"PROOF OF PRINCIPLE" FOR SITUATIONAL UNDERLYING VALUE (SUV) – A Statistic to Measure Clutch Performance by Individuals in the Team Sports of Major League Baseball, Professional Football (NFL) and NCAA Men's College Basketball

Raymond HV Gallucci, PhD, PE; gallucci@localnet.com; r_gallucci@verizon.net

NOTE: Due to size limitations, this has been published in three separate parts, with the abstract and references to all three parts included with each. This is Part 1, directed exclusively to Major League Baseball.

In Situational Underlying Value for Baseball, Football and Basketball – A Statistic (SUV) to Measure Individual Performance in Team Sports, an all-encompassing, overall statistic to measure "clutch" performance by individual players in the team sports of major league baseball, professional football (NFL), and NCAA men's college basketball was developed, called "Situational Underlying Value" (SUV). This work supplements and extends the development and initial demonstrations of the use of the SUV statistic for these three team sports by tracking the performance of three specific teams in these three sports over a significant portion of their most recent seasons: (1) for major league baseball, 54 of the 162 games played by the Seattle Mariners in 2017; (2) for professional football, five of the 16 games played by the Seattle Seahawks in 2017; and (3) for NCAA Men's College Basketball, the five games played by the Loyola of Chicago Ramblers in the 2018 NCAA Division I Men's Basketball Tournament. The SUV statistics for the players who participated in these games are tracked and accumulated for comparison among themselves and, for those who participated in a significant portion of these games, further compared against the traditional statistics for each team over the entire season (or, in the case of the Loyola of Chicago Ramblers, the complete five games of the Basketball Tournament). The goal is to examine the efficacy of this one overarching statistic, the SUV, in representing player performance "in the clutch" vs. more subjective interpretation of the myriad of different "traditional" statistics currently used. Anomalies between the SUV and "traditional" statistics results are examined and explained, to the extent practicable given the scope of the SUV analysis (partial seasons). Whether or not this effort proves successful is left to the reader's conclusion based on the results and comparisons performed.

SITUATIONAL UNDERLYING VALUE (SUV) STATISTIC FOR MAJOR LEAGUE BASEBALL – PROOF OF PRINCIPLE

Raymond HV Gallucci, PhD, PE; gallucci@localnet.com; r_gallucci@verizon.net

In Situational Underlying Value for Baseball, Football and Basketball – A Statistic (SUV) to Measure Individual Performance in Team Sports, an all-encompassing, overall statistic to measure "clutch" performance by individual players in the team sports of major league baseball, professional football, and NCAA men's college basketball was developed, called "Situational Underlying Value" (SUV). [1] Based on the concept of "run expectancy," it assigns an SUV to each base as a function of the number of outs, including a negative value for making an out. It can be used for both hitters and pitchers, with the higher the SUV (i.e., the more positive or less negative) reflecting better productivity for hitters and the lower the SUV (i.e., the more negative or less positive) reflecting likewise for pitchers. Its derivation is explained in Reference 1; reproduced here is the SUV table for major league baseball (variations for the American and National League are also discussed there to reflect the use of the designated hitter by the former, but will not be addressed here). For example, a double is worth 0.63, 0.44, or 0.23, respectively, with none, one or two outs when it occurs. Making the first, second or third out deducts 0.23, 0.16, or 0.10, respectively. Advancing base runners without additional outs always improves the SUV, attributable to the hitter if a direct result of his action (e.g., another hit) or the runner (e.g., stolen base or wild pitch). "Unearned" plays, such as errors, passed balls, or catcher's interference, are tracked separately and the corresponding SUVs are not assigned to the individuals. Pinch runners also are not tracked unless they themselves are responsible for advancing (e.g., stolen base or wild pitch) or making an out (e.g., being picked off or thrown out trying to take an extra base).

base→ outs↓	3	2	1	0
0	0.87	0.63	0.39	-0.23
1	0.68	0.44	0.22	-0.16
2	0.29	0.23	0.12	-0.10

Reference 1 provides two example games to show how the SUVs accrue for each team's hitters and pitchers. The goal of this work, the "Proof of Principle," is to track the performance of an individual team over a substantial portion of an entire season. One-third of the 2017 season, i.e., 54 games, have been selected for the Seattle Mariners, starting with Game 002 and tracking every third game up through Game 161. The SUVs are based on the play-by-play descriptions provided in "Baseball Reference," https://www.baseball-reference.com/. [2] While the SUV analyses for all 54 games are provided below, with a roll-up of cumulative SUVs every six games, the actual play-by-plays are only included for three particular games, particularly illustrative. For the rest, the reader should consult Reference 2. Below is an example of one such analysis. It should be read as follows:

Each hitter from Segura through Valencia had the number of "opportunities" totaled in the "Ops" column, i.e., appearances at the plate as a hitter which resulted in an outcome for that hitter (or the rare case where a pinch runner made a direct change himself to the SUV). His total SUV for the game is shown in the "SUV" column, with his average SUV per Opportunity for the game calculated in the "Avg" column. For example, Cano had five opportunities with a total SUV of

2.10, for an Average of 2.10/5 = 0.420, indicating a productive day where each appearance was worth 0.420 on average. The next three columns are labeled similarly, but include a "+" symbol to indicate that these are cumulative for the season through this game. The row "SUV" shows the total per inning (always the number of runs minus 0.49, including the "unearned" SUV), followed by the totals for Ops and SUV for the game (42 and 1.42 in this example), the Average per Op for the team for the game (1.42/34 = 0.034 for this example), and the cumulatives for these through this game (1909, 12.74, and 12.74/1909 = 0.007, respectively). Anything highlighted in yellow indicates an SUV attributable to an error, passed ball (PB), or catcher's interference (CI), which is tracked for the team, but not the individual player (although it is highlighted for that player even though not included in his SUV). For the Mariners in this game, there was an "unearned" SUV of 0.17 in the seventh inning, involving both Gamel and Heredia. The game and cumulative totals for these (0.17 and 12.23 in this example) are also tracked. Finally, the total SUVs for the game (1.59, based on the Mariners scoring six runs over nine innings, i.e., 6 – [9][0.49] = 1.59, equal to 1.42 + 0.17 = 1.59) and cumulatively (12.74 + 12.23 = 24.97) are highlighted in **bold red**. (In the rare case where a hitter batted twice in one inning, this is shown in a bolded box and included both Ops [e.g., see Game 059, June 6, Minnesota-3 @ Seattle-12; Zunino batted twice in the third inning, leading off with a single but also making last out for a total SUV over two Ops of 0.39 – 0.10 = 0.29].)

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	0.39		-0.16		0.12		0.44	-0.48		5	0.31	0.062	178	3.83	0.022
Haniger	-0.40		1.00		-0.22		-0.47	-0.22		5	-0.31	-0.062	129	3.67	0.028
Cano	0.44		-0.10			0.39	1.60		-0.23	5	2.10	0.420	200	9.39	0.047
Cruz	-0.92			1.00		0.63	0.23		-0.16	5	0.78	0.156	198	12.12	0.061
Seager		-0.23		-0.23		0.87	0.29		0.12	5	0.82	0.164	200	11.52	0.058
Alonso		0.22		-0.16		-0.99	-0.74			4	-1.67	-0.418	41	2.05	0.050
Ruiz									-0.22	1	-0.22	-0.220	52	-4.32	-0.083
Zunino		-0.26		-0.10		-0.39		0.63		4	-0.12	-0.030	126	-9.12	-0.072
Gamel		-0.22			-0.23		0.39	1.00		4	0.94	0.235	164	1.97	0.012
Heredia			-0.23		-0.16		-0.40			3	-0.79	-0.263	142	-5.34	-0.038
Valencia								-0.42		1	-0.42	-0.420	157	-0.28	-0.002
SUV	-0.49	-0.49	0.51	0.51	-0.49	0.51	1.51	0.51	-0.49	42	1.42	0.034	1909	12.74	0.007
Error/PB/CI							0.17				0.17	1.59		12.23	24.97

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Hernandez	-0.49	-0.49	-0.49	3.11						3.33	1.64	0.492	27.00	0.06	0.002
Albers				2.40	-0.49	1.02				1.67	2.93	1.758	13.67	3.38	0.247
Lawrence						-0.51	-0.49			2.00	-1.00	-0.500	11.33	-4.47	-0.394
Simmons								-0.49		1.00	-0.49	-0.490	3.00	-1.73	-0.577
Diaz									-0.49	1.00	-0.49	-0.490	19.67	2.07	0.105
SUV	-0.49	-0.49	-0.49	6.51	-0.49	0.51	-0.49	-0.49	-0.49	9.00	2.59	0.288	444.67	10.08	0.023
Error/PB/CI				1.00							1.00	3.59		14.97	25.05

The SUVs are similarly tracked for the pitchers, although not by individual hitter faced unless the pitcher worked only part of an inning (Hernandez and Albers in the fifth, Albers and Lawrence in the sixth). Each pitcher's "Innings Pitched" ("IP" column) are tracked for the game along with his SUV ("SUV" column) and Average per inning pitched ("Avg" column). For example, Hernandez pitched 3.33 innings, with a total SUV of 1.64 for an Average per IP of 1.64/3.33 = 0.492, not a very productive outing. The pitcher's cumulative totals for these are tracked in the last three columns with the "+" symbols. The "SUV" row shows the totals per inning, again amounting to the number of runs yielded, including the "unearned" SUV tracked below in yellow, minus 0.49. The totals for IP and SUV follow, with the team's Average per IP next, and finally the cumulatives for these three. As can be seen, the fourth inning was particularly bad for the Mariners, yielding seven runs with an SUV of 7 – 0.49 = 6.51, of which 1.00 was attributed to the "unearned" variety (while Hernandez was pitching, and not counted against him). The opponent scored

a total of eight runs, for a total SUV = 8 – (9)(0.49) = 3.59, shown in **bold red**, of which 1.00 was "unearned" (equal to 2.59 + 1.00 = 3.59). Cumulatives for these follow (10.08 and 14.97 ["unearned] for a total of 25.05, shown in **bold red**).

This is the pattern followed for each game (except the first, for which there is no cumulative shown). Below is a list of the 54 games analyzed, followed by the analyses for each of the 54 games (plus roll-ups for every six games).

Game #	Date	Opponent				Mariners		
		Team	Innings	Runs	SUV	Innings	Runs	SUV
002	4-Apr	@Houston	8.00	2	-1.92	9.00	1	-3.41
005	7-Apr	@Angels	8.00	5	1.08	9.00	1	-3.41
008	10-Apr	Houston	9.00	0	-4.41	8.00	6	2.08
011	14-Apr	Texas	9.00	1	-3.41	8.00	2	-1.92
014	17-Apr	Miami	9.00	1	-3.41	8.00	6	2.08
017	20-Apr	@Oakland	8.00	9	5.08	9.00	6	1.59
020	23-Apr	@Oakland	9.00	1	-3.41	9.00	11	6.59
023	26-Apr	@Detroit	9.00	1	-3.41	9.00	2	-2.41
026	30-Apr	@Cleveland	8.00	12	8.08	9.00	4	-0.41
029	4-May	Angels	9.00	3	-1.41	8.00	11	7.08
032	7-May	Texas	9.00	3	-1.41	8.00	4	0.08
035	11-May	@Toronto	8.00	7	3.08	9.00	2	-2.41
038*	14-May	@Toronto	8.67	3	-1.31	9.00	2	-2.41
041	17-May	Oakland	9.00	0	-4.41	8.00	4	0.08
044	20-May	White Sox	9.00	16	11.59	9.00	1	-3.41
047	24-May	@Washington	8.00	5	1.08	9.00	1	-3.41
050	27-May	@Boston	8.00	6	2.08	9.00	0	-4.41
053	30-May	@Colorado	9.00	4	-0.41	9.00	10	5.59
056	2-Jun	Tampa Bay	9.00	4	-0.41	8.00	12	8.08
059	6-Jun	Minnesota	9.00	3	-1.41	8.00	12	8.08
062	9-Jun	Toronto	9.00	2	-2.41	8.00	4	0.08
065	12-Jun	@Minnesota	9.00	3	-1.41	9.00	14	9.59
068	15-Jun	@Minnesota	8.00	6	2.08	9.00	2	-2.41
071	18-Jun	@Texas	9.00	3	-1.41	9.00	7	2.59
074	21-Jun	Detroit	9.00	5	0.59	8.00	7	3.08
077	24-Jun	Houston	9.00	5	0.59	9.00	2	-2.41
080	28-Jun	Philadelphia	9.00	5	0.59	9.00	4	-0.41
083	2-Jul	@Angels	9.00	3	-1.41	9.00	5	0.59
086	5-Jul	Kansas City	10.00	9	4.10	10.00	6	1.10
089	8-Jul	Oakland	9.00	4	-0.41	9.00	3	-1.41
092	15-Jul	@White Sox	9.00	3	-1.41	9.00	4	-0.41
095	18-Jul	@Houston	8.00	6	2.08	9.00	2	-2.41
098	21-Jul	Yankees	9.00	5	0.59	9.00	1	-3.41
101	24-Jul	Boston	9.00	0	-4.41	8.00	4	0.08
104	28-Jul	Mets	9.00	7	2.59	9.00	5	0.59
107	31-Jul	@Texas	9.00	4	-0.41	9.00	6	1.59
110	3-Aug	@Kansas City	8.00	6	2.08	9.00	4	-0.41
113	6-Aug	@Kansas City	8.00	9	5.08	9.00	1	-3.41
116	10-Aug	Angels	9.00	6	1.59	9.00	3	-1.41
119	13-Aug	Angels	9.00	4	-0.41	9.00	2	-2.41
122	16-Aug	Baltimore	9.00	6	1.59	8.00	7	3.08
125	20-Aug	@Tampa Bay	8.00	3	-0.92	9.00	0	-4.41
128	23-Aug	@Atlanta	9.00	6	1.59	9.00	9	4.59
131	27-Aug	@Yankees	8.00	10	6.08	9.00	1	-3.41
134	30-Aug	@Baltimore	8.00	8	4.08	9.00	7	2.59
137	3-Sep	Oakland	9.00	2	-2.41	8.00	10	6.08
140	6-Sep	Houston	9.00	5	0.59	9.00	3	-1.41
143	10-Sep	Angels	9.00	5	0.59	9.00	3	-1.41
146	13-Sep	@Texas	9.00	1	-3.41	9.00	8	3.59
149	16-Sep	@Houston	8.00	8	4.08	9.00	6	1.59
152	20-Sep	Texas	9.00	8	3.59	9.00	6	1.59
155	23-Sep	Cleveland	9.00	11	6.59	9.00	4	-0.41
158	26-Sep	@Oakland	9.00	3	-1.41	9.00	6	1.59
161	30-Sep	@Angels	9.00	4	-0.41	9.00	6	1.59
Totals			**471.67**	**261**	**29.82**	**474.00**	**260**	**27.74**

* Toronto won on a two-out walk-off home run, so SUV adjusted for only two outs in the ninth (i.e., -0.39 instead of -0.49)

GAME 002, APRIL 4, SEATTLE-1 @ HOUSTON-2

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg
Segura	-0.23		-0.10		-0.16		-0.23		-0.37	5	-1.09	-0.218
Haniger	-0.16			0.63	0.00		-0.16		-0.33	5	-0.02	-0.004
Cano	0.23			-0.11	0.23		-0.10			4	0.25	0.063
Cruz	-0.33			-0.62	-0.45			-0.23		4	-1.63	-0.408
Seager		-0.23		0.12		0.39		-0.16		4	0.12	0.030
Valencia		-0.16		0.94		-0.40		0.12		4	0.50	0.125
Martin, L		-0.10		0.00		-0.26		-0.22		4	-0.58	-0.145
Zunino			-0.23	-0.74		0.23			-0.23	4	-0.97	-0.243
Dyson			-0.16		-0.23	-0.45			0.44	4	-0.40	-0.100
SUV	-0.49	-0.49	-0.49	0.51	-0.49	-0.49	-0.49	-0.49	-0.49	38	-3.82	-0.101
Error/PB/CI				0.29	0.12						0.41	-3.41

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg
Iwakuma	-0.88	-0.49	0.51	-0.49	-0.49	0.51				6.00	-1.33	-0.222
Scribner							-0.16			0.67	-0.16	-0.240
Rzepczynski							-0.33			0.33	-0.33	-0.990
Altaville								-0.49		1.00	-0.49	-0.490
SUV	-0.49	-0.49	0.51	-0.49	-0.49	0.51	-0.49	-0.49	0.00	8.00	-2.31	-0.289
Error/PB/CI	0.39										0.39	-1.92

GAME 005, APRIL 7, SEATTLE-1 @ L.A. ANGELS-5

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	0.50		-0.26			-0.16	-0.45			4	-0.37	-0.093	9	-1.46	-0.162
Haniger	-0.40		-0.22			0.12		-0.23		4	-0.73	-0.183	9	-0.75	-0.083
Cano	-0.26			-0.23		0.29		-0.16		4	-0.36	-0.090	8	-0.11	-0.014
Cruz	-0.33			-0.16		1.00		-0.10		4	0.41	0.103	8	-1.22	-0.153
Seager		-0.23		-0.10		-0.51			-0.23	4	-1.07	-0.268	8	-0.95	-0.119
Valencia		-0.16			-0.23		0.39		0.11	4	0.11	0.028	8	0.61	0.076
Martin, L		-0.10			-0.16		0.63		-0.26	4	0.11	0.028	8	-0.47	-0.059
Zunino			0.39		-0.10		-0.59		-0.33	4	-0.63	-0.158	8	-1.60	-0.200
Heredia			-0.40			-0.23	-0.47			3	-1.10	-0.367			
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	-0.49	-0.49	35	-3.63	-0.104	73	-7.45	-0.102
Error/PB/CI									0.22		0.22	-3.41		0.63	-6.82

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Gallardo	0.51	-0.49	-0.49	-0.49	-0.49	1.39				5.00	-0.06	-0.012			
Fien						-0.88	1.51			2.00	0.63	0.315			
Overton								-0.49		1.00	-0.49	-0.490			
SUV	0.51	-0.49	0.51	-0.49	-0.49	0.51	1.51	-0.49	0.00	8.00	0.08	0.010	16.00	-2.23	-0.139
Error/PB/CI			1.00								1.00	1.08		1.39	-0.84

GAME 008, APRIL 10, HOUSTON-0 @ SEATTLE-6

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		-0.35							2	-0.58	-0.290	11	-2.04	-0.185
Motter					-0.64	-0.47		-0.16		3	-1.27	-0.423			
Haniger	-0.16		-1.16		0.90	1.06		-0.10		5	0.54	0.108	14	-0.21	-0.015
Cano	0.23			0.39	0.22	-0.33				4	0.51	0.128	12	0.40	0.033
Cruz	-0.33			0.63	1.56		0.39			4	2.25	0.563	12	1.03	0.086
Seager		-0.23		0.87	0.06		1.11			4	1.81	0.453	12	0.86	0.072
Valencia		-0.16		-0.78	-0.22		-0.05			4	-1.21	-0.303	12	-0.60	-0.050
Martin, L		-0.10		-0.86		0.63	-0.55			4	-0.88	-0.220	12	-1.35	-0.113
Zunino			0.39	-0.74		0.39	-0.39			4	-0.35	-0.088	12	-1.95	-0.163
Dyson			0.63		0.63	-0.59		-0.23		4	0.44	0.110	8	0.04	0.005
SUV	-0.49	-0.49	-0.49	-0.49	2.51	1.51	0.51	-0.49	0.00	38	1.26	0.033	111	-6.19	-0.056
Error/PB/CI						0.82					0.82	2.08		1.45	-4.74

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Paxton	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49			7.00	-3.43	-0.490			
Altavilla								-0.49		1.00	-0.49	-0.490	2.00	-0.98	-0.490
Scribner									-0.49	1.00	-0.49	-0.490	1.67	-0.65	-0.39
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	9.00	-4.41	-0.490	25.00	-6.64	-0.266
Error/PB/CI											0.00	-4.41		1.39	-5.25

GAME 011, APRIL 14, TEXAS-1 @ SEATTLE-2

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Heredia	-0.23		-0.10		-0.40		0.63			4	-0.10	-0.025	7	-1.20	-0.171
Haniger	0.22			-0.23	-0.26		0.76			4	0.49	0.123	18	0.28	0.016
Cano	0.44			-0.16	-0.22		-0.59			4	-0.53	-0.133	16	-0.13	-0.008
Cruz	-0.92			1.00		0.39	-0.92			4	-0.45	-0.113	16	0.58	0.036
Seager		0.39		0.18		0.63		-0.23		4	0.97	0.243	16	1.83	0.114
Motter		-0.78		0.34		-0.59		-0.16		4	-1.19	-0.298	7	-2.46	-0.351
Valencia		-0.10		0.12		-0.47		-0.10		4	-0.55	-0.138	16	-1.15	-0.072
Zunino			-0.23	-0.74		-0.45				3	-1.42	-0.473	15	-3.37	-0.225
Dyson			-0.16		0.39		0.63			3	0.86	0.287	11	0.90	0.082
SUV	-0.49	-0.49	-0.49	0.51	-0.49	-0.49	0.51	-0.49	0.00	34	-1.92	-0.056	145	-8.11	-0.056
Error/PB/CI											0.00	-1.92		1.45	-6.66

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Hernandez	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	-0.01		7.33	-2.44	-0.333			
Rzepczynski								-0.48		0.67	-0.48	-0.720	1.00	-0.81	-0.810
Diaz									-0.49	1.00	-0.49	-0.490			
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	-0.49	-0.49	9.00	-3.41	-0.379	34.00	-10.05	-0.296
Error/PB/CI											0.00	-3.41		1.39	-8.66

GAME 014, APRIL 17, MIAMI-1 @ SEATTLE-6

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Dyson	0.39	-0.22		0.76		-0.16				4	0.77	0.193	15	1.67	0.111
Haniger	-0.40		0.39	-0.31		-0.10				4	-0.42	-0.105	22	-0.14	-0.006
Cano	1.78		-0.40	0.94			-0.23			4	2.09	0.523	20	1.96	0.098
Cruz	1.00		-0.15	-0.33			-0.16			4	0.36	0.090	20	0.94	0.047
Seager	-0.16		0.12		-0.23		-0.10			4	-0.37	-0.093	20	1.46	0.073
Motter	-0.10		0.29		1.00			-0.23		4	0.96	0.240	11	-1.50	-0.136
Valencia		0.39	-0.74		-0.16			-0.16		4	-0.67	-0.168	20	-1.82	-0.091
Martin, L		-0.40		0.63	-0.10			-0.10		4	0.03	0.007	16	-1.32	-0.083
Zunino		-0.26		-0.42		-0.23				3	-0.91	-0.303	18	-4.28	-0.238
SUV	2.51	-0.49	-0.49	1.51	0.51	-0.49	-0.49	-0.49	0.00	35	1.84	0.053	180	-6.27	-0.035
Error/PB/CI				0.24							0.24	2.08		1.69	-4.58

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Miranda	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49			7.00	-3.43	-0.490			
Vincent								-0.49		1.00	-0.49	-0.490			
Scribner									0.51	1.00	0.51	0.510	2.67	-0.14	-0.053
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	9.00	-3.41	-0.379	43.00	-13.46	-0.313
Error/PB/CI											0.00	-3.41		1.39	-12.07

GAME 017, APRIL 20, SEATTLE-6 @ OAKLAND-9

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Dyson	0.39	0.78			-0.23		-0.16		-0.10	5	0.68	0.136	20	2.35	0.118
Haniger	-0.18	-1.16			-0.16		0.12			4	-1.38	-0.345	26	-1.52	-0.058
Cano	0.78		-0.23		-0.10		-0.22			4	0.23	0.058	24	2.19	0.091
Cruz	-0.26		-0.16			0.63		-0.23		4	-0.02	-0.005	24	0.92	0.038
Seager	-0.22		-0.10			-0.42		-0.16		4	-0.90	-0.225	24	0.56	0.023
Motter		0.63		-0.23		1.56		-0.10		4	1.86	0.465	15	0.36	0.024
Valencia		0.39		-0.16		-0.16			0.63	4	0.70	0.175	24	-1.12	-0.047
Martin, L		-0.35		0.12		-0.10			-0.18	4	-0.51	-0.128	20	-1.83	-0.092
Zunino		1.22		-0.33			-0.23		0.16	4	0.82	0.205	22	-3.46	-0.157
SUV	0.51	1.51	-0.49	-0.49	-0.49	1.51	-0.49	-0.49	0.51	37	1.48	0.040	217	-4.79	-0.022
Error/PB/CI				0.11							0.11	1.59		1.80	-2.99

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Paxton	-0.49	-0.49	1.90	-0.49	1.95					4.33	2.38	0.549	11.33	-1.05	-0.093
Scribner					-0.92	0.51				1.67	-0.41	-0.246	4.33	-0.55	-0.127
Altavilla							2.51			1.00	2.51	2.510	3.00	1.53	0.510
Marshall								-0.49		1.00	-0.49	-0.490	1.00	-0.49	-0.490
SUV	-0.49	-0.49	2.51	-0.49	1.51	0.51	2.51	-0.49	0.00	8.00	3.99	0.499	51.00	-9.47	-0.186
Error/PB/CI			0.61		0.48						1.09	5.08		2.48	-6.99

CUMULATIVES THROUGH 6 GAMES

Mariner	+Ops	+SUV	+Avg
Dyson	20	2.35	0.118
Cano	24	2.19	0.091
Cruz	24	0.92	0.038
Motter	15	0.36	0.024
Seager	24	0.56	0.023
Valencia	24	-1.12	-0.047
Haniger	26	-1.52	-0.058
Martin, L	20	-1.83	-0.092
Zunino	22	-3.46	-0.157
Heredia	7	-1.20	-0.171
Segura	11	-2.04	-0.185
SUV	217	-4.79	-0.022
Error/PB/CI		1.80	-2.99

