

Rockies 2018 - Week #3

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Colorado Rockies Statistics Snapshot

Table 1: NL West Standings

Tm	W	L	W-L%	GB
Arizona Diamondbacks	15	6	.714	–
Colorado Rockies	12	11	.522	4.0
Los Angeles Dodgers	10	10	.500	4.5
San Francisco Giants	9	12	.429	6.0
San Diego Padres	8	15	.348	8.0

Table 2: Current Rockies Results as of 2018-04-23

Wins	Losses	Win.Pct	Runs	Runs.Ag	Predicted Season Wins
12	11	.52174	93	115	64

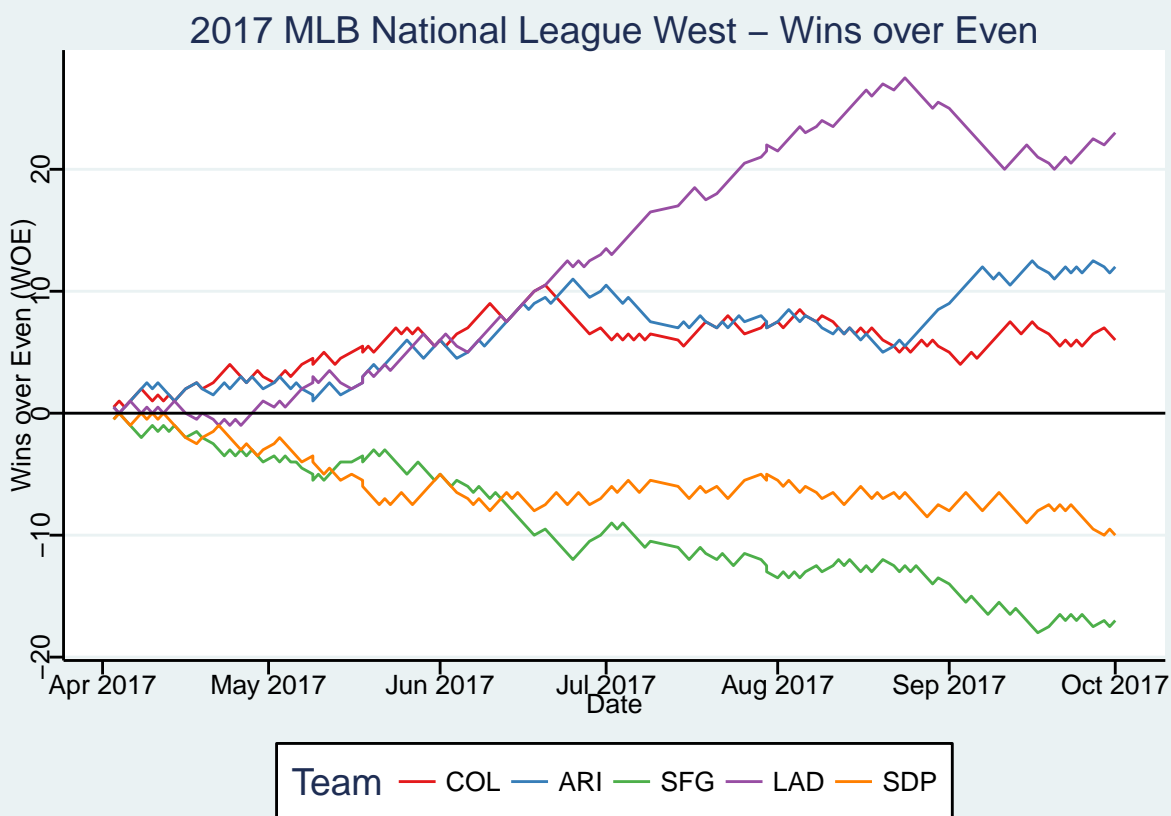




Figure 1: Yogi Berra played 19 seasons in Major League Baseball (1946-63, 1965), all but the last season for the New York Yankees.

Colorado Rockies Weekly Newsletter



“You can observe a lot by watching.” ~ Yogi Berra

Week #3

- **Colorado Rockies Dashboard**
 - Rockies Win/Loss Graphs for 2018 and 2007
 - Top Twelve Rockies Players as Measured by WAR
 - National and American League Standings
 - Game-by-Game Results
 - **Pythagorean Theorem** prediction of the number of wins.
 - Batting Statistics (for non-pitchers)
 - Pitching Statistics
 - National League Team Standard Batting
 - Current Injuries **Updated**

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

A New Statistic WOE

The astute reader will notice the graph on page one depicting WOE for the NL West teams in 2017. What is WOE and who cares? WOE is Wins Over Even. You've heard the old saw that you have to play over 500 if you intend to advance to the playoffs. Well in the case of the 2017 season, all the teams in NL West that finished over 500 (or, "even") advanced to the playoffs. Colorado and Arizona had a single game playoff to determine who would play the Los Angeles Dodgers for the division title.

