

Rockies 2018 - Week #6

Jim Reed (jdreed@q.com)

Monday, May 14, 2018

Colorado Rockies Statistics Snapshot

Table 1: NL West Standings

Tm	W	L	W-L%	GB
Arizona Diamondbacks	24	16	.600	–
Colorado Rockies	22	19	.537	2.5
San Francisco Giants	20	21	.488	4.5
Los Angeles Dodgers	16	24	.400	8.0
San Diego Padres	16	26	.381	9.0

Table 2: Current Rockies Results as of 2018-05-14

Wins	Losses	Win.Pct	Runs	Runs.Ag	Predicted Season Wins
22	19	53.659	165	185	72



Figure 1: Mike Trout, (Born: August 7, 1991 in Vineland, NJ) Currently, Trout is playing for the Los Angeles Angels of Anaheim. He has a 2018 WAR of 3.3 and career WAR of 57.5.

“You surprise yourself on some balls off the bat. You don’t think you have a chance to catch it. And then your natural ability just takes over.” ~ Mike Trout

Colorado Rockies Weekly Newsletter



Week #5

- **Colorado Rockies Dashboard**
 - The Baseball Codes
 - 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**

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

The Baseball Codes

The week the Baseball Codes story was originally posted by Jason Turbow Wed 5/9/2018 1:05 PM in his blog. It concerns the rule regarding right of way at the plate when a base runner approaches home plate with the intention of scoring.

Collision Course: The State Of Baseball, 2018 by Jason Turbow

This is a story about baseball's rulebook, and also about baseball's unwritten rulebook. One, it turns out, feeds the other. Yesterday, Marlins left fielder Derek Dietrich, racing home on a single, was easily beaten by the throw from Cubs right fielder Ben Zobrist. With his only hope at scoring being to dislodge the ball from the catcher, Dietrich plowed into Victor Caratini, just as generations before him have done.

Actually, it was a fair step milder than in previous generations, the collision being mostly arms, not even forceful enough to knock Caratini from his feet. Still, this is the no-contact era of major league baseball, a place where, following Scott Cousins' takeout of Buster Posey back in 2011, the target on catchers' backs was institutionally removed. This is a time in which a late slide from Tyler Austin—a slide that once wouldn't have so much as raised an eyebrow in the opposing dugout—led to fisticuffs in New York.

So, when Dietrich took liberties with Caratini, Caratini responded in kind. The dugouts quickly emptied, and though the most significant moment of the resulting skirmish involved Kris Bryant tickling former teammate Starlin Castro, the event is worthy of exploration.

Cubs and Marlins benches clear after Derek Dietrich barrels into Victor Caratini at home.

No punches thrown.

MLB rule 6.01(i)(1) instructs that any catcher ceding the baseline—standing in front of the plate and relying on a swipe tag to make the putout—is in safe waters: “A runner attempting to score may not deviate from his direct pathway to the plate in order to initiate contact with the catcher (or other player covering home plate), or otherwise initiate an avoidable collision.”

Dietrich did not deviate from his pathway because he did not have to: Caratini was planted firmly atop the line while awaiting the throw—going firmly against Rule 6.01(i)(2), which clarifies that “unless the catcher is in possession of the ball, the catcher cannot block the pathway of the runner as he is attempting to score.”

In this case, it appeared to be unwitting: Upon receiving the ball, Caratini turned to make the requisite swipe tag before realizing that he had overshot his positioning and was reaching into foul territory, away from the plate. He quickly drew his glove back into the runner.

It left Dietrich little choice about contact. The runner's ensuing shove was purely elective, of course, though it was a far cry from the devastation possible had he opted to lower his shoulder. Dietrich even tried to make nice by tipping his cap to the catcher before Caratini got into his face.

We're left with this: Victor Caratini is 24 years old and was playing in his 51st big league game. Posey-era rules are all he's ever known. With little basis from which to understand the rationality of Dietrich's decision, the catcher reacted angrily at being shoved, and a play that should barely have registered soon bordered on fisticuffs.

The sport's unwritten rules can be seen in similar light. Take the aforementioned Yankees-Red Sox brawl back in April. On one hand, the Red Sox were overly sensitive about a slide that a generation earlier wouldn't have drawn much notice. On the other, the slide was clearly outside of baseball's recently established parameters, and Austin should have been prepared for the response that he received.

