

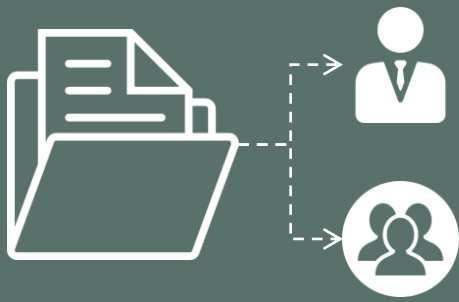
TENURE AND SUCCESS OF VARIOUS BASEBALL MANAGERS IN THE US

— Abhishek Chhibber

Dataset analyzed : Baseball Data (source: [Seanlahman.com/baseball-archive/statistics/](http://seanlahman.com/baseball-archive/statistics/))

Queries analyzed in this report

1. How many managers and teams are there in the dataset?
2. How many managers managed more than one team?
 - a. What is the average number of teams managed by a manager?
 - b. What is the break-up of managers as per number of teams managed?
 - c. Which managers managed maximum teams?
3. What was the tenure of different managers with different teams?
 - a. What was the average tenure of a manager with a team?
4. During the course of a manager's tenure with a team, did the team's average ranking (as compared to that of year of joining):
 - a. Increase
 - b. Decrease
 - c. Remain Same
5. Which were the top managers and teams that achieved highest increase in average ranking?
6. What is the correlation between a manager's tenure, and team's increase in average ranking?
7. During the course of a manager's tenure with a team, did the team's average winning % (as compared to that of year of joining):
 - a. Increase
 - b. Decrease
 - c. Remain Same
8. Which were the top managers and teams that achieved highest increase in average winning % increase?
9. What is the correlation between a manager's tenure, and team's increase in average winning % increase?



696 unique managers

149 unique teams

1.71

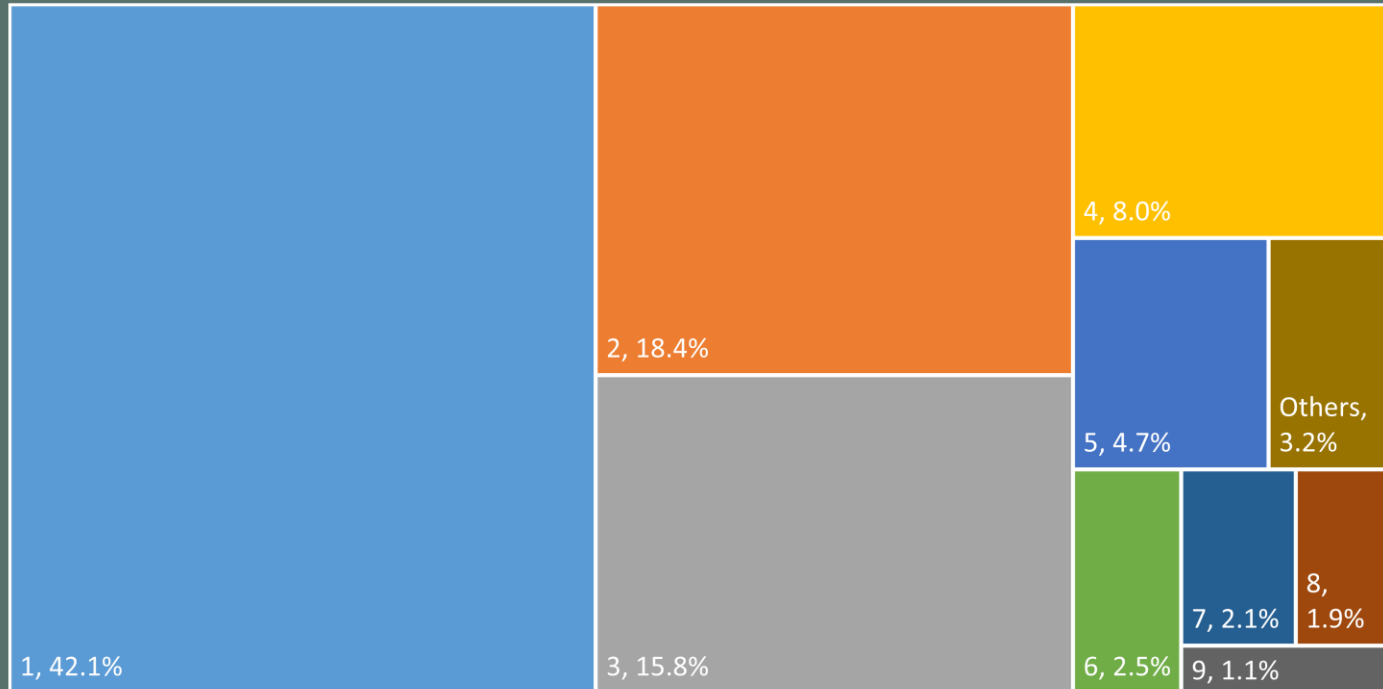
Average number of teams managed by a manager