If you look carefully at the beginning of the season, you will notice the back and forth among COL, LAD and ARI. In late June, the Rockies and the Diamondbacks fell off and never again gained first place. LAD just kept climbing, finishing over twenty games above 500 (WOE).

In the first several weeks, all the teams in NL West will be sorting out their playing strategy and style. Starting next week, I will post the WOE graph for 2018 and we can watch this over the coming weeks.

Let me know if you think this graph is interesting/informative or a waste of ink!

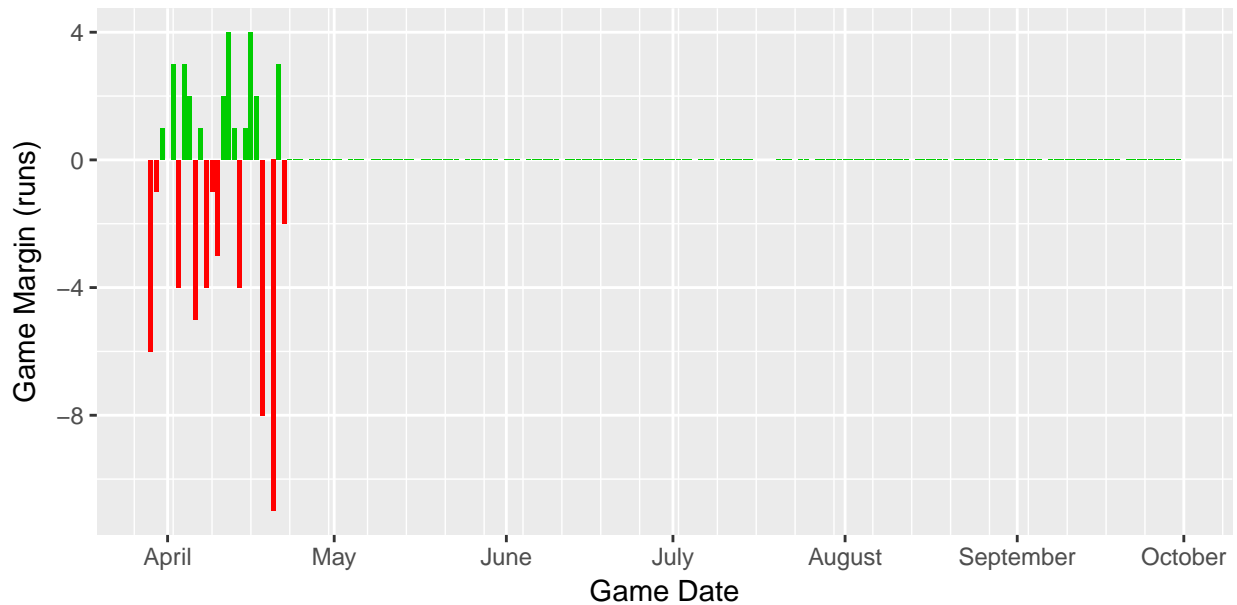
Colorado Rockies Dashboard

Win Loss Margin

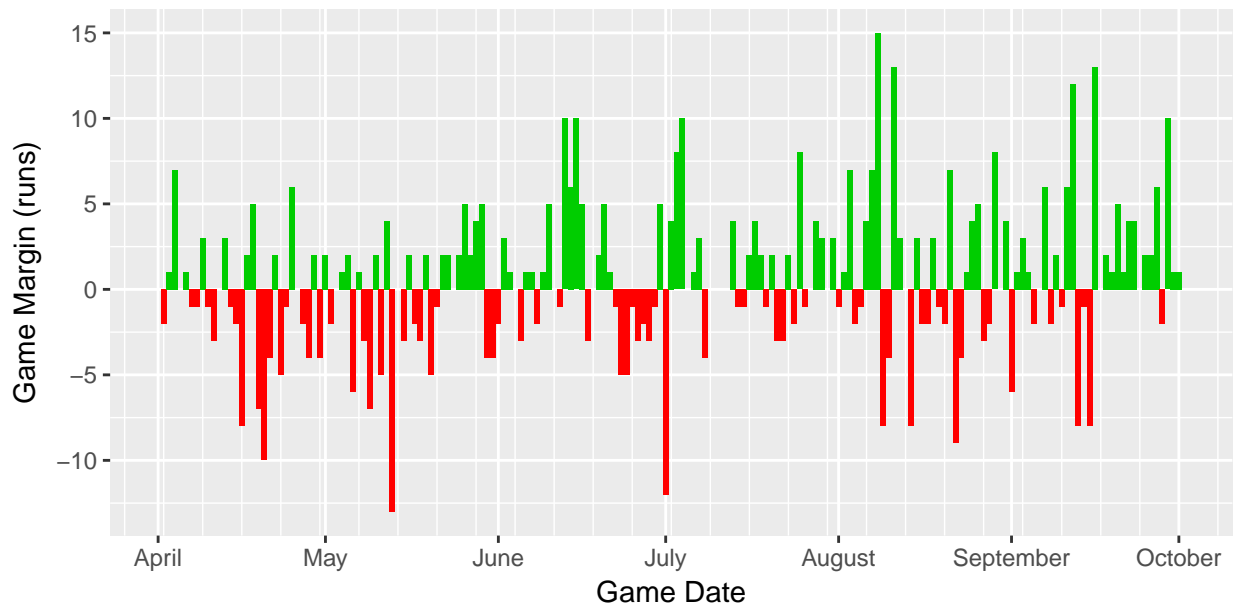
One of the many ways to visualize a teams performance is to show wins and losses as the margin of the win (positive) or loss (negative). In the graphs below, we show the current season performance. For emphasis, wins are displayed in green (above the zero) and losses in red (below the zero).

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 2018 Win/Loss Margin



Rockies 2007 Win/Loss Margin



Top Twelve Rockies Players as Measured by WAR

While early in the season, we will pull this data frequently.

Table 3: Rockies Top 12 Players (WAR)

Rank	Name	Age	WAR
1	Chad Bettis	29	1.3
2	DJ LeMahieu	29	1.3
3	Charlie Blackmon	31	0.7
4	Adam Ottavino	32	0.7
5	Nolan Arenado	27	0.6
6	Wade Davis	32	0.5
