

Rockies 2017 - Week #4

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Figure 1: Kyle Freeland, Rookie pitcher for the Colorado Rockies

Baseball fans love numbers. They love to swirl them around their mouths like Bordeaux wine. –
Pat Conroy

Week #4

This weeks report will a bit more compact, not quite as many graphics. Some of the graphs presented last week were works in progress. The will be re-introduced in the **Featured Graphics** section in future weeks. Instead of including a whole melange of graphs each week, there will be one or more featured to illustrate a narrow topic. The dashboard, on the other hand, will be more or less static in format. This should make it easy to go right to the section of interest and compare results from week to week.

Here are the sections included this week.

- **Featured Graphics**
 - Win/Loss Margins by Game for 2017, 2016 and 2007
- Colorado Rockies Dashboards
 - National and American League Standings
 - Game-by-Game Results of the past week.
 - **Pythagorean Theorem** prediction of the number of wins.
 - Batting Statistics
 - Pitching Statistics
 - Fielding Statistics

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

Let me know what other special interest statistics you might like to see. Remember to refer to the Glossaries in at the end of the document if are unfamiliar with one or more of the statistic abbreviations in the tables.

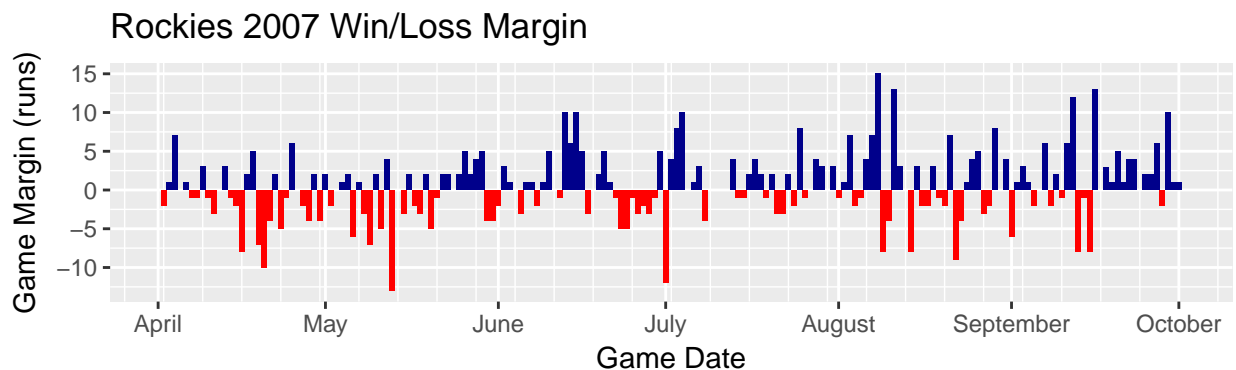
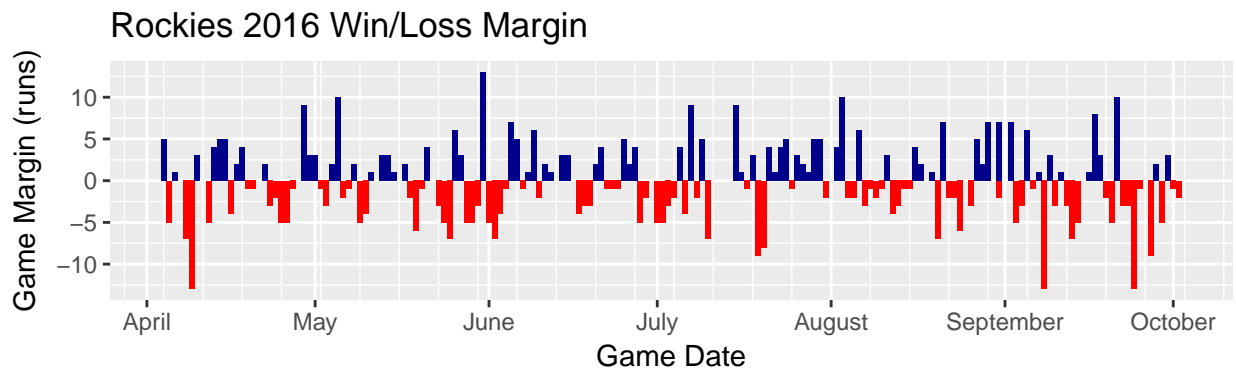
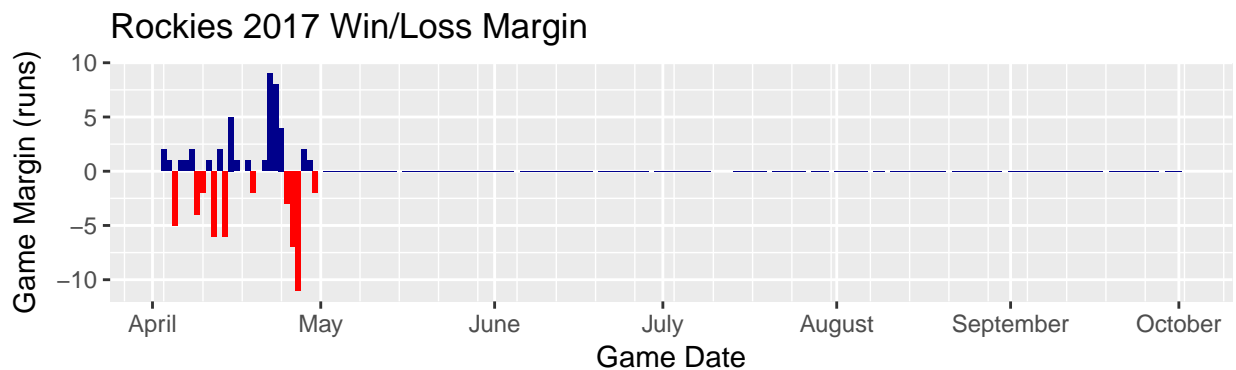
Featured Graphics