Pitcher	+IP	+SUV	+Avg
Rzepczynski	1.00	-0.81	-0.810
Miranda	7.00	-3.43	-0.490
Vincent	1.00	-0.49	-0.490
Overton	1.00	-0.49	-0.490
Diaz	1.00	-0.49	-0.490
Marshall	1.00	-0.49	-0.490
Hernandez	7.33	-2.44	-0.333
Iwakuma	6.00	-1.33	-0.222
Fien	2.00	0.63	0.315
Scribner	4.33	-0.55	-0.127
Paxton	11.33	-1.05	-0.093
Gallardo	5.00	-0.06	-0.012
Altavilla	3.00	1.53	0.510
SUV	51.00	-9.47	-0.186
Error/PB/CI		2.48	-6.99

GAME 020, APRIL 23, SEATTLE-11 @ OAKLAND-1

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Dyson	0.63		-0.40	-0.10		-0.45		-0.10		5	-0.42	-0.084	25	1.93	0.077
Haniger	-0.18		0.44		0.39		0.39		0.63	5	1.67	0.334	31	0.15	0.005
Cano	0.54		0.68		-0.40		0.87		-0.42	5	1.27	0.254	29	3.46	0.119
Cruz	-0.26		1.00		-0.26		1.74		1.00	5	3.22	0.644	29	4.14	0.143
Vogelbach	-0.22		-0.86		-0.22		0.39		0.78	5	-0.13	-0.026			
Motter		-0.23	3.36			-0.23	-0.40		0.90	5	3.40	0.680	20	3.76	0.188
Heredia		-0.16	-0.10			0.22	-0.48		-0.76	5	-1.28	-0.256	12	-2.48	-0.207
Freeman		-0.10		-0.23		0.44		-0.23	-0.62	5	-0.74	-0.148			
Zunino			0.39	-0.16		-0.47		-0.16		4	-0.40	-0.100	26	-3.86	-0.148
SUV	0.51	-0.49	4.51	-0.49	-0.49	-0.49	2.51	-0.49	1.51	44	6.59	0.150	261	1.80	0.007
Error/PB/CI											0.00	6.59		1.80	3.60

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Gallardo	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	0.67			6.33	-2.27	-0.358	11.33	-2.33	-0.206
Zych							-0.16			0.67	-0.16	-0.240			
Rzepczynski								-0.49		1.00	-0.49	-0.490	2.00	-1.30	-0.650
Scribner									-0.49	1.00	-0.49	-0.490	5.33	-1.04	-0.195
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	-0.49	9.00	-3.41	-0.379	60.00	-12.88	-0.215
Error/PB/CI											0.00	-3.41		2.48	-10.40

GAME 023, APRIL 26, SEATTLE-2 @ DETROIT-1

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		-0.26		0.12			-0.23		4	-0.60	-0.150	15	-2.64	-0.176
Motter	-0.16		0.23		-0.22			-0.16		4	-0.31	-0.078	24	3.45	0.144
Cano	-0.10		-0.45			-0.23		-0.10		4	-0.88	-0.220	33	2.58	0.078
Cruz		0.63		-0.23		0.00			-0.23	4	0.17	0.043	33	4.31	0.131
Seager		-0.18		-0.16		0.78			0.44	4	0.88	0.220	28	1.44	0.051
Gamel		-0.55		0.12		-0.48			1.00	4	0.09	0.023			
Heredia		-0.39		-0.22			-0.23		-0.37	4	-1.21	-0.303	16	-3.69	-0.231
Ruiz			0.39		-0.23		-0.16			3	0.00	0.000			
Vogelbach									-0.33	1	-0.33	-0.330	6	-0.46	-0.077
Dyson			-0.40		-0.16		-0.10			3	-0.66	-0.220	28	1.27	0.045
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	-0.49	0.51	35	-2.85	-0.081	296	-1.05	-0.004
Error/PB/CI						0.44					0.44	-2.41		2.24	1.19

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Iwakuma	-0.49	-0.49	-0.49	-0.49	-0.49	0.19				5.67	-2.26	-0.399	11.67	-3.59	-0.308
Rzepczynski						-0.22	-0.23			0.67	-0.45	-0.675	2.67	-1.75	-0.656
Zych							-0.26	-0.49		1.67	-0.75	-0.450	2.33	-0.91	-0.390
Diaz									-0.49	1.00	-0.49	-0.490	2.00	-0.98	-0.490
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	-0.49	-0.49	9.00	-3.95	-0.439	69.00	-16.83	-0.244
Error/PB/CI						0.54					0.54	-3.41		3.02	-13.81

GAME 026, APRIL 30, SEATTLE-4 @ CLEVELAND-12

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		-0.10			0.63	-0.16			4	0.14	0.035	19	-2.50	-0.132
Gamel	-0.16			-0.23		0.63	-0.10			4	0.14	0.035	8	0.23	0.029
Cano	-0.10			-0.16		1.00		-0.23		4	0.51	0.128	37	3.09	0.084
Cruz		1.00		-0.10		0.76		0.22		4	1.88	0.470	37	6.19	0.167
Seager		-0.23			-0.23	1.00		-0.48		4	0.06	0.015	32	1.50	0.047
Heredia		0.22			0.44	0.87			-0.23	4	1.30	0.325	20	-2.39	-0.120
Vogelbach		-0.48			0.22				-0.16	3	-0.42	-0.140	9	-0.88	-0.098
Motter						-0.78			-0.10	2	-0.88	-0.440	26	2.57	0.099
Ruiz			-0.23		-0.47	-1.60				3	-2.30	-0.767	6	-2.30	-0.383
Powell			-0.16		-0.45		-0.23			3	-0.84	-0.280			
SUV	-0.49	0.51	-0.49	-0.49	-0.49	2.51	-0.49	-0.49	-0.49	35	-0.41	-0.012	331	-1.46	-0.004
Error/PB/CI											0.00	-0.41		2.24	0.78

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
De Jong	0.51	-0.49	3.73							2.67	3.75	1.406			
Fien			3.78							0.33	3.78	11.340	2.33	4.41	1.890
Overton				-0.49	-0.49	-0.49	2.29	-0.49		5.00	0.33	0.066	6.00	-0.16	-0.027
SUV	0.51	-0.49	7.51	-0.49	-0.49	-0.49	2.51	-0.49	0.00	8.00	7.86	0.983	77.00	-8.97	-0.116
Error/PB/CI							0.22				0.22	8.08		3.24	-5.73

GAME 029, MAY 4, L.A. ANGELS-3 @ SEATTLE-11

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23	-0.45		0.22		0.39		0.39		5	0.32	0.064	24	-2.18	-0.091
Gamel	0.22		0.39	1.22		0.87		1.00		5	3.70	0.740	13	3.93	0.302
Cano	-0.26		-0.40	-0.31		-0.65		-0.59		5	-2.21	-0.442	42	0.88	0.021
Cruz	1.11		-0.26	0.83		-0.10		-0.47		5	1.11	0.222	42	7.30	0.174
Seager	-0.33		0.23	-0.22			-0.23	1.06		5	0.51	0.102	37	2.01	0.054
Valencia		-0.23	1.17		0.39		1.00	0.94		5	3.27	0.654	29	2.15	0.074
Heredia		0.22	1.71		-0.40		0.22	-0.45		5	1.30	0.260	25	-1.09	-0.044
Zunino		0.44	-0.33		-0.26		-0.48			4	-0.63	-0.158	30	-4.49	-0.150
Dyson		-0.47		-0.23	-0.22			0.63		4	-0.29	-0.073	32	0.98	0.031
SUV	0.51	-0.49	2.51	1.51	-0.49	0.51	0.51	2.51	0.00	43	7.08	0.165	374	5.62	0.015
Error/PB/CI											0.00	7.08		2.24	7.86

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Miranda	-0.49	1.45	-0.49	-0.49	-0.49	-0.49	-0.49			7.00	-1.49	-0.213	14.00	-4.92	-0.351
Zych								0.51		1.00	0.51	0.510	3.33	-0.40	-0.120
Overton									-0.49	1.00	-0.49	-0.490	7.00	-0.65	-0.093
SUV	-0.49	1.51	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	9.00	-1.47	-0.163	86.00	-10.44	-0.121
Error/PB/CI		0.06									0.06	-1.41		3.30	-7.14

GAME 032, MAY 7, TEXAS-3 @ SEATTLE-4

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	0.39		0.12		-0.22		1.00			4	1.29	0.323	28	-0.89	-0.032
Gamel	-0.40		-0.22			0.39				3	-0.23	-0.077	16	3.70	0.231
Valencia							1.77			1	1.77	1.770	30	3.92	0.131
Cano	-0.48			0.39		-0.78	-0.51			4	-1.38	-0.345	46	-0.50	-0.011
Cruz		-0.23		-0.40		-0.10		-0.23		4	-0.96	-0.240	46	6.34	0.138
Seager		0.22		-0.26			0.39	1.00		4	1.35	0.338	41	3.36	0.082
Motter		-0.26		-0.22			0.63	-0.16		4	-0.01	-0.003	30	2.56	0.085
Heredia		-0.22			-0.23		-0.35	-0.10		4	-0.90	-0.225	29	-1.99	-0.069
Ruiz			-0.23		-0.16					2	-0.39	-0.195	8	-2.69	-0.336
Freeman							-0.65			1	-0.65	-0.650	6	-1.39	-0.232
Dyson			-0.16		0.12		0.23			3	0.19	0.063	35	1.17	0.033
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	2.51	0.51	0.00	34	0.08	0.002	408	5.70	0.014
Error/PB/CI											0.00	0.08		2.24	7.94

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Overton	0.51	0.51	-0.49	-0.01						3.33	0.52	0.156	10.33	-0.13	-0.013
Bergman				-0.48	-0.49	-0.49	0.51			3.67	-0.95	-0.259			
Vincent								-0.16		0.67	-0.16	-0.240	1.67	-0.65	-0.390
Rzepczynski								-0.33		0.33	-0.33	-0.990	3.00	-2.08	-0.693
Diaz									-0.49	1.00	-0.49	-0.490	3.00	-1.47	-0.490
SUV	0.51	0.51	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	-0.49	9.00	-1.41	-0.157	95.00	-11.85	-0.125
Error/PB/CI											0.00	-1.41		3.30	-8.55

GAME 035, MAY 11, SEATTLE-2 @ TORONTO-7

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	0.63		0.63		-0.16		0.12		-0.10	5	1.12	0.224	33	0.23	0.007
Gamel	-0.42		-0.42		0.12		-0.22			4	-0.94	-0.235	20	2.76	0.138
Cruz	1.56		-0.37		-0.22			0.63		4	1.60	0.400	50	7.94	0.159
Seager	0.22		-0.33			-0.23		-0.42		4	-0.76	-0.190	45	2.60	0.058
Valencia	-0.26			0.39		-0.16		0.46		4	0.43	0.108	34	4.35	0.128
Motter	-0.22			-0.40		0.12		-0.65		4	-1.15	-0.288	34	1.41	0.041
Freeman		-0.23		-0.26		-0.22		-0.51		4	-1.22	-0.305	10	-2.61	-0.261
Greenwich		-0.16		-0.22			-0.23		-0.23	4	-0.84	-0.210			
Dyson		-0.10			-0.23		-0.16		-0.16	4	-0.65	-0.163	39	0.52	0.013
SUV	1.51	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	37	-2.41	-0.065	445	3.29	0.007
Error/PB/CI											0.00	-2.41		2.24	5.53

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
De Jong	0.51	-0.49	-0.49	-0.49	4.51					5.00	3.55	0.710	7.67	7.30	0.952
Curtis						-0.49				1.00	-0.49	-0.490			
Gaviglio							0.51	-0.49		2.00	0.02	0.010			
SUV	0.51	-0.49	-0.49	-0.49	4.51	-0.49	0.51	-0.49	0.00	8.00	3.08	0.385	103.00	-8.77	-0.085
Error/PB/CI											0.00	3.08		3.30	-5.47

CUMULATIVES THROUGH 12 GAMES

Mariner	+Ops	+SUV	+Avg
Cruz	50	7.94	0.159
Gamel	20	2.76	0.138
Valencia	34	4.35	0.128
Seager	45	2.60	0.058
Motter	34	1.41	0.041
Dyson	39	0.52	0.013
Segura	33	0.23	0.007
Haniger	31	0.15	0.005
Cano	46	-0.50	-0.011
Heredia	29	-1.99	-0.069
Martin, L	20	-1.83	-0.092
Vogelbach	9	-0.88	-0.098
Zunino	30	-4.49	-0.150
Greenwich	4	-0.84	-0.210
Freeman	10	-2.61	-0.261
Powell	3	-0.84	-0.280
Ruiz	8	-2.69	-0.336
SUV	445	3.29	0.007
Error/PB/CI		2.24	5.53

Pitcher	+IP	+SUV	+Avg
Rzepczynski	3.00	-2.08	-0.693
Diaz	3.00	-1.47	-0.490
Marshall	1.00	-0.49	-0.490
Curtis	1.00	-0.49	-0.490
Vincent	1.67	-0.65	-0.390
Miranda	14.00	-4.92	-0.351
Hernandez	7.33	-2.44	-0.333
Iwakuma	11.67	-3.59	-0.308
Bergman	3.67	-0.95	-0.259
Gallardo	11.33	-2.33	-0.206
Scribner	5.33	-1.04	-0.195
Zych	3.33	-0.40	-0.120
Paxton	11.33	-1.05	-0.093
Overton	10.33	-0.13	-0.013
Gaviglio	2.00	0.02	0.010
Altavilla	3.00	1.53	0.510
De Jong	7.67	7.30	0.952
Fien	2.33	4.41	1.890
SUV	103.00	-8.77	-0.085
Error/PB/CI		3.30	-5.47

GAME 038, MAY 14, SEATTLE-2 @ TORONTO-3 (WALK-OFF HOME RUN, 2 OUTS)

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		-0.16		0.90		-0.16			4	0.35	0.088	37	0.58	0.016
Gamel	-0.16		-0.10		-0.55		-0.10			4	-0.91	-0.228	24	1.85	0.077
Cruz	0.12			0.39	-0.39			-0.23		4	-0.11	-0.028	54	7.83	0.145
Seager	-0.22			0.63		-0.23		-0.16		4	0.02	0.005	49	2.62	0.053
Valencia		0.39		-0.59		-0.16		-0.10		4	-0.46	-0.115	38	3.89	0.102
Motter		-0.40		-0.47		0.12			-0.23	4	-0.98	-0.245	38	0.43	0.011
Heredia		-0.15		-0.45		-0.22			-0.16	4	-0.98	-0.245	33	-2.97	-0.090
Dyson		-0.33			-0.23		1.00		-0.10	4	0.34	0.085	43	0.86	0.020
Ruiz			-0.23		0.22		-0.23			3	-0.24	-0.080	11	-2.93	-0.266
SUV	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	0.51	-0.49	-0.49	35	-2.97	-0.085	480	0.32	0.001
Error/PB/CI					0.56						0.56	-2.41		2.80	3.12

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Miranda	-0.49	-0.49	-0.49	-0.49	-0.49	0.39				5.00	-2.06	-0.412	19.00	-6.98	-0.367
Pazos						1.12				1.00	1.12	1.120			
Vincent							-0.49			1.00	-0.49	-0.490	2.67	-1.14	-0.428
Rzepczynski								-0.04		0.67	-0.04	-0.060	3.67	-2.12	-0.578
Zych								-0.45		0.33	-0.45	-1.350	3.67	-0.85	-0.232
Diaz									0.61	0.67	0.61	0.915	3.67	-0.86	-0.235
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	1.51	-0.49	-0.49	0.61	8.67	-1.31	-0.151	111.67	-10.08	-0.090
Error/PB/CI											0.00	-1.31		3.30	-6.78

GAME 041, MAY 17, OAKLAND-0 @ SEATTLE-4

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		-0.23		1.10		-0.23			4	0.41	0.103	41	0.99	0.024
Gamel	0.68		-0.16		0.00		0.22			4	0.74	0.185	28	2.59	0.093
Cruz	0.16		-0.10		0.01		-0.26			4	-0.19	-0.048	58	7.64	0.132
Seager	0.12			-0.23	0.12		-0.22			4	-0.21	-0.053	53	2.41	0.045
Valencia	-0.22			-0.16	-0.51			-0.23		4	-1.12	-0.280	42	2.77	0.066
Motter		-0.23		-0.10		-0.23		-0.16		4	-0.72	-0.180	42	-0.29	-0.007
Powell		0.22			0.39	-0.16		-0.10		4	0.35	0.088	7	-0.49	-0.070
Heredia		-0.26			0.63	0.12				3	0.49	0.163	36	-2.48	-0.069
Gosewisch		-0.22			-0.13	-0.22				3	-0.57	-0.190			
SUV	0.51	-0.49	-0.49	-0.49	2.51	-0.49	-0.49	-0.49	0.00	34	-0.82	-0.024	514	-0.50	-0.001
Error/PB/CI					0.90						0.90	0.08		3.70	3.20

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Bergman	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.01		7.33	-3.44	-0.469	11.00	-4.39	-0.399
Pazos								-0.48	-0.49	1.67	-0.97	-0.582	2.67	0.15	0.056
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	9.00	-4.41	-0.490	120.67	-14.49	-0.120
Error/PB/CI											0.00	-4.41		3.30	-11.19

GAME 044, MAY 20, CHICAGO WHITE SOX-16 @ SEATTLE-1

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23			-0.23		0.16		-0.33		4	-0.63	-0.158	45	0.36	0.008
Gamel	0.22			-0.16		-0.10			0.39	4	0.35	0.088	32	2.94	0.092
Cruz	-0.48			-0.10			-0.23			3	-0.81	-0.270	61	6.83	0.112
Gosewisch									-0.78	1	-0.78	-0.780	4	-1.35	-0.338
Seager		0.39			-0.23		-0.16		-0.10	4	-0.10	-0.025	57	2.31	0.041
Motter		-0.40			0.22		0.12			3	-0.06	-0.020	45	-0.35	-0.008
Heredia		-0.48			-0.26		-0.22			3	-0.96	-0.320	39	-3.44	-0.088
Freeman			-0.23		-0.22			0.39		3	-0.06	-0.020	13	-2.67	-0.205
Ruiz			-0.16			0.63		-0.78		3	-0.31	-0.103	14	-3.24	-0.231
Dyson			-0.10			-0.18				2	-0.28	-0.140	45	0.58	0.013
Powell								0.23		1	0.23	0.230	8	-0.26	-0.033
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	-0.49	-0.49	31	-3.41	-0.110	545	-3.91	-0.007
Error/PB/CI											0.00	-3.41		3.70	-0.21

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Gallardo	2.88	-0.49	0.51	3.02						3.67	5.92	1.615	15.00	3.59	0.239
Overton				1.49	-0.49	-0.49	4.51	-0.49		4.33	4.53	1.045	14.67	4.40	0.300
Freeman									0.51	1.00	0.51	0.510			
SUV	3.51	-0.49	0.51	4.51	-0.49	-0.49	4.51	-0.49	0.51	9.00	10.96	1.218	129.67	-3.53	-0.027
Error/PB/CI	0.63										0.63	11.59		3.93	0.40

GAME 047, MAY 24, SEATTLE-1 @ WASHINGTON-5

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23	-0.45			-0.16		-0.10			4	-0.94	-0.235	49	-0.58	-0.012
Seager	0.44		-0.23		-0.10			-0.23		4	-0.12	-0.030	61	2.19	0.036
Cano	0.78		0.44			-0.23		0.22		4	1.21	0.303	50	0.71	0.014
Valencia	-0.26		-0.37			0.22		-0.26		4	-0.67	-0.168	46	2.10	0.046
Gamel	-0.22		-0.33			0.44				3	-0.11	-0.037	35	2.83	0.081
Motter								-0.22		1	-0.22	-0.220	46	-0.57	-0.012
Heredia		0.39		0.39		-0.41			-0.23	4	0.14	0.035	43	-3.30	-0.077
Zunino		-0.40		-0.78		-0.51			-0.16	4	-1.85	-0.463	34	-6.34	-0.186
Dyson		0.44		-0.10			-0.23		-0.10	4	0.01	0.002	49	0.59	0.012
Pitcher (NL)		-0.47			-0.23					2	-0.70	-0.350			
Powell							-0.16			1	-0.16	-0.160	9	-0.42	-0.047
SUV	0.51	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	35	-3.41	-0.097	580	-7.32	-0.013
Error/PB/CI											0.00	-3.41		3.70	-3.62

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Gaviglio	3.12	0.51	-0.49	-0.49	-0.49	-0.49				6.00	1.67	0.278	8.00	1.69	0.211
Diaz							-0.49			1.00	-0.49	-0.490	4.67	-1.35	-0.289
Vincent								-0.49		1.00	-0.49	-0.490	3.67	-1.63	-0.445
SUV	3.51	0.51	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	0.00	8.00	0.69	0.086	137.67	-2.84	-0.021
Error/PB/CI	0.39										0.39	1.08		4.32	1.48

GAME 050, MAY 27, SEATTLE-0 @ BOSTON-6

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		-0.26		-0.62			-0.16		4	-1.27	-0.318	53	-1.85	-0.035
Valencia	0.22		-0.22			-0.23		-0.10		4	-0.33	-0.083	50	1.77	0.035
Cano	-0.26			-0.23		-0.16			-0.23	4	-0.88	-0.220	54	-0.17	-0.003
Cruz	-0.22			-0.16		-0.10			-0.16	4	-0.64	-0.160	65	6.19	0.095
Seager		-0.23		-0.10			-0.23		-0.10	4	-0.66	-0.165	65	1.53	0.024
Motter		-0.16			-0.23		-0.16			3	-0.55	-0.183	49	-1.12	-0.023
Heredia		-0.10			0.22		0.12			3	0.24	0.080	46	-3.06	-0.067
Zunino			-0.23		-0.26		-0.22			3	-0.71	-0.237	37	-7.05	-0.191
Dyson			0.22		0.40			-0.23		3	0.39	0.130	52	0.98	0.019
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	32	-4.41	-0.138	612	-11.73	-0.019
Error/PB/CI											0.00	-4.41		3.70	-8.03

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Whalen	2.51	-0.49	-0.49	-0.49	-0.49	1.77				5.33	2.32	0.435			
Lawrence						-0.26	-0.49	0.51		2.67	-0.24	-0.090			
SUV	2.51	-0.49	-0.49	-0.49	-0.49	1.51	-0.49	0.51	0.00	8.00	2.08	0.260	145.67	-0.76	-0.005
Error/PB/CI											0.00	2.08		4.32	3.56

GAME 053, MAY 30, SEATTLE-10 @ COLORADO-4

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	0.39	0.18		0.39		-0.40		0.23	-1.16	6	-0.37	-0.062	59	-2.22	-0.038
Valencia	-0.78	-0.51		-0.78		-0.48		0.12		5	-2.43	-0.486	55	-0.66	-0.012
Cano	-0.10		0.39	-0.10			1.00	-0.51		5	0.68	0.136	59	0.51	0.009
Cruz		0.39								1	0.39	0.390	66	6.58	0.100
Gamel			1.11		-0.23		0.87		0.39	4	2.14	0.535	39	4.97	0.127
Seager		1.61	1.13		-0.16		-0.42		0.63	5	2.79	0.558	70	4.32	0.062
Heredia		0.39	0.76		0.12		-0.72		0.87	5	1.42	0.284	51	-1.64	-0.032
Zunino		1.11	-0.40		0.23		-0.22		-0.78	5	-0.06	-0.012	42	-7.11	-0.169
Dyson		-0.42	-0.26		-0.45			-0.23	1.32	5	-0.04	-0.008	57	0.94	0.016
Pitcher (NL)		-0.37	-0.22					-0.16		3	-0.75	-0.250	5	-1.45	-0.290
Powell						0.39				1	0.39	0.390	10	-0.03	-0.003
Motter									1.24	1	1.24	1.240	50	0.12	0.002
SUV	-0.49	2.51	2.51	-0.49	-0.49	-0.49	0.51	-0.49	2.51	46	5.40	0.117	658	-6.33	-0.010
Error/PB/CI		0.13						0.06			0.19	5.59		3.89	-2.44

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Miranda	-0.49	-0.49	-0.49	-0.49	1.51					5.00	-0.45	-0.090	24.00	-7.43	-0.310
Lawrence						-0.49	-0.49	0.73		2.67	-0.25	-0.094	5.33	-0.49	-0.092
Zych								0.23		0.00	0.23		3.67	-0.62	-0.169
Rzepczynski								-0.45		0.33	-0.45	-1.350	4.00	-2.57	-0.643
Altavilla									0.51	1.00	0.51	0.510	4.00	2.04	0.510
SUV	-0.49	-0.49	-0.49	-0.49	1.51	-0.49	-0.49	0.51	0.51	9.00	-0.41	-0.046	154.67	-1.17	-0.008
Error/PB/CI											0.00	-0.41		4.32	3.15

CUMULATIVES THROUGH 18 GAMES

Mariner	+Ops	+SUV	+Avg
Gamel	39	4.97	0.127
Cruz	66	6.58	0.100
Seager	70	4.32	0.062
Dyson	57	0.94	0.016
Cano	59	0.51	0.009
Haniger	31	0.15	0.005
Motter	50	0.12	0.002
Powell	10	-0.03	-0.003
Valencia	55	-0.66	-0.012
Heredia	51	-1.64	-0.032
Segura	59	-2.22	-0.038
Martin, L	20	-1.83	-0.092
Vogelbach	9	-0.88	-0.098
Zunino	42	-7.11	-0.169
Freeman	13	-2.67	-0.205
Greenwich	4	-0.84	-0.210
Ruiz	14	-3.24	-0.231
Pitcher (NL)	5	-1.45	-0.290
Gosewich	4	-1.35	-0.338
SUV	658	-6.33	-0.010
Error/PB/CI		4.76	-1.57