2.87 Years

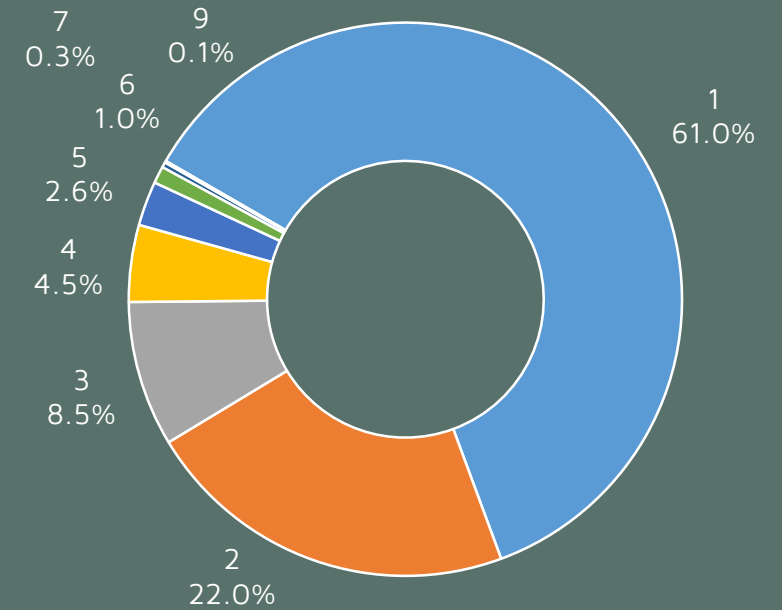
Average tenure of managers

500 times (42.1%), managers worked for only 1 year with a team

Tenure (number of years) by managers (%)



Teams (numbers) managed by managers (%)



Bob Ferguson managed 9 teams, followed by Frank Bancroft and Jack Chapman, each managing 7 teams

Connie Mack had the maximum tenure with Philadelphia Athletics, spanning 50 years.

Changes in teams' average ranking during a manager's tenure

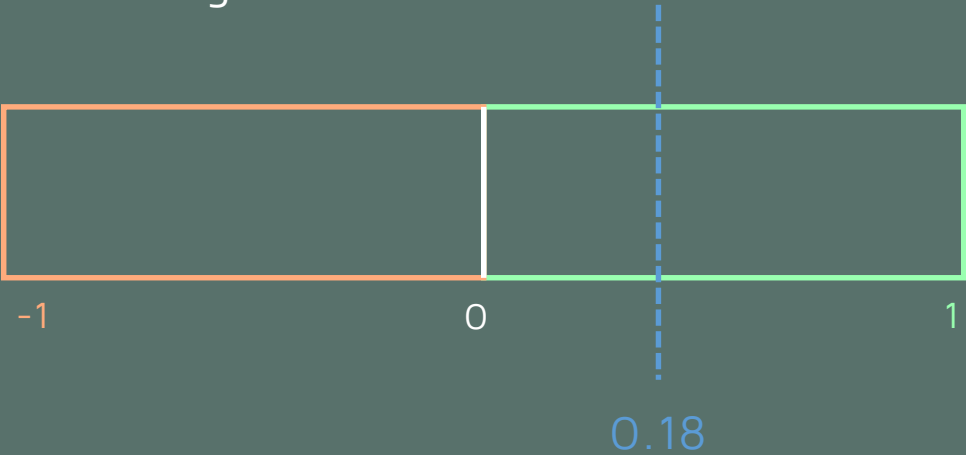


Total 687 teams with manager tenure > 2 years

Top Managers with highest increase in ranking during tenure

Manager	Team	Tenure (Years)	Ranking Increase
Leo Durocher	Chicago Cubs	7	6
Ned Hanlon	Baltimore Orioles	7	6
Gil Hodges	New York Mets	4	5
John McGraw	New York Giants	33	5
Horace Phillips	Pittsburg Alleghenys	3	5

Correlation coefficient between teams' ranking and managers' tenure

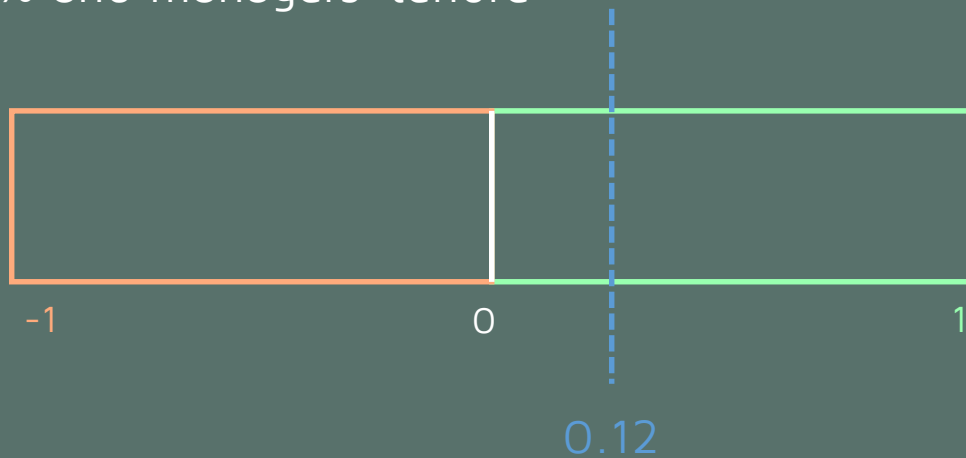


Changes in teams' average winning % during a manager's tenure



Total 687 teams with manager tenure > 2 years

Correlation coefficient between teams' winning % and managers' tenure



Top Managers with highest increase in winning % during tenure

Manager	Team	Tenure (Years)	Ranking Increase
Dick Howser	New York Yankees	2	32%
Ned Hanlon	Baltimore Orioles	7	26%
Chuck Tanner	Chicago White Sox	6	26%
Jack Chapman	Louisville Colonels	3	25%
Eddie Popowski	Boston Red Sox	2	22%

References

- [Udacity.com](#)
- [Seanlahman.com/baseball-archive/statistics/](#)
- [PythonProgramming.net](#)
- [YouTube.com](#)
- [Stackoverflow.com](#)

For more information and code review, please check the accompanying 'Baseball Analytics - Abhishek Chhibber.ipynb' file