Win Loss Margin

One of the many ways to visualize a team's performance is to show wins and losses as the margin of the win (positive) or loss (negative). In the graphs below, we show the current season performance after a month of games. For emphasis, wins are displayed as blue (above the zero) and losses as red (below the zero).

Following the current season's graph, we have included similar graphs for 2016 and the benchmark season of 2007 when the Colorado Rockies won the National League pennant.

These graphs show how the long MLB season can ebb and flow for a team. Winning streaks can be followed by a downward spiral. Losses are inevitable in baseball. Winning a season takes persistence and perseverance. Note how many blow-out losses the Rockies suffered in the opening weeks of 2007. By comparison, the 2017 Rockies have been more consistent, at least thus far.



Rockies Dashboard

National League Standings

Table 1: NL East Standings

Tm	W	L	W-L%	GB
Washington Nationals	17	8	.680	–
Miami Marlins	11	12	.478	5.0
Philadelphia Phillies	11	12	.478	5.0
Atlanta Braves	10	13	.435	6.0
New York Mets	10	14	.417	6.5

Table 2: NL Central Standings

Tm	W	L	W-L%	GB
Chicago Cubs	13	11	.542	–
Milwaukee Brewers	13	13	.500	1.0
St. Louis Cardinals	12	12	.500	1.0
Cincinnati Reds	11	13	.458	2.0
Pittsburgh Pirates	11	13	.458	2.0

Table 3: NL West Standings

Tm	W	L	W-L%	GB
Colorado Rockies	16	10	.615	–
Arizona Diamondbacks	16	11	.593	0.5
Los Angeles Dodgers	14	12	.538	2.0
San Diego Padres	11	16	.407	5.5
San Francisco Giants	9	17	.346	7.0

