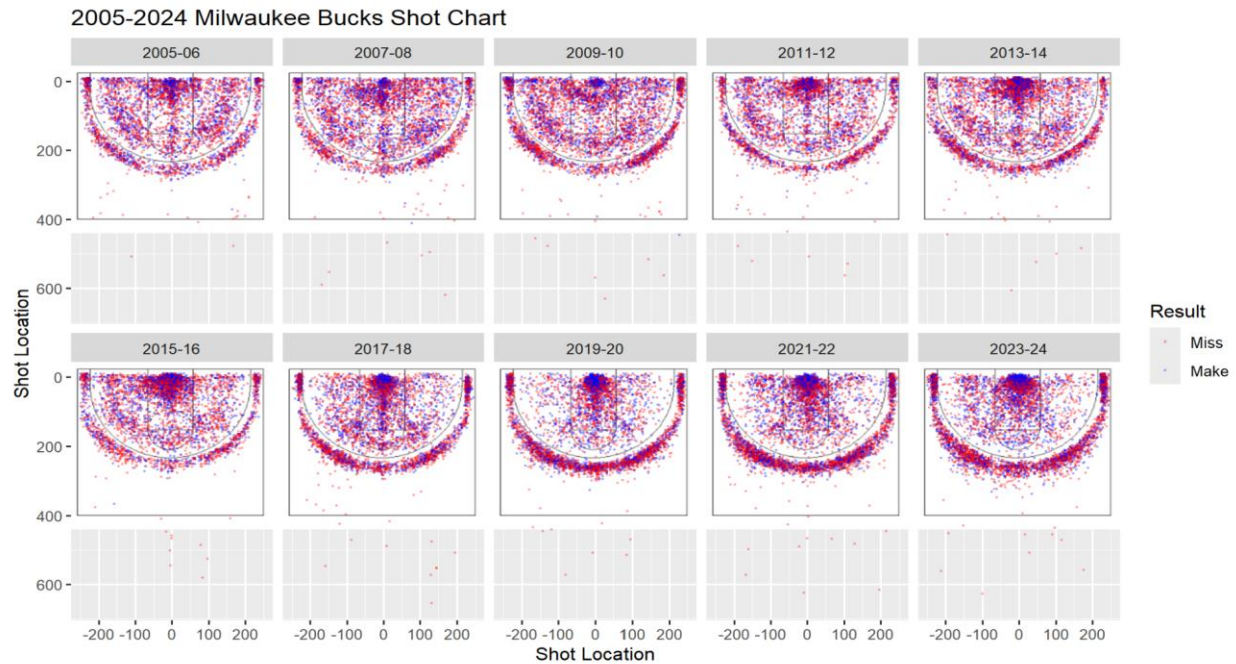


# Milwaukee Bucks Shot Data Analysis (2005-2024)

Caden Rummel



## Key Findings

- **Shot Location Distribution:** Shots are concentrated near the basket, with noticeable activity around the key and beyond the three-point line.
- **Shot Accuracy:** Successful shots tend to be right near the basket and around the three-point arc.
- **Seasonal Trends:** Shot patterns change slightly as the years increase
- **High-Volume Shooting Areas:** The right and left wing have a high concentration of shots compare to the middle and far ends of the 3-point line.
- **Missed Shots:** There are missed shots all around the court, but less right near the basket
- **Court Coverage:** In the later years the shots seemed to get farther away from the basket

## More Detailed Findings

### **Shot Location Distribution:**

- The Bucks take the majority of their shots right near the basket. This is consistent with the rest of the NBA since these shots are the easiest to make.
- The shots behind the 3-point line are pretty spread out with the highest concentration of shots being at the left and right ring. This could be due to the “five out” positioning offense that the Bucks run. This is where Giannis drives the lanes and looks for open teammates. In Earlier seasons the Bucks ran a high low offense which is pretty much the same as the “five out”. A big man drives the paint while looking for open teammates around the perimeter.

### **Shot Accuracy:**

- Successful shots (marked in blue) are heavily clustered around the basket and at three-point range. These areas reflect higher shooting percentages for the team. The team is more likely to make shots around the perimeter due to them being more open compared to mid-range shots that are likely to be contested.
- The courts are all heavily colored in blue right under the basket due to these being the highest percentage shots.

### **Seasonal Trends:**

- Examining shot patterns over the 2005-2024 seasons reveals a minimal change in shot selection. Over the years there has been an increase in shots around the perimeter. This is due to the NBA having a shift in play style where more 3-pointers are being taken per game.
- The shot accuracy around the court has also changed throughout the years. This is due to the roster changing. These rosters changing requires the strategy of the game to change.

### **High-Volume Shooting Areas:**

- The left and right wings is a location of high-volume shooting. This again is due to the type of offense that the bucks run. The High low offense.
- These are the areas where players feel most comfortable shooting the ball and where they are often looking to be open when the big attacks the paint

### **Missed Shots:**

- Missed shots that are in red are located all around the court. The misses are more concentrated around the midrange and long-range shots. This is due to these shots being more difficult to make. The mid-range shots are also more likely to be contested. Misses are more common from mid-range and long-range areas, where shooting percentages tend to dip compared to closer shots.

### **Court Coverage:**

- Since, the NBA as a whole shifted to a more three point-heavy offense. The Bucks followed. With this the Bucks created more shot attempts further from the basket as the years went on. This was in an attempt to compete with the other teams.

### **Conclusion**

These graphics offer a compelling, data-rich glimpse into the Milwaukee Bucks' shooting trends across multiple seasons. The key insight is clear: the team's shot selection has undergone a transformation, emphasizing a sharp increase in three-point attempts while maintaining a strong focus on efficient, high-percentage shots near the rim. These patterns reflect a broader shift in the NBA towards perimeter-oriented offensive strategies. The detailed breakdown provides valuable analysis of how the Bucks' evolving approach to shot selection has influenced their overall performance over time.