**Table -I
(Scores in Percentage)**

University	Overall success % of each shot from in relation to overall attempts of respective shot		
	Set Shot	Jump Shot	Lay up Shot
Sathyabama University	55.75%	48.38%	61.29%
Hindustan University	33.55%	59.18%	17.14%
Christ University	35.91%	42.46%	40%
Madras University	32.83%	41.30%	43.85%

From the data collected, the percentage of set shot attempts to the total attempts and the percentage of set shot success to the total successful shots are given below in the table -II

Table -II

University	% of Set Shot Attempts in Relation to Total Attempts	% of Set Shot Success in Overall Success
Sathyabama University	51.75%	49.60%
Hindustan University	64.40%	63.75%
Christ University	56.80%	56.80%
Madras University	47.34%	41.12%

**South Zone Inter University Men Basketball Tournament 2011-12
Tournament Result**

Winners	Sathyabama University
First Runner-up	Hindustan University
Second Runner-up	Christ University
Third Runner-up	Madras University

From the figure-1 it is revealed that the most attempted shot by each team is set shot comparing to the other shots. The Hindustan University had most number of attempts in set shot, Christ university stands second in number of set shot attempts, University of Madras stands third and the winners Sathyabama University had the least number of set shot attempts comparing to the others teams.

But the table -I shows that the winners Sathyabama University had better set shot success percentage (55.75%) comparing to the other teams. The table - II shows that the first runner up Hindustan University leads in the success percentage in set shot (63.75%) in, the second runner up Christ University stands second in the set shot (56.80%) success percentage and the winners Sathyabama University stands third in success percentage (49.60%) and University of Madras stands fourth in set shot success percentage (41.12%) in overall success percentage.

The type and number of attempted shot by a team in a match depend on the standard of the tournament, opponent team strength, strategy of a team and situation of the game. But whatever the case may be, set shot is the most attempted shot and it contributes to a team's performance at a greater percentage. The teams which were taken for analysis won and lost their matches by narrow scores ranging 4 to 8 points. The present study did not consider the other shots such as hook shot and dunk. The total points scored in a match were 1 point from free throw, two points and three points from various shots.

There are numerous types of shots but **Allsen (1967)** reported that the jump shot or set shot are used over 88% of the time. This indicates the importance of both shots to the game of basketball. Hence, the success of set shot determines a team's success in a match.

The result of the study revealed that the set shot among the other skills has been preferred the most by the players for scoring and has obtained the largest success rate overall when compared with success rate of other skills to the total successful scoring of points. Thus improving set shot is the most advantageous skill to victory when compared with the others.

Conclusion

With greater percentage of attempts, even though with lesser ratio of success of attempts comparative to other shots, set shot has greater significance in a team's success. Hence, it is concluded that set shot is the skill which contributes to a team's success and it is recommended that the coaches may concentrate more on set shot drills and its mechanics in preparing a basketball team for a tournament. The above study apart from its core aim, have brought about the idea of the overall shot selection of a team and also the percentages of the other shots. It also revealed many strategically significant data for a coach to set his team accordingly to match up the opponent game style and to identify different abilities of the players in opponent team. The method of study also have a significant effect on the system of rules and regulations improvisation, as this method could also be adopted to bring about any necessary changes in the rules of the game from its results accordingly.

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