7	Jake McGee	31	0.4
8	Scott Oberg	28	0.4
9	Tyler Anderson	28	0.2
10	Trevor Story	25	0.2
11	Carlos Gonzalez	32	0.1
12	German Marquez	23	0.1

National League Standings

Table 4: NL East Standings

Tm	W	L	W-L%	GB
New York Mets	14	6	.700	–
Philadelphia Phillies	14	7	.667	0.5
Atlanta Braves	12	8	.600	2.0
Washington Nationals	10	12	.455	5.0
Miami Marlins	5	16	.238	9.5

Table 5: NL Central Standings

Tm	W	L	W-L%	GB
St. Louis Cardinals	13	8	.619	–
Milwaukee Brewers	14	9	.609	–
Pittsburgh Pirates	12	10	.545	1.5
Chicago Cubs	10	9	.526	2.0
Cincinnati Reds	3	18	.143	10.0

Table 6: NL West Standings

Tm	W	L	W-L%	GB
Arizona Diamondbacks	15	6	.714	–
Colorado Rockies	12	11	.522	4.0
Los Angeles Dodgers	10	10	.500	4.5
San Francisco Giants	9	12	.429	6.0
San Diego Padres	8	15	.348	8.0

American League Standings

Table 7: AL East Standings

Tm	W	L	W-L%	GB
Boston Red Sox	17	4	.810	–
Toronto Blue Jays	13	8	.619	4.0
New York Yankees	11	9	.550	5.5
Tampa Bay Rays	8	13	.381	9.0
Baltimore Orioles	6	16	.273	11.5

Table 8: AL Central Standings

Tm	W	L	W-L%	GB
Cleveland Indians	11	8	.579	–
Minnesota Twins	8	8	.500	1.5
Detroit Tigers	9	11	.450	2.5
Kansas City Royals	5	15	.250	6.5
Chicago White Sox	4	14	.222	6.5

Table 9: AL West Standings

Tm	W	L	W-L%	GB
Houston Astros	16	7	.696	–
Los Angeles Angels	14	8	.636	1.5
Seattle Mariners	11	9	.550	3.5
Oakland Athletics	11	11	.500	4.5
Texas Rangers	8	15	.348	8.0

