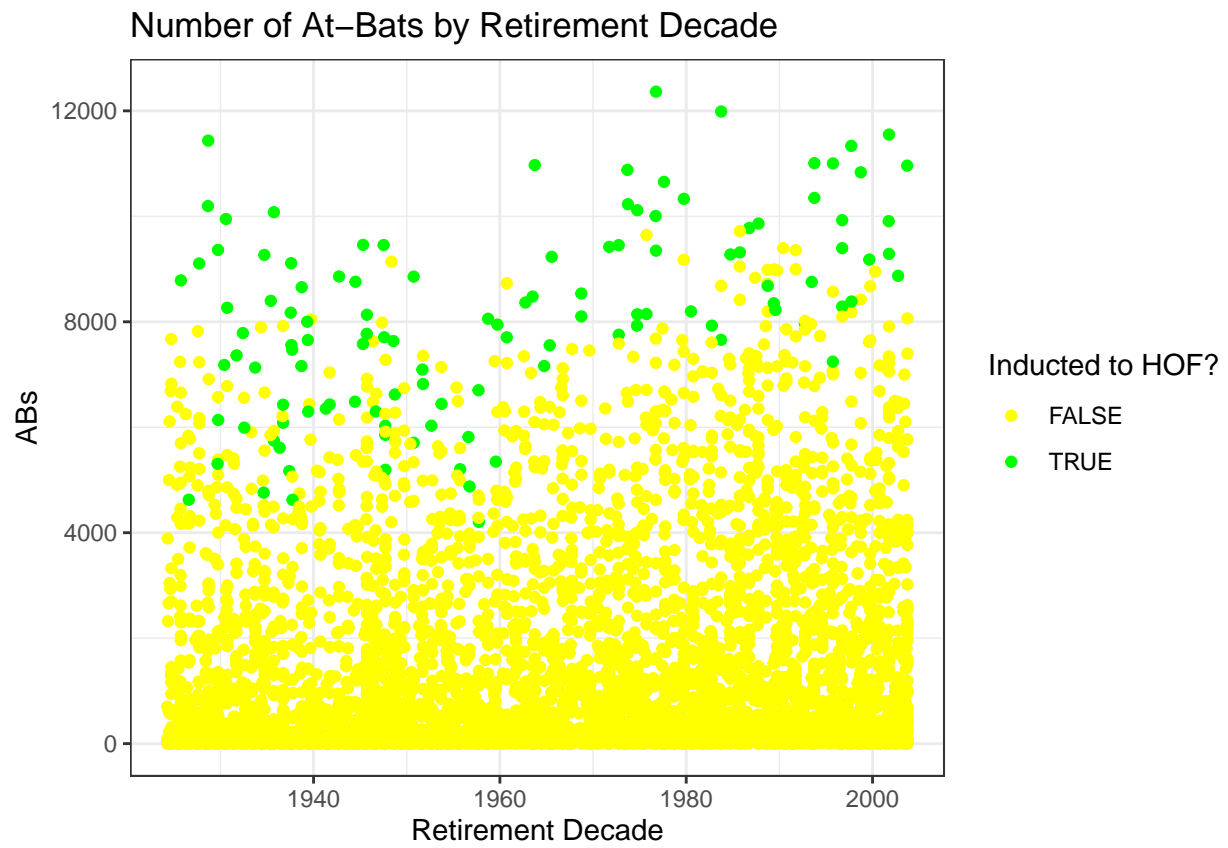


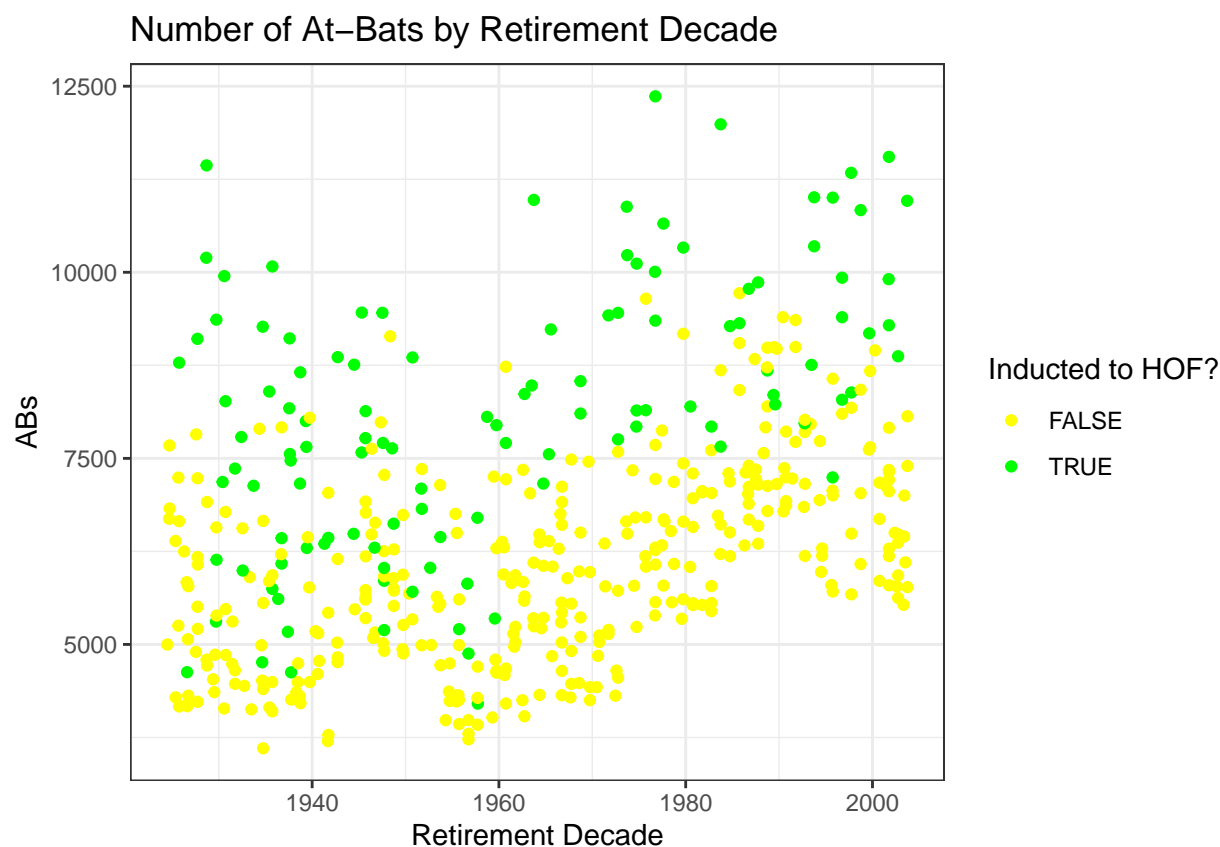
Final-Report

Jackson Bandow

3/23/2021



```
## [1] "Composition of HOF batters in data: 2.2%."
```



```
## [1] "Composition of HOF batters in data: 24.38%."
```

First Player Value Logistic Modeling Results

Regressors	Misclass Rate	AUC
WAR	12.9%	0.912
Standard Statistics	12.9%	0.900
Combined	12.1%	0.927

Second Player Value Logistic Modeling Results Standardized by Retirement Decade

Regressors	Misclass Rate	AUC
WAR	11.5%	0.934
Standard Statistics	11.9%	0.899
Combined	11.7%	0.937

Third Player Value Logistic Modeling Results Standardized by Retirement Decade with Retirement Decade Interactions