Pitcher	+IP	+SUV	+Avg
Rzepczynski	4.00	-2.57	-0.643
Marshall	1.00	-0.49	-0.490
Curtis	1.00	-0.49	-0.490
Vincent	3.67	-1.63	-0.445
Bergman	11.00	-4.39	-0.399
Hernandez	7.33	-2.44	-0.333
Miranda	24.00	-7.43	-0.310
Iwakuma	11.67	-3.59	-0.308
Diaz	4.67	-1.35	-0.289
Scribner	5.33	-1.04	-0.195
Zych	3.67	-0.62	-0.169
Paxton	11.33	-1.05	-0.093
Lawrence	5.33	-0.49	-0.092
Pazos	2.67	0.15	0.056
Gaviglio	8.00	1.69	0.211
Gallardo	15.00	3.59	0.239
Overton	14.67	4.40	0.300
Whalen	5.33	2.32	0.435
Freeman	1.00	0.51	0.510
Altavilla	4.00	2.04	0.510
De Jong	7.67	7.30	0.952
Fien	2.33	4.41	1.890
SUV	154.67	-1.17	-0.008
Error/PB/CI		4.78	3.61

GAME 056, JUNE 2, TAMPA BAY-4 @ SEATTLE-12

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Gamel	0.39	-0.16		-0.16		0.12	-0.33			5	-0.14	-0.028	44	4.83	0.110
Heredia	0.24	-0.10		-0.10		-0.22		-0.23		5	-0.41	-0.082	56	-2.05	-0.037
Cano	0.39		0.39		-0.23		0.39			4	0.94	0.235	63	1.45	0.023
Smith								0.44		1	0.44	0.440			
Cruz	-0.78		0.63		0.22		1.11			4	1.18	0.295	70	7.76	0.111
Powell								-0.31		1	-0.31	-0.310	11	-0.34	-0.031
Seager	-0.86		-0.35		-0.26		-0.61	-0.39		5	-2.47	-0.494	75	1.85	0.025
Valencia	1.00		2.10		0.40		0.78			4	4.28	1.070	59	3.62	0.061
Motter	3.36		-0.16		-0.62		0.44			4	3.02	0.755	54	3.14	0.058
Dyson	-0.10		-0.10			-0.23	1.56			4	1.13	0.283	61	2.07	0.034
Zunino		-0.23		-0.23		-0.16	0.17			4	-0.45	-0.113	46	-7.56	-0.164
SUV	4.51	-0.49	2.51	-0.49	-0.49	-0.49	3.51	-0.49	0.00	41	7.21	0.176	699	0.88	0.001
Error/PB/CI	0.87										0.87	8.08		4.76	5.64

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Bergman	-0.49	-0.49	-0.49	1.51	-0.49	-0.49				6.00	-0.94	-0.157	17.00	-5.33	-0.314
Pazos							1.51			1.00	1.51	1.510	3.67	1.66	0.453
Altavilla								-0.49	-0.49	2.00	-0.98	-0.490	6.00	1.06	0.177
SUV	-0.49	-0.49	-0.49	1.51	-0.49	-0.49	1.51	-0.49	-0.49	9.00	-0.41	-0.046	163.67	-1.58	-0.010
Error/PB/CI											0.00	-0.41		4.32	2.74

GAME 059, JUNE 6, MINNESOTA-3 @ SEATTLE-12

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Heredia	0.39	-0.10		0.87	0.28		-0.23			5	1.21	0.242	61	-0.84	-0.014
Valencia	0.63		-0.23	1.74	-0.26					4	1.88	0.470	63	5.50	0.087
Smith							-0.16			1	-0.16	-0.160	2	0.28	0.140
Cano	1.98		0.22	0.63	0.34		-0.10			5	3.07	0.614	68	4.52	0.066
Cruz	-0.23		0.44	0.76						3	0.97	0.323	73	8.73	0.120
Powell					-0.62			-0.23		2	-0.85	-0.425	13	-1.19	-0.092
Seager	-0.16		1.46	1.98		-0.23		-0.16		5	2.89	0.578	80	4.74	0.059
Motter	0.23		0.01	-0.23		0.22		-0.10		5	0.13	0.026	59	3.27	0.055
Gamel	-0.33		-0.39	-0.16		0.44				4	-0.44	-0.110	48	4.39	0.091
Zunino		-0.23		0.29		-0.47				4	-0.41	-0.103	50	-7.97	-0.159
Dyson		-0.16		0.63	-0.23	-0.45				4	-0.21	-0.053	65	1.86	0.029
SUV	2.51	-0.49	1.51	6.51	-0.49	-0.49	-0.49	-0.49	0.00	42	8.08	0.192	741	8.96	0.012
Error/PB/CI											0.00	8.08		4.76	13.72

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Paxton	-0.49	-0.49	-0.49	1.51	0.51					5.00	0.55	0.110	16.33	-0.50	-0.031
Zych						-0.49				1.00	-0.49	-0.490	4.67	-1.11	-0.238
Altavilla							-0.49	-0.49		2.00	-0.98	-0.490	8.00	0.08	0.010
Vincent									-0.49	1.00	-0.49	-0.490	4.67	-2.12	-0.454
SUV	-0.49	-0.49	-0.49	1.51	0.51	-0.49	-0.49	-0.49	-0.49	9.00	-1.41	-0.157	172.67	-2.99	-0.017
Error/PB/CI											0.00	-1.41		4.32	1.33

GAME 062, JUNE 9, TORONTO-2 @ SEATTLE-4

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Gamel	-0.23		0.83			-0.16		0.63		4	1.07	0.268	52	5.46	0.105
Heredia	-0.16		-0.22			-0.10		-0.64		4	-1.12	-0.280	65	-1.96	-0.030
Cano	-0.10			-0.23			0.63	-0.15		4	0.15	0.038	72	4.67	0.065
Cruz		-0.23		-0.16			-0.42	0.12		4	-0.69	-0.173	77	8.04	0.104
Seager		-0.16		-0.10			0.22	1.17		4	1.13	0.283	84	5.87	0.070
Valencia		-0.10			-0.23		0.33	-0.62		4	-0.62	-0.155	67	4.88	0.073
Zunino			-0.23		-0.16		0.44			3	0.05	0.017	53	-7.92	-0.149
Dyson			0.50		-0.10		0.76			3	1.16	0.387	68	3.02	0.044
Motter			-0.37			-0.23	-0.45			3	-1.05	-0.350	62	2.22	0.036
SUV	-0.49	-0.49	0.51	-0.49	-0.49	-0.49	1.51	0.51	0.00	33	0.08	0.002	774	9.04	0.012
Error/PB/CI											0.00	0.08		4.76	13.80

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Gaviglio	-0.49	0.27	0.51	-0.49	-0.49	-0.49				6.00	-1.18	-0.197	14.00	0.51	0.036
Cloyd							-0.49			1.00	-0.49	-0.490			
Vincent								-0.49		1.00	-0.49	-0.490	5.67	-2.61	-0.461
Diaz									-0.49	1.00	-0.49	-0.490	5.67	-1.84	-0.325
SUV	-0.49	0.51	0.51	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	9.00	-2.65	-0.294	181.67	-5.64	-0.031
Error/PB/CI		0.24									0.24	-2.41		4.56	-1.08

GAME 065, JUNE 12, SEATTLE-14 @ MINNESOTA-3

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Gamel	0.39	0.68		0.39	0.22		-0.40		-0.23	6	1.05	0.175	58	6.51	0.112
Haniger	0.00	1.78		0.63	-0.26		0.44		0.22	6	2.81	0.468	37	2.96	0.080
Cano	-0.61	0.78		-0.61	-0.22		-0.30		-0.15	6	-1.11	-0.185	78	3.56	0.046
Cruz	1.10	0.06		0.22		0.39	-0.62		1.00	6	2.15	0.358	83	10.19	0.123
Seager	-0.26	-0.22		-0.09		0.87		-0.23	0.89	6	0.96	0.160	90	6.83	0.076
Valencia	-0.22		-0.23	1.00		-0.27		1.00	-0.22	6	1.06	0.177	73	5.94	0.081
Zunino		-0.23	0.22	1.00		-0.26		1.00		5	1.73	0.346	58	-6.19	-0.107
Heredia		0.22	-0.26	-0.51		-0.22		-0.16		5	-0.93	-0.186	70	-2.89	-0.041
Smith		0.44	-0.22		-0.23		0.39	-0.10		5	0.28	0.056	7	0.56	0.080
SUV	1.51	3.51	-0.49	2.51	-0.49	0.51	-0.49	1.51	1.51	51	8.00	0.157	825	17.04	0.021
Error/PB/CI	1.11			0.48							1.59	9.59		6.35	23.39

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Gallardo	1.51	-0.49	-0.49	-0.49	-0.49	0.51				6.00	0.06	0.010	21.00	3.65	0.174
Zych							-0.49			1.00	-0.49	-0.490	5.67	-1.60	-0.282
Pazos								-0.49		1.00	-0.49	-0.490	4.67	1.17	0.251
Cishek									-0.71	1.00	-0.71	-0.710			
SUV	1.51	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	-0.49	-0.49	9.00	-1.63	-0.181	190.67	-7.27	-0.038
Error/PB/CI									0.22		0.22	-1.41		4.78	-2.49

GAME 068, JUNE 15, SEATTLE-2 @ MINNESOTA-6

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Gamel	-0.23		0.89			0.61		-0.16		4	1.11	0.278	62	7.62	0.123
Haniger	-0.16		-0.22			-0.40		-0.10		4	-0.88	-0.220	41	2.08	0.051
Cano	-0.10			-0.23		0.78			-0.23	4	0.22	0.055	82	3.78	0.046
Cruz		-0.23		-0.16		-0.48			-0.16	4	-1.03	-0.258	87	9.16	0.105
Seager		-0.16		-0.10			0.63		0.23	4	0.60	0.150	94	7.43	0.079
Valencia		-0.10			0.39		-0.42		-0.33	4	-0.46	-0.115	77	5.48	0.071
Dyson			-0.23		-0.40		-0.37			3	-1.00	-0.333	71	2.02	0.028
Ruiz			-0.16		-0.26		-0.33			3	-0.75	-0.250	17	-3.99	-0.235
Motter			0.23		-0.22			-0.23		3	-0.22	-0.073	65	2.00	0.031
SUV	-0.49	-0.49	0.51	-0.49	-0.49	0.51	-0.49	-0.49	-0.49	33	-2.41	-0.073	858	14.63	0.017
Error/PB/CI											0.00	-2.41		6.35	20.98

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Miranda	4.51	-0.49	0.51	-0.49						4.00	4.04	1.010	28.00	-3.39	-0.121
De Jong					-0.49	-0.49	-0.49	-0.49		4.00	-1.96	-0.490	11.67	5.34	0.458
SUV	4.51	-0.49	0.51	-0.49	-0.49	-0.49	-0.49	-0.49	0.00	8.00	2.08	0.260	198.67	-5.19	-0.026
Error/PB/CI											0.00	2.08		4.78	-0.41

GAME 071, JUNE 18, SEATTLE-7 @ TEXAS-3

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Gamel	0.39	0.44		-0.10			-0.16			4	0.57	0.143	66	8.19	0.124
Heredia									0.39	1	0.39	0.390	71	-2.50	-0.035
Haniger	0.63	-0.30			-0.23		-0.10		-0.40	5	-0.40	-0.080	46	1.68	0.037
Cano	-0.59	-0.62			0.33			0.63	0.44	5	0.19	0.038	87	3.97	0.046
Cruz	-0.47		0.63		-0.26			-0.42	-0.30	5	-0.82	-0.164	92	8.34	0.091
Seager	1.17		1.00		-0.33			1.00	-0.62	5	2.22	0.444	99	9.65	0.097
Valencia	1.71		-1.02			-0.23		0.19		4	0.65	0.163	81	6.13	0.076
Dyson	-0.10		-0.10			-0.16		-0.31		4	-0.67	-0.168	75	1.35	0.018
Ruiz		-0.23		-0.23		-0.10		0.12		4	-0.44	-0.110	21	-4.43	-0.211
Smith		0.22		-0.16			-0.23	-0.51		4	-0.68	-0.170	11	-0.12	-0.011
SUV	3.51	-0.49	0.51	-0.49	-0.49	-0.49	-0.49	1.51	-0.49	41	1.01	0.025	899	15.64	0.017
Error/PB/CI	0.77							0.81			1.58	2.59		7.93	23.57

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Bergman	-0.49	1.51	-0.49	-0.49	-0.49	-0.27				5.67	-0.72	-0.127	22.67	-6.05	-0.267
Rzepczynski						-0.22				0.33	-0.22	-0.660	4.33	-2.79	-0.644
Cishek							-0.04			0.67	-0.04	-0.060	1.67	-0.75	-0.450
Pazos							1.06			0.00	1.06		4.67	2.23	0.478
Vincent							-0.51	-0.49		1.33	-1.00	-0.750	7.00	-3.61	-0.516
Diaz									-0.49	1.00	-0.49	-0.490	6.67	-2.33	-0.350
SUV	-0.49	1.51	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	-0.49	9.00	-1.41	-0.157	207.67	-6.60	-0.032
Error/PB/CI											0.00	-1.41		4.78	-1.82

CUMULATIVES THROUGH 24 GAMES

Mariner	+Ops	+SUV	+Avg
Gamel	66	8.19	0.124
Seager	99	9.65	0.097
Cruz	92	8.34	0.091
Valencia	81	6.13	0.076
Cano	87	3.97	0.046
Haniger	46	1.68	0.037
Motter	65	2.00	0.031
Dyson	75	1.35	0.018
Smith	11	-0.12	-0.011
Heredia	71	-2.50	-0.035
Segura	59	-2.22	-0.038
Martin, L	20	-1.83	-0.092
Powell	13	-1.19	-0.092
Vogelbach	9	-0.88	-0.098
Zunino	58	-6.19	-0.107
Freeman	13	-2.67	-0.205
Greenwich	4	-0.84	-0.210
Ruiz	21	-4.43	-0.211
Pitcher (NL)	5	-1.45	-0.290
Gosewich	4	-1.35	-0.338
SUV	899	15.64	0.017
Error/PB/CI		7.93	23.57

Pitcher	+IP	+SUV	+Avg
Rzepczynski	4.33	-2.79	-0.644
Vincent	7.00	-3.61	-0.516
Marshall	1.00	-0.49	-0.490
Curtis	1.00	-0.49	-0.490
Cloyd	1.00	-0.49	-0.490
Cishek	1.67	-0.75	-0.450
Diaz	6.67	-2.33	-0.350
Hernandez	7.33	-2.44	-0.333
Iwakuma	11.67	-3.59	-0.308
Zych	5.67	-1.60	-0.282
Bergman	22.67	-6.05	-0.267
Scribner	5.33	-1.04	-0.195
Miranda	28.00	-3.39	-0.121
Lawrence	5.33	-0.49	-0.092
Paxton	16.33	-0.50	-0.031
Altavilla	8.00	0.08	0.010
Gaviglio	14.00	0.51	0.036
Gallardo	21.00	3.65	0.174
Overton	14.67	4.40	0.300
Whalen	5.33	2.32	0.435
De Jong	11.67	5.34	0.458
Pazos	4.67	2.23	0.478
Freeman	1.00	0.51	0.510
Fien	2.33	4.41	1.890
SUV	207.67	-6.60	-0.032
Error/PB/CI		4.78	-1.82

GAME 074, JUNE 21, DETROIT-5 @ SEATTLE-7

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23			-0.23		0.68	0.12			4	0.34	0.085	63	-1.88	-0.030
Gamel	-0.16			-0.16		1.00	0.23			4	0.91	0.228	70	9.10	0.130
Cano	-0.10			-0.10		-0.86	1.88			4	0.82	0.205	91	4.79	0.053
Cruz		-0.23			-0.23	1.88	0.89			4	2.31	0.578	96	10.65	0.111
Seager		-0.16			-0.16	0.12	-0.22			4	-0.42	-0.105	103	9.23	0.090
Valencia		-0.10			-0.10	-0.74		-0.23		4	-1.17	-0.293	85	4.96	0.058
Haniger			-0.23			-0.23	1.00	0.22		4	0.76	0.190	50	2.44	0.049
Dyson			-0.16			0.22	-0.23	-0.26		4	-0.43	-0.108	79	0.92	0.012
Zunino			-0.10			0.44	-0.16	-0.22		4	-0.04	-0.010	62	-6.23	-0.100
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	2.51	3.51	-0.49	0.00	36	3.08	0.086	935	18.72	0.020
Error/PB/CI											0.00	3.08		7.93	26.65

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Paxton	-0.49	-0.49	0.51	0.51	-0.49	1.95				5.33	1.50	0.281	21.67	1.00	0.046
Zych						-0.92	-0.49			1.67	-1.41	-0.846	7.33	-3.01	-0.410
Vincent								-0.49		1.00	-0.49	-0.490	8.00	-4.10	-0.513
Diaz									0.51	1.00	0.51	0.510	7.67	-1.82	-0.237
SUV	-0.49	-0.49	0.51	0.51	-0.49	1.51	-0.49	-0.49	0.51	9.00	0.11	0.012	216.67	-6.49	-0.030
Error/PB/CI						0.48					0.48	0.59		5.26	-1.23

GAME 077, JUNE 24, HOUSTON-5 @ SEATTLE-2

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23			-0.23		0.63		-0.16		4	0.01	0.003	67	-1.87	-0.028
Gamel	-0.16			-0.16		-0.59		-0.10		4	-1.01	-0.253	74	8.09	0.109
Cano	-0.10			-0.10		1.00			-0.23	4	0.57	0.143	95	5.36	0.056
Cruz		-0.23			0.39	-1.16			0.44	4	-0.56	-0.140	100	10.09	0.101
Seager		-0.16			1.11		-0.23		-0.31	4	0.41	0.103	107	9.64	0.090
Haniger		-0.10			-0.61		0.22		0.12	4	-0.37	-0.093	54	2.07	0.038
Dyson			-0.23		-0.87		-0.15		0.23	4	-1.02	-0.255	83	-0.10	-0.001
Motter			-0.16		-0.51		-0.33			3	-1.00	-0.333	68	1.00	0.015
Zunino									1.00	1	1.00	1.000	63	-5.23	-0.083
Ruiz			-0.10			0.63		-0.23	-0.74	4	-0.44	-0.110	25	-4.87	-0.195
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	-0.49	0.51	36	-2.41	-0.067	971	16.31	0.017
Error/PB/CI											0.00	-2.41		7.93	24.24

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Gaviglio	-0.49	-0.49	1.51	-0.49	-0.49	-0.49				6.00	-0.94	-0.157	20.00	-0.43	-0.022
Zych							-0.01			0.33	-0.01	-0.030	7.67	-3.02	-0.394
Rzepczynski							0.00			0.00	0.00		4.33	-2.79	-0.644
Cishek							2.08			0.67	2.08	3.120	2.33	1.33	0.570
Altavilla								-0.49	-0.49	2.00	-0.98	-0.490	10.00	-0.90	-0.090
SUV	-0.49	-0.49	1.51	-0.49	-0.49	-0.49	2.51	-0.49	-0.49	9.00	0.15	0.017	225.67	-6.34	-0.028
Error/PB/CI							0.44				0.44	0.59		5.70	-0.64

GAME 080, JUNE 28, PHILADELPHIA-5 @ SEATTLE-4

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	0.50		-0.23	0.23		0.23			-0.16	5	0.57	0.114	72	-1.30	-0.018
Gamel	-0.40		0.44	-0.45			-0.23		-0.10	5	-0.74	-0.148	79	7.35	0.093
Cano	-0.26		-0.37		1.00		0.22			4	0.59	0.148	99	5.95	0.060
Cruz	0.83		-0.33		-0.23		-0.26			4	0.01	0.002	104	10.10	0.097
Seager	0.23			1.00	-0.16		-0.22			4	0.85	0.213	111	10.49	0.095
Haniger	-0.45			-0.23	-0.10			-0.23		4	-1.01	-0.253	58	1.06	0.018
Valencia		-0.23		1.00		-0.23		-0.16		4	0.38	0.095	89	5.34	0.060
Dyson		-0.16		0.22		-0.16		-0.10		4	-0.20	-0.050	87	-0.30	-0.003
Zunino		-0.10		-0.26		-0.33			-0.23	4	-0.92	-0.230	67	-6.15	-0.092
SUV	0.51	-0.49	-0.49	1.51	0.51	-0.49	-0.49	-0.49	-0.49	38	-0.47	-0.012	1009	15.84	0.016
Error/PB/CI	0.06										0.06	-0.41		7.99	23.83

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Hernandez	-0.49	-0.49	2.51	-0.49	-0.49	-0.49				6.00	0.06	0.010	13.33	-2.38	-0.179
Pazos							-0.49			1.00	-0.49	-0.490	5.67	1.74	0.307
Vincent								-0.49		1.00	-0.49	-0.490	9.00	-4.59	-0.510
Diaz									1.73	0.67	1.73	2.595	8.33	-0.09	-0.011
Cishek									-0.22	0.33	-0.22	-0.660	2.67	1.11	0.416
SUV	-0.49	-0.49	2.51	-0.49	-0.49	-0.49	-0.49	-0.49	1.51	9.00	0.59	0.066	234.67	-5.75	-0.025
Error/PB/CI											0.00	0.59		5.70	-0.05

GAME 083, JULY 2, SEATTLE-5 @ L.A. ANGELS-3

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		0.76		1.22			0.39	0.29	5	2.43	0.486	77	1.13	0.015
Gamel	-0.16		-0.30		-0.70			0.63	-0.51	5	-1.04	-0.208	84	6.31	0.075
Cano	-0.10		0.12			-0.23		1.98		4	1.77	0.443	103	7.72	0.075
Haniger		-0.23	-0.74			-0.16		-0.23		4	-1.36	-0.340	62	-0.30	-0.005
Seager		-0.16		-0.23		-0.10		-0.16		4	-0.65	-0.163	115	9.84	0.086
Valencia		-0.10		-0.16			-0.23	-0.10		4	-0.59	-0.148	93	4.75	0.051
Heredia			0.39	-0.10			0.22		0.39	4	0.90	0.225	75	-1.60	-0.021
Zunino			-0.40		-0.23		-0.26		-0.40	4	-1.29	-0.323	71	-7.44	-0.105
Powell			0.68		0.22		-0.22		-0.26	4	0.42	0.105	17	-0.77	-0.045
SUV	-0.49	-0.49	0.51	-0.49	0.51	-0.49	-0.49	2.51	-0.49	38	0.59	0.016	1047	16.43	0.016
Error/PB/CI											0.00	0.59		7.99	24.42

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Paxton	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	1.67			6.33	-1.27	-0.201	28.00	-0.27	-0.010
Cishek							-1.16			0.67	-1.16	-1.740	3.33	-0.05	-0.015
Vincent								2.67		0.33	2.67	8.010	9.33	-1.92	-0.206
Rzepczynski								-0.54		0.33	-0.54	-1.620	4.67	-3.33	-0.714
Diaz								-0.62	-0.49	1.33	-1.11	-0.833	9.67	-1.20	-0.124
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	1.51	-0.49	9.00	-1.41	-0.157	243.67	-7.16	-0.029
Error/PB/CI											0.00	-1.41		5.70	-1.46

GAME 086, JULY 5, KANSAS CITY-9 @ SEATTLE-6 (10 INNINGS)

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	0.63	1.32		-0.16			-0.18			-0.23	5	1.38	0.276	82	2.51	0.031
Valencia	-0.40	-0.16		-0.10			0.22			-0.16	5	-0.60	-0.120	98	4.15	0.042
Cano	0.44	-0.10			-0.23		-0.92			-0.10	5	-0.91	-0.182	108	6.81	0.063
Cruz	0.17		1.00		-0.16			-0.23			4	0.78	0.195	108	10.88	0.101
Gamel	0.89		0.63		-0.10			-0.16			4	1.26	0.315	88	7.57	0.086
Haniger	-0.22		-0.42			-0.23		-0.10			4	-0.97	-0.243	66	-1.27	-0.019
Zunino		1.00	-0.37			-0.16			-0.23		4	0.24	0.060	75	-7.20	-0.096
Dyson		0.87	-0.33			-0.10					3	0.44	0.147	90	0.14	0.002
Heredia									-0.16		1	-0.16	-0.160	76	-1.76	-0.023
Motter		-0.42		-0.23			0.39		-0.10		4	-0.36	-0.090	72	0.64	0.009
SUV	1.51	2.51	0.51	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	39	1.10	0.028	1086	17.53	0.016
Error/PB/CI												0.00	1.10		7.99	25.52

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	IP	SUV	Avg	+IP	+SUV	+Avg
Miranda	3.51	-0.49	-0.49	-0.49	1.51						5.00	3.55	0.710	33.00	0.16	0.005
Zych						-0.49	-0.49	-0.23			2.33	-1.21	-0.519	10.00	-4.23	-0.423
Rzepczynski								0.19			0.33	0.19	0.570	5.00	-3.14	-0.628
Diaz								-0.45	-0.49		1.33	-0.94	-0.705	11.00	-2.14	-0.195
Pazos										1.82	0.33	1.82	5.460	6.00	3.56	0.593
Vincent										0.08	0.67	0.08	0.120	10.00	-1.84	-0.184
SUV	3.51	-0.49	-0.49	-0.49	1.51	-0.49	-0.49	-0.49	-0.49	2.51	10.00	3.49	0.349	253.67	-3.67	-0.014
Error/PB/CI										0.61		0.61	4.10		6.31	2.64