Rockies Game-by-Game Schedule/Results

Gm#	Day	Date	H/A	Opp	W/L	R	RA	Win	Loss	Save	D/N	Streak
1	Thu	Mar 29	A	ARI	L	2	8	Corbin	Gray		N	-
2	Fri	Mar 30	A	ARI	L	8	9	Ray	Senzatela	Boxberger	N	-
3	Sat	Mar 31	A	ARI	W	2	1	Shaw	Salas	Davis	N	+
4	Mon	Apr 2	A	SDP	W	7	4	Bettis	Mitchell	Davis	N	++
5	Tue	Apr 3	A	SDP	L	4	8	Ross	Freeland	Hand	N	-
6	Wed	Apr 4	A	SDP	W	5	2	Gray	Richard	Davis	N	+
7	Thu	Apr 5	A	SDP	W	3	1	Ottavino	Hand	Davis	D	++
8	Fri	Apr 6	H	ATL	L	3	8	McCarthy	Marquez		D	-
9	Sat	Apr 7	H	ATL	W-wo	3	2	Ottavino	Vizcaino		N	+
10	Sun	Apr 8	H	ATL	L	0	4	Newcomb	Freeland		D	-
11	Mon	Apr 9	H	SDP	L	6	7	Richard	Gray	Hand	N	-
12	Tue	Apr 10	H	SDP	L	2	5	Lucchesi	Shaw	Hand	N	—
13	Wed	Apr 11	H	SDP	W	6	4	Senzatela	Baumann	Davis	D	+
14	Thu	Apr 12	A	WSN	W	5	1	Bettis	Gonzalez		N	++
15	Fri	Apr 13	A	WSN	W	2	1	Oberg	Roark	Davis	N	+++
16	Sat	Apr 14	A	WSN	L	2	6	Scherzer	Gray		D	-
17	Sun	Apr 15	A	WSN	W	6	5	Ottavino	Doolittle	Davis	D	+
18	Mon	Apr 16	A	PIT	W	6	2	Marquez	Brault		N	++
19	Tue	Apr 17	A	PIT	W	2	0	Bettis	Williams	Davis	N	+++
20	Wed	Apr 18	A	PIT	L	2	10	Kuhl	Freeland		D	-
21	Fri	Apr 20	H	CHC	L	5	16	Hendricks	Gray		N	-
22	Sat	Apr 21	H	CHC	W	5	2	Anderson	Darvish	Davis	N	+
23	Sun	Apr 22	H	CHC	L	7	9	Quintana	Marquez	Morrow	D	-

The Rockies current record is 12 Wins and 11 Losses. So far, the Rockies have scored 93 runs and have had 115 runs scored against them.

Pythagorean Win-Loss Theorem

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

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 11: Predicted Wins for Entire 2017 Season

Wins (k=1.81)	Wins (k=1.83)	Wins (k=2.00)
66	65	64

Batting Statistics (non-pitchers)

Table 12: Rockies Batting Statistics (1 of 2).

Rk	Pos	Name	Age	G	AB	R	H	2B	3B	HR	RBI	SB	CS	BB
1	C	Iannetta	35	17	61	8	14	3	0	2	7	0	0	7
2	1B	Desmond	32	22	76	9	13	2	0	4	11	2	0	4
3	2B	LeMahieu	29	23	92	15	26	7	0	5	11	2	0	12
4	SS	Story	25	23	82	8	20	4	1	4	12	4	0	10
5	3B	Arenado	27	18	64	8	22	4	1	3	10	1	1	10
6	LF	Parra*	31	21	69	10	15	2	0	1	4	2	1	6
7	CF	Blackmon*	31	18	69	18	21	3	0	8	15	1	1	9
8	RF	Gonzalez*	32	20	68	8	16	2	1	3	11	2	1	3
9	CI	McMahon*	23	21	43	3	6	1	0	0	3	0	0	5
10	CI	Valaika	25	20	38	0	3	2	0	0	1	0	0	2
11	C	Wolters*	26	11	26	1	3	0	0	0	3	0	0	5
12	OF	Tauchman*	27	15	23	2	1	0	0	0	0	1	0	3
13	OF	Dahl*	24	1	4	0	1	0	0	0	1	0	0	1
14	RF	Cuevas	26	1	3	0	0	0	0	0	0	0	0	0

Table 13: Rockies Batting Statistics (2 of 2).