Regressors	Misclass Rate	AUC
WAR	11.0%	0.936

Standard Statistics	15.6%	0.890
Combined	12.9%	0.938

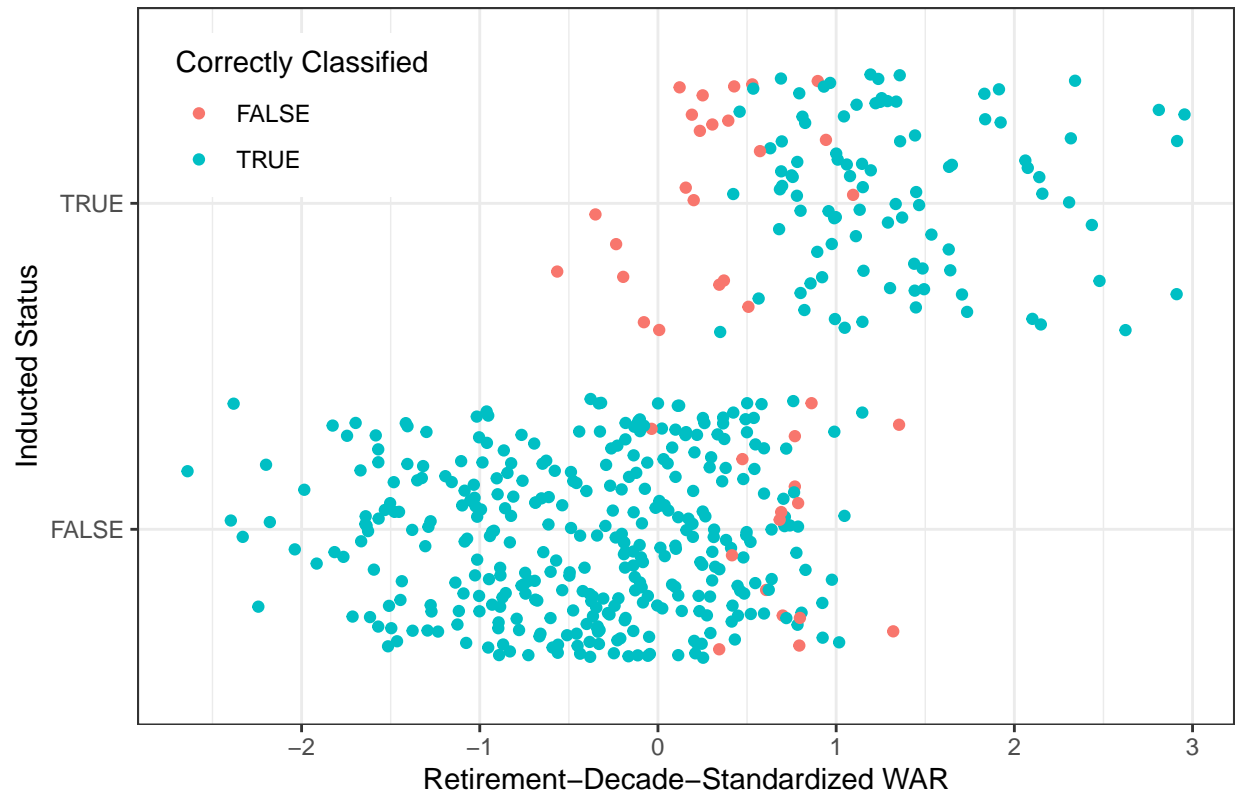
WAR vs. Induction Status by Classification Accuracy