GAME 089, JULY 8, OAKLAND-4 @ SEATTLE-3

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		1.00		0.44		-0.48			4	0.73	0.183	86	3.24	0.038
Gamel	-0.16		0.78		0.22			-0.23		4	0.61	0.153	92	8.18	0.089
Cano	-0.10		-0.48		-0.41			-0.16		4	-1.15	-0.288	112	5.66	0.051
Cruz		-0.23		-0.23	-0.51			-0.10		4	-1.07	-0.268	112	9.81	0.088
Seager		0.22		-0.16		-0.23			-0.23	4	-0.40	-0.100	119	9.44	0.079
Valencia		-0.26		0.11		-0.16			-0.16	4	-0.47	-0.118	102	3.68	0.036
Haniger		-0.22		-0.33		-0.10			0.23	4	-0.42	-0.105	70	-1.69	-0.024
Dyson			0.63		1.00		0.39		-0.33	4	1.69	0.423	94	1.83	0.019
Zunino			-0.42		-0.23		-0.40			3	-1.05	-0.350	78	-8.25	-0.106
SUV	-0.49	-0.49	1.51	-0.49	0.51	-0.49	-0.49	-0.49	-0.49	35	-1.53	-0.044	1121	16.00	0.014
Error/PB/CI				0.12							0.12	-1.41		8.11	24.11

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Moore	-0.49	0.51	0.51	-0.49	0.51	-0.49				6.00	0.06	0.010			
Pazos							-0.49			1.00	-0.49	-0.490	7.00	3.07	0.439
Vincent								-0.49		1.00	-0.49	-0.490	11.00	-2.33	-0.212
Diaz									0.51	1.00	0.51	0.510	12.00	-1.63	-0.136
SUV	-0.49	0.51	0.51	-0.49	0.51	-0.49	-0.49	-0.49	0.51	9.00	-0.41	-0.046	262.67	-4.08	-0.016
Error/PB/CI											0.00	-0.41		6.31	2.23

CUMULATIVES THROUGH 30 GAMES

Mariner	+Ops	+SUV	+Avg
Gamel	92	8.18	0.089
Cruz	112	9.81	0.088
Seager	119	9.44	0.079
Cano	112	5.66	0.051
Segura	86	3.24	0.038
Valencia	102	3.68	0.036
Dyson	94	1.83	0.019
Motter	72	0.64	0.009
Smith	11	-0.12	-0.011
Heredia	76	-1.76	-0.023
Haniger	70	-1.69	-0.024
Powell	17	-0.77	-0.045
Martin, L	20	-1.83	-0.092
Vogelbach	9	-0.88	-0.098
Zunino	78	-8.25	-0.106
Ruiz	25	-4.87	-0.195
Freeman	13	-2.67	-0.205
Greenwich	4	-0.84	-0.210
Pitcher (NL)	5	-1.45	-0.290
Gosewich	4	-1.35	-0.338
SUV	1121	16.00	0.014
Error/PB/CI		8.11	24.11

Pitcher	+IP	+SUV	+Avg
Rzepczynski	5.00	-3.14	-0.628
Marshall	1.00	-0.49	-0.490
Curtis	1.00	-0.49	-0.490
Cloyd	1.00	-0.49	-0.490
Zych	10.00	-4.23	-0.423
Iwakuma	11.67	-3.59	-0.308
Bergman	22.67	-6.05	-0.267
Vincent	11.00	-2.33	-0.212
Scribner	5.33	-1.04	-0.195
Hernandez	13.33	-2.38	-0.179
Diaz	12.00	-1.63	-0.136
Lawrence	5.33	-0.49	-0.092
Altavilla	10.00	-0.90	-0.090
Gaviglio	20.00	-0.43	-0.022
Cishek	3.33	-0.05	-0.015
Paxton	28.00	-0.27	-0.010
Miranda	33.00	0.16	0.005
Moore	6.00	0.06	0.010
Gallardo	21.00	3.65	0.174
Overton	14.67	4.40	0.300
Whalen	5.33	2.32	0.435
Pazos	7.00	3.07	0.439
De Jong	11.67	5.34	0.458
Freeman	1.00	0.51	0.510
Fien	2.33	4.41	1.890
SUV	262.67	-4.08	-0.016
Error/PB/CI		6.31	2.23

GAME 092, JULY 15, SEATTLE-4 @ CHICAGO WHITE SOX-3

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		-0.10		0.40		-0.10			4	-0.03	-0.008	90	3.21	0.036
Gamel	-0.16			0.39	-0.62			0.39		4	0.00	0.000	96	8.18	0.085
Cano	-0.10			-0.18		0.39		-0.78		4	-0.67	-0.168	116	4.99	0.043
Cruz		-0.23		-0.37		1.61		-0.10		4	0.91	0.228	116	10.72	0.092
Seager		1.00		-0.33		-0.23			-0.23	4	0.21	0.053	123	9.65	0.078
Valencia		-0.16			0.24	-0.16			-0.16	4	-0.24	-0.060	106	3.44	0.032
Haniger		-0.10			-0.18				-0.10	3	-0.38	-0.127	73	-2.07	-0.028
Heredia						-0.10				1	-0.10	-0.100	77	-1.86	-0.024
Dyson			-0.23		-0.55		-0.23			3	-1.01	-0.337	97	0.82	0.008
Ruiz			-0.16		0.83		-0.16			3	0.51	0.170	28	-4.36	-0.156
SUV	-0.49	0.51	-0.49	-0.49	0.51	1.51	-0.49	-0.49	-0.49	34	-0.80	-0.024	1155	15.20	0.013
Error/PB/CI					0.39						0.39	-0.41		8.50	23.70

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Hernandez	0.51	-0.49	0.12	-0.49	-0.60					5.00	-0.95	-0.190	18.33	-3.33	-0.182
Cishek						-0.71				1.00	-0.71	-0.710	4.33	-0.76	-0.175
Zych							-0.49			1.00	-0.49	-0.490	11.00	-4.72	-0.429
Vincent								-0.49		1.00	-0.49	-0.490	12.00	-2.82	-0.235
Diaz									-0.49	1.00	-0.49	-0.490	13.00	-2.12	-0.163
SUV	0.51	-0.49	0.51	-0.49	0.51	-0.49	-0.49	-0.49	-0.49	9.00	-3.13	-0.348	271.67	-7.21	-0.027
Error/PB/CI			0.39		1.11	0.22					1.72	-1.41		8.03	0.82

GAME 095, JULY 18, SEATTLE-2 @ HOUSTON-6

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		-0.22			-0.23		-0.26		4	-0.94	-0.235	94	2.27	0.024
Gamel	-0.16			-0.23		-0.16		0.89		4	0.34	0.085	100	8.52	0.085
Cano	-0.10			-0.16		0.12		0.23		4	0.09	0.023	120	5.08	0.042
Cruz		-0.23		-0.10		-0.22		-0.45		4	-1.00	-0.250	120	9.72	0.081
Seager		-0.16			0.63		-0.23		-0.23	4	0.01	0.002	127	9.66	0.076
Valencia		-0.10			-0.18		-0.16		-0.16	4	-0.60	-0.150	110	2.84	0.026
Dyson			-0.23		0.76		-0.10		-0.10	4	0.33	0.083	101	1.15	0.011
Ruiz			-0.16		-0.55			0.50		3	-0.21	-0.070	31	-4.57	-0.147
Heredia			0.12		-0.39			-0.40		3	-0.67	-0.223	80	-2.53	-0.032
SUV	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	-0.49	0.51	-0.49	34	-2.65	-0.078	1189	12.55	0.011
Error/PB/CI					0.24						0.24	-2.41		8.74	21.29

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Gaviglio	0.51	0.51	-0.49	1.29	-0.49	0.51				6.00	1.84	0.307	26.00	1.41	0.054
Pagan							0.51	-0.49		2.00	0.02	0.010			
SUV	0.51	0.51	-0.49	1.51	-0.49	0.51	0.51	-0.49	0.00	8.00	1.86	0.233	279.67	-5.35	-0.019
Error/PB/CI				0.22							0.22	2.08		8.25	2.90

GAME 098, JULY 21, N.Y. YANKEES-5 @ SEATTLE-1

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23	-0.48		-0.10			-0.16		-0.10	5	-1.07	-0.214	99	1.20	0.012
Valencia	-0.16	-0.22			-0.23		-0.10			4	-0.71	-0.178	114	2.13	0.019
Cano	0.12		-0.23		-0.16			0.63		4	0.36	0.090	124	5.44	0.044
Cruz	0.29		0.28		-0.10			-0.42		4	0.05	0.013	124	9.77	0.079
Seager	0.94		0.55			0.39		-0.37		4	1.51	0.378	131	11.17	0.085
Haniger	0.29		-0.47			-0.40		0.18		4	-0.40	-0.100	77	-2.47	-0.032
Heredia	-0.74		-0.62							2	-1.36	-0.680	82	-3.89	-0.047
Dyson						-0.26		-0.51		2	-0.77	-0.385	103	0.38	0.004
Gamel		0.63		-0.23		-0.33			0.39	4	0.46	0.115	104	8.98	0.086
Zunino		-0.42		-0.16			-0.23		-0.78	4	-1.59	-0.398	82	-9.84	-0.120
SUV	0.51	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	37	-3.52	-0.095	1226	9.03	0.007
Error/PB/CI						0.11					0.11	-3.41		8.85	17.88

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Moore	-0.49	-0.49	1.51	-0.49	2.51	-0.49				6.00	2.06	0.343	12.00	2.12	0.177
Pagan							-0.49	-0.49	-0.49	3.00	-1.47	-0.490	5.00	-1.45	-0.290
SUV	-0.49	-0.49	1.51	-0.49	2.51	-0.49	-0.49	-0.49	-0.49	9.00	0.59	0.066	288.67	-4.76	-0.016
Error/PB/CI											0.00	0.59		8.25	3.49

GAME 101, JULY 24, BOSTON-0 @ SEATTLE-4

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	0.39	1.11		0.23			-0.23			4	1.50	0.375	103	2.70	0.026
Valencia	-0.40	-0.33		1.17			-0.16			4	0.28	0.070	118	2.41	0.020
Cano	-0.26		-0.23	-0.62			-0.10			4	-1.21	-0.303	128	4.23	0.033
Cruz	-0.22		0.22		-0.23			-0.23		4	-0.46	-0.115	128	9.31	0.073
Seager		1.00	-0.26		-0.16			-0.16		4	0.42	0.105	135	11.59	0.086
Haniger		-0.23	-0.22		-0.10			-0.10		4	-0.65	-0.163	81	-3.12	-0.039
Gamel		0.68		0.39		-0.23				3	0.84	0.280	107	9.82	0.092
Heredia		0.54		-0.40		0.00				3	0.14	0.047	85	-3.75	-0.044
Zunino		-0.26		-0.26		-0.26				3	-0.78	-0.260	85	-10.62	-0.125
SUV	-0.49	2.51	-0.49	0.51	-0.49	-0.49	-0.49	-0.49	0.00	33	0.08	0.002	1259	9.11	0.007
Error/PB/CI											0.00	0.08		8.85	17.96

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Paxton	-0.49	-0.49	-0.49	-0.49	-0.49	-0.71	-0.49			7.00	-3.65	-0.521	35.00	-3.92	-0.112
Vincent								-0.49		1.00	-0.49	-0.490	13.00	-3.31	-0.255
Phelps									-0.49	1.00	-0.49	-0.490			
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	9.00	-4.63	-0.514	297.67	-9.39	-0.032
Error/PB/CI						0.22					0.22	-4.41		8.47	-0.92

GAME 104, JULY 28, N.Y. METS-7 @ SEATTLE-5

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		-0.16		0.39	0.23		-0.62		5	-0.39	-0.078	108	2.31	0.021
Gamel	-0.16		-0.10		-0.78	-0.45			0.39	5	-1.10	-0.220	112	8.72	0.078
Cano	-0.10			-0.23	-0.15		-0.23		-0.78	5	-1.49	-0.298	133	2.74	0.021
Cruz		0.39		-0.16	0.29		-0.16		-0.10	5	0.26	0.052	133	9.57	0.072
Seager		-0.40		0.12	1.77		-0.10			4	1.39	0.348	139	12.98	0.093
Valencia		-0.26		-0.22	-0.51			0.39		4	-0.60	-0.150	122	1.81	0.015
Haniger		-0.22			0.76	-0.23		0.63		4	0.94	0.235	85	-2.18	-0.026
Dyson			-0.23		0.87	-0.16		-0.13		4	0.35	0.088	107	0.73	0.007
Zunino			1.00		0.87	0.12		-0.76		4	1.23	0.308	89	-9.39	-0.106
SUV	-0.49	-0.49	0.51	-0.49	3.51	-0.49	-0.49	-0.49	-0.49	40	0.59	0.015	1299	9.70	0.007
Error/PB/CI											0.00	0.59		8.85	18.55

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Miranda	1.51	-0.49	1.27	-0.49	-0.49	-0.49				6.00	0.82	0.137	39.00	0.98	0.025
Vincent							-0.49			1.00	-0.49	-0.490	14.00	-3.80	-0.271
Rzepczynski								1.00		0.00	1.00		5.00	-2.14	-0.428
Phelps								1.51		1.00	1.51	1.510	2.00	1.02	0.510
Lawrence									-0.49	1.00	-0.49	-0.490	6.33	-0.98	-0.155
SUV	1.51	-0.49	1.51	-0.49	-0.49	-0.49	-0.49	2.51	-0.49	9.00	2.35	0.261	306.67	-7.04	-0.023
Error/PB/CI			0.24	0.00							0.24	2.59		8.71	1.67

GAME 107, JULY 31, SEATTLE-6 @ TEXAS-4

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Gamel	-0.23		-0.26	-0.33			0.61		-0.16	5	-0.37	-0.074	117	8.35	0.071
Segura	-0.16		0.23		-0.23		-0.40		0.44	5	-0.12	-0.024	113	2.19	0.019
Cano	-0.10		-0.62		-0.16		-0.31		0.72	5	-0.47	-0.094	138	2.27	0.016
Cruz		-0.23		0.63	-0.10		0.12		0.12	5	0.54	0.108	138	10.11	0.073
Seager		-0.16		0.87		-0.23	-0.51		-0.22	5	-0.25	-0.050	144	12.73	0.088
Valencia		0.00		0.76		-0.16		-0.23		4	0.37	0.093	126	2.18	0.017
Heredia		-0.22		0.39		0.00		-0.16		4	0.01	0.003	89	-3.74	-0.042
Martin, L			-0.23	-0.65		1.06		-0.10		4	0.08	0.020	24	-1.75	-0.073
Ruiz			0.22	0.23		-0.39			0.39	4	0.45	0.113	35	-4.12	-0.118
SUV	-0.49	-0.49	-0.49	2.51	-0.49	0.51	-0.49	-0.49	1.51	41	0.24	0.006	1340	9.94	0.007
Error/PB/CI		0.12	0.17	0.61		0.23			0.22		1.35	1.59		10.20	20.14

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Hernandez	1.51	1.51	-0.72	-0.49	-0.49	0.43				5.33	1.75	0.328	23.67	-1.58	-0.067
Rzepczynski						-0.92	-0.23			1.00	-1.15	-1.150	6.00	-3.29	-0.548
Phelps							-0.26	-0.49		1.67	-0.75	-0.450	3.67	0.27	0.074
Diaz									-0.49	1.00	-0.49	-0.490	14.00	-2.61	-0.186
SUV	1.51	1.51	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	9.00	-0.64	-0.071	315.67	-7.68	-0.024
Error/PB/CI			0.23								0.23	-0.41		8.94	1.26

CUMULATIVES THROUGH 36 GAMES

Mariner	+Ops	+SUV	+Avg
Seager	144	12.73	0.088
Cruz	138	10.11	0.073
Gamel	117	8.35	0.071
Segura	113	2.19	0.019
Valencia	126	2.18	0.017
Cano	138	2.27	0.016
Motter	72	0.64	0.009
Dyson	107	0.73	0.007
Smith	11	-0.12	-0.011
Haniger	85	-2.18	-0.026
Heredia	89	-3.74	-0.042
Powell	17	-0.77	-0.045
Martin, L	24	-1.75	-0.073
Vogelbach	9	-0.88	-0.098
Zunino	89	-9.39	-0.106
Ruiz	35	-4.12	-0.118
Freeman	13	-2.67	-0.205
Greenwich	4	-0.84	-0.210
Pitcher (NL)	5	-1.45	-0.290
Gosewich	4	-1.35	-0.338
SUV	1340	9.94	0.007
Error/PB/CI		10.20	20.14

Pitcher	+IP	+SUV	+Avg
Rzepczynski	6.00	-3.29	-0.548
Marshall	1.00	-0.49	-0.490
Curtis	1.00	-0.49	-0.490
Cloyd	1.00	-0.49	-0.490
Zych	11.00	-4.72	-0.429
Iwakuma	11.67	-3.59	-0.308
Pagan	5.00	-1.45	-0.290
Vincent	14.00	-3.80	-0.271
Bergman	22.67	-6.05	-0.267
Scribner	5.33	-1.04	-0.195
Diaz	14.00	-2.61	-0.186
Cishek	4.33	-0.76	-0.175
Lawrence	6.33	-0.98	-0.155
Paxton	35.00	-3.92	-0.112
Altavilla	10.00	-0.90	-0.090
Hernandez	23.67	-1.58	-0.067
Miranda	39.00	0.98	0.025
Gaviglio	26.00	1.41	0.054
Phelps	3.67	0.27	0.074
Gallardo	21.00	3.65	0.174
Moore	12.00	2.12	0.177
Overton	14.67	4.40	0.300
Whalen	5.33	2.32	0.435
Pazos	7.00	3.07	0.439
De Jong	11.67	5.34	0.458
Freeman	1.00	0.51	0.510
Fien	2.33	4.41	1.890
SUV	315.67	-7.68	-0.024
Error/PB/CI		8.94	1.26

GAME 110, AUGUST 3, SEATTLE-4 @ KANSAS CITY-6

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Gamel	-0.23		-0.16		-0.23	-0.22			-0.16	5	-1.00	-0.200	122	7.35	0.060
Segura	-0.16		0.17		-0.16		-0.23		0.23	5	-0.15	-0.030	118	2.04	0.017
Cano	-0.10		0.12		0.12		-0.16		0.89	5	0.87	0.174	143	3.14	0.022
Cruz		-0.23	-0.51		0.29		0.23		-0.22	5	-0.44	-0.088	143	9.67	0.068
Seager		1.00		-0.23	-0.51		-0.33			4	-0.07	-0.018	148	12.66	0.086
Valencia		-0.38		1.00		0.63		-0.23		4	1.02	0.255	130	3.20	0.025
Dyson		0.45		0.33		-0.18		-0.16		4	0.44	0.110	111	1.17	0.011
Heredia		-0.33		-0.26		0.54		-0.10		4	-0.15	-0.037	93	-3.89	-0.042
Zunino			-0.23	-0.33		-0.26				3	-0.82	-0.273	92	-10.21	-0.111
Martin, L									-0.23	1	-0.23	-0.230	25	-1.98	-0.079
SUV	-0.49	0.51	-0.49	0.51	-0.49	0.51	-0.49	-0.49	0.51	40	-0.53	-0.013	1380	9.41	0.007
Error/PB/CI			0.12								0.12	-0.41		10.32	19.73

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Gallardo	-0.49	-0.49	-0.49	-0.49	1.51	1.02				5.00	0.57	0.114	26.00	4.22	0.162
Rzepczynski						-0.51				1.00	-0.51	-0.510	7.00	-3.80	-0.543
Pagan							1.05	0.51		2.00	1.56	0.780	7.00	0.11	0.016
SUV	-0.49	-0.49	-0.49	-0.49	1.51	0.51	1.51	0.51	0.00	8.00	1.62	0.203	323.67	-6.06	-0.019
Error/PB/CI							0.46				0.46	2.08		9.40	3.34

GAME 113, AUGUST 6, SEATTLE-1 @ KANSAS CITY-9

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Dyson	0.61	-0.33			-0.10			-0.10		4	0.08	0.020	115	1.25	0.011
Segura	-0.40		-0.23			-0.23			-0.23	4	-1.09	-0.273	122	0.95	0.008
Cano	0.46		-0.16			-0.16			0.22	4	0.36	0.090	147	3.50	0.024
Cruz	-0.65		-0.10			-0.10			-0.26	4	-1.11	-0.278	147	8.56	0.058
Seager	-0.51			-0.23			-0.23		-0.22	4	-1.19	-0.298	152	11.47	0.075
Ruiz		-0.23		-0.16			-0.16			3	-0.55	-0.183	38	-4.67	-0.123
Martin, L		0.22		-0.10			-0.10			3	0.02	0.007	28	-1.96	-0.070
Heredia		-0.26			-0.23			-0.23		3	-0.72	-0.240	96	-4.61	-0.048
Espinosa		1.11			-0.16			-0.16		3	0.79	0.263			
SUV	-0.49	0.51	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	32	-3.41	-0.107	1412	6.00	0.004
Error/PB/CI											0.00	-3.41		10.32	16.32

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Ramirez	-0.49	-0.49	3.51	-0.49	-0.49	2.02				5.00	3.57	0.714			
Lawrence						-1.51				1.00	-1.51	-1.510	7.33	-2.49	-0.340
Martin, C							2.99	-0.49		2.00	2.50	1.250			
SUV	-0.49	-0.49	3.51	-0.49	-0.49	0.51	3.51	-0.49	0.00	8.00	4.56	0.570	331.67	-1.50	-0.005
Error/PB/CI							0.52				0.52	5.08		9.92	8.42

GAME 116, AUGUST 10, L.A. ANGELS-6 @ SEATTLE-3

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	0.39		0.22		-0.48			1.00		4	1.13	0.283	126	2.08	0.017
Valencia	-0.78		-0.26			0.39		-0.16		4	-0.81	-0.203	134	2.39	0.018
Cano	0.12		-0.22			-0.78		0.23		4	-0.65	-0.163	151	2.85	0.019
Cruz	-0.22			-0.23		-0.10		1.77		4	1.22	0.305	151	9.78	0.065
Seager		-0.23		-0.16			-0.23	-0.10		4	-0.72	-0.180	156	10.75	0.069
Heredia		0.44		0.12			0.44		-0.23	4	0.77	0.193	100	-3.84	-0.038
Gamel		-0.37		-0.22			-0.31		-0.16	4	-1.06	-0.265	126	6.29	0.050
Zunino		-0.33			-0.23					2	-0.56	-0.280	94	-10.77	-0.115
Alonso							-0.39			1	-0.39	-0.390			
Ruiz									-0.10	1	-0.10	-0.100	39	-4.77	-0.122
Dyson			-0.23		0.22			-0.23		3	-0.24	-0.080	118	1.01	0.009
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	2.51	-0.49	35	-1.41	-0.040	1447	4.59	0.003
Error/PB/CI											0.00	-1.41		10.32	14.91

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Paxton	-0.49	0.51	-0.49	1.51	-0.49	-0.49	-0.49			7.00	-0.43	-0.061	42.00	-4.35	-0.104
Lawrence								-0.49		1.00	-0.49	-0.490	8.33	-2.98	-0.358
Diaz									2.84	0.67	2.84	4.260	14.67	0.23	0.016
Zych									-0.33	0.33	-0.33	-0.990	11.33	-5.05	-0.446
SUV	-0.49	0.51	-0.49	1.51	-0.49	-0.49	-0.49	-0.49	2.51	9.00	1.59	0.177	340.67	0.09	0.000
Error/PB/CI											0.00	1.59		9.92	10.01

GAME 119, AUGUST 13, L.A. ANGELS-4 @ SEATTLE-2

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		-0.16		-0.33			-0.16		4	-0.88	-0.220	130	1.20	0.009
Alonso	0.22		-0.10			0.39		-0.10		4	0.41	0.103	5	0.02	0.004
Cano	0.90			0.39		-0.40			0.39	4	1.28	0.320	155	4.13	0.027
Cruz	0.01			-0.40		-0.26			1.11	4	0.46	0.115	155	10.24	0.066
Seager	-0.39			-0.26		-0.22			-0.61	4	-1.48	-0.370	160	9.27	0.058
Dyson		-0.23		-0.22			0.63		0.78	4	0.96	0.240	122	1.97	0.016
Heredia		-0.16			0.39		-0.64		-0.65	4	-1.06	-0.265	104	-4.90	-0.047
Martin, L		-0.10			-0.18		-0.48		-0.51	4	-1.27	-0.318	32	-3.23	-0.101
Ruiz			-0.23		-0.37					2	-0.60	-0.300	41	-5.37	-0.131
Gamel								-0.23		1	-0.23	-0.230	127	6.06	0.048
SUV	0.51	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	35	-2.41	-0.069	1482	2.18	0.001
Error/PB/CI											0.00	-2.41		10.32	12.50

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Miranda	-0.49	-0.49	0.51	-0.49	0.96					4.67	0.00	0.000	43.67	0.98	0.022
Pazos					1.55					0.33	1.55	4.650	7.33	4.62	0.630
Bergman						-0.49	-0.49	-0.49	-0.49	4.00	-1.96	-0.490	26.67	-8.01	-0.300
SUV	-0.49	-0.49	0.51	-0.49	2.51	-0.49	-0.49	-0.49	-0.49	9.00	-0.41	-0.046	349.67	-0.32	-0.001
Error/PB/CI											0.00	-0.41		9.92	9.60

