

Rockies 2017 - Week #21

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Figure 1: Tony Wolters and Jake McGee celebrate after the Rockies defeated the Braves, 3-0. (John Amis/AP)

You can observe a lot by watching. – Yogi Berra (1925-2015)

Table 1: NL West Standings

Tm	W	L	W-L%	GB
Los Angeles Dodgers	91	38	.705	–
Arizona Diamondbacks	73	58	.557	19.0
Colorado Rockies	71	59	.546	20.5
San Diego Padres	57	73	.438	34.5
San Francisco Giants	52	80	.394	40.5

Table 2: Current Rockies Results as of 2017-08-28

Wins	Losses	Win.Pct	Runs	Runs.Ag	Predicted Season Wins
71	59	54.615	669	620	87



Week #21

We are right around the corner from Fall weather and the World Series. The Rockies almost certainly will qualify for the playoffs as a wildcard entry in the NL ladder.

The featured article concerns the playoff odds for all six of the MLB divisions. Each team's odds of making it to each successive round and ultimately to the World Series are presented. Many teams are statistically out of the running for even a wildcard berth, hence their odds of any post-season appearance is zero.

As the rest of the season progresses, these tables will change. It may be an idea to keep an eye on the odds. As many in the know tell coeds entering Colorado School of Mines, "The odds are good, but the goods are odd."

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 - **Pythagorean Theorem** prediction of the number of wins.
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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 at the end of the document if unfamiliar with one or more of the statistic abbreviations in the tables.

Playoff Odds as Presented by FanGraphs

American League Projected Standings / Odds

Abbreviations used in the following tables:

- W - Wins
- L - Losses
- W% - Win Percentage
- GB - Games Back
- EXPW - Expected Wins
- EXPL - Expected Losses
- rosW% - Rest of season wining percentage
- DIV - Percent chance of winning division
- WC - Percent chance of winning a wildcard spot
- POFF - Percent chance winning the division or wildcard spot
- DOFF - Percent chance of making the division series
- NL/AL DS - Percent chance of winning the divisional and making it to the championship series
- NL/AL CS - Percent chance of winning the championship series and making it to the world series
- WS - Percent chance of winning the World Series

Table 3: AL East

Team	W	L	W%	GB	EXPW	EXPL	rosW%	DIV	WC	POFF	DOFF	ALDS	ALCS	WS
Red Sox	73	57	0.562	0.0	91.6	70.4	0.582	86.9	12.8	99.7	94.6	48.1	26.4	15.3
Yankees	70	59	0.543	2.5	86.8	75.2	0.508	12.6	73.9	86.5	52.8	22.7	9.0	4.3
Orioles	65	65	0.500	8.0	80.4	81.6	0.480	0.1	11.8	11.9	5.5	1.8	0.7	0.2
Rays	65	67	0.492	9.0	81.1	80.9	0.537	0.3	17.6	17.9	8.9	4.1	1.7	0.9
Blue Jays	61	69	0.469	12.0	76.0	86.0	0.468	0.0	0.5	0.5	0.3	0.1	0.1	0.0

Table 4: AL Central

Team	W	L	W%	GB	EXPW	EXPL	rosW%	DIV	WC	POFF	DOFF	ALDS	ALCS	WS
Indians	73	56	0.566	0.0	93.8	68.2	0.630	99.7	0.3	100.0	99.8	52.2	28.4	16.3
Twins	67	63	0.515	6.5	82.4	79.6	0.481	0.3	31.5	31.8	14.2	4.1	1.2	0.4
Royals	64	65	0.496	9.0	80.5	81.5	0.500	0.0	13.1	13.2	6.2	2.2	0.6	0.2
Tigers	56	73	0.434	17.0	71.7	90.3	0.476	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White Sox	52	77	0.403	21.0	64.0	98.0	0.363	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5: AL West

Team	W	L	W%	GB	EXPW	EXPL	rosW%	DIV	WC	POFF	DOFF	ALDS	ALCS	WS
Astros	79	51	0.608	0.0	98.2	63.8	0.601	100	0.0	100.0	100.0	58.7	30.0	17.2
Angels	66	65	0.504	13.5	81.4	80.6	0.498	0	20.5	20.6	9.2	3.3	1.0	0.4
Mariners	66	65	0.504	13.5	80.4	81.6	0.465	0	11.6	11.6	5.6	1.9	0.6	0.2
Rangers	64	66	0.492	15.0	79.2	82.8	0.475	0	6.2	6.2	2.8	0.9	0.2	0.1
Athletics	58	72	0.446	21.0	73.1	88.9	0.472	0	0.0	0.0	0.0	0.0	0.0	0.0