American League Standings

Table 4: AL East Standings

Tm	W	L	W-L%	GB
Baltimore Orioles	15	8	.652	–
New York Yankees	15	8	.652	–
Boston Red Sox	13	11	.542	2.5
Tampa Bay Rays	12	14	.462	4.5
Toronto Blue Jays	8	17	.320	8.0

Table 5: AL Central Standings

Tm	W	L	W-L%	GB
Cleveland Indians	14	10	.583	–
Chicago White Sox	13	10	.565	0.5
Minnesota Twins	12	11	.522	1.5
Detroit Tigers	12	12	.500	2.0
Kansas City Royals	7	16	.304	6.5

Table 6: AL West Standings

Tm	W	L	W-L%	GB
Houston Astros	16	9	.640	–
Los Angeles Angels of Anaheim	14	13	.519	3.0
Oakland Athletics	11	14	.440	5.0
Texas Rangers	11	14	.440	5.0
Seattle Mariners	11	15	.423	5.5

Rockies Game-by-Game Schedule/Results

Gm#	Day	Date	H/A	Opp	W/L	R	RA	Win	Loss	Save	D/N	Streak
1	Mon	Apr 3	A	MIL	W	7	5	Estevez	Marinez	Holland	D	+
2	Tue	Apr 4	A	MIL	W	6	5	Anderson	Davies	Holland	N	++
3	Wed	Apr 5	A	MIL	L	1	6	Peralta	Chatwood	Feliz	N	-
4	Thu	Apr 6	A	MIL	W	2	1	Dunn	Feliz	Holland	D	+
5	Fri	Apr 7	H	LAD	W	2	1	Freeland	Ryu	McGee	D	++
6	Sat	Apr 8	H	LAD	W	4	2	Dunn	Kershaw	Holland	N	+++
7	Sun	Apr 9	H	LAD	L	6	10	Maeda	Anderson		D	-
8	Mon	Apr 10	H	SDP	L	3	5	Diaz	Chatwood		N	-
9	Tue	Apr 11	H	SDP	W	3	2	Senzatela	Diaz	Holland	N	+
10	Wed	Apr 12	H	SDP	L	0	6	Lee	Freeland		D	-
11	Thu	Apr 13	A	SFG	W	3	1	Rusin	Bumgarner	Holland	N	+
12	Fri	Apr 14	A	SFG	L	2	8	Cueto	Anderson		N	-
13	Sat	Apr 15	A	SFG	W	5	0	Chatwood	Moore		D	+
14	Sun	Apr 16	A	SFG	W	4	3	Senzatela	Samardzija	Holland	D	++
15	Tue	Apr 18	A	LAD	W	4	3	Rusin	Ryu	Holland	N	+++
16	Wed	Apr 19	A	LAD	L	2	4	Kershaw	Anderson	Jansen	N	-
17	Fri	Apr 21	H	SFG	W	6	5	Chatwood	Cueto	Holland	N	+
18	Sat	Apr 22	H	SFG	W	12	3	Senzatela	Moore		N	++
19	Sun	Apr 23	H	SFG	W	8	0	Freeland	Samardzija		D	+++
20	Mon	Apr 24	H	WSN	W	8	4	Estevez	Romero		N	++++
21	Tue	Apr 25	H	WSN	L	12	15	Romero	Marquez		N	-
22	Wed	Apr 26	H	WSN	L	4	11	Roark	Chatwood		N	-
23	Thu	Apr 27	H	WSN	L	5	16	Gonzalez	Senzatela		D	—
24	Fri	Apr 28	A	ARI	W	3	1	Freeland	Ray	Holland	N	+
25	Sat	Apr 29	A	ARI	W	7	6	Estevez	Rodney	Holland	N	++
26	Sun	Apr 30	A	ARI	L-wo	0	2	Delgado	Lyles		D	-

The Rockies current record is 16 Wins and 10 Losses. So far, the Rockies have scored 119 runs and have had 125 runs scored against them.