GAME 122, AUGUST 16, BALTIMORE-6 @ SEATTLE-7

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		-0.37		0.39	0.39		0.23		5	0.41	0.082	135	1.61	0.012
Heredia	-0.16		1.00		0.63					3	1.47	0.490	107	-3.43	-0.032
Dyson						-0.78		0.12		2	-0.66	-0.330	124	1.31	0.011
Cano	-0.10		-0.33		1.00	-0.10		-0.45		5	0.02	0.004	160	4.15	0.026
Cruz		-0.23		0.39	-0.59		0.39			4	-0.04	-0.010	159	10.20	0.064
Alonso		-0.16		1.61	1.24		0.63			4	3.32	0.830	9	3.34	0.371
Valencia		0.23		-0.23	0.76		-1.12			4	-0.36	-0.090	138	2.03	0.015
Gamel		-0.33		-0.16	0.68		-0.39			4	-0.20	-0.050	131	5.86	0.045
Zunino			0.63	0.12	-1.60			0.39		4	-0.46	-0.115	98	-11.23	-0.115
Martin, L			-0.42	-0.22		1.00		-0.78		4	-0.42	-0.105	36	-3.65	-0.101
SUV	-0.49	-0.49	0.51	1.51	2.51	0.51	-0.49	-0.49	0.00	39	3.08	0.079	1521	5.26	0.003
Error/PB/CI											0.00	3.08		10.32	15.58

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Gonzales	0.51	-0.49	-0.49	-0.49	3.43					4.33	2.47	0.570			
Zych					-0.92	-0.49	0.39			1.67	-1.02	-0.612	13.00	-6.07	-0.467
Pagan							-0.88			1.00	-0.88	-0.880	8.00	-0.77	-0.096
Vincent								-0.49		1.00	-0.49	-0.490	15.00	-4.29	-0.286
Diaz									2.25	0.67	2.25	3.375	15.33	2.48	0.162
Rzepczynski									-0.74	0.33	-0.74	-2.220	7.33	-4.54	-0.619
SUV	0.51	-0.49	-0.49	-0.49	2.51	-0.49	-0.49	-0.49	1.51	9.00	1.59	0.177	358.67	1.27	0.004
Error/PB/CI											0.00	1.59		9.92	11.19

GAME 125, AUGUST 20, SEATTLE-0 @ TAMPA BAY-3

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		-0.10			-0.10			-0.23	4	-0.66	-0.165	139	0.95	0.007
Valencia	-0.16			-0.23			-0.23			3	-0.62	-0.207	141	1.41	0.010
Alonso									0.22	1	0.22	0.220	10	3.56	0.356
Cano	-0.10			-0.16			0.33		-0.26	4	-0.19	-0.048	164	3.96	0.024
Cruz		0.39		-0.10			-0.26		-0.22	4	-0.19	-0.048	163	10.01	0.061
Haniger		-0.40			-0.23		0.12			3	-0.51	-0.170	88	-2.69	-0.031
Motter		-0.26			-0.16		-0.45			3	-0.87	-0.290	75	-0.23	-0.003
Heredia		-0.22			-0.10			-0.23		3	-0.55	-0.183	110	-3.98	-0.036
Gamel			0.39			-0.23		-0.16		3	0.00	0.000	134	5.86	0.044
Ruiz			-0.78			-0.16				2	-0.94	-0.470	43	-6.31	-0.147
Martin, L								-0.10		1	-0.10	-0.100	37	-3.75	-0.101
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	31	-4.41	-0.142	1552	0.85	0.001
Error/PB/CI											0.00	-4.41		10.32	11.17

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Gallardo	0.51	-0.49	-0.49	-0.49	-0.49	-0.49	1.77			6.33	-0.17	-0.027	32.33	4.05	0.125
Rzepczynski							-0.26			0.67	-0.26	-0.390	8.00	-4.80	-0.600
Lawrence								-0.49		1.00	-0.49	-0.490	9.33	-3.47	-0.372
SUV	0.51	-0.49	-0.49	-0.49	-0.49	-0.49	1.51	-0.49	0.00	8.00	-0.92	-0.115	366.67	0.35	0.001
Error/PB/CI											0.00	-0.92		9.92	10.27

CUMULATIVES THROUGH 42 GAMES

Mariner	+Ops	+SUV	+Avg
Alonso	10	3.56	0.356
Espinosa	3	0.79	0.263
Cruz	163	10.01	0.061
Seager	160	9.27	0.058
Gamel	134	5.86	0.044
Cano	164	3.96	0.024
Dyson	124	1.31	0.011
Valencia	141	1.41	0.010
Segura	139	0.95	0.007
Motter	75	-0.23	-0.003
Smith	11	-0.12	-0.011
Haniger	88	-2.69	-0.031
Heredia	110	-3.98	-0.036
Powell	17	-0.77	-0.045
Vogelbach	9	-0.88	-0.098
Martin, L	37	-3.75	-0.101
Zunino	98	-11.23	-0.115
Ruiz	43	-6.31	-0.147
Freeman	13	-2.67	-0.205
Greenwich	4	-0.84	-0.210
Pitcher (NL)	5	-1.45	-0.290
Gosewich	4	-1.35	-0.338
SUV	1552	0.85	0.001
Error/PB/CI		10.32	11.17

Pitcher	+IP	+SUV	+Avg
Rzepczynski	8.00	-4.80	-0.600
Marshall	1.00	-0.49	-0.490
Curtis	1.00	-0.49	-0.490
Cloyd	1.00	-0.49	-0.490
Zych	13.00	-6.07	-0.467
Lawrence	9.33	-3.47	-0.372
Iwakuma	11.67	-3.59	-0.308
Bergman	26.67	-8.01	-0.300
Vincent	15.00	-4.29	-0.286
Scribner	5.33	-1.04	-0.195
Cishek	4.33	-0.76	-0.175
Paxton	42.00	-4.35	-0.104
Pagan	8.00	-0.77	-0.096
Altavilla	10.00	-0.90	-0.090
Hernandez	23.67	-1.58	-0.067
Miranda	43.67	0.98	0.022
Gaviglio	26.00	1.41	0.054
Phelps	3.67	0.27	0.074
Gallardo	32.33	4.05	0.125
Diaz	15.33	2.48	0.162
Moore	12.00	2.12	0.177
Overton	14.67	4.40	0.300
Whalen	5.33	2.32	0.435
De Jong	11.67	5.34	0.458
Freeman	1.00	0.51	0.510
Gonzales	4.33	2.47	0.570
Pazos	7.33	4.62	0.630
Ramirez	5.00	3.57	0.714
Martin, C	2.00	2.50	1.250
Fien	2.33	4.41	1.890
SUV	366.67	0.35	0.001
Error/PB/CI		9.92	10.27

GAME 128, AUGUST 23, SEATTLE-9 @ ATLANTA-6

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23	-0.22		-0.23	-0.74			0.87	-0.16	6	-0.71	-0.118	145	0.24	0.002
Alonso	-0.16		0.39	-0.16		-0.23		0.63	-0.10	6	0.37	0.062	16	3.93	0.246
Cano	0.23		1.11							2	1.34	0.670	166	5.30	0.032
Motter				0.23		-0.16		1.13		3	1.20	0.400	78	0.97	0.012
Valencia	-0.33		-0.61	-0.33		-0.10		0.63		5	-0.74	-0.148	146	0.67	0.005
Seager		0.39	1.02		-0.23		-0.23	1.74		5	2.69	0.538	165	11.96	0.072
Haniger		1.11	0.98		-0.16		-0.16	-0.23		5	1.54	0.308	93	-1.15	-0.012
Zunino		-0.61	-0.76		0.23		0.12	-0.16		5	-1.18	-0.236	103	-12.41	-0.120
Heredia		-0.05	0.12		0.12		0.23			4	0.42	0.105	114	-3.56	-0.031
Gamel								-0.10		1	-0.10	-0.100	135	5.76	0.043
Picher (NL)		0.89	-0.74		0.29				-0.23	4	0.21	0.053	9	-1.24	-0.138
Cruz							-0.45			1	-0.45	-0.450	164	9.56	0.058
SUV	-0.49	1.51	1.51	-0.49	-0.49	-0.49	-0.49	4.51	-0.49	47	4.59	0.098	1599	5.44	0.003
Error/PB/CI											0.00	4.59		10.32	15.76

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Ramirez	1.51	0.51	-0.49	-0.49	-0.49	-0.49				6.00	0.06	0.010	11.00	3.63	0.330
Rzepczynski							0.19			0.33	0.19	0.570	8.33	-4.61	-0.553
Phelps							1.08			0.67	1.08	1.620	4.33	1.35	0.312
Vincent								0.96		0.67	0.96	1.440	15.67	-3.33	-0.213
Diaz								-0.45	-0.49	1.33	-0.94	-0.705	16.67	1.54	0.092
SUV	1.51	0.51	-0.49	-0.49	-0.49	-0.49	1.51	0.51	-0.49	9.00	1.35	0.150	375.67	1.70	0.005
Error/PB/CI							0.24				0.24	1.59		10.16	11.86

GAME 131, AUGUST 27, SEATTLE-1 @ N.Y. YANKEES-10

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		0.39		-0.59		-0.10			4	-0.53	-0.133	149	-0.29	-0.002
Alonso	0.22		0.63		-0.41			-0.23		4	0.21	0.053	20	4.14	0.207
Cano	0.46		-0.59		-0.51					3	-0.64	-0.213	169	4.66	0.028
Motter			-0.41					-0.16		2	-0.57	-0.285	80	0.40	0.005
Cruz	1.22		-0.51			0.00		-0.10		4	0.61	0.153	168	10.17	0.061
Seager	-0.76			0.39		-0.40			-0.23	4	-1.00	-0.250	169	10.96	0.065
Haniger	-0.62			-0.40		-0.26			-0.16	4	-1.44	-0.360	97	-2.59	-0.027
Gamel		-0.23		-0.48		-0.22				3	-0.93	-0.310	138	4.83	0.035
Valencia									-0.10	1	-0.10	-0.100	147	0.57	0.004
Zunino		-0.16			0.39		-0.23			3	0.00	0.000	106	-12.41	-0.117
Heredia		-0.10			0.63		-0.16			3	0.37	0.123	117	-3.19	-0.027
SUV	0.51	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	35	-4.02	-0.115	1634	1.42	0.001
Error/PB/CI	0.22					0.39					0.61	-3.41		10.93	12.35

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Albers	2.84	-0.49	0.51	-0.49	-0.49	0.51				6.00	2.39	0.398			
Altavilla							1.51	-0.49		2.00	1.02	0.510	12.00	0.12	0.010
SUV	5.51	-0.49	0.51	-0.49	-0.49	0.51	1.51	-0.49	0.00	8.00	3.41	0.426	383.67	5.11	0.013
Error/PB/CI	2.67										2.67	6.08		12.83	17.94

GAME 134, AUGUST 30, SEATTLE-7 @ BALTIMORE-8

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Gamel	-0.23		0.68	-0.16			-0.23			4	0.06	0.015	142	4.89	0.034
Segura									0.12	1	0.12	0.120	150	-0.17	-0.001
Alonso	0.44		0.44	-0.10						3	0.78	0.260	23	4.92	0.214
Valencia							-0.16		-0.22	2	-0.38	-0.190	149	0.19	0.001
Cruz	-0.37		1.32		-0.23		-0.10			4	0.62	0.155	172	10.79	0.063
Cano	-0.33		0.68		-0.16			-0.23		4	-0.04	-0.010	173	4.62	0.027
Seager		-0.23	-0.86		-0.10			-0.16		4	-1.35	-0.338	173	9.61	0.056
Haniger		-0.16	1.88			0.63		1.00		4	3.35	0.838	101	0.76	0.008
Zunino		-0.10	1.71			-0.42		-0.10		4	1.09	0.273	110	-11.32	-0.103
Heredia			-0.56			0.22			-0.23	4	-0.57	-0.143	121	-3.76	-0.031
Motter			0.22	-0.23		-0.92			-0.16	4	-1.09	-0.273	84	-0.69	-0.008
SUV	-0.49	-0.49	5.51	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	38	2.59	0.068	1672	4.01	0.002
Error/PB/CI											0.00	2.59		10.93	14.94

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Miranda	-0.49	1.51	-0.71	2.51	0.99					4.33	3.81	0.879	48.00	4.79	0.100
Pagan					-0.48	0.43				1.00	-0.05	-0.050	9.00	-0.82	-0.091
Phelps						0.08				0.67	0.08	0.120	5.00	1.43	0.286
Vincent							-0.49			1.00	-0.49	-0.490	16.67	-3.82	-0.229
Bergman								-0.04		0.67	-0.04	-0.060	27.33	-8.05	-0.295
Rzepczynski								0.55		0.33	0.55	1.650	8.67	-4.06	-0.468
SUV	-0.49	1.51	-0.49	2.51	0.51	0.51	-0.49	0.51	0.00	8.00	3.86	0.483	391.67	8.97	0.023
Error/PB/CI			0.22								0.22	4.08		13.05	22.02

GAME 137, SEPTEMBER 3, OAKLAND-2 @ SEATTLE-10

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	0.39	-1.12		0.23		0.63		0.63		5	0.76	0.152	155	0.59	0.004
Alonso	-0.40	-0.39		0.12		0.39		1.00		5	0.72	0.144	28	5.64	0.201
Cano	1.78		0.39	1.00		-1.18		0.76		5	2.75	0.550	178	7.37	0.041
Cruz	0.22		-0.40	0.29		-0.33		1.00		5	0.78	0.156	177	11.57	0.065
Seager	-0.26		-0.26	-0.74			-0.23	0.87		5	-0.62	-0.124	178	8.99	0.051
Haniger	0.23		0.40		-0.21		1.00	-0.22		5	1.20	0.240	106	1.96	0.018
Gamel	-0.45		-0.62		-0.42		-0.16	0.06		5	-1.59	-0.318	147	3.30	0.022
Heredia		0.39		-0.23	-0.10		-0.10	0.23		5	0.19	0.038	126	-3.57	-0.028
Ruiz		0.63		-0.16		1.00		0.63		4	2.10	0.525	47	-4.21	-0.090
Beckham								-0.45		1	-0.45	-0.450			
SUV	1.51	-0.49	-0.49	0.51	-0.49	0.51	0.51	4.51	0.00	45	5.84	0.130	1717	9.85	0.006
Error/PB/CI					0.24						0.24	6.08		11.17	21.02

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Albers	-0.49	-0.49	-0.49	-0.49	-0.49	0.51				6.00	-1.94	-0.323	12.00	0.45	0.037
Pagan							-0.49	0.63		1.00	0.14	0.140	10.00	-0.68	-0.068
Rzepczynski								1.39		0.00	1.39		8.67	-2.67	-0.308
Vincent								-1.51		1.00	-1.51	-1.510	17.67	-5.33	-0.302
Simmons									-0.49	1.00	-0.49	-0.490			
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	0.51	-0.49	9.00	-2.41	-0.268	400.67	6.56	0.016
Error/PB/CI											0.00	-2.41		13.05	19.61

GAME 140, SEPTEMBER 6, HOUSTON-5 @ SEATTLE-3

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23			-0.23		0.87	-0.10			4	0.31	0.078	159	0.90	0.006
Alonso	-0.16			-0.16		-0.42		-0.23		4	-0.97	-0.243	32	4.67	0.146
Cano	-0.10			0.12		0.54		0.22		4	0.78	0.195	182	8.15	0.045
Cruz		-0.23		-0.22		0.44		-0.26		4	-0.27	-0.068	181	11.30	0.062
Seager		-0.16			1.00	-0.47		-0.22		4	0.15	0.038	182	9.14	0.050
Haniger		-0.10			-0.23	1.06			0.39	4	1.12	0.280	110	3.08	0.028
Gamel			-0.23		-0.16	-0.51			-0.78	4	-1.68	-0.420	151	1.62	0.011
Zunino			-0.16		0.12		-0.23		-0.10	4	-0.37	-0.093	114	-11.69	-0.103
Heredia			-0.10		-0.22		-0.16			3	-0.48	-0.160	129	-4.05	-0.031
SUV	-0.49	-0.49	-0.49	-0.49	0.51	1.51	-0.49	-0.49	-0.49	35	-1.41	-0.040	1752	8.44	0.005
Error/PB/CI											0.00	-1.41		11.17	19.61

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Moore	-0.49	-0.49	-0.49	1.51	-0.49	-0.61				6.00	-1.06	-0.177	18.00	1.06	0.059
Rzepczynski							0.43			0.33	0.43	1.290	9.00	-2.24	-0.249
Vincent							0.08			0.67	0.08	0.120	18.33	-5.25	-0.286
Pagan								-0.49		1.00	-0.49	-0.490	11.00	-1.17	-0.106
Diaz									1.51	1.00	1.51	1.510	17.67	3.05	0.173
SUV	-0.49	-0.49	-0.49	1.51	-0.49	-0.49	0.51	-0.49	1.51	9.00	0.47	0.052	409.67	7.03	0.017
Error/PB/CI						0.12					0.12	0.59		13.17	20.20

GAME 143, SEPTEMBER 10, L.A. ANGELS-5 @ SEATTLE-3

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23	-0.45			-0.16			1.00		4	0.16	0.040	163	1.06	0.007
Alonso	-0.16		-0.23		-0.10			-0.23		4	-0.72	-0.180	36	3.95	0.110
Cano	-0.10		-0.16			-0.23		-0.16		4	-0.65	-0.163	186	7.50	0.040
Cruz		-0.23	-0.10			0.22		-0.10		4	-0.21	-0.053	185	11.09	0.060
Seager		0.44		0.39		-0.26			-0.23	4	0.34	0.085	186	9.48	0.051
Haniger		-0.31		-0.40		-0.22			-0.16	4	-1.09	-0.273	114	1.99	0.017
Gamel		1.00		-0.26			-0.23		-0.10	4	0.41	0.103	155	2.03	0.013
Zunino		0.83		-0.22			-0.16			3	0.45	0.150	117	-11.24	-0.096
Heredia		0.23			-0.23		-0.10			3	-0.10	-0.033	132	-4.15	-0.031
SUV	-0.49	1.51	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	34	-1.41	-0.041	1786	7.03	0.004
Error/PB/CI											0.00	-1.41		11.17	18.20

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Ramirez	0.51	-0.49	-0.49	-0.49	-0.49	-0.49	0.61			6.67	-1.33	-0.200	17.67	2.30	0.130
Pagan							-0.10			0.33	-0.10	-0.300	11.33	-1.27	-0.112
Vincent								1.90		0.67	1.90	2.850	19.00	-3.35	-0.176
Rzepczynski								0.83		0.00	0.83		9.00	-1.41	-0.157
Altavilla								-0.22		0.33	-0.22	-0.660	12.33	-0.10	-0.008
Gallardo									-0.49	1.00	-0.49	-0.490	33.33	3.56	0.107
SUV	0.51	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	2.51	-0.49	9.00	0.59	0.066	418.67	7.62	0.018
Error/PB/CI											0.00	0.59		13.17	20.79

CUMULATIVES THROUGH 48 GAMES

Mariner	+Ops	+SUV	+Avg
Espinosa	3	0.79	0.263
Alonso	36	3.95	0.110
Cruz	185	11.09	0.060
Seager	186	9.48	0.051
Cano	186	7.50	0.040
Haniger	114	1.99	0.017
Gamel	155	2.03	0.013
Dyson	124	1.31	0.011
Segura	163	1.06	0.007
Valencia	149	0.19	0.001
Motter	84	-0.69	-0.008
Smith	11	-0.12	-0.011
Heredia	132	-4.15	-0.031
Powell	17	-0.77	-0.045
Ruiz	47	-4.21	-0.090
Zunino	117	-11.24	-0.096
Vogelbach	9	-0.88	-0.098
Martin, L	37	-3.75	-0.101
Pitcher (NL)	9	-1.24	-0.138
Freeman	13	-2.67	-0.205
Greenwich	4	-0.84	-0.210
Gosewich	4	-1.35	-0.338
Beckham	1	-0.45	-0.450
SUV	1786	7.03	0.004
Error/PB/CI		11.17	18.20

Pitcher	+IP	+SUV	+Avg
Marshall	1.00	-0.49	-0.490
Curtis	1.00	-0.49	-0.490
Cloyd	1.00	-0.49	-0.490
Simmons	1.00	-0.49	-0.490
Zych	13.00	-6.07	-0.467
Lawrence	9.33	-3.47	-0.372
Iwakuma	11.67	-3.59	-0.308
Bergman	27.33	-8.05	-0.295
Scribner	5.33	-1.04	-0.195
Vincent	19.00	-3.35	-0.176
Cishek	4.33	-0.76	-0.175
Rzepczynski	9.00	-1.41	-0.157
Pagan	11.33	-1.27	-0.112
Paxton	42.00	-4.35	-0.104
Hernandez	23.67	-1.58	-0.067
Altavilla	12.33	-0.10	-0.008
Albers	12.00	0.45	0.037
Gaviglio	26.00	1.41	0.054
Moore	18.00	1.06	0.059
Miranda	48.00	4.79	0.100
Gallardo	33.33	3.56	0.107
Ramirez	17.67	2.30	0.130
Diaz	17.67	3.05	0.173
Phelps	5.00	1.43	0.286
Overton	14.67	4.40	0.300
Whalen	5.33	2.32	0.435
De Jong	11.67	5.34	0.458
Freeman	1.00	0.51	0.510
Gonzales	4.33	2.47	0.570
Pazos	7.33	4.62	0.630
Martin, C	2.00	2.50	1.250
Fien	2.33	4.41	1.890
SUV	418.67	7.62	0.018
Error/PB/CI		13.17	20.79

GAME 146, SEPTEMBER 13, SEATTLE-8 @ TEXAS-1

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	0.39		-0.22		1.77		0.39	-0.78		5	1.55	0.310	168	2.61	0.016
Haniger	-0.78			-0.23	0.12		1.11	-0.10		5	0.12	0.024	119	2.11	0.018
Cano	-0.10			-0.16	0.29		-0.61			4	-0.58	-0.145	190	6.92	0.036
Beckham									-0.23	1	-0.23	-0.230	2	-0.68	-0.340
Cruz		-0.23		0.12	-0.51		0.22			4	-0.40	-0.100	189	10.69	0.057
Vogelbach									-0.16	1	-0.16	-0.160	10	-1.04	-0.104
Seager		-0.16		-0.22		-0.23	1.56		0.12	5	1.07	0.214	191	10.55	0.055
Valencia		-0.10			-0.23	0.22	0.16		-0.22	5	-0.17	-0.034	154	0.02	0.000
Zunino			0.39		1.00	0.44	1.00			4	2.83	0.708	121	-8.41	-0.070
Heredia			-0.40		0.22	-0.41	-0.10			4	-0.69	-0.173	136	-4.84	-0.036
Gamel			-0.26		-0.15	-0.51		0.39		4	-0.53	-0.133	159	1.50	0.009
SUV	-0.49	-0.49	-0.49	-0.49	2.51	-0.49	4.51	-0.49	-0.49	42	2.81	0.067	1828	9.84	0.005
Error/PB/CI							0.78				0.78	3.59		11.95	21.79

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Leake	-0.49	-1.17	-0.49	-0.49	-0.49	0.96				5.67	-2.17	-0.383			
Pazos						-0.45	-0.23			0.67	-0.68	-1.020	8.00	3.94	0.493
Pagan							-0.26			0.67	-0.26	-0.390	12.00	-1.53	-0.128
Rzepczynski								-0.49		1.00	-0.49	-0.490	10.00	-1.90	-0.190
Diaz									-0.49	1.00	-0.49	-0.490	18.67	2.56	0.137
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	-0.49	-0.49	9.00	-4.09	-0.454	427.67	3.53	0.008
Error/PB/CI		0.68									0.68	-3.41		13.85	17.38

GAME 149, SEPTEMBER 16, SEATTLE-6 @ HOUSTON-8

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		-0.33			1.00		0.63	-0.16	5	0.91	0.182	173	3.52	0.020
Haniger	-0.16			-0.23		0.39		0.87	1.00	5	1.87	0.374	124	3.98	0.032
Cano	-0.10			-0.16		-0.40		1.13	-0.10	5	0.37	0.074	195	7.29	0.037
Cruz		-0.23		-0.10		-0.26		1.24		4	0.65	0.163	193	11.34	0.059
Seager		-0.16			-0.23	-0.22		0.76		4	0.15	0.038	195	10.70	0.055
Valencia		-0.10			0.22					2	0.12	0.060	156	0.14	0.001
Alonso							-0.23			1	-0.23	-0.230	37	3.72	0.101
Zunino								-0.59		1	-0.59	-0.590	122	-9.00	-0.074
Heredia			-0.23		0.68		-0.16			3	0.29	0.097	139	-4.55	-0.033
Gamel								-0.47		1	-0.47	-0.470	160	1.03	0.006
Ruiz			0.22		0.44		-0.10	-0.45		4	0.11	0.028	51	-4.10	-0.080
Motter			-0.26		-1.60					2	-1.86	-0.930	86	-2.55	-0.030
Hannemann								0.39	-0.23	2	0.16	0.080			
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	3.51	0.51	39	1.48	0.038	1867	11.32	0.006
Error/PB/CI			0.11								0.11	1.59		12.06	23.38

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Ramirez	-0.49	3.51	-0.49	-0.49	2.26					4.00	4.30	1.075	21.67	6.60	0.305
Simmons					-0.75					1.00	-0.75	-0.750	2.00	-1.24	-0.620
Miranda						-0.61				1.00	-0.61	-0.610	49.00	4.18	0.085
Vincent							0.51			1.00	0.51	0.510	20.00	-2.84	-0.142
Garton								0.51		1.00	0.51	0.510			
SUV	-0.49	3.51	-0.49	-0.49	1.51	-0.49	0.51	0.51	0.00	8.00	3.96	0.495	435.67	7.49	0.017
Error/PB/CI						0.12					0.12	4.08		13.97	21.46