National League Projected Standings / Odds

Table 6: NL East

Team	W	L	W%	GB	EXPW	EXPL	rosW%	DIV	WC	POFF	DOFF	NLDS	NLCS	WS
Nationals	78	51	0.605	0.0	97.5	64.5	0.592	100	0.0	100.0	100.0	45.4	21.2	8.4
Marlins	66	63	0.512	12.0	82.1	79.9	0.489	0	11.2	11.3	5.3	1.6	0.5	0.1
Braves	57	71	0.445	20.5	72.1	89.9	0.443	0	0.0	0.0	0.0	0.0	0.0	0.0
Mets	57	73	0.438	21.5	71.3	90.7	0.448	0	0.0	0.0	0.0	0.0	0.0	0.0
Phillies	48	81	0.372	30.0	63.0	99.0	0.456	0	0.0	0.0	0.0	0.0	0.0	0.0

Table 7: NL Central

Team	W	L	W%	GB	EXPW	EXPL	rosW%	DIV	WC	POFF	DOFF	NLDS	NLCS	WS
Cubs	69	60	0.535	0.0	89.1	72.9	0.609	90.6	3.0	93.6	92.3	51.8	28.2	13.3
Brewers	68	63	0.519	2.0	82.2	79.8	0.459	4.6	8.2	12.8	8.4	2.6	0.7	0.1
Cardinals	65	65	0.500	4.5	82.0	80.0	0.532	4.6	7.4	12.1	8.6	3.6	1.6	0.6
Pirates	63	68	0.481	7.0	77.6	84.4	0.472	0.1	0.3	0.4	0.3	0.1	0.0	0.0
Reds	55	76	0.420	15.0	68.8	93.2	0.444	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 8: NL West

Team	W	L	W%	GB	EXPW	EXPL	rosW%	DIV	WC	POFF	DOFF	NLDS	NLCS	WS
Dodgers	91	38	0.705	0.0	111.1	50.9	0.610	100	0.0	100.0	100.0	65.7	36.6	18.3
Diamondbacks	73	58	0.557	19.0	89.3	72.7	0.525	0	93.8	93.8	49.9	18.2	7.2	2.3
Rockies	71	59	0.546	20.5	86.8	75.2	0.493	0	76.0	76.0	35.3	11.1	4.0	1.3
Padres	57	73	0.438	34.5	69.6	92.4	0.394	0	0.0	0.0	0.0	0.0	0.0	0.0
Giants	52	80	0.394	40.5	66.8	95.2	0.492	0	0.0	0.0	0.0	0.0	0.0	0.0