Pythagorean Win-Loss Theorem

$$predictedW\% = \frac{R^k}{R^k + RA^k}$$

Using the commonly used values of k, the Rockies predicted wins for the 2017 are shown in the table below. Remember this statistic will vary widely over the course of the season.

Table 8: Predicted Wins for Entire 2017 Season

Wins (k=1.81)	Wins (k=1.83)	Wins (k=2.00)
77	77	77

2017 Colorado Rockies Batting Statistics (non-pitchers)

Table 9: Rockies Batting Statistics (1 of 2).

Rk	Pos	Name	Age	G	AB	R	H	2B	3B	HR	RBI	SB	CS	BB
1	C	Wolters*	25	16	50	12	18	3	1	0	3	0	0	3
2	1B	Reynolds	33	26	94	15	28	5	0	8	23	0	1	10
3	2B	LeMahieu	28	26	95	11	25	5	1	1	6	1	0	13
4	SS	Story	24	26	90	15	16	4	0	6	13	1	0	13
5	3B	Arenado	26	26	99	16	29	9	1	7	16	1	0	8
6	LF	Parra*	30	22	74	10	21	2	0	3	12	0	1	3
7	CF	Blackmon*	30	26	107	15	31	5	3	7	24	1	2	8
8	RF	Gonzalez*	31	24	88	11	19	5	0	2	6	0	0	9
9	C	Garneau	29	15	46	3	9	5	0	1	4	0	0	2
10	OF	Cardullo	29	15	28	2	4	0	0	0	3	0	0	3
11	UT	Amarista*	28	12	18	4	6	2	0	1	5	0	0	0
12	UT	Valaika	24	8	14	4	5	3	0	0	1	0	0	1
13	IF	Adames#	25	12	13	1	0	0	0	0	0	0	0	1
14	LF	Tapia*	23	2	7	0	0	0	0	0	0	0	0	0
15	LF	Desmond	31	1	5	0	1	0	0	0	0	0	0	0

Table 10: Rockies Batting Statistics (2 of 2).

Rk	Pos	Name	Age	SO	BA	OBP	SLG	OPS	OPS+	TB	GDP	HBP	SH	SF	IBB
1	C	Wolters*	25	11	.360	.407	.460	.867	115	23	2	1	0	0	1
2	1B	Reynolds	33	23	.298	.362	.606	.968	133	57	4	0	0	1	0
3	2B	LeMahieu	28	14	.263	.358	.368	.726	81	35	3	1	0	0	0
4	SS	Story	24	39	.178	.282	.422	.704	71	38	1	0	0	0	0
5	3B	Arenado	26	15	.293	.355	.616	.971	133	61	3	2	0	1	0
6	LF	Parra*	30	16	.284	.321	.432	.753	84	32	1	1	0	0	0
7	CF	Blackmon*	30	21	.290	.336	.589	.925	122	63	0	0	2	1	0
8	RF	Gonzalez*	31	19	.216	.283	.341	.624	54	30	1	0	0	2	1
9	C	Garneau	29	19	.196	.245	.370	.614	49	17	1	1	1	0	0
10	OF	Cardullo	29	7	.143	.250	.143	.393	2	4	0	1	0	0	0
11	UT	Amarista*	28	6	.333	.333	.611	.944	126	11	0	0	0	0	0
12	UT	Valaika	24	2	.357	.400	.571	.971	137	8	0	0	0	0	0
13	IF	Adames#	25	6	.000	.071	.000	.071	-80	0	0	0	0	0	0
14	LF	Tapia*	23	1	.000	.000	.000	.000	-100	0	0	0	0	0	0
15	LF	Desmond	31	2	.200	.200	.200	.400	0	1	0	0	0	0	0

- * - bats left-handed, # - bats both, else - bats right, ? - unknown; OPS_{lg} for OPS+ does not include pitchers.

Rockies Pitching

Table 11: Rockies pitching statistics (1 of 2).