GAME 152, SEPTEMBER 20, TEXAS-8 @ SEATTLE-6

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	0.39		-0.16		0.12		0.44	-0.48		5	0.31	0.062	178	3.83	0.022
Haniger	-0.40		1.00		-0.22		-0.47	-0.22		5	-0.31	-0.062	129	3.67	0.028
Cano	0.44		-0.10			0.39	1.60		-0.23	5	2.10	0.420	200	9.39	0.047
Cruz	-0.92			1.00		0.63	0.23		-0.16	5	0.78	0.156	198	12.12	0.061
Seager		-0.23		-0.23		0.87	0.29		0.12	5	0.82	0.164	200	11.52	0.058
Alonso		0.22		-0.16		-0.99	-0.74			4	-1.67	-0.418	41	2.05	0.050
Ruiz									-0.22	1	-0.22	-0.220	52	-4.32	-0.083
Zunino		-0.26		-0.10		-0.39		0.63		4	-0.12	-0.030	126	-9.12	-0.072
Gamel		-0.22			-0.23		0.39	1.00		4	0.94	0.235	164	1.97	0.012
Heredia			-0.23		-0.16		-0.40			3	-0.79	-0.263	142	-5.34	-0.038
Valencia								-0.42		1	-0.42	-0.420	157	-0.28	-0.002
SUV	-0.49	-0.49	0.51	0.51	-0.49	0.51	1.51	0.51	-0.49	42	1.42	0.034	1909	12.74	0.007
Error/PB/CI							0.17				0.17	1.59		12.23	24.97

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Hernandez	-0.49	-0.49	-0.49	3.11						3.33	1.64	0.492	27.00	0.06	0.002
Albers				2.40	-0.49	1.02				1.67	2.93	1.758	13.67	3.38	0.247
Lawrence						-0.51	-0.49			2.00	-1.00	-0.500	11.33	-4.47	-0.394
Simmons								-0.49		1.00	-0.49	-0.490	3.00	-1.73	-0.577
Diaz									-0.49	1.00	-0.49	-0.490	19.67	2.07	0.105
SUV	-0.49	-0.49	-0.49	6.51	-0.49	0.51	-0.49	-0.49	-0.49	9.00	2.59	0.288	444.67	10.08	0.023
Error/PB/CI				1.00							1.00	3.59		14.97	25.05

GAME 155, SEPTEMBER 23, CLEVELAND-11 @ SEATTLE-4

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		0.12		-0.16		-0.23			4	-0.50	-0.125	182	3.33	0.018
Motter									0.76	1	0.76	0.760	87	-1.79	-0.021
Haniger	0.33		0.23		-0.10		-0.16		-1.18	5	-0.88	-0.176	134	2.79	0.021
Cano	-0.26		-0.45			-0.23	-0.10		0.89	5	-0.15	-0.030	205	9.24	0.045
Cruz	-0.33			-0.23		0.22		1.00	-0.22	5	0.44	0.088	203	12.56	0.062
Seager		-0.23		0.22		1.22		0.39		4	1.60	0.400	204	13.12	0.064
Alonso		-0.16		-0.26		-0.37				3	-0.79	-0.263	44	1.26	0.029
Beckham								-0.40		1	-0.40	-0.400	3	-1.08	-0.360
Gamel		-0.10		0.40						2	0.30	0.150	166	2.27	0.014
Valencia						0.12		-0.48		2	-0.36	-0.180	159	-0.64	-0.004
Zunino			0.39	-0.62		0.29			0.39	4	0.45	0.113	130	-8.67	-0.067
Heredia			-0.78		-0.23	-0.74				3	-1.75	-0.583	145	-7.09	-0.049
Vogelbach									0.87	1	0.87	0.870	11	-0.17	-0.015
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	0.51	1.51	40	-0.41	-0.010	1949	12.33	0.006
Error/PB/CI											0.00	-0.41		12.23	24.56

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Moore	0.51	-0.49	1.05	-0.49						4.00	0.58	0.145	22.00	1.64	0.075
Gonzales					-0.49	-0.71				2.00	-1.20	-0.600	6.33	1.27	0.201
Altavilla							1.12			1.00	1.12	1.120	13.33	1.02	0.077
Garton								0.29		1.00	0.29	0.290	2.00	0.80	0.400
Miranda									4.51	1.00	4.51	4.510	50.00	8.69	0.174
SUV	0.51	-0.49	1.51	-0.49	-0.49	-0.49	1.51	0.51	4.51	9.00	5.30	0.589	453.67	15.38	0.034
Error/PB/CI			0.46			0.22	0.39	0.22			1.29	6.59		16.26	31.64

GAME 158, SEPTEMBER 26, SEATTLE-6 @ OAKLAND-3

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Gamel	0.63		0.22		-0.10		1.00		-0.26	5	1.49	0.298	171	3.76	0.022
Haniger	-0.42		-0.48			-0.23	-0.31		-0.33	5	-1.77	-0.354	139	1.02	0.007
Cano	-0.37			-0.23		-0.16	-0.39			4	-1.15	-0.288	209	8.09	0.039
Cruz	-0.33			0.22		-0.10		0.39		4	0.18	0.045	207	12.74	0.062
Alonso		0.39		1.78			0.39	-0.40		4	2.16	0.540	48	3.42	0.071
Zunino		-0.40		-0.16			0.63	0.44		4	0.51	0.128	134	-8.16	-0.061
Valencia		0.44		-0.10			1.98			3	2.32	0.773	162	1.68	0.010
Hannemann								-0.92		1	-0.92	-0.920	3	-0.76	-0.253
Beckham		-0.92			-0.23		0.39		0.50	4	-0.26	-0.065	7	-1.34	-0.191
Motter			-0.23		-0.16		-0.18		-0.40	4	-0.97	-0.243	91	-2.76	-0.030
SUV	-0.49	-0.49	-0.49	1.51	-0.49	-0.49	3.51	-0.49	-0.49	38	1.59	0.042	1987	13.92	0.007
Error/PB/CI											0.00	1.59		12.23	26.15

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Paxton	0.51	-0.49	-0.49	-0.49	-0.49	1.77				5.33	0.32	0.060	47.33	-4.03	-0.085
Pagan						-0.26	-0.49			1.67	-0.75	-0.450	13.67	-2.28	-0.167
Vincent								-0.49		1.00	-0.49	-0.490	21.00	-3.33	-0.159
Diaz									-0.49	1.00	-0.49	-0.490	20.67	1.58	0.076
SUV	0.51	-0.49	-0.49	-0.49	-0.49	1.51	-0.49	-0.49	-0.49	9.00	-1.41	-0.157	462.67	13.97	0.030
Error/PB/CI											0.00	-1.41		16.26	30.23

GAME 161, SEPTEMBER 30, SEATTLE-6 @ L.A. ANGELS-4

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Gamel	-0.23		-0.16		-0.10		-0.22		-0.23	5	-0.94	-0.188	176	2.82	0.016
Haniger	-0.50		0.12			0.63		0.39	0.44	5	1.08	0.216	144	2.10	0.015
Cano	0.46		-0.22			-0.42		0.63	-0.37	5	0.08	0.016	214	8.17	0.038
Cruz	-0.22			-0.23		0.46		1.00	-0.33	5	0.68	0.136	212	13.42	0.063
Seager		-0.23		-0.16		-0.65		1.98		4	0.94	0.235	208	14.06	0.068
Alonso		0.22		-0.10		-0.51		1.00		4	0.61	0.153	52	4.03	0.078
Ruiz		0.44			-0.23		-0.23	-0.23		4	-0.25	-0.063	56	-4.57	-0.082
Beckham		-0.92			-0.16		0.22	-0.16		4	-1.02	-0.255	11	-2.36	-0.215
Hannemann			-0.23		1.00		-0.26	-0.10		4	0.41	0.103	7	-0.35	-0.050
SUV	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	-0.49	4.51	-0.49	40	1.59	0.040	2027	15.51	0.008
Error/PB/CI											0.00	1.59		12.23	27.74

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Albers	-0.49	-0.49	-0.49	0.51	1.21					4.33	0.25	0.058	18.00	3.63	0.202
Altavilla					0.30	0.51				1.67	0.81	0.486	15.00	1.83	0.122
Lawrence							-0.49			1.00	-0.49	-0.490	12.33	-4.96	-0.402
Pagan								-0.04		0.67	-0.04	-0.060	14.33	-2.32	-0.162
Rzepczynski								0.29		0.00	0.29		10.00	-1.61	-0.161
Diaz								-0.74	-0.49	1.33	-1.23	-0.923	22.00	0.35	0.016
SUV	-0.49	-0.49	-0.49	0.51	1.51	0.51	-0.49	-0.49	-0.49	9.00	-0.41	-0.046	471.67	13.56	0.029
Error/PB/CI											0.00	-0.41		16.26	29.82

CUMULATIVES THROUGH 54 GAMES

Mariner	+Ops	+SUV	+Avg
Espinosa	3	0.79	0.263
Alonso	52	4.03	0.078
Seager	208	14.06	0.068
Cruz	212	13.42	0.063
Cano	214	8.17	0.038
Segura	182	3.33	0.018
Gamel	176	2.82	0.016
Haniger	144	2.10	0.015
Dyson	124	1.31	0.011
Valencia	162	1.68	0.010
Smith	11	-0.12	-0.011
Vogelbach	11	-0.17	-0.015
Motter	91	-2.76	-0.030
Powell	17	-0.77	-0.045
Heredia	145	-7.09	-0.049
Hanneman	7	-0.35	-0.050
Zunino	134	-8.16	-0.061
Ruiz	56	-4.57	-0.082
Martin, L	37	-3.75	-0.101
Pitcher (NL)	9	-1.24	-0.138
Freeman	13	-2.67	-0.205
Greenwich	4	-0.84	-0.210
Beckham	11	-2.36	-0.215
Gosewich	4	-1.35	-0.338
SUV	2027	15.51	0.008
Error/PB/CI		12.23	27.74

Pitcher	+IP	+SUV	+Avg
Simmons	3.00	-1.73	-0.577
Marshall	1.00	-0.49	-0.490
Curtis	1.00	-0.49	-0.490
Cloyd	1.00	-0.49	-0.490
Zych	13.00	-6.07	-0.467
Lawrence	12.33	-4.96	-0.402
Leake	5.67	-2.17	-0.383
Iwakuma	11.67	-3.59	-0.308
Bergman	27.33	-8.05	-0.295
Scribner	5.33	-1.04	-0.195
Cishek	4.33	-0.76	-0.175
Pagan	14.33	-2.32	-0.162
Rzepczynski	10.00	-1.61	-0.161
Vincent	21.00	-3.33	-0.159
Paxton	47.33	-4.03	-0.085
Hernandez	27.00	0.06	0.002
Diaz	22.00	0.35	0.016
Gaviglio	26.00	1.41	0.054
Moore	22.00	1.64	0.075
Gallardo	33.33	3.56	0.107
Altavilla	15.00	1.83	0.122
Miranda	50.00	8.69	0.174
Gonzales	6.33	1.27	0.201
Albers	18.00	3.63	0.202
Phelps	5.00	1.43	0.286
Overton	14.67	4.40	0.300
Ramirez	21.67	6.60	0.305
Garton	2.00	0.80	0.400
Whalen	5.33	2.32	0.435
De Jong	11.67	5.34	0.458
Pazos	8.00	3.94	0.493
Freeman	1.00	0.51	0.510
Martin, C	2.00	2.50	1.250
Fien	2.33	4.41	1.890
SUV	471.67	13.56	0.029
Error/PB/CI		16.26	29.82

AS ABOVE, BUT RANKED BY MOST OPPORTUNITIES & INNINGS PITCHED

Mariner	+Ops	+SUV	+Avg
Cano	214	8.17	0.038
Cruz	212	13.42	0.063
Seager	208	14.06	0.068
Segura	182	3.33	0.018
Gamel	176	2.82	0.016
Valencia	162	1.68	0.010
Heredia	145	-7.09	-0.049
Haniger	144	2.10	0.015
Zunino	134	-8.16	-0.061
Dyson	124	1.31	0.011
Motter	91	-2.76	-0.030
Ruiz	56	-4.57	-0.082
Alonso	52	4.03	0.078
Martin, L	37	-3.75	-0.101
Powell	17	-0.77	-0.045
Freeman	13	-2.67	-0.205
Smith	11	-0.12	-0.011
Vogelbach	11	-0.17	-0.015
Beckham	11	-2.36	-0.215
Pitcher (NL)	9	-1.24	-0.138
Hanneman	7	-0.35	-0.050
Greenwich	4	-0.84	-0.210
Gosewich	4	-1.35	-0.338
Espinosa	3	0.79	0.263
SUV	2027	15.51	0.008
Error/PB/CI		12.23	27.74

Pitcher	+IP	+SUV	+Avg
Miranda	50.00	8.69	0.174
Paxton	47.33	-4.03	-0.085
Gallardo	33.33	3.56	0.107
Bergman	27.33	-8.05	-0.295
Hernandez	27.00	0.06	0.002
Gaviglio	26.00	1.41	0.054
Moore	22.00	1.64	0.075
Diaz	22.00	0.35	0.016
Ramirez	21.67	6.60	0.305
Vincent	21.00	-3.33	-0.159
Albers	18.00	3.63	0.202
Altavilla	15.00	1.83	0.122
Overton	14.67	4.40	0.300
Pagan	14.33	-2.32	-0.162
Zych	13.00	-6.07	-0.467
Lawrence	12.33	-4.96	-0.402
Iwakuma	11.67	-3.59	-0.308
De Jong	11.67	5.34	0.458
Rzepczynski	10.00	-1.61	-0.161
Pazos	8.00	3.94	0.493
Gonzales	6.33	1.27	0.201
Leake	5.67	-2.17	-0.383
Scribner	5.33	-1.04	-0.195
Whalen	5.33	2.32	0.435
Phelps	5.00	1.43	0.286
Cishek	4.33	-0.76	-0.175
Simmons	3.00	-1.73	-0.577
Fien	2.33	4.41	1.890
Garton	2.00	0.80	0.400
Martin, C	2.00	2.50	1.250
Marshall	1.00	-0.49	-0.490
Curtis	1.00	-0.49	-0.490
Cloyd	1.00	-0.49	-0.490
Freeman	1.00	0.51	0.510
SUV	471.67	13.56	0.029
Error/PB/CI		16.26	29.82

COMPLETE MARINER BATTING STATISTICS FOR 2017 SEASON*

Rk	Pos	Name	Age	G	PA	AB	R	H	2B	3B	HR	RBI	SB	CS	BB	SO	BA	OBP	SLG	OPS	OPS+	TB	GDP	HBP	SH	SF	IBB
1	C	Mike Zunino	26	124	435	387	52	97	25	0	25	64	1	0	39	160	.251	.331	.509	.840	124	197	8	8	0	1	0
2	1B	Danny Valencia	32	130	500	450	54	115	19	3	15	66	2	2	40	122	.256	.314	.411	.725	96	185	16	2	0	8	0
3	2B	Robinson Cano*	34	150	648	592	79	166	33	0	23	97	1	0	49	85	.280	.338	.453	.791	113	268	18	4	0	3	8
4	SS	Jean Segura	27	125	566	524	80	157	30	2	11	45	22	8	34	83	.300	.349	.427	.776	110	224	14	6	0	1	3
5	3B	Kyle Seager*	29	154	650	578	72	144	33	1	27	88	2	1	58	110	.249	.323	.450	.773	108	260	6	8	0	6	6
6	LF	Ben Gamel*	25	134	550	509	68	140	27	5	11	59	4	1	36	122	.275	.322	.413	.735	99	210	8	1	1	3	1
7	CF	Jarrod Dyson*	32	111	390	346	56	87	13	3	5	30	28	7	28	55	.251	.324	.350	.674	84	121	3	10	4	2	2
8	RF	Mitch Haniger	26	96	410	369	58	104	25	2	16	47	5	4	31	93	.282	.352	.491	.843	126	181	9	9	1	0	0
9	DH	Nelson Cruz	36	155	645	556	91	160	28	0	39	119	1	1	70	140	.288	.375	.549	.924	147	305	15	12	0	7	7
Rk	Pos	Name	Age	G	PA	AB	R	H	2B	3B	HR	RBI	SB	CS	BB	SO	BA	OBP	SLG	OPS	OPS+	TB	GDP	HBP	SH	SF	IBB
10	OF	Guillermo Heredia	26	123	426	386	43	96	16	0	6	24	1	5	27	64	.249	.315	.337	.652	79	130	9	11	1	1	2
11	SS	Taylor Motter	27	92	280	258	29	51	12	0	7	26	12	1	21	62	.198	.257	.326	.583	58	84	9	0	0	1	0
12	1B	Yonder Alonso*	30	42	150	132	20	35	5	0	6	18	1	0	18	30	.265	.353	.439	.793	115	58	3	0	0	0	0
13	C	Carlos Ruiz	38	53	145	125	14	27	8	0	3	11	1	0	14	38	.216	.313	.352	.665	81	44	4	4	1	1	0
14	OF	Leonys Martin*	29	34	122	115	12	20	2	1	3	8	6	4	5	29	.174	.221	.287	.508	37	33	2	2	0	0	1
15	UT	Boog Powell*	24	23	43	36	6	7	0	0	0	2	0	0	6	9	.194	.310	.194	.504	43	7	1	0	1	0	0
16	UT	Mike Freeman*	29	16	34	30	3	2	0	0	1	1	0	0	4	9	.067	.176	.167	.343	-5	5	0	0	0	0	1
17	UT	Daniel Vogelbach*	24	16	31	28	0	6	1	0	0	2	0	0	3	9	.214	.290	.250	.540	50	7	2	0	0	0	0
18	C	Tuffy Gosewisch	33	11	31	28	1	2	0	0	0	0	0	0	1	14	.071	.103	.071	.175	-51	2	2	0	2	0	0
19	UT	Jacob Hannemann*	26	11	20	20	3	3	0	0	1	1	0	1	0	4	.150	.150	.300	.450	18	6	0	0	0	0	0
20	UT	Tyler Smith	25	10	19	16	2	3	1	0	0	1	0	0	1	8	.188	.263	.250	.513	42	4	0	1	0	1	0
21	IF	Gordon Beckham	30	11	18	17	2	3	0	0	0	0	1	0	1	2	.176	.222	.176	.399	11	3	2	0	0	0	0
22	IF	Danny Espinosa#	30	8	17	16	2	3	2	0	0	2	1	0	1	7	.188	.235	.313	.548	48	5	0	0	0	0	0
23	C	Mike Marjama	27	5	9	9	1	3	1	0	1	1	0	0	0	1	.333	.333	.778	1.111	189	7	0	0	0	0	0
Rk	Pos	Name	Age	G	PA	AB	R	H	2B	3B	HR	RBI	SB	CS	BB	SO	BA	OBP	SLG	OPS	OPS+	TB	GDP	HBP	SH	SF	IBB
24	P	Ariel Miranda*	28	4	6	6	1	0	0	0	0	0	0	0	0	3	.000	.000	.000	.000	-100	0	0	0	0	0	0
25	P	Sam Gaviglio	27	2	5	5	1	1	0	0	0	0	0	0	0	2	.200	.200	.200	.400	10	1	0	0	0	0	0
26	P	Andrew Albers	31	1	3	1	0	1	0	0	0	1	0	0	0	0	1.000	1.000	1.000	2.000	450	1	0	0	2	0	0
27	P	Erasmo Ramirez	27	1	3	3	0	2	0	0	0	1	0	0	0	1	.667	.667	.667	1.333	267	2	0	0	0	0	0
28	P	Yovani Gallardo	31	1	2	2	0	1	0	0	0	0	0	0	0	0	.500	.500	.500	1.000	175	1	0	0	0	0	0
29	P	Emilio Pagan*	26	2	2	2	0	0	0	0	0	0	0	0	0	1	.000	.000	.000	.000	-100	0	0	0	0	0	0
30	P	Marco Gonzales*	25	1	2	1	0	0	0	0	0	0	0	0	0	1	.000	.000	.000	.000	-100	0	0	0	1	0	0
31	P	Christian Bergman	29	1	1	1	0	0	0	0	0	0	0	0	0	0	.000	.000	.000	.000	-100	0	0	0	0	0	0
32	P	Casey Lawrence	29	1	1	1	0	0	0	0	0	0	0	0	0	1	.000	.000	.000	.000	-100	0	0	0	0	0	0
33	P	Jean Machi	35	1	1	1	0	0	0	0	0	0	0	0	0	1	.000	.000	.000	.000	-100	0	0	0	0	0	0
34	P	Edwin Diaz	23	6	1	1	0	0	0	0	0	0	0	0	0	1	.000	.000	.000	.000	-100	0	0	0	0	0	0
35	P	Nick Vincent	30	6	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
36	P	Andrew Moore	23	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
37	P	Tony Zych	26	4	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
38	P	Chris Heston	29	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
39	P	James Pazos	26	4	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
40	P	Dan Altavilla	24	5	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
41	P	Dillon Overton*	25	1	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
42	P	Felix Hernandez	31	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
43	P	Ryan Weber	26	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
44	P	Steve Cishek	31	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
45	P	Cody Martin	27	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
46	P	David Phelps	30	1	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
47	P	James Paxton*	28	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
48	P	Zac Curtis*	24	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
49	P	Robert Whalen	23	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
50	P	Thyago Vieira	23	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
51	P	Tyler Cloyd	30	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
52	P	Hisashi Iwakuma	36	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
53	P	Ryan Garton	27	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
54	P	Evan Marshall	27	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
55	P	Max Povse	23	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
56	P	Shae Simmons	26	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
57	P	Marc Rzepczynski*	31	6	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
58	P	Evan Scribner	31	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
59	P	Casey Fien	33	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
60	P	Chase De Jong*	23	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
61	P	Mike Leake	29	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0	0	0	0
		Team Totals	**29.7**	**162**	**6166**	**5551**	**750**	**1436**	**281**	**17**	**200**	**714**	**89**	**35**	**487**	**1267**	**.259**	**.325**	**.424**	**.749**	**102**	**2351**	**131**	**78**	**14**	**35**	**31**
		Rank in 15 AL t...	**ms**			**7**	**7**	**7**	**7**	**11**	**10**		**8**	**12**	**12**	**6**	**6**	**6**	**8**	**7**		**8**		**2**		**12**	
		Non-Pitcher To...	**s**	**29.7**	**162**	**6139**	**5527**	**748**	**1431**	**281**	**17**	**200**	**712**	**89**	**35**	**487**	**1256**	**.259**	**.326**	**.424**	**.750**	**103**	**2346**	**131**	**78**	**11**	**35**	**31**
		Pitcher Totals	**24.7**	**162**	**27**	**24**	**2**	**5**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**11**	**.208**	**.208**	**.208**	**.417**	**15**	**5**	**0**	**0**	**3**	**0**	**0**
Rk	Pos	Name	Age	G	PA	AB	R	H	2B	3B	HR	RBI	SB	CS	BB	SO	BA	OBP	SLG	OPS	OPS+	TB	GDP	HBP	SH	SF	IBB

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

*WAR not shown.