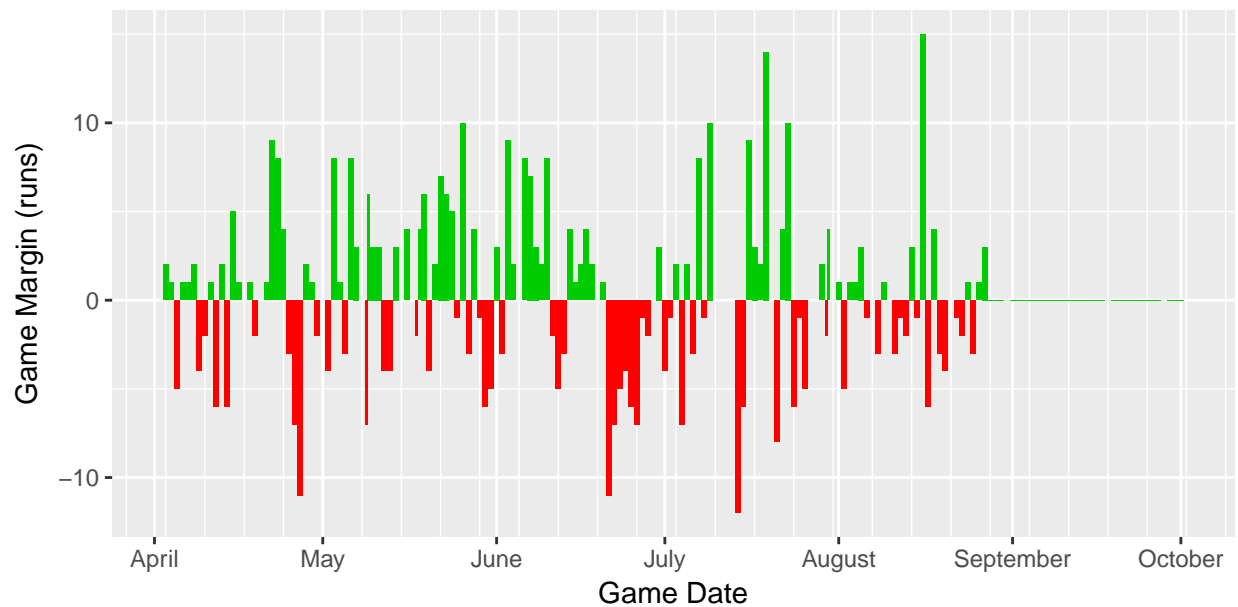
Colorado Rockies Dashboard

Win Loss Margin

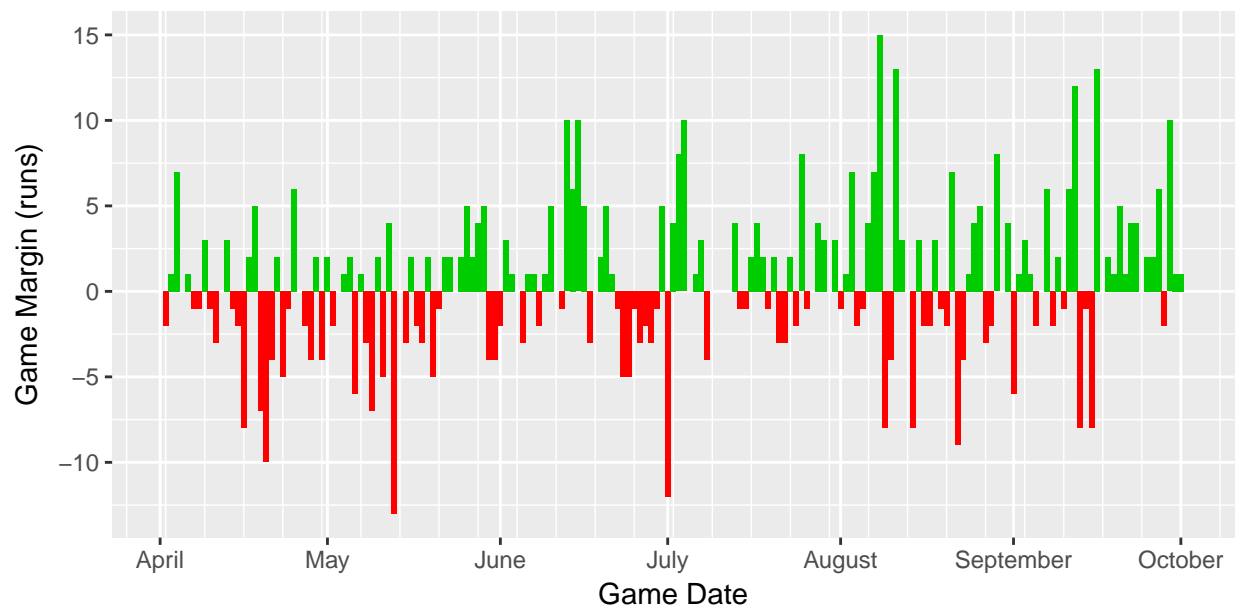
One of the many ways to visualize a teams performance is to show wins and losses as the margin of the win (positive) or loss (negative). In the graphs below, we show the current season performance. For emphasis, wins are displayed in green (above the zero) and losses in red (below the zero).

Following the current season's graph, I have included the Win/Loss margin chart for our benchmark season of 2007 when the Rockies won the National League pennant.

Rockies 2017 Win/Loss Margin



Rockies 2007 Win/Loss Margin



Top Twelve Rockies Players as Measured by WAR

Following is a table of the top twelve Colorado Rockies players as measured by the most recent WAR assessment for pitchers and position players. Week after week Nolan Arenado is at the top of this list. You may be surprised by some of the others on the list.

Table 9: Rockies Top 12 Players (WAR)

Rank	Name	Age	WAR	Salary.M
1	Nolan Arenado	26	5.6	11.750
2	Charlie Blackmon	30	4.8	7.300
3	Kyle Freeland	24	3.9	0.535
4	German Marquez	22	3.3	0.535
5	Chris Rusin	30	2.4	0.535
6	Antonio Senzatela	22	2.2	0.535
7	DJ LeMahieu	28	1.9	4.800
8	Trevor Story	24	1.9	0.535
9	Jon Gray	25	1.6	0.535
10	Jake McGee	30	1.4	5.900
11	Gerardo Parra	30	1.4	8.000
12	Mark Reynolds	33	1.4	0.535

National League Standings

Table 10: NL East Standings

Tm	W	L	W-L%	GB
Washington Nationals	78	51	.605	–
Miami Marlins	66	63	.512	12.0
Atlanta Braves	57	71	.445	20.5
New York Mets	57	73	.438	21.5
Philadelphia Phillies	48	81	.372	30.0

Table 11: NL Central Standings

Tm	W	L	W-L%	GB
Chicago Cubs	69	60	.535	–
Milwaukee Brewers	68	63	.519	2.0
St. Louis Cardinals	65	65	.500	4.5
Pittsburgh Pirates	63	68	.481	7.0
Cincinnati Reds	55	76	.420	15.0

Table 12: NL West Standings

Tm	W	L	W-L%	GB
Los Angeles Dodgers	91	38	.705	–
Arizona Diamondbacks	73	58	.557	19.0
Colorado Rockies	71	59	.546	20.5
San Diego Padres	57	73	.438	34.5
San Francisco Giants	52	80	.394	40.5

American League Standings

Table 13: AL East Standings

Tm	W	L	W-L%	GB
Boston Red Sox	73	57	.562	–
New York Yankees	70	59	.543	2.5
Baltimore Orioles	65	65	.500	8.0
Tampa Bay Rays	65	67	.492	9.0
Toronto Blue Jays	61	69	.469	12.0