Rk	Pos	Name	Age	SO	BA	OBP	SLG	OPS	OPS+	TB	GDP	HBP	SH	SF	IBB
1	C	Iannetta	35	16	.230	.309	.377	.686	80	23	5	0	0	0	0
2	1B	Desmond	32	22	.171	.210	.355	.565	46	27	3	0	0	1	0
3	2B	LeMahieu	29	13	.283	.365	.522	.887	131	48	2	0	0	0	0
4	SS	Story	25	31	.244	.340	.463	.804	110	38	1	2	0	0	0
5	3B	Arenado	27	12	.344	.427	.578	1.005	162	37	2	0	0	1	2
6	LF	Parra*	31	11	.217	.280	.290	.570	51	20	0	0	1	0	1
7	CF	Blackmon*	31	18	.304	.392	.696	1.088	180	48	1	1	0	0	0
8	RF	Gonzalez*	32	17	.235	.264	.426	.690	79	29	0	0	0	1	0
9	CI	McMahon*	23	19	.140	.229	.163	.392	6	7	0	0	0	0	0
10	CI	Valaika	25	10	.079	.125	.132	.257	-32	5	1	0	0	0	0
11	C	Wolters*	26	9	.115	.281	.115	.397	10	3	1	1	0	0	0
12	OF	Tauchman*	27	11	.043	.154	.043	.197	-45	1	0	0	1	0	0
13	OF	Dahl*	24	3	.250	.400	.250	.650	76	1	0	0	0	0	0
14	RF	Cuevas	26	1	.000	.000	.000	.000	-100	0	0	0	0	0	0

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

Pitching Statistics

Table 14: 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	Gray	26	1	4	.200	6.75	5	5	0	0	0	0	26.2	36	22
2	SP	Bettis	29	3	0	1.000	1.44	4	4	0	0	0	0	25.0	17	4
3	SP	Anderson*	28	1	0	1.000	4.32	5	5	0	0	0	0	25.0	24	14
4	SP	Marquez	23	1	2	.333	6.14	5	5	0	0	0	0	22.0	22	16
5	SP	Freeland*	25	0	3	.000	5.85	4	4	0	0	0	0	20.0	22	13
6	CL	Davis	32	0	0		1.93	10	0	9	0	0	9	9.1	3	2
7	RP	Ottavino	32	3	0	1.000	0.71	12	0	5	0	0	0	12.2	2	1
8	RP	Oberg	28	1	0	1.000	2.53	9	0	3	0	0	0	10.2	9	3
9	RP	Shaw	30	1	1	.500	7.59	13	0	1	0	0	0	10.2	17	9
10	RP	McGee*	31	0	0		1.74	11	0	1	0	0	0	10.1	3	3
11		Rusin*	31	0	0		4.97	8	0	1	0	0	0	12.2	11	7
12		Senzatela	23	1	1	.500	9.53	8	0	1	0	0	0	11.1	17	13
13		Dunn*	33	0	0		10.80	9	0	2	0	0	0	6.2	10	8

Table 15: Rockies pitching statistics (2 of 2).

Rk	Pos	Name	ER	HR	BB	IBB	SO	HBP	BK	WP	BF	ERA+	FIP	WHIP
1	SP	Gray	20	4	8	1	24	1	0	3	123	67	4.32	1.650
2	SP	Bettis	4	2	10	0	15	1	0	2	97	316	4.32	1.080
3	SP	Anderson*	12	3	14	0	27	0	0	3	109	105	4.24	1.520
4	SP	Marquez	15	2	13	2	21	2	0	1	103	74	4.48	1.591
5	SP	Freeland*	13	5	9	0	17	0	0	0	89	78	6.06	1.550
6	CL	Davis	2	1	3	0	10	0	0	0	33	241	3.37	0.643
7	RP	Ottavino	1	0	2	0	24	2	0	1	41	648	0.32	0.316
8	RP	Oberg	3	0	3	0	10	2	0	0	46	183	2.69	1.125
9	RP	Shaw	9	3	4	0	8	0	0	2	51	61	6.44	1.969
10	RP	McGee*	2	1	2	0	9	1	0	0	36	266	3.55	0.484
11		Rusin*	7	2	6	0	11	0	0	1	52	93	4.89	1.342
12		Senzatela	12	2	4	0	8	1	0	0	55	48	5.36	1.853
13		Dunn*	8	0	5	0	5	0	0	0	33	44	3.91	2.250