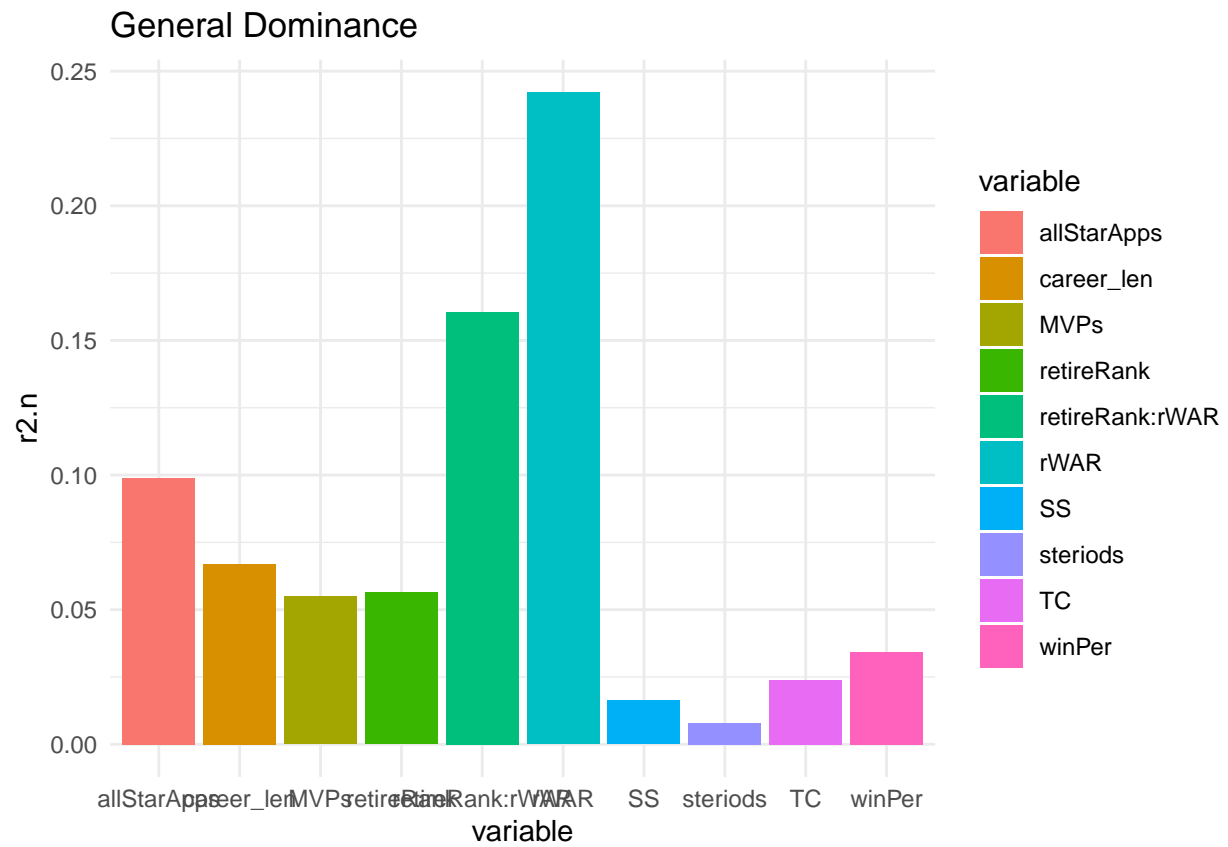


Improved Logistic Modeling Results

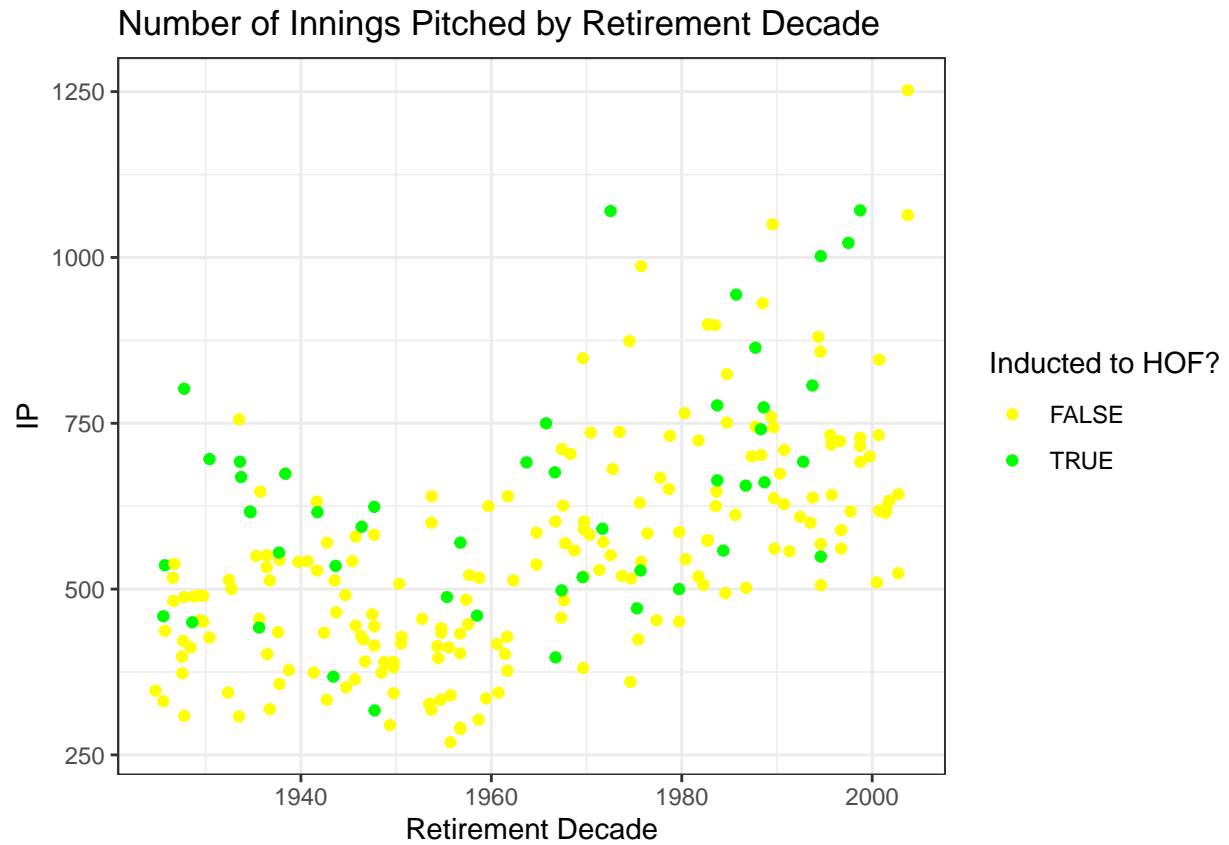
Model	Misclass Rate	AUC
Initial	11.0%	0.936
Modified	8.1%	0.958

WAR vs. Induction Status by Improved Classification Accuracy





```
## [1] "Original composition of HOF pitchers in data: 1%."
```