Rk	Pos	Name	Age	W	L	W-L%	ERA	G	GS	GF	CG	SHO	SV	IP	H	R
1	SP	Senzatela	22	3	1	.750	2.81	5	5	0	0	0	0	32.0	25	10
2	SP	Chatwood	27	2	3	.400	4.88	5	5	0	1	1	0	31.1	31	17
3	SP	Anderson*	27	1	3	.250	7.71	6	6	0	0	0	0	30.1	37	28
4	SP	Freeland*	24	3	1	.750	2.93	5	5	0	0	0	0	27.2	28	9
5	SP	Gray	25	0	0		4.38	3	3	0	0	0	0	12.1	11	6
6	SP	Marquez	22	0	1	.000	7.20	2	2	0	0	0	0	10.0	15	8
7	CL	Holland	31	0	0		1.50	12	0	12	0	0	11	12.0	7	2
8	RP	Ottavino	31	0	0		1.42	12	0	0	0	0	0	12.2	8	2
9	RP	Oberg	27	0	0		4.50	12	0	3	0	0	0	12.0	9	8
10	RP	Estevez	24	3	0	1.000	8.71	12	0	2	0	0	0	10.1	12	10
11	RP	McGee*	30	0	0		3.12	10	0	2	0	0	1	8.2	4	3
12		Rusin*	30	2	0	1.000	3.75	7	0	2	0	0	0	12.0	12	6
13		Lyles	26	0	1	.000	10.03	8	0	3	0	0	0	11.2	19	13
14		Dunn*	32	2	0	1.000	1.17	10	0	0	0	0	0	7.2	5	1
15		Qualls	38	0	0		3.86	2	0	0	0	0	0	2.1	2	2
16		Carle	25	0	0		0.00	1	0	1	0	0	0	1.0	0	0

Table 12: Rockies pitching statistics (2 of 2).

Rk	Pos	Name	ER	HR	BB	IBB	SO	HBP	BK	WP	BF	ERA+	FIP	WHIP
1	SP	Senzatela	10	3	7	0	18	3	0	0	126	180	4.05	1.000
2	SP	Chatwood	17	7	11	0	22	0	2	1	128	103	5.58	1.340
3	SP	Anderson*	26	9	11	0	24	1	2	1	137	66	6.48	1.582
4	SP	Freeland*	9	1	12	1	16	2	0	0	121	173	3.85	1.446
5	SP	Gray	6	1	7	0	9	0	0	1	53	117	4.32	1.459
6	SP	Marquez	8	0	4	1	10	0	0	0	49	72	2.22	1.900
7	CL	Holland	2	0	5	0	13	0	0	2	46	342	2.11	1.000
8	RP	Ottavino	2	1	5	0	15	0	0	1	50	361	2.86	1.026
9	RP	Oberg	6	1	6	0	10	1	0	0	50	114	4.19	1.250
10	RP	Estevez	10	0	3	1	8	0	1	1	46	59	2.34	1.452
11	RP	McGee*	3	0	4	0	11	0	0	0	34	166	1.87	0.923
12		Rusin*	5	1	2	0	12	0	0	0	50	137	2.61	1.167
13		Lyles	13	4	4	0	13	2	0	1	58	51	6.79	1.971
14		Dunn*	1	0	2	0	10	0	0	0	29	443	1.20	0.913
15		Qualls	1	0	1	0	1	0	0	0	11	147	3.45	1.286
16		Carle	0	0	0	0	1	0	0	1	4		1.02	0.000

Team Fielding – Totals

Table 13: Rockies fielding statistics (1 of 2).