* - throws left-handed

National League Team Standard Batting

Table 16: 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
CHC	28	26.9	5.79	19	801	694	110	179	40	8	20	101	4	3	77	174
ATL	34	28.2	5.55	20	808	703	111	187	47	3	20	105	14	7	80	163
PHI	27	26.3	5.05	21	817	701	106	161	35	4	19	103	16	7	98	211
STL	32	28.7	4.81	21	813	705	101	174	28	0	30	97	13	6	88	189
NYM	31	29.4	4.80	20	771	661	96	157	35	4	19	92	8	6	87	182
PIT	29	28.4	4.73	22	841	750	104	186	39	7	22	99	11	7	72	166
LAD	29	28.0	4.70	20	808	716	94	175	38	3	19	87	5	6	74	175
ARI	28	29.0	4.52	21	787	694	95	156	40	9	21	92	12	4	80	204
LgAvg	30	28.3	4.33	21	820	722	92	171	34	4	21	87	11	5	78	194
WSN	31	28.7	4.23	22	862	740	93	172	35	2	24	88	25	5	100	192
MIL	33	28.6	4.09	23	879	785	94	192	38	1	28	87	14	5	77	215
COL	27	28.9	4.04	23	849	759	93	169	31	3	30	89	15	4	78	211
SDP	32	27.3	3.65	23	862	780	84	171	36	4	23	77	9	5	65	236
MIA	31	27.8	3.29	21	818	732	69	164	20	2	13	63	4	2	64	195
SFG	30	30.7	3.14	21	790	721	66	170	24	2	22	61	11	5	55	204
CIN	31	27.7	2.90	21	787	695	61	153	27	1	11	58	9	1	69	186

Table 17: NL Team Batting statistics (2 of 2).

Tm	#Bat	BatAge	R/G	BA	OBP	SLG	OPS	OPS+	TB	GDP	HBP	SH	SF	IBB	LOB
CHC	28	26.9	5.79	0.258	0.349	0.425	0.774	111	295	11	21	6	2	9	160
ATL	34	28.2	5.55	0.266	0.345	0.427	0.771	116	300	14	8	10	7	8	148
PHI	27	26.3	5.05	0.230	0.325	0.372	0.697	97	261	15	5	4	8	7	144
STL	32	28.7	4.81	0.247	0.333	0.414	0.748	110	292	13	8	3	9	4	151
NYM	31	29.4	4.80	0.238	0.333	0.389	0.722	103	257	18	11	5	7	10	136
PIT	29	28.4	4.73	0.248	0.315	0.407	0.722	101	305	9	6	3	9	8	140
LAD	29	28.0	4.70	0.244	0.318	0.385	0.704	98	276	16	7	4	7	7	147
ARI	28	29.0	4.52	0.225	0.307	0.399	0.706	88	277	10	4	5	4	3	130
LgAvg	30	28.3	4.33	0.237	0.316	0.383	0.699	94	277	15	9	5	5	6	148
WSN	31	28.7	4.23	0.232	0.328	0.382	0.710	96	283	14	9	5	8	9	166
MIL	33	28.6	4.09	0.245	0.317	0.403	0.720	98	316	18	8	6	3	6	167
COL	27	28.9	4.04	0.223	0.297	0.390	0.687	80	296	16	4	5	3	3	139
SDP	32	27.3	3.65	0.219	0.289	0.364	0.653	86	284	16	12	3	2	3	148
MIA	31	27.8	3.29	0.224	0.297	0.310	0.607	76	227	21	13	4	3	4	150
SFG	30	30.7	3.14	0.236	0.292	0.366	0.658	85	264	16	4	5	5	6	144
CIN	31	27.7	2.90	0.220	0.299	0.309	0.609	70	215	19	11	9	3	3	153

Table 18: Rockies Current Injuries

Name	Updated	Type	Details
Carlos Estevez	April 21 2018	Oblique	Estevez is battling a left oblique strain and has been placed on the 10-day disabled list but is likely to return during the latter part of May.
Carlos Gonzalez	April 22 2018	Hamstring	Gonzalez has been placed on the 10-day disabled list with a right hamstring strain and there is no timetable for return.
Jeff Hoffman	April 22 2018	Shoulder	Hoffman is on the 10-day disabled list due to right shoulder inflammation and will miss an extended period of time.
Gerardo Parra	April 22 2018	Suspension	Parra has been suspended four games for his role in an altercation but is likely to be available Friday against the Marlins.
Zac Rosscup	April 21 2018	Finger	Rosscup is on the 10-day disabled list dealing with warts on his left middle finger and may require surgery. There is no timetable set for his return.

Current Injuries

Run date time: 2018-04-23 10:42:17