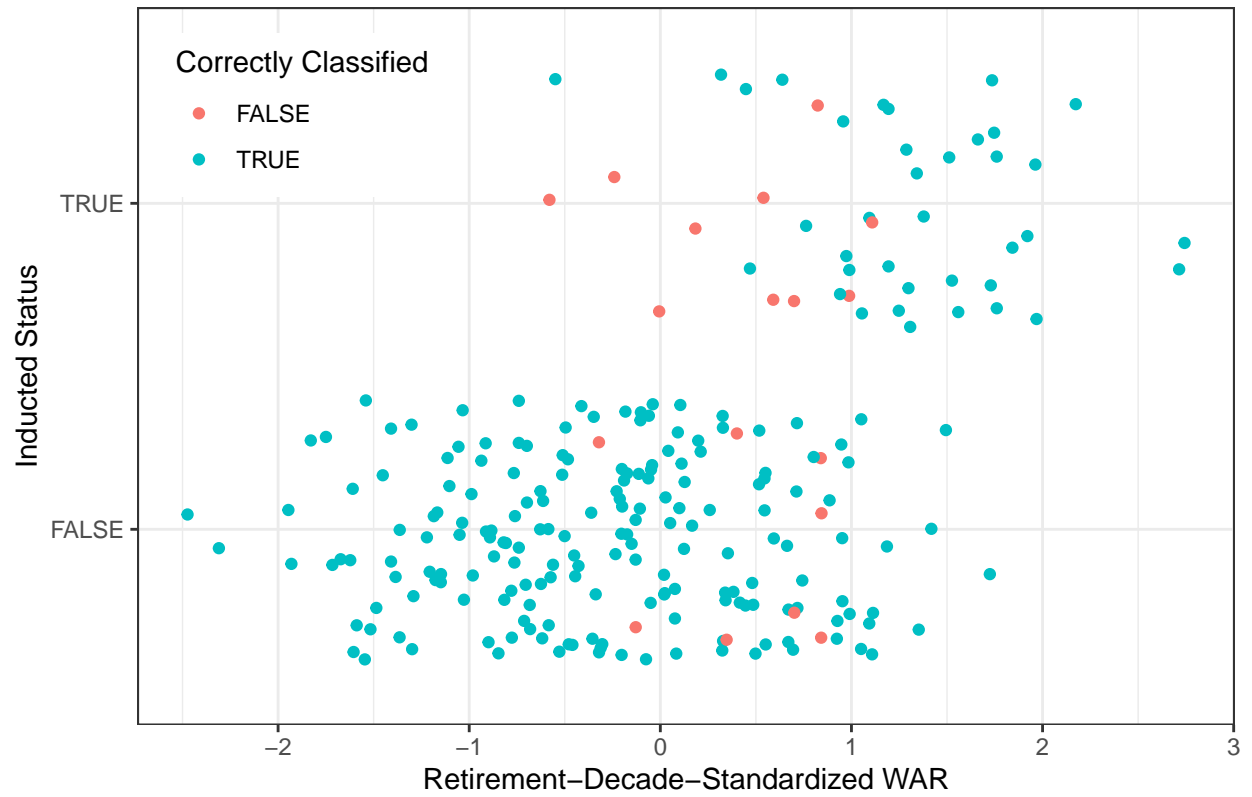


```
## [1] "New composition of HOF pitchers in data: 19.6%."
```