Ultimately, neither side had much clue about how to handle what was, before now, a fairly standard baseball situation, and things ended badly. They ended badly because many players no longer understand the intentions behind much of the Code, and react instinctively rather than rationally. It's what enables sensitivity about the personal nature of an action that is not at all personal.

These are the unintended consequences of the sanitation of the sport. There are clear benefits—fewer collision-based injuries and a decline in retaliatory beanballs—but there are also growing pains. Yesterday's collision was only one of them, with more certain to follow.

Colorado Connection - What is Tim Tebow doing these days?

Ever the competitor, Tim Tebow has been toiling in the Mets farm system for the last couple of years. The comments have been that the lefty Tebow is not that outstanding in America's past time. Thing is, he brings in the crowds. Tebow played for the Class A Columbia team in 2017. He hit .226 with eight homers, 52 RBIs, 24 doubles and a .309 on-base percentage (OBP).

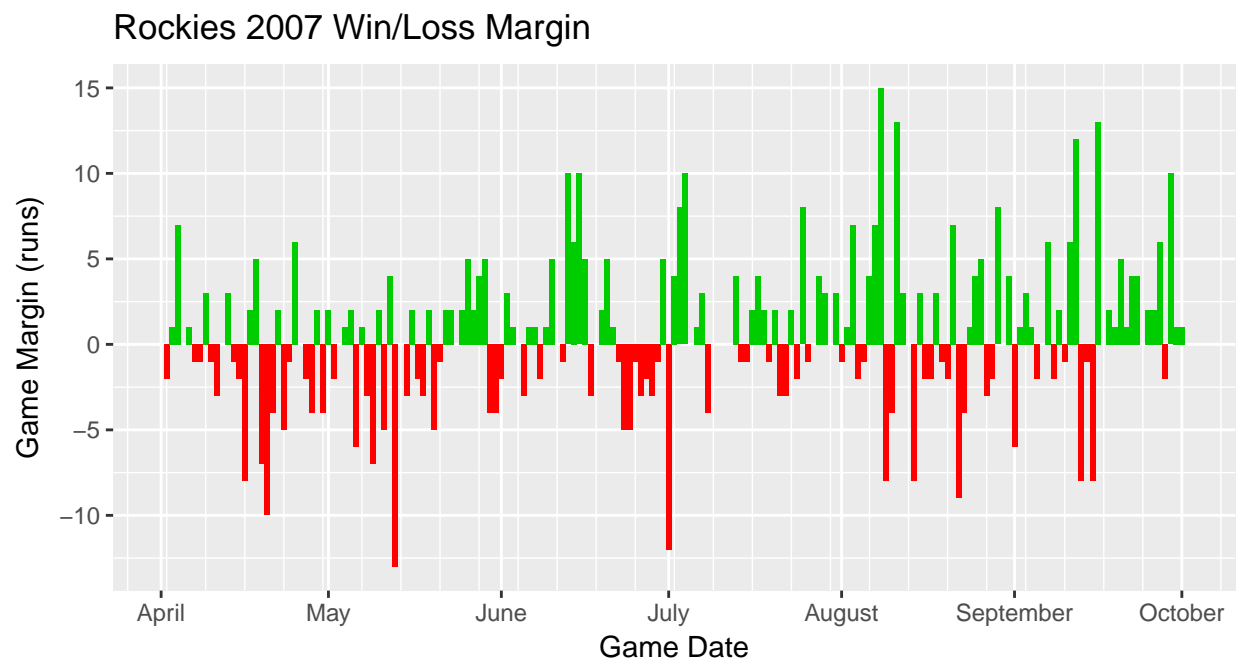
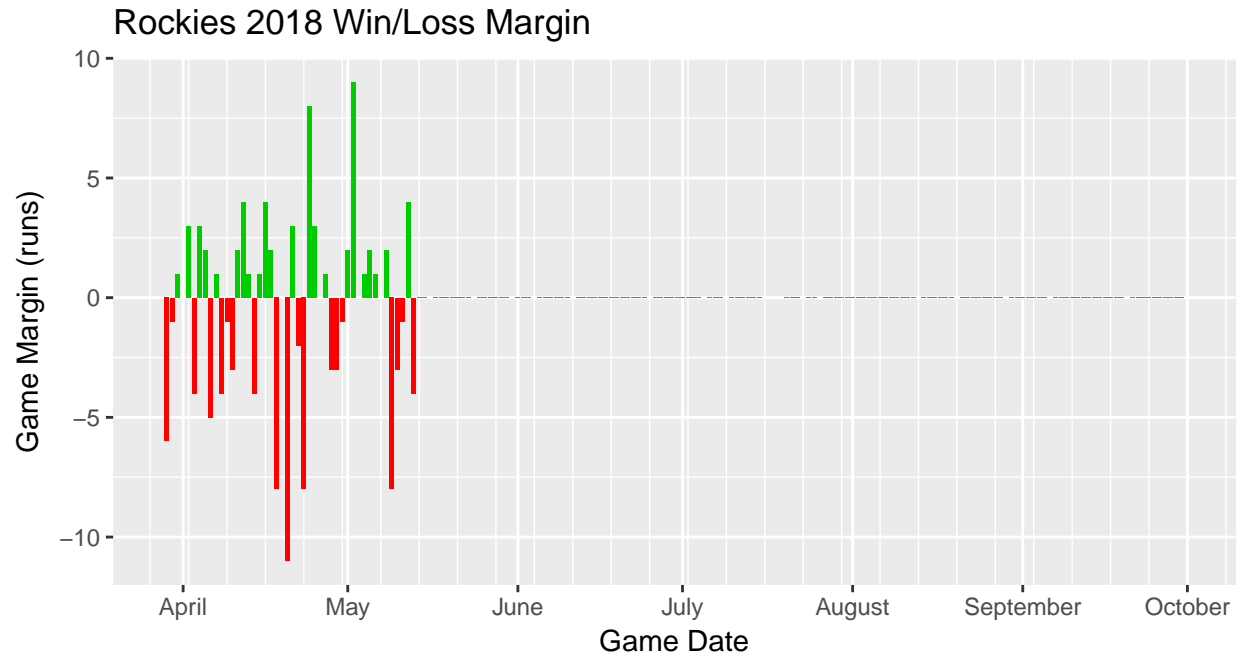
This year Tebow has moved up to Double A ball and is playing for the **Binghamton Rumble Ponies**. He hit a three-run homer in his debut at-bat for the Double A Rumble Ponies. To his deniers, yes, he is thirty years old and no, he hasn't played baseball in a while, but he has an amazing attitude and the fans like to come out to see the lefty play.