Table 14: AL Central Standings

Tm	W	L	W-L%	GB
Cleveland Indians	73	56	.566	–
Minnesota Twins	67	63	.515	6.5
Kansas City Royals	64	65	.496	9.0
Detroit Tigers	56	73	.434	17.0
Chicago White Sox	52	77	.403	21.0

Table 15: AL West Standings

Tm	W	L	W-L%	GB
Houston Astros	79	51	.608	–
Los Angeles Angels	66	65	.504	13.5
Seattle Mariners	66	65	.504	13.5
Texas Rangers	64	66	.492	15.0
Oakland Athletics	58	72	.446	21.0

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	-
27	Tue	May 2	A	SDP	L	2	6	Cahill	Chatwood		N	-
28	Wed	May 3	A	SDP	W	11	3	Senzatela	Weaver		N	+
29	Thu	May 4	A	SDP	W	3	2	Qualls	Hand	Holland	D	++
30	Fri	May 5	H	ARI	L	3	6	Greinke	Marquez	Rodney	N	-
31	Sat	May 6	H	ARI	W	9	1	Anderson	Corbin	Rusin	N	+
32	Sun	May 7	H	ARI	W	5	2	Chatwood	Walker	Holland	D	++
33	Tue	May 9 (1)	H	CHC	W	10	4	Senzatela	Arrieta		D	+++
34	Tue	May 9 (2)	H	CHC	L	1	8	Lackey	Freeland		N	-
35	Wed	May 10	H	CHC	W	3	0	Marquez	Hendricks	Holland	D	+
36	Thu	May 11	H	LAD	W	10	7	Hoffman	Ryu	Holland	N	++
37	Fri	May 12	H	LAD	L	2	6	Kershaw	Chatwood		N	-
38	Sat	May 13	H	LAD	L	0	4	Wood	Anderson		N	-
39	Sun	May 14	H	LAD	W	9	6	Senzatela	Urias	Holland	D	+
40	Tue	May 16	A	MIN	W	7	3	Freeland	Hughes	Holland	N	++
41	Thu	May 18 (1)	A	MIN	W	5	1	Marquez	Santana	Holland	D	+++
42	Thu	May 18 (2)	A	MIN	L	0	2	Berrios	Chatwood	Kintzler	N	-
43	Fri	May 19	A	CIN	W	12	6	Anderson	Bonilla		N	+
44	Sat	May 20	A	CIN	L	8	12	Wojciechowski	Dunn		D	-
45	Sun	May 21	A	CIN	W	6	4	Freeland	Arroyo	Holland	D	+
46	Mon	May 22	A	PHI	W	8	1	Hoffman	Eickhoff		N	++
47	Tue	May 23	A	PHI	W	8	2	Marquez	Eflin		N	+++
48	Wed	May 24	A	PHI	W	7	2	Chatwood	Hellickson		N	++++
49	Thu	May 25	A	PHI	L-wo	1	2	Gomez	Oberg		D	-
50	Fri	May 26	H	STL	W	10	0	Senzatela	Martinez		N	+

