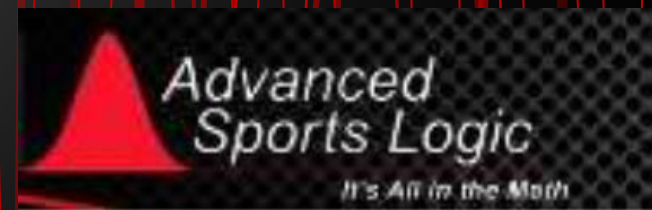


Projection Rating System

Sponsored by Advanced Sports Logic
By John Lucker, Patrick Maynard, and Matthew Poppa
Advised by Jon P. Abraham



The Challenge

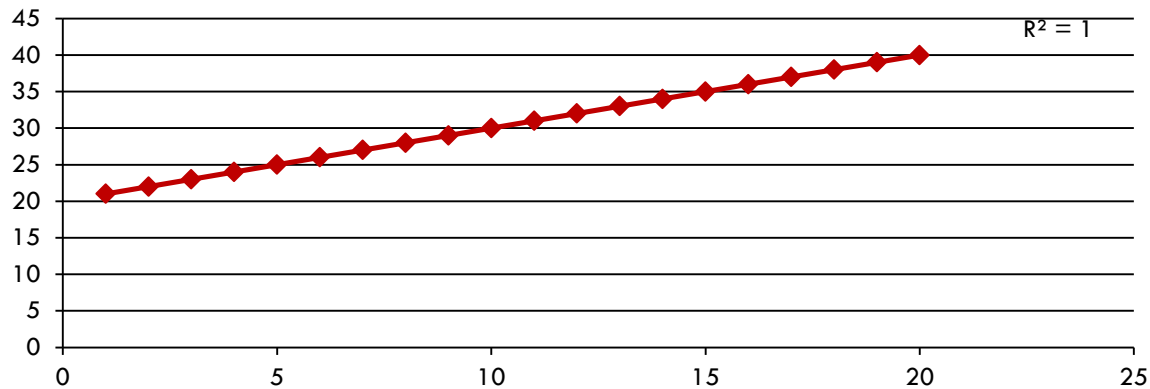
- Identify important statistics for fantasy football
- Develop a method to evaluate projection systems
- Based on rigorous statistical methods
- Compare thousands of projections to the actual data
- End with a score

Correlation

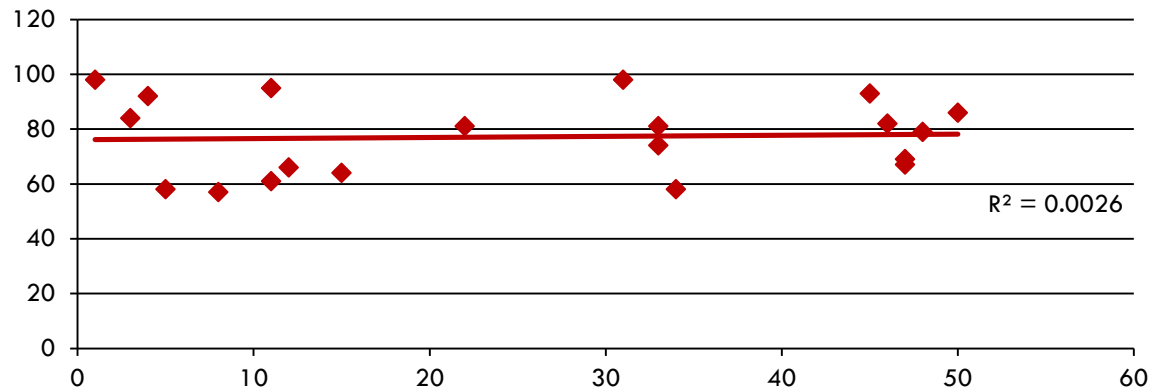
- Measures the linear association of two variables
- Ranges from -1 to 1
- Trend Measurement