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.



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	1.6
2	Kyle Freeland	25	1.6
3	Adam Ottavino	32	1.3
4	DJ LeMahieu	29	1.2
5	Nolan Arenado	27	1.1
6	Trevor Story	25	1.1
7	Jon Gray	26	0.9
8	Tyler Anderson	28	0.7
9	Wade Davis	32	0.6
10	David Dahl	24	0.4
11	Charlie Blackmon	31	0.2
12	German Marquez	23	0.2

National League Standings

Table 4: NL East Standings

Tm	W	L	W-L%	GB
Atlanta Braves	24	15	.615	–
Philadelphia Phillies	23	16	.590	1.0
Washington Nationals	24	18	.571	1.5
New York Mets	19	18	.514	4.0
Miami Marlins	14	26	.350	10.5

Table 5: NL Central Standings

Tm	W	L	W-L%	GB
Milwaukee Brewers	24	17	.585	–
St. Louis Cardinals	22	16	.579	0.5
Pittsburgh Pirates	23	17	.575	0.5
Chicago Cubs	21	16	.568	1.0
Cincinnati Reds	14	27	.341	10.0

Table 6: NL West Standings

Tm	W	L	W-L%	GB
Arizona Diamondbacks	24	16	.600	–
Colorado Rockies	22	19	.537	2.5
San Francisco Giants	20	21	.488	4.5
Los Angeles Dodgers	16	24	.400	8.0
San Diego Padres	16	26	.381	9.0

American League Standings

Table 7: AL East Standings

Tm	W	L	W-L%	GB
Boston Red Sox	28	12	.700	–
New York Yankees	28	12	.700	–
Toronto Blue Jays	21	20	.512	7.5
Tampa Bay Rays	16	22	.421	11.0
Baltimore Orioles	13	28	.317	15.5