COMPLETE MARINER PITCHING STATISTICS FOR 2017 SEASON*

Rk	Pos	Name	Age	W	L	W-L%	ERA	G	GS	GF	CG	SHO	SV	IP	H	R	ER	HR	BB	IBB	SO	HBP	BK	WP	BF	ERA+	FIP	WHIP	H9	HR9	BB9	SO9	SO/W
1	SP	Ariel Miranda*	28	8	7	.533	5.12	31	29	1	1	0	0	160.0	140	93	91	37	63	1	137	5	0	8	678	82	5.73	1.269	7.9	2.1	3.5	7.7	2.17
2	SP	James Paxton*	28	12	5	.706	2.98	24	24	0	0	0	0	136.0	113	47	45	9	37	1	156	3	1	15	552	141	2.61	1.103	7.5	0.6	2.4	10.3	4.22
3	SP	Yovani Gallardo	31	5	10	.333	5.72	28	22	4	0	0	1	130.2	138	84	83	24	60	3	94	2	0	7	578	74	5.53	1.515	9.5	1.7	4.1	6.5	1.57
4	SP	Felix Hernandez	31	6	5	.545	4.36	16	16	0	0	0	0	86.2	86	46	42	17	26	0	78	6	0	8	368	97	5.02	1.292	8.9	1.8	2.7	8.1	3.00
5	SP	Sam Gaviglio	27	3	5	.375	4.62	12	11	1	0	0	0	62.1	63	37	32	15	21	1	40	2	2	1	259	91	6.11	1.348	9.1	2.2	3.0	5.8	1.90
6	SP	Erasmo Ramirez	27	1	3	.250	3.92	11	11	0	0	0	0	62.0	57	31	27	12	15	1	54	1	0	0	257	108	4.71	1.161	8.3	1.7	2.2	7.8	3.60
Rk	Pos	Name	Age	W	L	W-L%	ERA	G	GS	GF	CG	SHO	SV	IP	H	R	ER	HR	BB	IBB	SO	HBP	BK	WP	BF	ERA+	FIP	WHIP	H9	HR9	BB9	SO9	SO/W
7	CL	Edwin Diaz	23	4	6	.400	3.27	66	0	52	0	0	34	66.0	44	28	24	10	32	2	89	3	1	3	278	129	4.02	1.152	6.0	1.4	4.4	12.1	2.78
8	RP	Nick Vincent	30	3	3	.500	3.20	69	0	7	0	0	0	64.2	62	23	23	3	13	5	50	0	0	0	262	132	2.82	1.160	8.6	0.4	1.8	7.0	3.85
9	RP	James Pazos*	26	4	5	.444	3.86	59	0	7	0	0	0	53.2	51	30	23	7	24	0	65	5	1	4	240	110	4.05	1.398	8.6	1.2	4.0	10.9	2.71
10	RP	Tony Zych	26	6	3	.667	2.66	45	0	7	0	0	1	40.2	30	12	12	2	21	3	35	5	1	1	173	160	3.99	1.254	6.6	0.4	4.6	7.7	1.67
11	RP	Marc Rzepczynski*	31	2	2	.500	4.02	64	0	6	0	0	1	31.1	29	16	14	2	20	5	25	1	0	3	137	106	4.40	1.564	8.3	0.6	5.7	7.2	1.25
Rk	Pos	Name	Age	W	L	W-L%	ERA	G	GS	GF	CG	SHO	SV	IP	H	R	ER	HR	BB	IBB	SO	HBP	BK	WP	BF	ERA+	FIP	WHIP	H9	HR9	BB9	SO9	SO/W
12		Andrew Moore	23	1	5	.167	5.34	11	9	1	0	0	0	59.0	60	36	35	14	8	0	31	1	0	0	243	79	5.65	1.153	9.2	2.1	1.2	4.7	3.88
13		Christian Bergman	29	4	5	.444	5.00	13	8	2	0	0	0	54.0	61	31	30	12	15	1	33	3	0	0	230	85	5.82	1.407	10.2	2.0	2.5	5.5	2.20
14		Emilio Pagan	26	2	3	.400	3.22	34	0	9	0	0	0	50.1	39	20	18	7	8	0	56	1	0	1	196	131	3.28	0.934	7.0	1.3	1.4	10.0	7.00
15		Dan Altavilla	24	1	1	.500	4.24	41	0	13	0	0	0	46.2	43	27	22	9	20	1	52	1	0	9	203	100	4.79	1.350	8.3	1.7	3.9	10.0	2.60
16		Casey Lawrence	29	2	0	1.000	5.57	23	0	10	0	0	0	42.0	56	27	26	9	14	1	45	1	0	1	192	76	4.87	1.667	12.0	1.9	3.0	9.6	3.21
17		Andrew Albers*	31	5	1	.833	3.51	9	6	2	0	0	1	41.0	43	22	16	6	10	0	37	2	0	1	178	121	4.13	1.293	9.4	1.3	2.2	8.1	3.70
18		Marco Gonzales*	25	1	1	.500	5.40	10	7	1	0	0	0	36.2	53	22	22	5	11	0	30	1	0	2	169	79	4.28	1.745	13.0	1.2	2.7	7.4	2.73
19		Mike Leake	29	3	1	.750	2.53	5	5	0	0	0	0	32.0	32	10	9	1	2	0	27	2	0	1	128	168	2.25	1.063	9.0	0.3	0.6	7.6	13.50
20		Hisashi Iwakuma	36	0	2	.000	4.35	6	6	0	0	0	0	31.0	27	16	15	7	12	0	16	2	0	1	128	98	6.42	1.258	7.8	2.0	3.5	4.6	1.33
21		Chase De Jong	23	0	3	.000	6.35	7	4	2	0	0	0	28.1	31	20	20	5	13	0	13	0	0	0	125	67	5.91	1.553	9.8	1.6	4.1	4.1	1.00
22		Steve Cishek	31	1	1	.500	3.15	23	0	8	0	0	1	20.0	13	7	7	3	7	1	15	1	1	1	80	136	4.81	1.000	5.9	1.4	3.2	6.8	2.14
23		Dillon Overton*	25	0	0		6.38	9	1	4	0	0	0	18.1	21	15	13	4	2	1	8	0	0	3	79	67	5.45	1.255	10.3	2.0	1.0	3.9	4.00
24		Ryan Garton	27	0	0		1.54	13	0	3	0	0	0	11.2	5	2	2	1	1	0	7	0	0	0	42	281	3.33	0.514	3.9	0.8	0.8	5.4	7.00
25		David Phelps	30	2	1	.667	3.12	10	0	1	0	0	0	8.2	9	3	3	0	5	0	11	1	0	0	41	141	2.70	1.615	9.3	0.0	5.2	11.4	2.20
26		Jean Machi	35	1	0	1.000	1.17	5	0	0	0	0	0	7.2	7	2	1	1	4	0	4	0	0	0	31	375	5.38	1.435	8.2	1.2	4.7	4.7	1.00
27		Evan Marshall	27	0	0		9.39	6	0	2	0	0	0	7.2	12	8	8	1	5	1	4	0	0	0	38	47	5.77	2.217	14.1	1.2	5.9	4.7	0.80
28		Shae Simmons	26	0	2	.000	7.04	9	0	3	0	0	0	7.2	4	6	6	1	4	0	8	0	0	1	30	62	4.33	1.043	4.7	1.2	4.7	9.4	2.00
29		Robert Whalen	23	0	1	.000	6.14	2	1	1	0	0	0	7.1	7	5	5	1	2	0	2	2	0	0	31	72	6.02	1.227	8.6	1.2	2.5	2.5	1.00
30		Evan Scribner	31	0	2	.000	11.05	8	0	4	0	0	0	7.1	13	9	9	3	0	0	6	0	0	0	34	40	6.84	1.773	16.0	3.7	0.0	7.4	
31		Casey Fien	33	0	0		15.00	6	0	2	0	0	0	6.0	9	10	10	3	4	0	6	0	0	0	29	30	9.66	2.167	13.5	4.5	6.0	9.0	1.50
32		Chris Heston	29	0	1	.000	19.80	2	1	0	0	0	0	5.0	14	12	11	3	5	0	3	0	0	0	34	23	12.76	3.800	25.2	5.4	9.0	5.4	0.60
33		Zac Curtis*	24	0	0		0.00	3	0	2	0	0	0	4.2	3	3	0	1	1	0	2	2	0	2	21		7.02	0.857	5.8	1.9	1.9	3.9	2.00
34		Ryan Weber	26	0	0		2.45	1	1	0	0	0	0	3.2	3	1	1	0	0	0	0	0	0	0	14	188	3.16	0.818	7.4	0.0	0.0	0.0	
35		Max Povse	23	0	0		7.36	3	0	2	0	0	0	3.2	9	5	3	1	1	0	2	0	0	0	21	63	6.43	2.727	22.1	2.5	2.5	4.9	2.00
36		Cody Martin	27	0	0		13.50	1	0	1	0	0	0	2.0	5	4	3	0	2	0	0	0	0	0	13	37	6.16	3.500	22.5	0.0	9.0	0.0	0.00
37		Carlos Ruiz	38	0	0		9.00	1	0	1	0	0	0	1.0	2	1	1	1	2	0	1	0	0	0	7	64	20.16	4.000	18.0	9.0	18.0	9.0	0.50
38		Mike Freeman	29	0	0		9.00	1	0	1	0	0	0	1.0	3	1	1	0	0	0	0	0	0	0	6	64	3.16	3.000	27.0	0.0	0.0	0.0	
39		Thyago Vieira	23	0	0		0.00	1	0	1	0	0	0	1.0	0	0	0	0	0	0	1	0	0	0	3		1.16	0.000	0.0	0.0	0.0	9.0	
40		Tyler Cloyd	30	1	0	1.000	0.00	1	0	0	0	0	0	1.0	2	0	0	0	0	0	1	0	0	0	4		1.16	2.000	18.0	0.0	0.0	9.0	
		Team Totals	**27.9**	**78**	**84**	**.481**	**4.46**	**162**	**162**	**161**	**1**	**0**	**39**	**1440.1**	**1399**	**772**	**713**	**237**	**490**	**28**	**1244**	**53**	**7**	**73**	**6132**	**95**	**4.70**	**1.312**	**8.7**	**1.5**	**3.1**	**7.8**	**2.54**
		Rank in 15 AL teams		**9**	**6**		**8**				**8**	**6**	**6**	**9**	**8**	**7**	**7**	**13**	**5**		**8**												
Rk	Pos	Name	Age	W	L	W-L%	ERA	G	GS	GF	CG	SHO	SV	IP	H	R	ER	HR	BB	IBB	SO	HBP	BK	WP	BF	ERA+	FIP	WHIP	H9	HR9	BB9	SO9	SO/W

* - throws left-handed, # - throws both, else - throws right, ? - unknown, for minors **bold** indicates they appeared in majors

*WAR not shown.

SUV BATTING & PITCHING STATISTICS FOR TOP 10 PLAYERS BASED ON MOST OPPORTUNITIES & INNINGS PITCHED (54 GAMES)

Mariner	+Ops	+SUV	+Avg		Pitcher	+IP	+SUV	+Avg
Totals	1701	31.64	0.019		Totals	297.67	6.90	0.023
Mean	170.10	3.16	0.013		Mean	29.77	0.69	0.019
Std Dev	33.50	7.37	0.041		Std Dev	10.65	4.99	0.169
Normalized	**Both**	**+SUV**	**+Avg**	**Rank**	**Normalized**	**Both**	**+SUV**	**+Avg**
Seager	**0.918**	0.930	0.906	**1**	**Bergman**	**0.036**	0.040	0.032
Cruz	**0.903**	0.918	0.888	**2**	**Vincent**	**0.179**	0.210	0.147
Cano	**0.740**	0.751	0.729	**3**	**Paxton**	**0.220**	0.172	0.269
Segura	**0.530**	0.509	0.552	**4**	**Hernandez**	**0.455**	0.450	0.460
Gamel	**0.506**	0.481	0.530	**5**	**Diaz**	**0.482**	0.473	0.492
Haniger	**0.479**	0.443	0.516	**6**	**Gaviglio**	**0.569**	0.557	0.581
Valencia	**0.448**	0.420	0.476	**7**	**Moore**	**0.602**	0.576	0.628
Dyson	**0.439**	0.401	0.477	**8**	**Gallardo**	**0.707**	0.717	0.697
Heredia	**0.075**	0.082	0.068	**9**	**Miranda**	**0.882**	0.946	0.819
Zunino	**0.050**	0.062	0.038	**10**	**Ramirez**	**0.918**	0.882	0.954

From Reference 2 the complete season batting and pitching statistics for all the Mariner players are shown above (except for WAR, discussed below). These are followed by the 54-game SUV statistics for batting and pitching for the top 10 players with the most Opportunities and Innings

Pitched, using a lower limit of 124 Opportunities (Dyson) and 21.00 Innings Pitched (Vincent). No contribution from Error/PB/CI is included here. The totals for each group of 10 players, along with the mean and standard deviation, in each category, "+SUV" and "+Avg" are calculated to enable a normalization of the statistics for each of the 10 players per group as follows:

$$Normalized\ Statistic\ (+SUV\ or + Avg) = \int_{-\infty}^{x} \frac{1}{\sigma\sqrt{2\pi}} e^{-\left(\frac{[x-\mu]^2}{2\sigma^2}\right)} dx$$

where μ = mean and σ = standard deviation.

These normalized statistics, representing the percentiles of the normal distribution where the statistics occur, are calculated for both "+SUV" and "+Avg" for the players in each group. Within each group, these two normalized statistics for each player are then averaged ("Both" column) and used to rank the players from first through tenth. Note that, for batters, higher values are desirable. For pitchers, the lower values are desirable. The reason for considering both "+SUV" and "+Avg" is that the former reflects longevity (most Opportunities or Innings Pitched) over a season while the second reflects expected performance per Opportunity or Inning Pitched. Combined, both aspects are reflected. This is akin to giving additional weight to the 0.300-hitter who had 150 hits in 500 at-bats over the one with 30 hits in 100 at-bats.

As an example calculation, consider Seager, who has a +SUV = 14.06 and +Avg = 0.068. When normalized to the mean +SUV = 3.16 and mean +Avg = 0.013 (with respective standard deviations of 7.37 and 0.041), his normalized +SUV and +Avg become as follows:

$$Normalized + SUV = \int_{-\infty}^{14.06} \frac{1}{(7.37)\sqrt{2\pi}} e^{-\left(\frac{[14.06-3.16]^2}{2[7.37]^2}\right)} dx = 0.930$$

$$Normalized + Avg = \int_{-\infty}^{0.068} \frac{1}{(0.041)\sqrt{2\pi}} e^{-\left(\frac{[0.068-0.013]^2}{2[0.041]^2}\right)} dx = 0.906$$

These indicate that his +SUV occurs at the 93.0%ile and +Avg at the 90.6%ile, both the highest among the 10 batters. The average of the two is 0.918, which ranks him first overall among the batters, just slightly above Cruz at 0.903. Since lower values are optimal for pitchers, Bergman ranks first with 0.036, significantly ahead of the next pitcher, Vincent, at 0.179. Given his lowest +SUV = -8.05 and lowest +Avg = -0.295 among the 10 pitchers with at least 21.00 Innings Pitched, this comes as no surprise.

What is especially interesting, and the goal of developing the SUV statistic, are insights into players' performance "in the clutch" that may not be readily indicated by the myriad of other statistics currently being used.[1] Below are the season statistics (now including WAR) for the top

[1] Since only 54 of the total 162 games have been analyzed for SUV, all the following "insights" regarding individual players should be taken with "a grain of salt" as merely illustrative as if the entire season had been analyzed for SUV. As will be shown below for Ramirez, if the selected games happened to correspond to atypically better or poorer performances by the player than what transpired over the entire season, the "insights" may be biased by the limited selection. While 1/3 of the season is considered to be a significant sample for analysis, it remains possible that atypical player performance has been highlighted. All subsequent "insights" are intended to be illustrative only, not necessarily reflecting deviations from any individual player's overall performance, either better or worse.

10 batters and pitchers from the SUV lists based on the compilations shown above from Reference 2. To characterize player performance based on such multiple statistics, the approach taken is similar to that for the two SUV statistics, "+SUV" and "+Avg," i.e., the players are ranked by normalization of the statistics for selected categories, then these normalized values are averaged to yield one overall result, used to rank the players. For batting, a combination of longevity (Runs, Hits, RBIs, and WAR [Wins Against Replacement]) and expected performance per "at-bat (AB)" statistics (Runs/AB, Hits/AB [Batting Average], OBP [On-Base Percentage] and SLG [Slugging Percentage]), i.e., a total of eight statistics, are used. For pitching, four longevity (Hits, Earned Runs, Bases-on-Ball + Hits-By-Pitch, and WAR) and two expected performance per Inning Pitched statistics (Earned Run Average and Walks+Hit-Batters per IP), i.e., a total of six statistics, are used. Note that, for pitchers, all but the WAR statistic indicate better performance with lower values. Therefore, to incorporate WAR consistently with the rest, its normalized value is subtracted from 1.00 (since we are dealing with probabilities), such that the lower value ("1-WAR") represents better performance.

Within the constraints of the comparison (SUV analysis is based on only one-third, i.e., 54 games, of the season vs. Reference 2's complete season; and the subjectivity of which statistics to select for the comparison and use of normalization and subsequent averaging to yield a "performance measure" that can be compared to the SUV), the results provide insights that might not readily be found from the current myriad of statistics. Among the batters, Seager and Cruz stood out as the top performers, with a fairly wide margin over the next lower player (Cano); while Zunino and Heredia were the poorest, significantly below the next higher player (Dyson). When the full season "traditional" statistics are used, Cruz stands out at the top and Heredia at the bottom, similar to the SUV results, with Seager and Zunino falling in the middle. Again, this comparison is arbitrary, and the SUV analysis uses only 54 of the 162 games, but if one envisions the SUV results to be representative of a full-season performance, they indicate that Seager performed well in the clutch, much better than his "traditional" statistics would seem to indicate. Meanwhile, Zunino did not perform well in the clutch, despite fairly good "traditional" statistics. Such insight could be quite valuable to an owner, general manager, and manager (and hitting coach) when assembling a roster and line-up.

For pitchers based on their SUV, Bergman stood out at the top, with Vincent and Paxton next and well above the rest of the group; while Ramirez and Miranda were the poorest, well below the next higher player (Gallardo). Based on the full season's "traditional" statistics, Vincent comes out on top, followed by Diaz and Ramirez (the bottom performer based on the SUV), with Bergman and Paxton in the middle. Gallardo and Miranda are at the bottom, consistent with their SUV ranks. However, there is quite a discrepancy for Ramirez – a good performer according to the "traditional" statistics, but a poor one according to SUV. Ignoring the possibility (likelihood [see footnote]) that this discrepancy is the result of Ramirez' games included for the SUV just happening to be his worst, this suggests that he does not perform well in the clutch despite good "traditional" statistics.[2] Meanwhile, Bergman performs much better in the clutch than his

[2] In fact, review of the four games where Ramirez pitched (#s 113, 128, 143 and 149) among the 54 selected for the SUV analysis indicates that he performed quite poorly relative to what would have been expected if all of his games were included. Over those four games, he pitched 21.67 innings, yielding 27 hits, 16 earned runs, and six walks (no-hit batters), corresponding to an ERA = 6.65 and WHBIP = 1.52 (WAR was not tracked). If his season statistics were apportioned by the ratio of 21.67 innings to his total of 62 innings, the expected hits, earned runs, walks (plus hit-batters), ERA and WHBIP would have been 19.92, 9.44, 5.59, 3.92 and 1.18, respectively. All but the walks (plus hit-batters) over those four games were at least 29% higher than would have been expected, especially the earned runs and ERA (70% higher). Therefore, it appears the four games out of the 54 selected for

"traditional" statistics would seem to indicate. Again, to the extent the SUV results for 54 games are representative for an entire season, such insight could be quite valuable to an owner, general manager, and manager (and pitching coach).

COMPLETE SEASON BATTER STATISTICS FOR TOP 10 MARINERS FROM SUV LIST

	Mariner	AB	R	H	RBI	R/AB	H/AB (BA)	RBI/AB	OBP	SLG	WAR
	Zunino	387	52	97	64	0.134	0.251	0.165	0.331	0.509	3.3
	Valencia	450	54	115	66	0.120	0.256	0.147	0.314	0.411	1.0
	Cano	592	79	166	97	0.133	0.280	0.164	0.338	0.453	3.4
	Segura	524	80	157	45	0.153	0.300	0.086	0.349	0.427	3.2
	Seager	578	72	144	88	0.125	0.249	0.152	0.323	0.450	2.5
	Gamel	509	68	140	59	0.134	0.275	0.116	0.322	0.413	1.0
	Dyson	346	56	87	30	0.162	0.251	0.087	0.324	0.350	2.6
	Haniger	369	58	104	47	0.157	0.282	0.127	0.352	0.491	3.0
	Cruz	556	91	160	119	0.164	0.288	0.214	0.375	0.549	4.1
	Heredia	386	43	96	24	0.111	0.249	0.062	0.315	0.337	1.1
	Mean	469.70	65.30	126.60	63.90	0.139	0.268	0.132	0.334	0.439	2.52
	Std Dev	93.28	15.12	30.00	30.05	0.018	0.019	0.046	0.019	0.067	1.12
Rank	Normalized	Cumulative	R	H	RBI	R/AB	H/AB (BA)	RBI/AB	OBP	SLG	WAR
1	Cruz	**0.929**	0.955	0.867	0.967	0.907	0.851	0.964	0.982	0.951	0.922
2	Cano	**0.712**	0.818	0.905	0.865	0.376	0.743	0.757	0.576	0.583	0.785
3	Segura	**0.639**	0.834	0.845	0.265	0.766	0.952	0.156	0.776	0.429	0.729
4	Haniger	**0.573**	0.315	0.226	0.287	0.834	0.767	0.459	0.819	0.782	0.666
5	Seager	**0.507**	0.671	0.719	0.789	0.213	0.160	0.671	0.280	0.566	0.493
6	Zunino	**0.471**	0.190	0.162	0.501	0.395	0.180	0.767	0.432	0.853	0.758
7	Gamel	**0.418**	0.571	0.672	0.435	0.379	0.644	0.362	0.263	0.348	0.087
8	Valencia	**0.301**	0.227	0.350	0.528	0.148	0.256	0.626	0.147	0.337	0.087
9	Dyson	**0.295**	0.269	0.093	0.130	0.890	0.191	0.161	0.298	0.091	0.529
10	Heredia	**0.103**	0.070	0.154	0.092	0.065	0.155	0.063	0.160	0.063	0.102

COMPLETE SEASON PITCHER STATISTICS FOR TOP 10 MARINERS FROM SUV LIST

	Pitcher	IP	H	ER	BB+HBP	ERA	WHBIP	WAR
	Miranda	160.00	140	91	68	5.12	1.30	0.8
	Paxton	136.00	113	45	40	2.98	1.13	3.8
	Gallardo	130.67	138	83	62	5.72	1.53	-0.2
	Hernandez	86.67	86	42	32	4.36	1.36	0.8
	Gaviglio	62.33	63	32	23	4.62	1.38	0.2
	Ramirez	62.00	57	27	16	3.92	1.18	0.7
	Diaz	66.00	44	24	35	3.27	1.20	0.9
	Vincent	64.67	62	23	13	3.20	1.16	1.4
	Moore	59.00	60	35	9	5.34	1.17	0.0
	Bergman	54.00	61	30	18	5.00	1.46	0.2
	Mean	88.13	82.40	43.20	31.60	4.35	1.29	0.86
	Std Dev	38.97	35.32	24.22	20.25	0.97	0.14	1.14
Rank	Normalized	Cumulative	H	ER	BB+HBP	ERA	WHBIP	1-WAR
1	Vincent	**0.214**	0.282	0.202	0.179	0.118	0.186	0.318
2	Diaz	**0.300**	0.139	0.214	0.567	0.133	0.264	0.486
3	Ramirez	**0.302**	0.236	0.252	0.221	0.328	0.221	0.556
4	Paxton	**0.368**	0.807	0.530	0.661	0.078	0.128	0.005
5	Moore	**0.431**	0.263	0.367	0.132	0.845	0.205	0.775
6	Gaviglio	**0.503**	0.291	0.322	0.336	0.609	0.745	0.719
7	Bergman	**0.529**	0.272	0.293	0.251	0.748	0.894	0.719
8	Hernandez	**0.543**	0.541	0.480	0.508	0.504	0.702	0.521
9	Miranda	**0.789**	0.949	0.976	0.964	0.785	0.538	0.521
10	Gallardo	**0.921**	0.942	0.950	0.933	0.920	0.958	0.824

the SUV analysis just happened to be poor ones for Ramirez, atypical of his overall performance. Analysis of all 162 games for SUV would be expected to bring these into better alignment.

Finally, while Reference 1 analyzes two games in detail for both teams to illustrate how the SUV is calculated and used, it should be helpful to do so here for three selected games from the list of 54. The games chosen represent (1) one with several "unearned" SUVs (Game 131, August 27, Seattle-1 @ N.Y. Yankees-10); (2) one where the Mariners "batted around" (10 men in one inning - Game 059, June 6, Minnesota-3 @ Seattle-12); and (3) a ninth-inning walk-off (Game 038, May 14, Seattle-2 @ Toronto-3). For each of these, the complete play-by-play from Reference 2 is provided. Innings of especial interest are described in detail, with the remainder left to the reader to calculate as desired given the complete play-by-play.

