

Rockies 2017 - Week #2

Jim Reed (jdreed@q.com)

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Introduction

The opening week of the 2017 season completed on Sunday, April 10. The Rockies are off to a wonderful start. The home team managed to win five (5) of their first seven (7) games.

This purpose in this article is to start to develop a dashboard or report card that can be repeated each week to track some key statistics. Initially, we will present:

- Game-by-Game Results of the past week.
- Colorado Rockies batting statistics in rank order.

The source data for this article can be found at URL <http://baseball-reference.com>.

In the future I would like to add other statistics having to do with pitching and other defense-related measures. I am open to input on this. If there are favorite pitching or fielding measurements you would like to see, let me know.

Rockies Game-by-Game Schedule/Results

Gm#	Day	Date	Tm	H/A	Opp	W/L	R	RA	Rank	Win	Loss	Save	Streak
1	Mon	3-Apr	COL	@	MIL	W	7	5	1	Estevez	Marinez	Holland	+
2	Tue	4-Apr	COL	@	MIL	W	6	5	1	Anderson	Davies	Holland	++
3	Wed	5-Apr	COL	@	MIL	L	1	6	1	Peralta	Chatwood	Feliz	-
4	Thu	6-Apr	COL	@	MIL	W	2	1	1	Dunn	Feliz	Holland	+
5	Fri	7-Apr	COL		LAD	W	2	1	1	Freeland	Ryu	McGee	++
6	Sat	8-Apr	COL		LAD	W	4	2	1	Dunn	Kershaw	Holland	+++
7	Sun	9-Apr	COL		LAD	L	6	10	2	Maeda	Anderson	NA	-

The Rockies current record now is 5 Wins and 2 Losses. So far, the Rockies have scored 28 runs and have had 30 runs scored against them.

After the first week, it wouldn't be prudent to predict the number of wins the Rockies will accumulate this season. There are usually winning and losing streaks during the season, even for the best teams. Suffice to say, the Rockies are performing well.

2017 Colorado Rockies Batting Statistics

Rk	Pos	Name	Age	G	PA	AB	R	H	2B	3B	HR	RBI	BA	OBP	SLG	OPS
1	C	Tony Wolters	25	4	15	13	5	4	0	0	0	0	0.308	0.400	0.308	0.708
2	1B	Mark Reynolds	33	7	28	26	4	9	3	0	3	8	0.346	0.393	0.808	1.201
3	2B	DJ LeMahieu	28	7	27	25	3	4	0	1	0	1	0.160	0.222	0.240	0.462
4	SS	Trevor Story	24	7	28	24	4	4	3	0	0	0	0.167	0.286	0.292	0.577
5	3B	Nolan Arenado	26	7	29	26	6	8	2	0	2	4	0.308	0.379	0.615	0.995
6	LF	Gerardo Parra	30	7	26	25	2	11	1	0	1	6	0.440	0.462	0.600	1.062
7	CF	Charlie Blackmon	30	7	32	28	3	6	0	1	1	5	0.214	0.290	0.393	0.683
8	RF	Carlos Gonzalez	31	6	26	24	0	4	2	0	0	1	0.167	0.192	0.250	0.442
9	C	Dustin Garneau	29	4	11	9	1	3	1	0	1	1	0.333	0.455	0.778	1.232
10	OF	Stephen Cardullo	29	6	10	7	0	0	0	0	0	0	0.000	0.300	0.000	0.300
11	2B	Alexi Amarista	28	3	5	5	0	1	1	0	0	1	0.200	0.200	0.400	0.600
12	NA	Cristhian Adames	25	3	3	3	0	0	0	0	0	0	0.000	0.000	0.000	0.000

Predicting Win/Loss using Bill James' "Pythagorean" Formula

As we develop more and more week's data on this season, we can begin to guess how close the Rockies are to a successful season, whether or not they will make the playoffs. This will be added in future weekly articles.

Topics for Future Articles

Here are a few suggestions, but I would prefer to hear from you, dear reader, on what interests you.

- pitching metrics
- What is the OPS+ statistic and how is it calculated.
- What are the chances of the Rockies winning more than 81 games this season?

Let me know what you would like to see in future articles. Send me email at jdreed@q.com.

Yours truly,

Jim Reed

Appendix

Pythagorean Win-Loss Theorem

The Pythagorean Win-Loss Theorem of Baseball is a creation of Bill James which relates the number of runs a team has scored (R) and surrendered (RA) to its actual winning percentage, based on the idea that runs scored compared to runs allowed is a better indicator of a team's (future) performance than a team's actual winning percentage. Feb 20, 2015

$$\text{predict } W/L = \frac{R^2}{R^2 + RA^2}$$

Glossary

Statistic Abbreviation	Definition
<i>G</i>	number of games (participated)
<i>PA</i>	plate appearances
<i>AB</i>	at bats
<i>R</i>	runs scored by player or team
<i>RA</i>	runs allowed
<i>H</i>	hits
<i>2B</i>	doubles
<i>3B</i>	triples
<i>HR</i>	home runs
<i>RBI</i>	runs batted in
<i>BA</i>	batting average
<i>OBP</i>	on-base percentage
<i>SLG</i>	slugging percentage
<i>OPS</i>	on-base percentage plus slugging percentage
<i>OPS+</i>	This statistic normalizes a player's OPS. It adjusts for small variables that might affect OPS scores (e.g., park effects).