Gm#	Day	Date	H/A	Opp	W/L	R	RA	Win	Loss	Save	D/N	Streak
51	Sat	May 27	H	STL	L	0	3	Wainwright	Freeland	Oh	N	-
52	Sun	May 28	H	STL	W	8	4	Marquez	Lynn		D	+
53	Mon	May 29	H	SEA	L	5	6	Gaviglio	Chatwood	Diaz	D	-
54	Tue	May 30	H	SEA	L	4	10	Miranda	Anderson		N	-
55	Wed	May 31	A	SEA	L	0	5	Paxton	Senzatela		N	—
56	Thu	Jun 1	A	SEA	W	6	3	Freeland	Gallardo	Holland	D	+
57	Fri	Jun 2	A	SDP	L	5	8	Richard	Marquez	Maurer	N	-
58	Sat	Jun 3	A	SDP	W	10	1	Chatwood	Chacin		D	+
59	Sun	Jun 4	A	SDP	W	3	1	Hoffman	Cosart	Holland	D	++
60	Tue	Jun 6	H	CLE	W	11	3	Senzatela	Clevinger		N	+++
61	Wed	Jun 7	H	CLE	W	8	1	Freeland	Bauer		D	++++
62	Thu	Jun 8	A	CHC	W	4	1	Chatwood	Lester	Holland	N	++++
63	Fri	Jun 9	A	CHC	W	5	3	Rusin	Frankoff	Holland	D	++++
64	Sat	Jun 10	A	CHC	W	9	1	Hoffman	Butler		D	++++
65	Sun	Jun 11	A	CHC	L	5	7	Edwards	Lyles	Davis	D	-
66	Mon	Jun 12	A	PIT	L	2	7	Taillon	Freeland		N	-
67	Tue	Jun 13	A	PIT	L	2	5	Cole	Ottavino		N	—
68	Wed	Jun 14	A	PIT	W	5	1	Marquez	Kuhl		N	+
69	Thu	Jun 15	H	SFG	W-wo	10	9	Holland	Strickland		N	++
70	Fri	Jun 16	H	SFG	W	10	8	Senzatela	Samardzija	Holland	N	+++
71	Sat	Jun 17	H	SFG	W	5	1	Freeland	Cain		D	++++
72	Sun	Jun 18	H	SFG	W-wo	7	5	Estevez	Melancon		D	++++
73	Tue	Jun 20	H	ARI	W	4	3	Ottavino	Greinke	Holland	N	++++
74	Wed	Jun 21	H	ARI	L	5	16	Walker	Hoffman		N	-
75	Thu	Jun 22	H	ARI	L	3	10	Godley	Senzatela		D	-
76	Fri	Jun 23	A	LAD	L	1	6	Wood	Freeland		N	—
77	Sat	Jun 24	A	LAD	L	0	4	Kershaw	Chatwood		N	—
78	Sun	Jun 25	A	LAD	L	6	12	Baez	Ottavino	Jansen	D	—
79	Mon	Jun 26	A	SFG	L	2	9	Samardzija	Marquez		N	—
80	Tue	Jun 27	A	SFG	L-wo	3	4	Gearrin	Qualls		N	—
81	Wed	Jun 28	A	SFG	L	3	5	Blach	Freeland	Strickland	D	—
82	Fri	Jun 30	A	ARI	W	6	3	Gray	Ray	Holland	N	+
83	Sat	Jul 1	A	ARI	L	2	6	Greinke	Chatwood	Rodney	N	-
84	Sun	Jul 2	A	ARI	L-wo	3	4	Rodney	Ottavino		D	-
85	Mon	Jul 3	H	CIN	W	5	3	Hoffman	Castillo	Holland	N	+
86	Tue	Jul 4	H	CIN	L	1	8	Bailey	Freeland		N	-
87	Wed	Jul 5	H	CIN	W	5	3	Gray	Feldman	Holland	N	+
88	Thu	Jul 6	H	CIN	L	3	6	Romano	Chatwood		D	-
89	Fri	Jul 7	H	CHW	W	12	4	Marquez	Holland		N	+
90	Sat	Jul 8	H	CHW	L	4	5	Kahnle	Holland	Robertson	N	-
91	Sun	Jul 9	H	CHW	W	10	0	Freeland	Rodon		D	+
92	Fri	Jul 14	A	NYM	L	2	14	deGrom	Gray		N	-
93	Sat	Jul 15	A	NYM	L	3	9	Lugo	Chatwood		N	-
94	Sun	Jul 16	A	NYM	W	13	4	Hoffman	Matz		D	+
95	Mon	Jul 17	H	SDP	W	9	6	Marquez	Perdomo	Holland	N	++
96	Tue	Jul 18	H	SDP	W	9	7	Senzatela	Lamet	Holland	N	+++
97	Wed	Jul 19	H	SDP	W	18	4	Gray	Richard		D	++++
98	Fri	Jul 21	H	PIT	L	5	13	Williams	Hoffman		N	-
99	Sat	Jul 22	H	PIT	W	7	3	Marquez	Kuhl	Holland	N	+
100	Sun	Jul 23	H	PIT	W	13	3	Freeland	Nova		D	++
101	Mon	Jul 24	A	STL	L	2	8	Leake	Senzatela		N	-
102	Tue	Jul 25	A	STL	L-wo	2	3	Rosenthal	McGee		N	-

Gm#	Day	Date	H/A	Opp	W/L	R	RA	Win	Loss	Save	D/N	Streak
103	Wed	Jul 26	A	STL	L	5	10	Martinez	Hoffman		N	—
104	Sat	Jul 29	A	WSN	W	4	2	Marquez	Roark	Holland	N	+
105	Sun	Jul 30 (1)	A	WSN	W	10	6	Freeland	Fedde	Holland	D	++
106	Sun	Jul 30 (2)	A	WSN	L	1	3	Jackson	Gray	Doolittle	N	-
107	Tue	Aug 1	H	NYM	W-wo	5	4	Dunn	Robles		N	+
108	Wed	Aug 2	H	NYM	L	5	10	Bradford	Chatwood		N	-
109	Thu	Aug 3	H	NYM	W-wo	5	4	Holland	Robles		D	+
110	Fri	Aug 4	H	PHI	W	4	3	Dunn	Garcia	Holland	N	++
111	Sat	Aug 5	H	PHI	W	8	5	Gray	Pivetta		N	+++
112	Sun	Aug 6	H	PHI	L	2	3	Ramos	Holland	Neris	D	-
113	Tue	Aug 8	A	CLE	L-wo	1	4	Kluber	Holland		N	—
114	Wed	Aug 9	A	CLE	W	3	2	Estevez	McAllister	Chatwood	D	+
115	Fri	Aug 11	A	MIA	L	3	6	Tazawa	McGee	Ziegler	N	-
116	Sat	Aug 12	A	MIA	L	3	4	Nicolino	Hoffman	Ziegler	N	—
117	Sun	Aug 13	A	MIA	L	3	5	Guerra	Marquez	Despaigne	D	—
118	Mon	Aug 14	H	ATL	W	3	0	Dunn	Brothers	Holland	N	+
119	Tue	Aug 15	H	ATL	L	3	4	Freeman	Neshek	Vizcaino	N	-
120	Wed	Aug 16	H	ATL	W	17	2	Gray	Foltynewicz		N	+
121	Thu	Aug 17	H	ATL	L	4	10	Sims	Hoffman		D	-
122	Fri	Aug 18	H	MIL	W	8	4	Marquez	Garza		N	+
123	Sat	Aug 19	H	MIL	L	3	6	Swarzak	Holland	Knebel	N	-
124	Sun	Aug 20	H	MIL	L	4	8	Anderson	Freeland	Knebel	D	—
125	Tue	Aug 22	A	KCR	L	2	3	Duffy	Gray	Alexander	N	—
126	Wed	Aug 23	A	KCR	L-wo	4	6	Maurer	Holland		N	—
127	Thu	Aug 24	A	KCR	W	3	2	Ottavino	Minor	Holland	D	+
128	Fri	Aug 25	A	ATL	L	2	5	Teheran	Bettis	Vizcaino	N	-
129	Sat	Aug 26	A	ATL	W	7	6	Neshek	Vizcaino	McGee	N	+
130	Sun	Aug 27	A	ATL	W	3	0	Gray	Foltynewicz	McGee	D	++