Table 8: AL Central Standings

Tm	W	L	W-L%	GB
Cleveland Indians	20	19	.513	–
Minnesota Twins	17	19	.472	1.5
Detroit Tigers	17	22	.436	3.0
Kansas City Royals	13	27	.325	7.5
Chicago White Sox	10	27	.270	9.0

Table 9: AL West Standings

Tm	W	L	W-L%	GB
Houston Astros	26	16	.619	–
Los Angeles Angels	24	16	.600	1.0
Seattle Mariners	22	17	.564	2.5
Oakland Athletics	19	21	.475	6.0
Texas Rangers	16	26	.381	10.0

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	-
24	Mon	Apr 23	H	SDP	L	5	13	Erlin	McGee		N	-
25	Tue	Apr 24	H	SDP	W	8	0	Freeland	Lauer		N	+
26	Wed	Apr 25	H	SDP	W	5	2	Gray	Ross		D	++
27	Fri	Apr 27	A	MIA	W	1	0	Senzatela	Urena	Davis	N	+++
28	Sat	Apr 28	A	MIA	L	1	4	Chen	Marquez	Barracough	N	-
29	Sun	Apr 29	A	MIA	L	0	3	Smith	Bettis	Ziegler	D	-
30	Mon	Apr 30	A	CHC	L	2	3	Farrell	Freeland	Cishek	N	—
31	Tue	May 1	A	CHC	W	3	1	Gray	Hendricks	Davis	N	+
32	Wed	May 2	A	CHC	W	11	2	Anderson	Darvish		D	++
33	Fri	May 4	A	NYM	W	8	7	Marquez	Wheeler	Davis	N	+++
34	Sat	May 5	A	NYM	W	2	0	Bettis	Matz	Davis	N	++++
35	Sun	May 6	A	NYM	W	3	2	Freeland	Robles	Ottavino	D	+++++
36	Tue	May 8	H	LAA	W	4	2	Gray	Heaney	Davis	N	+++++
37	Wed	May 9	H	LAA	L	0	8	Barria	Anderson		D	-
38	Thu	May 10	H	MIL	L	2	5	Chacin	Marquez	Jeffress	N	-
39	Fri	May 11	H	MIL	L	10	11	Jeffress	McGee	Hader	N	—
40	Sat	May 12	H	MIL	W	4	0	Freeland	Suter		N	+
41	Sun	May 13	H	MIL	L	3	7	Peralta	Gray		D	-

The Rockies current record is 22 Wins and 19 Losses. So far, the Rockies have scored 165 runs and have had 185 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 11: Predicted Wins for Entire 2017 Season