Name	Age	G	GS	CG	Inn	Ch	PO	A	E	DP	FldPct	Rtot	RtotperYr	Rdrs
Adames	25	2	1	0	9.0	4	3	1	0	0	1.000	-1	-87	-1
Amarista	28	5	2	0	19.0	1	1	0	0	0	1.000	-2	-99	-3
Anderson	27	6	6	0	30.1	6	0	5	1	1	0.833	0	0	-1
Arenado	26	26	26	25	232.0	53	7	46	0	7	1.000	4	18	2
Blackmon	30	26	26	26	234.0	56	54	1	1	1	0.982	1	6	-2
Cardullo	29	8	6	3	55.1	13	13	0	0	0	1.000	2	42	1
Carle	25	1	0	0	1.0	0	0	0	0	0	0.000	0	0	0
Chatwood	27	5	5	1	31.1	10	1	9	0	0	1.000	0	0	3
Desmond	31	1	1	1	12.0	2	2	0	0	0	1.000	0	0	0
Dunn	32	10	0	0	7.2	0	0	0	0	0	0.000	0	0	0
Estevez	24	12	0	0	10.1	1	0	1	0	0	1.000	0	0	0
Freeland	24	5	5	0	27.2	8	1	7	0	0	1.000	0	0	0
Garneau	29	15	12	12	115.0	94	88	6	0	0	1.000	0	1	-1
Gonzalez	31	24	24	22	209.0	50	46	1	3	1	0.940	-6	-35	0
Gray	25	3	3	0	12.1	3	1	2	0	0	1.000	0	0	0
Holland	31	12	0	0	12.0	1	1	0	0	0	1.000	0	0	-1
LeMahieu	28	25	24	23	217.0	131	33	97	1	19	0.992	6	31	4
Lyles	26	8	0	0	11.2	0	0	0	0	0	0.000	0	0	0
Marquez	22	2	2	0	10.0	0	0	0	0	0	0.000	0	0	-1
McGee	30	10	0	0	8.2	0	0	0	0	0	0.000	0	0	0
Oberg	27	12	0	0	12.0	1	0	1	0	0	1.000	0	0	0
Ottavino	31	12	0	0	12.2	5	1	3	1	0	0.800	0	0	-1
Parra	30	20	18	16	164.0	45	43	1	1	3	0.978	-2	-14	3
Qualls	38	2	0	0	2.1	0	0	0	0	0	0.000	0	0	0
Reynolds	33	25	25	23	223.0	259	247	10	2	25	0.992	0	0	-2
Rusin	30	7	0	0	12.0	2	0	2	0	1	1.000	0	0	1
Senzatela	22	5	5	0	32.0	3	1	2	0	0	1.000	0	0	-1
Story	24	26	25	24	224.2	132	44	86	2	22	0.985	1	4	1
Tapia	23	2	2	2	17.0	4	4	0	0	0	1.000	0	-23	0
Valaika	24	4	2	1	20.0	9	5	4	0	1	1.000	0	-1	0
Wolters	25	15	14	11	121.0	114	106	7	1	3	0.991	-1	-6	-3

Team Fielding – Totals (continued)

Table 14: Rockies fielding statistics (2 of 2).