The Rockies current record is 71 Wins and 59 Losses. So far, the Rockies have scored 669 runs and have had 620 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 17: Predicted Wins for Entire 2017 Season

Wins (k=1.81)	Wins (k=1.83)	Wins (k=2.00)
87	87	87

Batting Statistics (non-pitchers)

Table 18: 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	69	209	30	50	8	1	0	14	0	1	29
2	1B	Reynolds	33	123	433	74	120	18	1	28	87	2	1	61
3	2B	LeMahieu	28	123	487	77	153	23	1	6	55	6	5	47
4	SS	Story	24	113	383	53	87	20	1	18	59	5	0	44
5	3B	Arenado	26	127	500	81	154	39	7	29	108	3	2	42
6	LF	Parra*	30	89	296	51	103	20	0	10	60	0	4	15
7	CF	Blackmon*	30	128	525	117	177	28	14	31	82	13	8	50
8	RF	Gonzalez*	31	110	390	49	93	22	0	8	40	3	0	40
9	LF	Desmond	31	65	242	33	69	8	1	5	32	10	4	14
10	IF	Valaika	24	90	157	25	41	10	0	11	34	0	0	6
11	UT	Amarista*	28	80	149	17	35	9	0	3	19	1	0	6
12	OF	Tapia*	23	53	135	22	37	8	2	2	11	5	2	8
13	C	Hanigan	36	29	96	8	24	2	0	2	12	0	0	8
14	C	Garneau	29	22	68	5	14	7	0	1	6	0	0	4
15	C	Lucroy	31	19	58	4	15	5	1	0	3	0	0	10
16	OF	Cardullo	29	15	28	2	4	0	0	0	3	0	0	3
17	C	Murphy	26	8	20	1	1	1	0	0	1	0	0	2
18	OF	Tauchman*	26	10	11	0	2	0	0	0	1	0	1	4
19	IF	Adames#	25	12	13	1	0	0	0	0	0	0	0	1
20	IF	McMahon*	22	4	9	1	2	1	0	0	1	0	0	2

Table 19: 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	51	.239	.338	.287	.625	57	60	9	2	2	0	9
2	1B	Reynolds	33	144	.277	.365	.517	.883	114	224	10	1	0	3	0
3	2B	LeMahieu	28	67	.314	.377	.402	.779	93	196	20	5	2	5	1
4	SS	Story	24	153	.227	.310	.426	.736	79	163	7	2	0	0	4
5	3B	Arenado	26	87	.308	.363	.588	.951	128	294	19	4	1	5	5
6	LF	Parra*	30	51	.348	.379	.517	.896	118	153	9	4	0	7	0
7	CF	Blackmon*	30	110	.337	.400	.621	1.021	146	326	4	7	3	3	6
8	RF	Gonzalez*	31	95	.238	.307	.356	.664	63	139	6	1	0	5	3
9	LF	Desmond	31	65	.285	.328	.388	.717	76	94	8	3	2	3	1
10	IF	Valaika	24	43	.261	.287	.535	.822	95	84	1	0	4	1	0
11	UT	Amarista*	28	31	.235	.265	.356	.620	51	53	3	0	1	0	0
12	OF	Tapia*	23	31	.274	.324	.407	.732	79	55	0	2	1	0	1
13	C	Hanigan	36	25	.250	.311	.333	.645	59	32	4	1	1	1	2
14	C	Garneau	29	24	.206	.260	.353	.613	49	24	1	1	1	0	0
15	C	Lucroy	31	9	.259	.397	.379	.777	94	22	3	4	0	1	0
16	OF	Cardullo	29	7	.143	.250	.143	.393	1	4	0	1	0	0	0
17	C	Murphy	26	7	.050	.136	.100	.236	-40	2	0	0	0	0	1
18	OF	Tauchman*	26	3	.182	.400	.182	.582	52	2	0	0	0	0	0
19	IF	Adames#	25	6	.000	.071	.000	.071	-80	0	0	0	0	0	0
20	IF	McMahon*	22	1	.222	.364	.333	.697	74	3	1	0	0	0	0