Wins (k=1.81)	Wins (k=1.83)	Wins (k=2.00)
73	73	72

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	26	92	11	21	4	0	4	11	0	0	11
2	1B	Desmond	32	39	141	14	24	6	1	6	17	3	1	6
3	2B	LeMahieu	29	32	129	20	36	8	0	5	13	3	1	14
4	SS	Story	25	41	145	20	34	7	3	10	32	7	0	19
5	3B	Arenado	27	36	131	22	41	8	2	8	22	1	1	21
6	LF	Parra*	31	36	114	15	31	6	0	1	7	4	1	9
7	CF	Blackmon*	31	36	138	31	38	4	1	11	21	3	1	20
8	RF	Gonzalez*	32	28	93	9	21	3	1	4	13	2	1	6
9	C	Wolters*	26	21	55	4	8	0	0	2	7	1	0	8
10	IF	Valaika	25	28	58	2	6	3	0	0	1	0	0	5
11	CI	McMahon*	23	28	50	3	9	1	0	0	3	0	0	10
12	OF	Dahl*	24	18	53	5	17	2	2	2	7	1	1	4
13	OF	Cuevas	26	16	34	2	11	0	0	0	0	0	0	2
14	OF	Tauchman*	27	15	23	2	1	0	0	0	0	1	0	3
15	2B	Castro	25	7	21	0	3	0	0	0	3	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	27	.228	.324	.402	.726	86	37	5	2	1	0	1
2	1B	Desmond	32	41	.170	.213	.355	.568	43	50	4	2	0	1	0
3	2B	LeMahieu	29	21	.279	.350	.457	.807	106	59	3	0	0	0	0
4	SS	Story	25	53	.234	.331	.531	.862	117	77	2	3	0	2	0
5	3B	Arenado	27	33	.313	.405	.588	.993	152	77	3	0	0	1	3
6	LF	Parra*	31	17	.272	.325	.351	.676	74	40	3	0	1	0	1
7	CF	Blackmon*	31	34	.275	.375	.558	.933	136	77	2	2	0	0	1
8	RF	Gonzalez*	32	26	.226	.267	.409	.676	71	38	0	0	0	2	1
9	C	Wolters*	26	15	.145	.273	.255	.527	37	14	1	2	0	1	0
10	IF	Valaika	25	16	.103	.175	.155	.330	-14	9	2	0	1	0	0
11	CI	McMahon*	23	22	.180	.317	.200	.517	37	10	0	0	0	0	1
12	OF	Dahl*	24	20	.321	.379	.547	.926	135	29	0	1	0	0	0
13	OF	Cuevas	26	4	.324	.378	.324	.702	83	11	0	1	0	0	0
14	OF	Tauchman*	27	11	.043	.154	.043	.197	-46	1	0	0	1	0	0
15	2B	Castro	25	1	.143	.143	.143	.286	-26	3	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	4	5	.444	4.85	9	9	0	0	0	0	52.0	56	29
2	SP	Bettis	29	4	1	.800	3.12	8	8	0	0	0	0	49.0	42	17
3	SP	Freeland*	25	3	4	.429	3.42	8	8	0	0	0	0	47.1	39	18
4	SP	Marquez	23	2	4	.333	5.35	8	8	0	0	0	0	38.2	46	26
5	SP	Anderson*	28	2	1	.667	4.23	8	8	0	0	0	0	38.1	34	20
6	CL	Davis	32	0	0		3.12	18	0	16	0	0	14	17.1	11	6
7	RP	Ottavino	32	3	0	1.000	1.23	21	0	7	0	0	1	22.0	6	3
8	RP	Shaw	30	1	1	.500	5.30	22	0	2	0	0	0	18.2	20	11
9	RP	McGee*	31	0	2	.000	5.52	18	0	3	0	0	0	14.2	12	10
10	RP	Dunn*	33	0	0		9.64	13	0	3	0	0	0	9.1	12	10
11		Senzatela	23	2	1	.667	6.23	10	0	2	0	0	0	17.1	23	13
12		Rusin*	31	0	0		5.94	11	0	1	0	0	0	16.2	14	11
13		Oberg	28	1	0	1.000	6.55	10	0	3	0	0	0	11.0	12	8
14		Musgrave*	26	0	0		1.59	4	0	1	0	0	0	5.2	3	1
15		Pounders	27	0	0		3.60	4	0	3	0	0	0	5.0	7	2

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	28	6	12	1	59	1	0	3	221	95	3.13	1.308
2	SP	Bettis	17	5	17	0	30	1	1	2	197	147	4.35	1.204
3	SP	Freeland*	18	5	17	0	44	0	0	0	195	134	3.74	1.183
4	SP	Marquez	23	4	19	2	38	3	0	1	182	86	4.23	1.681
5	SP	Anderson*	18	7	17	0	40	0	0	3	161	109	4.77	1.330
6	CL	Davis	6	2	6	0	21	0	0	1	67	149	3.26	0.981
7	RP	Ottavino	3	1	9	0	38	2	0	2	80	377	1.78	0.682
8	RP	Shaw	11	3	10	0	19	0	0	3	82	88	4.81	1.607
9	RP	McGee*	9	2	5	0	13	1	0	0	61	84	4.38	1.159
10	RP	Dunn*	10	1	8	0	6	0	0	0	46	49	5.83	2.143
11		Senzatela	12	2	6	0	14	1	0	0	81	75	4.24	1.673
12		Rusin*	11	4	9	0	13	0	0	1	70	78	6.33	1.380
13		Oberg	8	0	5	0	10	2	0	0	52	72	3.24	1.545
14		Musgrave*	1	1	3	0	2	0	0	0	23	304	6.32	1.059
15		Pounders	2	0	0	0	6	1	0	0	21	135	1.35	1.400