Name	Age	G	RdrsPerYr	RFPPer9	RFPPerG	PB	WP	SB	CS	CS%	lgCSct	Pos.Summary
Adames	25	2	-120	4.00	1.33	0	0	0	0	0	0	SS-2B-1B
Amarista	28	5	-196	0.47	0.20	0	0	0	0	0	0	LF-2B-RF
Anderson	27	6	-7	1.48	0.83	0	0	2	0	0	0.26	P
Arenado	26	26	11	2.06	2.04	0	0	0	0	0	0	3B
Blackmon	30	26	-11	2.12	2.12	0	0	0	0	0	0	CF
Cardullo	29	8	22	2.11	1.63	0	0	0	0	0	0	LF-RF
Carle	25	1	0	0.00	0.00	0	0	0	0	0	0	P
Chatwood	27	5	19	2.87	2.00	0	0	0	2	100%	26%	P
Desmond	31	1	0	1.50	2.00	0	0	0	0	0	0	LF
Dunn	32	10	0	0.00	0.00	0	0	0	1	1	0.26	P
Estevez	24	12	0	0.87	0.08	0	0	0	0	0	0	P
Freeland	24	5	0	2.60	1.60	0	0	2	0	0%	26%	P
Garneau	29	15	-8	7.36	6.27	1	2	5	1	0.17	0.26	C
Gonzalez	31	24	0	2.02	1.96	0	0	0	0	0	0	RF
Gray	25	3	0	2.19	1.00	0	0	0	0	0	0	P
Holland	31	12	-17	0.75	0.08	0	0	0	0	0	0	P
LeMahieu	28	25	23	5.39	5.20	0	0	0	0	0	0	2B
Lyles	26	8	0	0.00	0.00	0	0	1	0	0	0.26	P
Marquez	22	2	-20	0.00	0.00	0	0	0	0	0	0	P
McGee	30	10	0	0.00	0.00	0	0	0	0	0	0	P
Oberg	27	12	0	0.75	0.08	0	0	0	0	0	0	P
Ottavino	31	12	-16	2.84	0.33	0	0	4	1	0.2	0.26	P
Parra	30	20	20	2.41	2.00	0	0	0	0	0	0	LF-1B-RF
Qualls	38	2	0	0.00	0.00	0	0	0	0	0	0	P
Reynolds	33	25	-11	10.37	10.28	0	0	0	0	0	0	1B
Rusin	30	7	17	1.50	0.29	0	0	0	0	0	0	P
Senzatela	22	5	-6	0.84	0.60	0	0	2	0	0%	26%	P
Story	24	26	5	5.21	5.00	0	0	0	0	0	0	SS
Tapia	23	2	0	2.12	2.00	0	0	0	0	0	0	LF
Valaika	24	4	6	4.05	1.80	0	0	0	0	0	0	2B-LF-SS-3B
Wolters	25	15	-28	8.40	7.06	2	7	6	3	0.33	0.26	C-2B-3B

Topics for Future Articles

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

- Player Value - I am personally just getting familiar with this concept. Work In Progress (WIP)
- What is the OPS+ statistic and how is it calculated.

Here are a couple of suggestions my children came up with:

- Survey MLB team payroll budgets. This is a work-in-progress. The attendance and the salary data are accounted for. Need to get the average ticket prices and produce some interesting derived values.
- Survey MLB ticket prices. This goes with the previous topic. Ibid.

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

Yours truly,

Jim Reed

Appendix

Glossary

Batting Statistics

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).

Pitching Statistics

Pitching Statistic	Definition
<i>Rk</i>	Rank This is a count of the rows from top to bottom. It is recalculated following the sorting of a column.
<i>Pos</i>	Position
<i>Name</i>	Player Name
<i>Age</i>	Player's age at midnight of June 30th of that year
<i>W</i>	Wins
<i>L</i>	Losses
<i>W-L%</i>	Win-Loss Percentage $W / (W + L)$ For players, leaders need one decision for every ten team games. For managers, minimum to qualify for leading is 320 games.
<i>ERA</i>	$9 * ER / IP$
<i>G</i>	Games Played or Pitched
<i>GS</i>	Games Started
<i>GF</i>	Games Finished
<i>CG</i>	Complete Game
<i>SHO</i>	Shutouts No runs allowed and a complete game.
<i>SV</i>	Saves
<i>IP</i>	Innings Pitched
<i>H</i>	Hits/Hits Allowed
<i>R</i>	Runs Scored/Allowed
<i>ER</i>	Earned Runs Allowed
<i>HR</i>	Home Runs Hit/Allowed
<i>BB</i>	Bases on Balls/Walks
<i>IBB</i>	Intentional Bases on Balls First tracked in 1955.
<i>SO</i>	Strikeouts
<i>HBP</i>	Times Hit by a Pitch.
<i>BK</i>	Balks
<i>WP</i>	Wild Pitches
<i>BF</i>	Batters Faced
<i>ERA+</i>	$ERA+ 100*[lgERA/ERA]$ Adjusted to the player's ballpark(s).
<i>FIP</i>	Fielding Independent Pitching
<i>WHIP</i>	$(BB + H)/IP$ For recent years, leaders need 1 IP per team game played
<i>H9</i>	$9 \times H / IP$ For recent years, leaders need 1 IP per team game played
<i>HR9</i>	$9 \times HR / IP$ For recent years, leaders need 1 IP per team game played
<i>BB9</i>	$9 \times BB / IP$ For recent years, leaders need 1 IP per team game played
<i>SO9</i>	$9 \times SO / IP$ For recent years, leaders need 1 IP per team game played
<i>SO/W</i>	SO/W or SO/BB For recent years, pitching leaders need 1 IP per team game played.