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

Pitching Statistics

Table 20: 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	Freeland*	24	11	8	.579	3.81	25	24	0	0	0	0	139.1	143	64
2	SP	Marquez	22	10	5	.667	4.18	22	22	0	0	0	0	125.0	125	59
3	SP	Senzatela	22	10	4	.714	4.52	26	19	3	0	0	0	121.1	114	63
4	SP	Chatwood	27	6	12	.333	5.08	25	20	2	1	1	1	118.2	107	69
5	SP	Hoffman	24	6	5	.545	5.30	17	16	1	0	0	0	91.2	94	55
6	SP	Gray	25	6	3	.667	4.18	14	14	0	0	0	0	75.1	84	37
7	CL	Holland	31	2	5	.286	4.05	50	0	47	0	0	36	46.2	36	21
8	RP	McGee*	30	0	2	.000	3.33	50	0	12	0	0	3	48.2	38	18
9	RP	Dunn*	32	5	1	.833	4.26	56	0	8	0	0	0	44.1	38	21
10	RP	Oberg	27	0	1	.000	5.93	51	0	9	0	0	0	44.0	59	32
11	RP	Ottavino	31	2	3	.400	5.11	52	0	6	0	0	0	44.0	43	25
12		Rusin*	30	3	0	1.000	2.47	47	0	5	0	0	1	69.1	57	23
13		Anderson*	27	3	5	.375	6.11	13	12	1	0	0	0	63.1	75	45
14		Lyles	26	0	2	.000	6.94	33	0	12	0	0	0	46.2	61	37
15		Estevez	24	5	0	1.000	6.53	21	0	8	0	0	0	20.2	27	16
16		Bettis	28	0	1	.000	3.79	3	3	0	0	0	0	19.0	20	8
17		Qualls	38	1	1	.500	5.40	19	0	9	0	0	0	16.2	17	11
18		Neshek	36	1	1	.500	3.18	15	0	1	0	0	0	11.1	13	6
19		Diaz	26	0	0		9.00	4	0	3	0	0	0	5.0	12	6
20		Rosscup*	29	0	0		10.80	3	0	1	0	0	0	3.1	7	4
21		Carle	25	0	0		0.00	1	0	1	0	0	0	1.0	0	0

Table 21: Rockies pitching statistics (2 of 2).

Rk	Pos	Name	ER	HR	BB	IBB	SO	HBP	BK	WP	BF	ERA+	FIP	WHIP
1	SP	Freeland*	59	17	52	3	94	8	2	0	604	131	4.66	1.400
2	SP	Marquez	58	17	40	2	115	7	0	3	537	120	4.18	1.320
3	SP	Senzatela	61	18	40	1	91	4	2	1	504	111	4.64	1.269
4	SP	Chatwood	67	18	65	2	96	2	2	9	505	99	5.18	1.449
5	SP	Hoffman	54	14	33	1	73	4	0	2	398	95	4.73	1.385
6	SP	Gray	35	7	23	0	73	1	1	3	323	120	3.35	1.420
7	CL	Holland	21	6	24	1	57	1	0	6	195	124	3.96	1.286
8	RP	McGee*	18	4	13	0	52	1	0	5	192	151	2.92	1.048
9	RP	Dunn*	21	7	24	0	52	0	0	2	192	118	4.46	1.398
10	RP	Oberg	29	3	19	2	41	2	0	3	208	85	3.58	1.773
11	RP	Ottavino	25	7	30	1	50	4	0	7	203	98	5.24	1.659
12		Rusin*	19	7	17	1	54	1	0	2	272	203	3.66	1.067
13		Anderson*	43	15	23	0	63	2	2	3	281	82	5.40	1.547
14		Lyles	36	11	12	1	33	4	0	2	211	72	5.81	1.564
15		Estevez	15	1	8	1	19	1	1	1	97	78	3.22	1.694
16		Bettis	8	3	3	0	11	0	0	1	78	134	4.50	1.211
17		Qualls	10	3	5	0	11	0	0	0	72	94	5.05	1.320
18		Neshek	4	1	0	0	11	0	0	0	47	162	2.33	1.147
19		Diaz	5	0	5	0	2	1	0	0	30	59	5.93	3.400
20		Rosscup*	4	2	0	0	5	0	0	0	17	51	7.93	2.100
21		Carle	0	0	0	0	1	0	0	1	4		1.13	0.000

* - throws left-handed

National League Team Standard Batting

Table 22: NL Team Batting statistics (1 of 2).