* - 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
ATL	40	27.9	5.46	39	1569	1397	213	376	81	7	49	203	31	11	135	308
CHC	33	26.8	5.41	37	1489	1312	200	335	71	14	44	190	13	5	131	309
PIT	31	28.3	5.03	40	1545	1372	201	358	69	10	48	192	17	12	137	311
PHI	31	26.5	4.72	39	1493	1294	184	313	64	6	43	178	21	10	167	378
WSN	36	28.5	4.50	42	1628	1411	189	339	68	3	54	179	35	11	178	340
LgAvg	35	28.2	4.32	40	1534	1357	172	327	64	7	43	164	21	9	142	353
STL	34	28.5	4.29	38	1479	1287	163	296	49	2	49	157	19	14	147	343
LAD	37	27.9	4.28	40	1580	1388	171	332	75	11	36	159	12	7	151	351
NYM	37	29.3	4.14	37	1424	1252	153	292	54	7	37	149	15	7	137	334
ARI	33	29.0	4.10	40	1507	1334	164	300	65	14	43	159	25	9	146	390
CIN	36	27.5	4.10	41	1593	1397	168	341	68	4	37	163	20	3	153	329
COL	30	28.6	4.02	41	1525	1355	165	313	54	10	53	158	26	7	140	379
SFG	35	30.5	3.93	41	1560	1410	161	355	66	6	41	153	19	7	123	392
MIL	39	28.5	3.90	41	1543	1383	160	335	65	2	45	149	27	9	132	363
SDP	36	27.3	3.71	42	1565	1402	156	318	62	10	36	145	23	11	135	416
MIA	35	28.0	3.45	40	1513	1359	138	308	49	4	31	129	9	7	120	351

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
ATL	40	27.9	5.46	0.269	0.337	0.442	0.780	113	618	24	14	12	11	13	285
CHC	33	26.8	5.41	0.255	0.334	0.431	0.765	104	566	17	27	12	6	11	284
PIT	31	28.3	5.03	0.261	0.331	0.431	0.762	108	591	20	14	6	15	14	273
PHI	31	26.5	4.72	0.242	0.331	0.400	0.732	101	518	36	12	7	12	9	274
WSN	36	28.5	4.50	0.240	0.330	0.408	0.737	99	575	27	16	11	12	17	308
LgAvg	35	28.2	4.32	0.241	0.318	0.394	0.712	94	535	28	15	10	10	9	280
STL	34	28.5	4.29	0.230	0.315	0.385	0.701	93	496	28	19	13	13	5	262
LAD	37	27.9	4.28	0.239	0.320	0.387	0.707	95	537	30	19	10	12	11	299
NYM	37	29.3	4.14	0.233	0.314	0.376	0.690	92	471	29	16	7	12	10	255
ARI	33	29.0	4.10	0.225	0.304	0.391	0.695	83	522	23	9	9	9	6	260
CIN	36	27.5	4.10	0.244	0.323	0.378	0.701	91	528	32	15	18	10	7	315
COL	30	28.6	4.02	0.231	0.308	0.403	0.711	81	546	25	13	10	7	8	266
SFG	35	30.5	3.93	0.252	0.314	0.394	0.709	95	556	26	10	7	10	8	298
MIL	39	28.5	3.90	0.242	0.311	0.390	0.700	89	539	35	10	8	10	8	282
SDP	36	27.3	3.71	0.227	0.300	0.362	0.662	85	508	33	14	6	8	4	272
MIA	35	28.0	3.45	0.227	0.297	0.337	0.634	80	458	32	19	8	5	7	274

Table 18: Rockies Current Injuries

Name	Updated	Type	Details
Carlos Estevez	April 23 2018	Oblique	Estevez has been shifted to the 60-day disabled list due to a left oblique strain but is likely to return during the latter part of May.
Carlos Gonzalez	May 13 2018	Undisclosed	Gonzalez was a late scratch from the last game for undisclosed reasons and his status is unclear for Sunday's matchup against the Brewers.
Chris Iannetta	May 13 2018	Rest	Iannetta is not expected to be in the starting lineup Sunday against the Brewers due to a routine day off.
Zac Rosscup	May 01 2018	Finger	Rosscup has been shifted to the 60-day disabled list dealing with warts on his left middle finger and is likely to stay on the DL until at least the end of May.

Current Injuries

Run date time: 2018-05-14 13:37:55