Correlation Examples

Perfectly Correlated Data



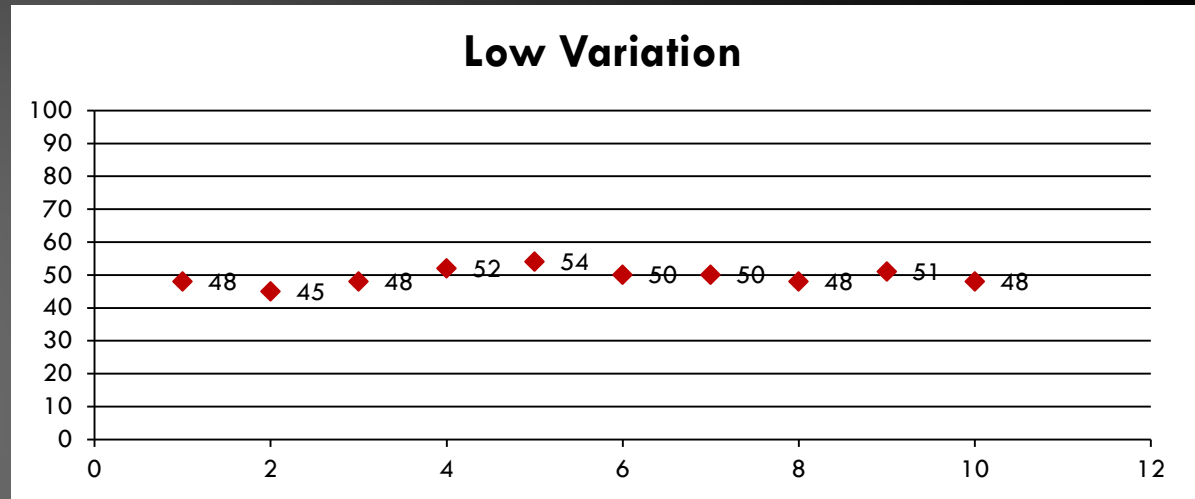
Poorly Correlated Data



Variation Examples

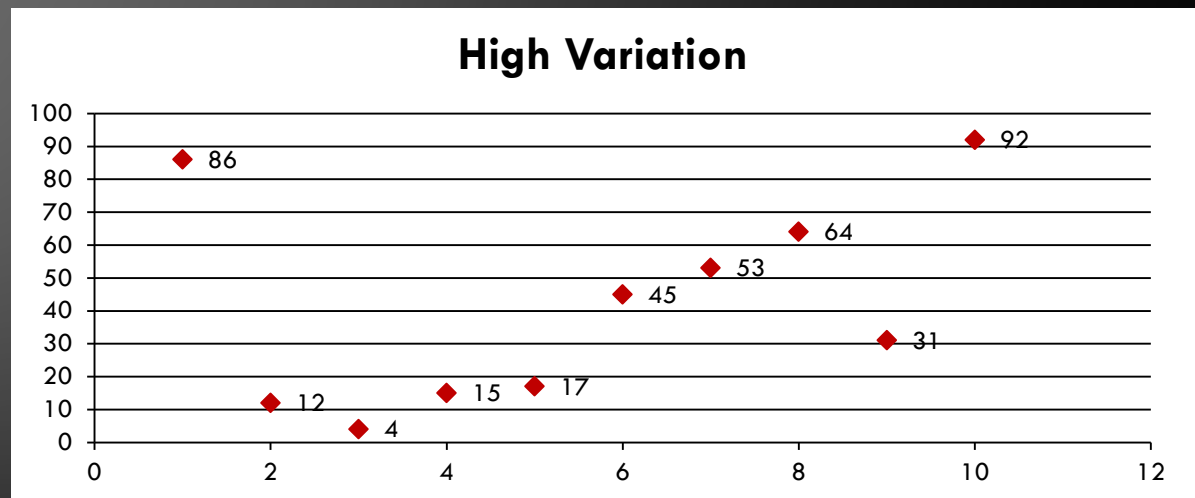
- Low Variation:

- 5.84



- High Variation:

- 886.89

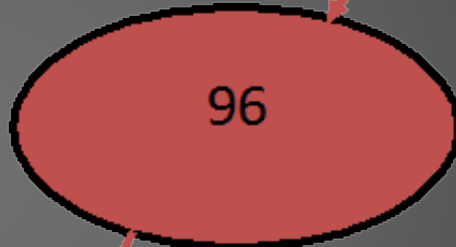


Rating Flow Chart

Beginning Projections



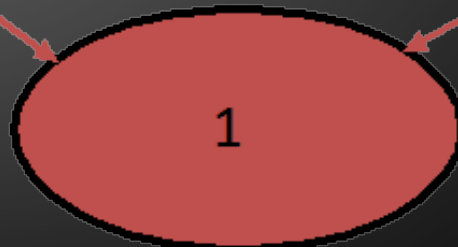
Correlations



Variations



Projection Rating



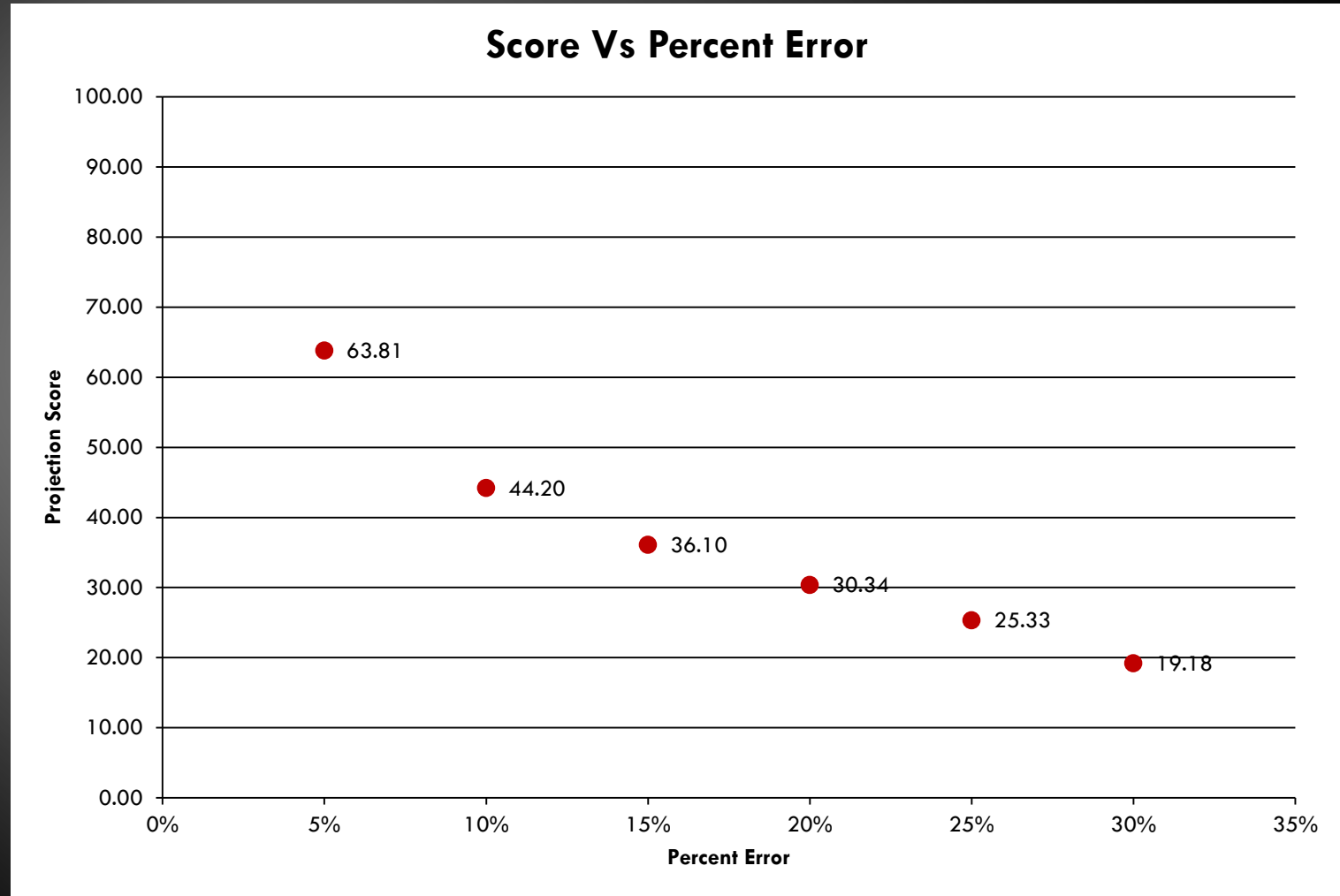
Correlation Components

Averaged Variations

Score Components

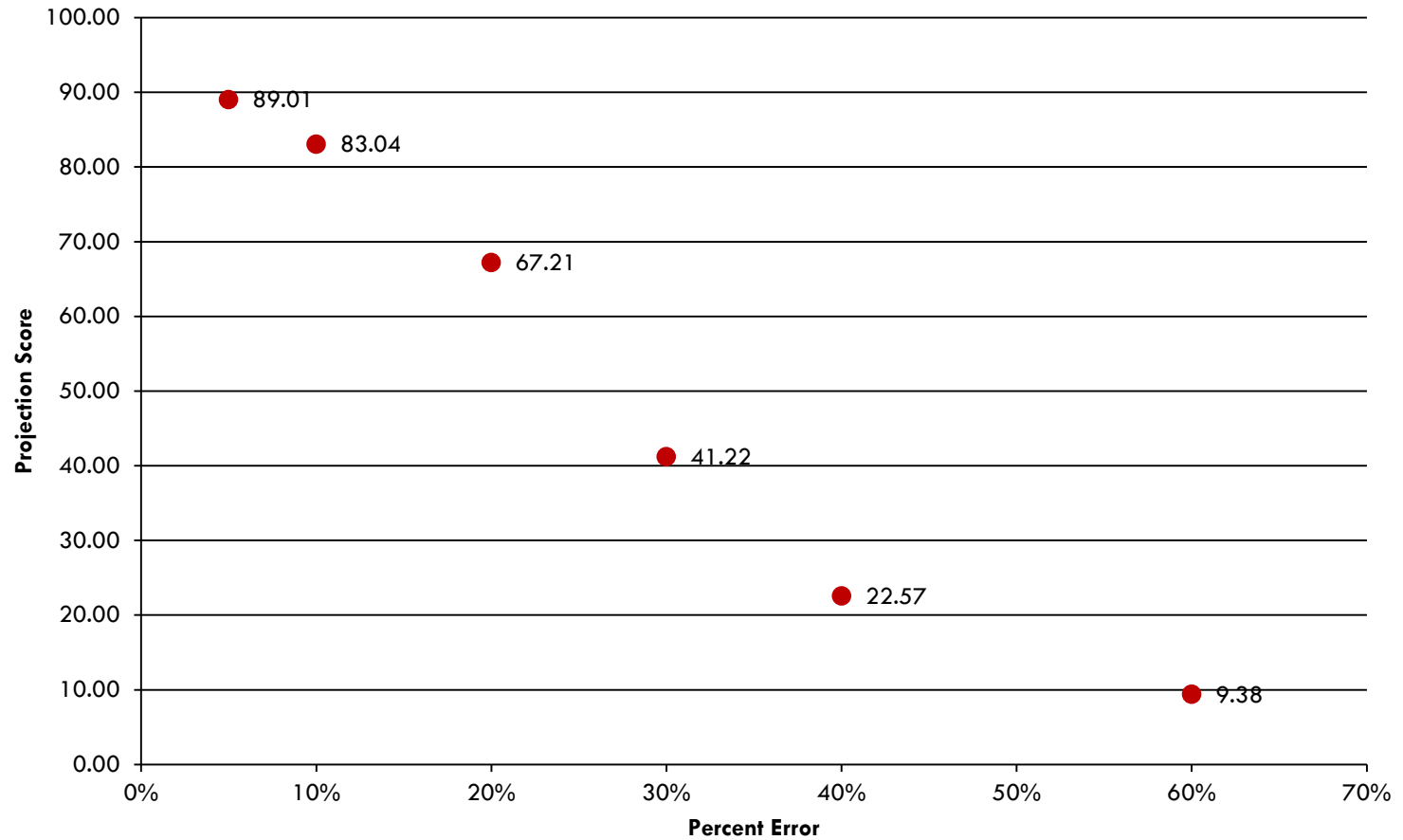
- “Accuracy” Component – Correlation
 - How close the projection is to the actual data.
- “Variation” Component - Scaled Averaged Variance
 - How significantly the projection system would change its projections over time.

Initial Calibration



Progressive Calibration

Score Vs Max Percent Error



Final Weight Scheme

Projection Score	Weighted Average of Scores*50+50 Score	Weight
Post Draft	AVERAGE(B16:R16)	1
Preseason 1	AVERAGE(B17:R17)	1
Preseason 2	AVERAGE(B18:R18)	1
Preseason 3	AVERAGE(B19:R19)	1
Preseason 4	AVERAGE(B20:R20)	1
Variation	AVERAGE(C40:C56)	
Final Accuracy	AVERAGE(B21,C22,D23,E24,F25,G26,H27,I28,J29,K30,L31,M32,N33,O34,P35,Q36)	1
FA and Variation	Variation x Final Accuracy	3

Recommendations

- Use an SQL Database
- Develop a Program to calculate scores
- Explore different weighting
- Use to improve projections

Questions and Comments

- If you have any questions or comments for us please feel free to speak now.
- If future questions arise please feel free to contact us by e-mail at aslmqp13@wpi.edu