Tm	#Bat	BatAge	R/G	G	PA	AB	R	H	2B	3B	HR	RBI	SB	CS	BB	SO
WSN	47	29.2	5.26	129	4997	4461	678	1205	254	21	181	659	85	23	436	1037
COL	41	28.3	5.15	130	4972	4453	669	1217	235	29	156	644	48	28	400	1135
LAD	44	27.9	5.00	129	4953	4321	645	1104	249	15	183	607	64	22	527	1100
CHC	42	27.0	4.98	129	5005	4389	642	1104	216	23	187	610	47	23	489	1116
ARI	42	28.3	4.84	131	5026	4469	634	1129	255	31	169	605	84	26	459	1204
MIA	41	28.4	4.77	129	4926	4416	615	1175	214	20	162	589	70	24	380	992
CIN	44	27.2	4.75	131	5065	4469	622	1139	202	32	186	594	101	31	464	1057
STL	43	28.2	4.70	130	4996	4402	611	1152	241	20	155	582	62	25	463	1082
LgAvg	43	28.1	4.62	130	4966	4427	600	1128	227	24	161	574	67	25	426	1083
NYM	47	29.2	4.61	130	4951	4440	599	1101	223	23	193	580	37	15	412	1037
ATL	46	29.1	4.57	128	4905	4416	585	1160	229	20	135	560	59	25	364	942
MIL	47	27.3	4.55	131	4967	4443	596	1106	219	21	188	567	106	33	426	1286
PIT	45	28.3	4.24	131	5015	4443	555	1091	205	30	126	525	57	29	439	958
PHI	45	26.9	4.11	129	4871	4409	530	1097	236	31	140	504	51	21	383	1116
SFG	47	29.5	3.97	132	5032	4552	524	1129	240	22	101	501	68	29	380	968
SDP	47	26.1	3.83	130	4804	4317	498	1008	182	26	158	477	71	26	370	1214

Table 23: NL Team Batting statistics (2 of 2).

Tm	#Bat	BatAge	R/G	BA	OBP	SLG	OPS	OPS+	TB	GDP	HBP	SH	SF	IBB	LOB
WSN	47	29.2	5.26	0	0.335	0.458	0.793	103	2044	91	20	37	43	45	889
COL	41	28.3	5.15	0	0.336	0.444	0.780	90	1978	108	38	47	34	33	856
LAD	44	27.9	5.00	0	0.341	0.447	0.788	105	1932	97	48	26	30	31	912
CHC	42	27.0	4.98	0	0.335	0.439	0.774	100	1927	106	71	32	22	42	913
ARI	42	28.3	4.84	0	0.327	0.437	0.764	91	1953	78	45	31	22	37	911
MIA	41	28.4	4.77	0	0.330	0.434	0.763	102	1915	99	55	42	31	37	875
CIN	44	27.2	4.75	0	0.331	0.439	0.771	99	1963	91	62	39	31	27	936
STL	43	28.2	4.70	0	0.337	0.431	0.768	100	1898	115	54	39	38	28	900
LgAvg	43	28.1	4.62	0	0.325	0.426	0.751	94	1887	98	48	35	30	32	888
NYM	47	29.2	4.61	0	0.316	0.439	0.755	97	1949	95	42	26	31	27	859
ATL	46	29.1	4.57	0	0.325	0.415	0.740	93	1834	116	54	44	26	48	868
MIL	47	27.3	4.55	0	0.320	0.435	0.755	94	1931	87	46	35	17	25	876
PIT	45	28.3	4.24	0	0.322	0.390	0.712	86	1734	102	72	35	25	34	933
PHI	45	26.9	4.11	0	0.312	0.412	0.724	89	1815	100	35	17	27	23	858
SFG	47	29.5	3.97	0	0.308	0.377	0.685	81	1716	104	34	25	41	33	897
SDP	47	26.1	3.83	0	0.299	0.397	0.696	84	1716	79	45	44	28	15	831

Current Injuries

	Name	Updated	Type	Details
1	Tyler Anderson	August 21 2017	Knee	Anderson has been transferred to the 60-day disabled list due to arthroscopic left knee surgery and is expected to be sidelined until the start of September.
2	Ian Desmond	July 28 2017	Calf	Desmond has been placed on the 10-day disabled due to a right calf strain. A timetable for his recovery has yet to be established.
3	Ryan Hanigan	August 22 2017	Groin	Hanigan is on the 10-day disabled list with a left groin strain and will miss an undetermined amount of game action.

Table 24: Current Injuries

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 - There is much more to cover here. Perhaps we can rank some of the past greats based on their modern day WAR rating?
- What is the OPS+ statistic and how is it calculated.
- Survey MLB ticket prices.
- Are WAR ratings a good indicator of past season's playoff and World Series teams?
- A suggestion from a work colleague that we investigate what budding talent we have in the Rockies farm system. I will look into this and see what I can find.

Let me know what you would like to see in future articles. Send me an 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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