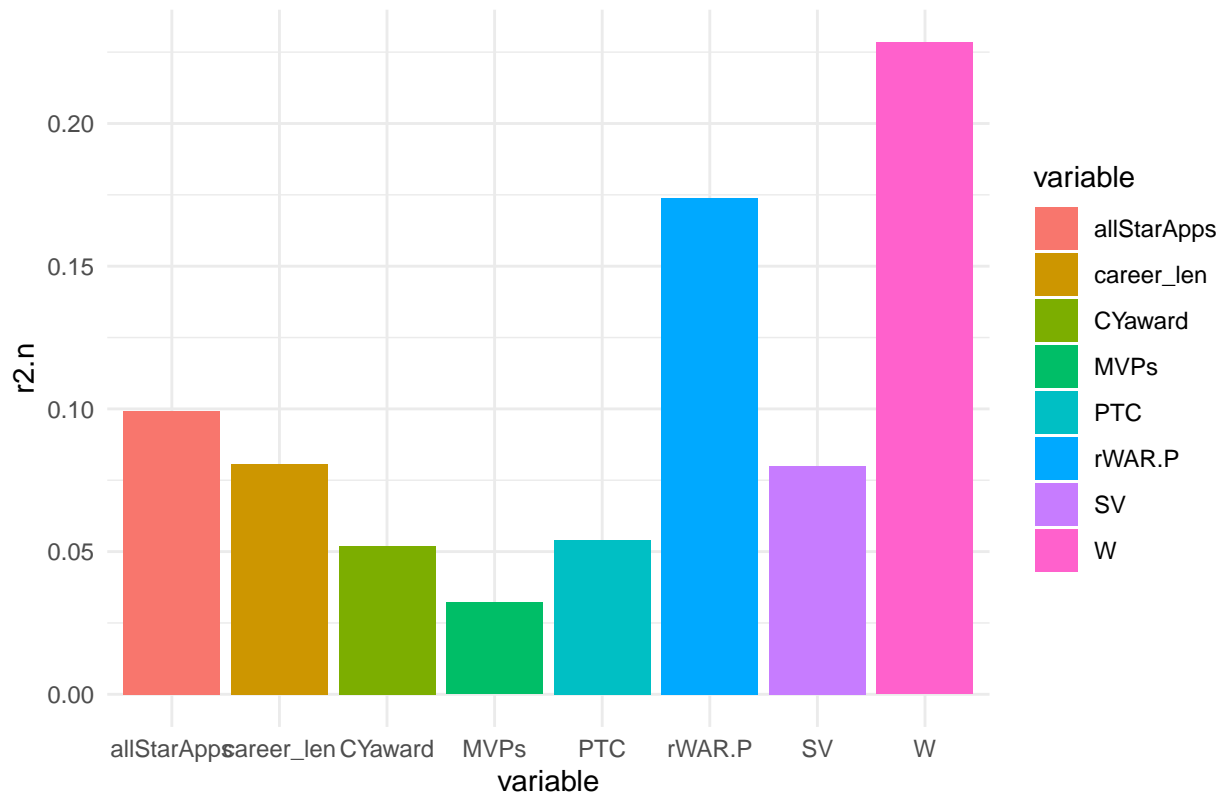
Logistic Modeling Results for Pitchers

Model	Misclass Rate	AUC
Batters	8.1%	0.958
Pitchers	7.5%	0.958

WAR vs. Induction Status by Improved Classification Accuracy



General Dominance



Hall of Fame Batter Predicitons

Player	Probability	Inducted	Eligible	HOF Class
Miguel Cabrera	100.0%			
Albert Pujols	99.4%			
Ken Griffey	99.4%	X	2016	2016
Barry Larkin	99.1%	X	2010	2012
Ivan Rodriguez	98.8%	X	2017	2017
Derek Jeter	97.2%	X	2020	2020
Mike Piazza	96.0%	X	2013	2016
Chipper Jones	79.1%	X	2018	2018
Vladimir Guerrero	79.0%	X	2017	2018
David Ortiz	74.3%		2022	
Roberto Alomar	68.9%	X	2010	2011
Frank Thomas	59.3%	X	2014	2014
Adrian Beltre	58.8%		2024	
Craig Biggio	55.1%	X	2013	2015
Edgar Martinez	46.4%	X	2010	2019
Sammy Sosa	40.8%		2013	
Carlos Beltran	24.4%		2023	
Ichiro Suzuki	23.6%		2025	
Jim Thome	19.6%	X	2018	2018
Jeff Bagwell	19.4%	X	2011	2017
Larry Walker	19.4%	X	2011	2020
Barry Bonds	15.2%		2013	

Hall of Fame Pitcher Predicitons

Player	Probability	Inducted	Eligible	HOF Class
Mariano Rivera	100.0%	X	2019	2019
Greg Maddux	100.0%	X	2014	2014
Randy Johnson	100.0%	X	2015	2015
Trevor Hoffman	100.0%	X	2016	2018
Justin Verlander	99.9%			
Tom Glavine	99.7%	X	2014	2014
John Smoltz	97.0%	X	2015	2015
Roger Clemens	96.3%		2013	
Mike Mussina	96.1%	X	2014	2019
CC Sabathia	89.4%		2025	
Francisco Rodriguez	84.4%		2023	
John Franco	75.1%		2011	
Joe Nathan	59.4%		2022	
Billy Wagner	58.5%		2016	
Jonathan Papelbon	48.2%		2022	
Mark Buehrle	38.7%		2021	
Tim Hudson	38.2%		2021	
Craig Kimbrel	24.4%			
David Wells	15.9%		2013	