Multiple regression analysis of miami heat

Park University Multiple Regression Analysis Pamela Lima EC31 5 Quantitative Research Methods Dr. sell 11/22/2013 Miami Heat Average Attendance per season Miami Heat History The Miami Heat is a professional basketball team, based in Miami, Florida. The team is a member of the Southwest Division in the Eastern Conference of the National Basketball Association (NBA). The Miami Arena was the home of the Heat until the end of the 1999.

The American Airlines Arena, located in Downtown Miami is the new home of the Heat since January 2nd, 2000.

Micky Arison is the team owner; he also owns the giant Carnival cruise lines. Pat Riley is the team president and general manager, and Erik Spoelstra is the head coach. Their mascot is Burnie, an anthropomorphic fireball. The Miami Heat team was formed in 1988; the Heat has won three league championships so far (2006, 2012, and 2013).

They also added four conference titles, and 10 division titles. With 27 wins in a row between February 3 to March 27, 2013 the Heat hold the second-longest streak in NBA history.

In 2013, Forbes Magazine valued the Heat at $625 million. Leading the recent winning tradition that the Heat had achieved are LeBron Raymone James, and Dwayne Wade. Together they are responsible for most part of the points scored by the Heat.

" King James", as he is called by the Miami Heat fans is their star player and actual NBA Most Valuable Player. Purpose: The main purpose of this study is

to determine a possible projection of the Miami Heat average attendance for the next seasons based on two independent variables.

The average home attendance per season will be considered my dependent variable. I am going to analyze two independent variables that I believe that affects my dependent variable average home attendance. The independent variables that I am oing to use are: overall winning percentage of the Miami Heat, and the average minimum weather. I believe that people are more likely to attend to the games if the team nad a winning season in the previous year.

I also think that people are more likely to attend to sports contests in general when the weather is more pleasant.

To determine the weather I chose the average minimum weather between the days that the season started to when it ended for all 25 seasons that are being analyzed. I chose the minimum average because most of the games are playing at night, so I ssumed that this is when you expect the lowest temperature throughout the day. Hypothesis: The purpose will be to show the relationship between the dependent variable average home attendance per season, and the independent variables season winning percentage and minimum average temperature during the season.

This relationship, after studied will provide information to check whether the independent variable have a positive or negative relationship with the dependent variable. After the analysis I hope to have a model that can possible estimate the average home game attendance during the following seasons.

Results: The following table shows the average home game attendance and also the winning percentage and the average minimum temperature from the 1988-89 through the 2012-13 season.