Fielding Statistics

Fielding Statistic	Definition
<i>Name</i>	Player Name Bold can mean player is active for this team or player has appeared in MLB * means LHP or LHB, \# means switch hitter, + can mean HOFer.
<i>Age</i>	Player's age at midnight of June 30th of that year
<i>G</i>	Games Played or Pitched
<i>GS</i>	– Games Started
<i>CG</i>	– Complete Game
<i>Inn</i>	– Innings Played in Field
<i>Ch</i>	– Defensive Chances Putouts + Assists + Errors
<i>PO</i>	– Putouts
<i>A</i>	– Assists
<i>E</i>	– Errors Committed
<i>DP</i>	– Double Plays Turned
<i>Fld%</i>	– Fielding Percentage (Putouts + Assists) / (Putouts + Assists + Errors)
<i>Rtot</i>	– Total Zone Total Fielding Runs Above Avg The number of runs above or below average the player was worth based on the number of plays made. This number combines the Rtz, Rdp, Rof, Rcatch numbers into a total defensive contribution. See the glossary section for a more complete explanation. Provided by BaseballProjection.com
<i>Rtot/yr</i>	– Total Zone Total Fielding Runs Above Avg per 1,200 Inn The number of runs above or below average the fielder was worth per 1,200 Innings (approx 135 games). This number combines the Rtz, Rdp, Rof, Rcatch numbers into a total defensive contribution. See the glossary section for a more complete explanation. Provided by BaseballProjection.com
<i>Rdrs</i>	– BIS Defensive Runs Saved Above Avg The number of runs above or below average the player was worth based on the number of plays made. This number combines the Rpm, Rbdp, Rbof, Rbcatch numbers into a total defensive contribution. Provided by Baseball Info Solutions
<i>Rdrs/yr</i>	– BIS Defensive Runs Saved Above Avg per 1,200 Inn The number of runs above or below average the fielder was worth per 1,200 Innings (approx 135 games). This number combines the Rpm, Rbdp, Rbof, Rbcatch numbers into a total defensive contribution. For pitchers, this is set to 200 Innings. Provided by Baseball Info Solutions
<i>RF/9</i>	– Range Factor per 9 Inn $9 * (\text{Putouts} + \text{Assists}) / \text{Innings Played}$
<i>RF/G</i>	– Range Factor per Game $(\text{Putouts} + \text{Assists}) / \text{Games Played}$
<i>PB</i>	– Passed Balls
<i>WP</i>	– Wild Pitches
<i>SB</i>	– Stolen Bases
<i>CS</i>	– Caught Stealing

Fielding Statistic	Definition
<i>CS%</i>	– Caught Stealing Percentage $CS / (SB + CS)$
<i>lgCS%</i>	– League Caught Stealing Percentage League Expected $CS / \text{Players } SB + \text{Players } CS$
<i>PO</i>	– Pickoffs Runner picked off a base. May include cases they were safe on an error. Also includes Pickoff Caught Stealing plays.
<i>Pos</i>	Summary – Positions Played The positions either followed by the games played at that position or in order of games or innings played. For a single season, * indicates they played at least 2/3rds of the team games there Positions after / indicate less than ten games played at those positions. For career, a + sign means more than 300 games at that position and a - sign means less than 30 games.

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