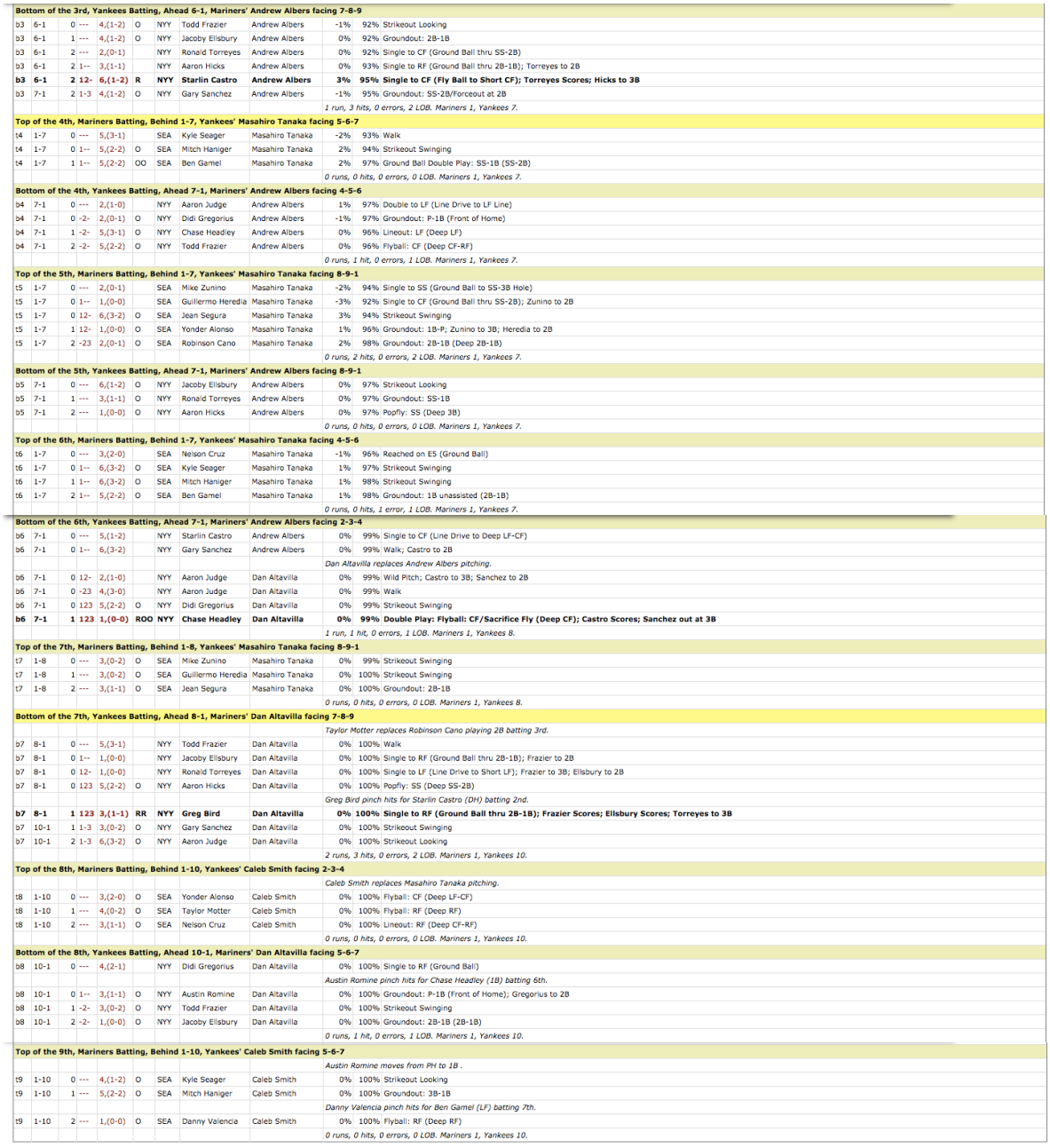
GAME 131, AUGUST 27, SEATTLE-1 @ N.Y. YANKEES-10

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		0.39		-0.59		-0.10			4	-0.53	-0.133	149	-0.29	-0.002
Alonso	0.22		0.63		-0.41			-0.23		4	0.21	0.053	20	4.14	0.207
Cano	0.46		-0.59		-0.51					3	-0.64	-0.213	169	4.66	0.028
Motter			-0.41					-0.16		2	-0.57	-0.285	80	0.40	0.005
Cruz	1.22		-0.51			0.00		-0.10		4	0.61	0.153	168	10.17	0.061
Seager	-0.76			0.39		-0.40			-0.23	4	-1.00	-0.250	169	10.96	0.065
Haniger	-0.62			-0.40		-0.26			-0.16	4	-1.44	-0.360	97	-2.59	-0.027
Gamel		-0.23		-0.48		-0.22				3	-0.93	-0.310	138	4.83	0.035
Valencia									-0.10	1	-0.10	-0.100	147	0.57	0.004
Zunino		-0.16			0.39		-0.23			3	0.00	0.000	106	-12.41	-0.117
Heredia		-0.10			0.63		-0.16			3	0.37	0.123	117	-3.19	-0.027
SUV	0.51	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	-0.49	35	-4.02	-0.115	1634	1.42	0.001
Error/PB/CI	0.22					0.39					0.61	-3.41		10.93	12.35

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Albers	2.84	-0.49	0.51	-0.49	-0.49	0.51				6.00	2.39	0.398			
Altavilla							1.51	-0.49		2.00	1.02	0.510	12.00	0.12	0.010
SUV	5.51	-0.49	0.51	-0.49	-0.49	0.51	1.51	-0.49	0.00	8.00	3.41	0.426	383.67	5.11	0.013
Error/PB/CI	2.67										2.67	6.08		12.83	17.94

Play by Play View Pitches ▾ Box Score Explanation wWE and wWPA Explanation Share & more ▾ Glossary

Inn	Score	Out	RoB	Pit(cnt)	R/O	@Bat	Batter	Pitcher	wWPA	wWE	Play Description
Top of the 1st, Mariners Batting, Tied 0-0, Yankees' Masahiro Tanaka facing 1-2-3											
t1	0-0	0	---	4,(2-1)	O	SEA	Jean Segura	Masahiro Tanaka	2%	52%	Lineout: RF (Deep RF)
t1	0-0	1	---	3,(1-1)		SEA	Yonder Alonso	Masahiro Tanaka	-4%	48%	Single to LF (Line Drive to Deep LF-CF); Alonso to 2B/Adv on E7
t1	0-0	1	-2-	2,(0-1)		SEA	Robinson Cano	Masahiro Tanaka	-5%	44%	Single to LF (Line Drive to LF-CF); Alonso to 3B
t1	**0-0**	**1**	**1-3**	**2,(1-0)**	**R**	**SEA**	**Nelson Cruz**	**Masahiro Tanaka**	**-11%**	**33%**	**Double to LF (Line Drive to Deep LF); Alonso Scores; Cano to 3B**
t1	1-0	1	-23	4,(1-2)	O	SEA	Kyle Seager	Masahiro Tanaka	7%	40%	Strikeout Swinging
t1	1-0	2	-23	6,(2-2)	O	SEA	Mitch Haniger	Masahiro Tanaka	5%	45%	Flyball: CF (CF-RF)
											1 run, 3 hits, 1 error, 2 LOB. Mariners 1, Yankees 0.
Bottom of the 1st, Yankees Batting, Behind 0-1, Mariners' Andrew Albers facing 1-2-3											
b1	0-1	0	---	4,(1-2)	O	NYY	Aaron Hicks	Andrew Albers	-2%	43%	Popfly: SS (Deep SS-3B Hole)
b1	0-1	1	---	2,(0-1)		NYY	Starlin Castro	Andrew Albers	4%	47%	Double to RF (Line Drive to Deep RF)
b1	**0-1**	**1**	**-2-**	**2,(1-0)**	**R**	**NYY**	**Gary Sanchez**	**Andrew Albers**	**10%**	**57%**	**Single to LF (Line Drive to LF-CF); Castro Scores; Sanchez to 2B/Adv on E7**
b1	1-1	1	-2-	5,(3-1)		NYY	Aaron Judge	Andrew Albers	2%	59%	Walk
b1	1-1	1	12-	1,(0-0)		NYY	Didi Gregorius	Andrew Albers	6%	64%	Reached on E6 (Pop Fly to Short LF-CF); Sanchez to 3B; Judge to 2B
b1	**1-1**	**1**	**123**	**6,(0-2)**	**R**	**NYY**	**Chase Headley**	**Andrew Albers**	**8%**	**72%**	**Reached on E5/attempted forceout (Ground Ball to SS-3B Hole); Sanchez Scores/unER; Judge to 3B; Gregorius to 2B**
b1	2-1	1	123	5,(1-2)	O	NYY	Todd Frazier	Andrew Albers	-6%	66%	Strikeout Swinging
b1	**2-1**	**2**	**123**	**1,(0-0)**	**RRR**	**NYY**	**Jacoby Ellsbury**	**Andrew Albers**	**19%**	**85%**	**Double to LF (Line Drive to Deep LF-CF); Judge Scores/unER; Gregorius Scores/unER; Headley Scores/Adv on E6/unER/No RBI; Ellsbury to 3B/Adv on E6 (throw)**
b1	**5-1**	**2**	**--3**	**4,(0-2)**	**R**	**NYY**	**Ronald Torreyes**	**Andrew Albers**	**4%**	**89%**	**Single to 3B (Ground Ball); Ellsbury Scores/unER**
b1	6-1	2	1--	2,(0-1)	O	NYY	Aaron Hicks	Andrew Albers	-1%	88%	Flyball: CF
											6 runs, 4 hits, 5 errors, 1 LOB. Mariners 1, Yankees 6.
Top of the 2nd, Mariners Batting, Behind 1-6, Yankees' Masahiro Tanaka facing 7-8-9											
t2	1-6	0	---	4,(1-2)	O	SEA	Ben Gamel	Masahiro Tanaka	1%	90%	Strikeout Swinging
t2	1-6	1	---	4,(1-2)	O	SEA	Mike Zunino	Masahiro Tanaka	1%	91%	Strikeout Swinging
t2	1-6	2	---	2,(1-0)	O	SEA	Guillermo Heredia	Masahiro Tanaka	1%	91%	Groundout: SS-1B
											0 runs, 0 hits, 0 errors, 0 LOB. Mariners 1, Yankees 6.
Bottom of the 2nd, Yankees Batting, Ahead 6-1, Mariners' Andrew Albers facing 2-3-4											
b2	6-1	0	---	4,(1-2)		NYY	Starlin Castro	Andrew Albers	1%	92%	Single to 3B (Ground Ball)
b2	6-1	0	1--	3,(0-2)		NYY	Gary Sanchez	Andrew Albers	1%	94%	Single to RF (Fly Ball to Short CF-RF); Castro to 2B
b2	6-1	0	12-	3,(0-2)	O	NYY	Aaron Judge	Andrew Albers	-1%	92%	Strikeout Looking
b2	6-1	1	12-	4,(1-2)	O	NYY	Didi Gregorius	Andrew Albers	-1%	91%	Groundout: P-SS/Forceout at 2B (Front of Home); Castro to 3B
b2	6-1	2	1-3	1,(0-0)	O	NYY	Chase Headley	Andrew Albers	-1%	90%	Groundout: 2B-1B
											0 runs, 2 hits, 0 errors, 2 LOB. Mariners 1, Yankees 6.
Top of the 3rd, Mariners Batting, Behind 1-6, Yankees' Masahiro Tanaka facing 1-2-3											
t3	1-6	0	---	4,(1-2)		SEA	Jean Segura	Masahiro Tanaka	-2%	87%	Single to 3B (Ground Ball to Weak 3B)
t3	1-6	0	1--	3,(1-1)	O	SEA	Yonder Alonso	Masahiro Tanaka	2%	90%	Flyball: CF (Deep CF)
t3	1-6	1	1--	1,(0-0)	O	SEA	Robinson Cano	Masahiro Tanaka	2%	91%	Groundout: 1B-SS/Forceout at 2B (Weak 2B-1B)
t3	1-6	2	1--	4,(1-2)	O	SEA	Nelson Cruz	Masahiro Tanaka	1%	93%	Strikeout Looking
											0 runs, 1 hit, 0 errors, 1 LOB. Mariners 1, Yankees 6.



Bottom of the 3rd, Yankees Batting, Ahead 6-1, Mariners' Andrew Albers facing 7-8-9											
b3	6-1	0	---	4,(1-2)	O	NYY	Todd Frazier	Andrew Albers	-1%	92%	Strikeout Looking
b3	6-1	1	---	4,(1-2)	O	NYY	Jacoby Ellsbury	Andrew Albers	0%	92%	Groundout: 2B-1B
b3	6-1	2	---	2,(0-1)		NYY	Ronald Torreyes	Andrew Albers	0%	92%	Single to CF (Ground Ball thru SS-2B)
b3	6-1	2	1--	3,(1-1)		NYY	Aaron Hicks	Andrew Albers	0%	93%	Single to RF (Ground Ball thru 2B-1B); Torreyes to 2B
b3	**6-1**	**2**	**12-**	**6,(1-2)**	**R**	**NYY**	**Starlin Castro**	**Andrew Albers**	**3%**	**95%**	**Single to CF (Fly Ball to Short CF); Torreyes Scores; Hicks to 3B**
b3	7-1	2	1-3	4,(1-2)	O	NYY	Gary Sanchez	Andrew Albers	-1%	95%	Groundout: SS-2B/Forceout at 2B
											1 run, 3 hits, 0 errors, 2 LOB. Mariners 1, Yankees 7.
Top of the 4th, Mariners Batting, Behind 1-7, Yankees' Masahiro Tanaka facing 5-6-7											
t4	1-7	0	---	5,(3-1)		SEA	Kyle Seager	Masahiro Tanaka	-2%	93%	Walk
t4	1-7	0	1--	5,(2-2)	O	SEA	Mitch Haniger	Masahiro Tanaka	2%	94%	Strikeout Swinging
t4	1-7	1	1--	5,(2-2)	OO	SEA	Ben Gamel	Masahiro Tanaka	2%	97%	Ground Ball Double Play: SS-1B (SS-2B)
											0 runs, 0 hits, 0 errors, 0 LOB. Mariners 1, Yankees 7.
Bottom of the 4th, Yankees Batting, Ahead 7-1, Mariners' Andrew Albers facing 4-5-6											
b4	7-1	0	---	2,(1-0)		NYY	Aaron Judge	Andrew Albers	1%	97%	Double to LF (Line Drive to LF Line)
b4	7-1	0	-2-	2,(0-1)	O	NYY	Didi Gregorius	Andrew Albers	-1%	97%	Groundout: P-1B (Front of Home)
b4	7-1	1	-2-	5,(3-1)	O	NYY	Chase Headley	Andrew Albers	0%	96%	Lineout: LF (Deep LF)
b4	7-1	2	-2-	5,(2-2)	O	NYY	Todd Frazier	Andrew Albers	0%	96%	Flyball: CF (Deep CF-RF)
											0 runs, 1 hit, 0 errors, 1 LOB. Mariners 1, Yankees 7.
Top of the 5th, Mariners Batting, Behind 1-7, Yankees' Masahiro Tanaka facing 8-9-1											
t5	1-7	0	---	2,(0-1)		SEA	Mike Zunino	Masahiro Tanaka	-2%	94%	Single to SS (Ground Ball to SS-3B Hole)
t5	1-7	0	1--	1,(0-0)		SEA	Guillermo Heredia	Masahiro Tanaka	-3%	92%	Single to CF (Ground Ball thru SS-2B); Zunino to 2B
t5	1-7	0	12-	6,(3-2)	O	SEA	Jean Segura	Masahiro Tanaka	3%	94%	Strikeout Swinging
t5	1-7	1	12-	1,(0-0)	O	SEA	Yonder Alonso	Masahiro Tanaka	1%	96%	Groundout: 1B-P; Zunino to 3B; Heredia to 2B
t5	1-7	2	-23	2,(0-1)	O	SEA	Robinson Cano	Masahiro Tanaka	2%	98%	Groundout: 2B-1B (Deep 2B-1B)
											0 runs, 2 hits, 0 errors, 2 LOB. Mariners 1, Yankees 7.
Bottom of the 5th, Yankees Batting, Ahead 7-1, Mariners' Andrew Albers facing 8-9-1											
b5	7-1	0	---	6,(1-2)	O	NYY	Jacoby Ellsbury	Andrew Albers	0%	97%	Strikeout Looking
b5	7-1	1	---	3,(1-1)	O	NYY	Ronald Torreyes	Andrew Albers	0%	97%	Groundout: SS-1B
b5	7-1	2	---	1,(0-0)	O	NYY	Aaron Hicks	Andrew Albers	0%	97%	Popfly: SS (Deep 3B)
											0 runs, 0 hits, 0 errors, 0 LOB. Mariners 1, Yankees 7.
Top of the 6th, Mariners Batting, Behind 1-7, Yankees' Masahiro Tanaka facing 4-5-6											
t6	1-7	0	---	3,(2-0)		SEA	Nelson Cruz	Masahiro Tanaka	-1%	96%	Reached on E5 (Ground Ball)
t6	1-7	0	1--	6,(3-2)	O	SEA	Kyle Seager	Masahiro Tanaka	1%	97%	Strikeout Swinging
t6	1-7	1	1--	6,(3-2)	O	SEA	Mitch Haniger	Masahiro Tanaka	1%	98%	Strikeout Swinging
t6	1-7	2	1--	5,(2-2)	O	SEA	Ben Gamel	Masahiro Tanaka	1%	98%	Groundout: 1B unassisted (2B-1B)
											0 runs, 0 hits, 1 error, 1 LOB. Mariners 1, Yankees 7.
Bottom of the 6th, Yankees Batting, Ahead 7-1, Mariners' Andrew Albers facing 2-3-4											
b6	7-1	0	---	5,(1-2)		NYY	Starlin Castro	Andrew Albers	0%	99%	Single to CF (Line Drive to Deep LF-CF)
b6	7-1	0	1--	6,(3-2)		NYY	Gary Sanchez	Andrew Albers	0%	99%	Walk; Castro to 2B
											Dan Altavilla replaces Andrew Albers pitching.
b6	7-1	0	12-	2,(1-0)		NYY	Aaron Judge	Dan Altavilla	0%	99%	Wild Pitch; Castro to 3B; Sanchez to 2B
b6	7-1	0	-23	4,(3-0)		NYY	Aaron Judge	Dan Altavilla	0%	99%	Walk
b6	7-1	0	123	5,(2-2)	O	NYY	Didi Gregorius	Dan Altavilla	0%	99%	Strikeout Swinging
b6	**7-1**	**1**	**123**	**1,(0-0)**	**ROO**	**NYY**	**Chase Headley**	**Dan Altavilla**	**0%**	**99%**	**Double Play: Flyball: CF/Sacrifice Fly (Deep CF); Castro Scores; Sanchez out at 3B**
											1 run, 1 hit, 0 errors, 1 LOB. Mariners 1, Yankees 8.
Top of the 7th, Mariners Batting, Behind 1-8, Yankees' Masahiro Tanaka facing 8-9-1											
t7	1-8	0	---	3,(0-2)	O	SEA	Mike Zunino	Masahiro Tanaka	0%	99%	Strikeout Swinging
t7	1-8	1	---	3,(0-2)	O	SEA	Guillermo Heredia	Masahiro Tanaka	0%	100%	Strikeout Swinging
t7	1-8	2	---	3,(1-1)	O	SEA	Jean Segura	Masahiro Tanaka	0%	100%	Groundout: 2B-1B
											0 runs, 0 hits, 0 errors, 0 LOB. Mariners 1, Yankees 8.
Bottom of the 7th, Yankees Batting, Ahead 8-1, Mariners' Dan Altavilla facing 7-8-9											
											Taylor Motter replaces Robinson Cano playing 2B batting 3rd.
b7	8-1	0	---	5,(3-1)		NYY	Todd Frazier	Dan Altavilla	0%	100%	Walk
b7	8-1	0	1--	1,(0-0)		NYY	Jacoby Ellsbury	Dan Altavilla	0%	100%	Single to RF (Ground Ball thru 2B-1B); Frazier to 2B
b7	8-1	0	12-	1,(0-0)		NYY	Ronald Torreyes	Dan Altavilla	0%	100%	Single to LF (Line Drive to Short LF); Frazier to 3B; Ellsbury to 2B
b7	8-1	0	123	5,(2-2)	O	NYY	Aaron Hicks	Dan Altavilla	0%	100%	Popfly: SS (Deep SS-2B)
											Greg Bird pinch hits for Starlin Castro (DH) batting 2nd.
b7	**8-1**	**1**	**123**	**3,(1-1)**	**RR**	**NYY**	**Greg Bird**	**Dan Altavilla**	**0%**	**100%**	**Single to RF (Ground Ball thru 2B-1B); Frazier Scores; Ellsbury Scores; Torreyes to 3B**
b7	10-1	1	1-3	3,(0-2)	O	NYY	Gary Sanchez	Dan Altavilla	0%	100%	Strikeout Swinging
b7	10-1	2	1-3	6,(3-2)	O	NYY	Aaron Judge	Dan Altavilla	0%	100%	Strikeout Looking
											2 runs, 3 hits, 0 errors, 2 LOB. Mariners 1, Yankees 10.
Top of the 8th, Mariners Batting, Behind 1-10, Yankees' Caleb Smith facing 2-3-4											
											Caleb Smith replaces Masahiro Tanaka pitching.
t8	1-10	0	---	3,(2-0)	O	SEA	Yonder Alonso	Caleb Smith	0%	100%	Flyball: CF (Deep LF-CF)
t8	1-10	1	---	4,(0-2)	O	SEA	Taylor Motter	Caleb Smith	0%	100%	Flyball: RF (Deep RF)
t8	1-10	2	---	3,(1-1)	O	SEA	Nelson Cruz	Caleb Smith	0%	100%	Lineout: RF (Deep CF-RF)
											0 runs, 0 hits, 0 errors, 0 LOB. Mariners 1, Yankees 10.
Bottom of the 8th, Yankees Batting, Ahead 10-1, Mariners' Dan Altavilla facing 5-6-7											
b8	10-1	0	---	4,(2-1)		NYY	Didi Gregorius	Dan Altavilla	0%	100%	Single to RF (Ground Ball)
											Austin Romine pinch hits for Chase Headley (1B) batting 6th.
b8	10-1	0	1--	3,(1-1)	O	NYY	Austin Romine	Dan Altavilla	0%	100%	Groundout: P-1B (Front of Home); Gregorius to 2B
b8	10-1	1	-2-	3,(0-2)	O	NYY	Todd Frazier	Dan Altavilla	0%	100%	Strikeout Swinging
b8	10-1	2	-2-	1,(0-0)	O	NYY	Jacoby Ellsbury	Dan Altavilla	0%	100%	Groundout: 2B-1B (2B-1B)
											0 runs, 1 hit, 0 errors, 1 LOB. Mariners 1, Yankees 10.
Top of the 9th, Mariners Batting, Behind 1-10, Yankees' Caleb Smith facing 5-6-7											
											Austin Romine moves from PH to 1B .
t9	1-10	0	---	4,(1-2)	O	SEA	Kyle Seager	Caleb Smith	0%	100%	Strikeout Looking
t9	1-10	1	---	5,(2-2)	O	SEA	Mitch Haniger	Caleb Smith	0%	100%	Groundout: 3B-1B
											Danny Valencia pinch hits for Ben Gamel (LF) batting 7th.
t9	1-10	2	---	1,(0-0)	O	SEA	Danny Valencia	Caleb Smith	0%	100%	Flyball: RF (Deep RF)
											0 runs, 0 hits, 0 errors, 0 LOB. Mariners 1, Yankees 10.

Play-by-Play Explanation

Score- The score from the perspective of the batting team.
RoB- This gives the baserunner (Runners on Base) configuration at the start of the play. "1-3" would mean runners on first and third. Clicking on this will show the defensive players and baserunners on the field for this play.
Pit- When available, the number of pitches in this plate appearance. Clicking on this number will show the sequence of pitches thrown including, when available, things like runner going, ball blocked, attempted pickoffs and the like. We believe this data to be as accurate as humanly possible, but there are going to be some errors in the data, so please take it with a grain of salt. Clicking on this will show the defensive players and baserunners on the field for this play.
R/O- This has a "O" for every out on the play and an "R" for every run that scored on the play. Some plays will have both in no particular order.
Batter- The batter at the plate when this play occurred. If the play is a baserunning event, then the batter's name will be repeated as indicated by quotes.
Pitcher- The pitcher on the mound when this play occurred.
wWPA- Winning Team's Win Probability Added. The amount that this play increased or decreased the eventual winning team's probability of winning the game. More About Win Probability Added
wWE- Winning Team's Win Expectancy. The probability of the eventual winning team winning the game at the end of this play given two average teams playing each other. More About Win Probability Added
Play Detail- This is an explanation of the play that occurred. In some cases, batted ball location and type will be indicated within parentheses. Again, these are best efforts to the record the game as it happened. Also, plays made on the baserunners (including the batter as a baserunner) will be indicated in parentheses after the baserunner's name. Advancement of baserunners is given in cases where the advancement is not easily deduced or obvious from the play. For example, advancement for a walk will not be given, but for a single or double it will be given.

The first inning, with errors involved in the scoring for both teams, is of primary interest for illustration here. Seattle's inning goes as follows. Segura makes the first out (SUV = -0.23). Alonso singles (SUV = 0.22) and advance to second on an error (unearned SUV = 0.44 – 0.22 = 0.22). Cano singles (SUV = 0.22), advancing Alonso to third (SUV = 0.68 – 0.44 = 0.24), giving Cano a total of 0.46. Cruz doubles (SUV = 0.44) scoring Alonso (SUV = 1 – 0.68 = 0.32) and advancing Cano to third base (SUV = 0.68 – 0.22 = 0.46), giving Cruz a total of 1.22. With runners on second and third, Seager strikes out (SUV = -0.16), leaving Cano at third, now with two outs (SUV = 0.29 – 0.68 = -0.39), and Cruz at second (SUV = 0.23 – 0.44 = -0.21), giving Seager at

total of -0.76. Finally, Haniger ends the inning with the third out (SUV = -0.10), stranding both runners (SUV = -0.29 for stranding Cano, plus SUV = -0.23 for stranding Cano), giving Haniger a total of -0.62. Therefore, when the six players' SUVs (-0.23 + 0.22 + 0.46 + 1.22 – 0.76 – 0.62 = 0.29) are combined with the unearned SUV due to the error (0.22), the total SUV becomes the expected 1 – 0.49 = 0.51 for one run scored.

The Yankees' first inning is even more interesting, including three errors, and is likely as complicated as any SUV calculation can get. However, since only the pitcher's SUV is of interest, the individuals' SUVs are not separately tracked. Here is how Albers' SUV is calculated. Hicks makes the first out (Albers' SUV = -0.23). Castro doubles (Albers' SUV = 0.44, cumulative = -0.23 + 0.44 = 0.21). Sanchez singles in Castro (Albers' SUV = 1 – 0.44 = 0.56 for scoring Castro, plus SUV = 0.22 for the single) and advances to second on an error (unearned SUV = 0.44 – 0.22 = 0.22), giving Albers' a cumulative SUV = 0.21 + 0.56 + 0.22 = 0.99, with 0.22 unearned being tracked separately. Judge walks, adding 0.22 to Albers' SUV, now at 1.21. Gregorius reaches first on an error (unearned SUV = 0.22), advancing Sanchez to third (unearned SUV = 0.68 – 0.44 = 0.24) and Judge to second (unearned SUV = 0.44 – 0.22 = 0.22). This brings the cumulative unearned SUV now to 0.22 + 0.22 + 0.24 + 0.22 = 0.90. Headley next grounds into what would have been a force out at second, but instead is an error, allowing Sanchez to score (unearned SUV = 1 – 0.68 = 0.32), Judge to reach third (unearned SUV = 0.68 – 0.44 = 0.24), Gregorius to reach second (unearned SUV = 0.44 – 0.22 = 0.22), and Headley to reach first (unearned SUV = 0.22). The cumulative unearned SUV now rises to 0.90 + 0.32 + 0.24 + 0.22 + 0.22 = 1.90. Albers' remains at 1.21. Frazier strikes out for the second out (Albers' SUV = 0.29 – 0.68 = -0.39 for keeping Judge at third, plus 0.23 – 0.44 = -0.23 for doing likewise with Gregorius at second, plus 0.12 – 0.22 = -0.10 for keeping Headley at first, plus SUV = -0.16 for the second out). Albers' cumulative SUV is now 1.21 – 0.39 – 0.23 – 0.10 – 0.16 = 0.33. Next, Ellsbury doubles (Albers' SUV = 0.23), driving in Judge and Gregorius (Albers' SUV = 1 – 0.29 = 0.71 for Judge, plus 1 – 0.23 = 0.77 for Gregorius), and advancing Headley to third (Albers' SUV = 0.29 – 0.12 = 0.17). However, an error allows Headley to score (unearned SUV = 1 – 0.29 = 0.71) and Ellsbury to advance to third (unearned SUV = 0.29 – 0.23 = 0.06). Totaling up Albers' and the unearned SUVs now yields cumulatives of 0.33 + 0.23 + 0.71 + 0.77 + 0.17 = 2.21 and 1.90 + 0.71 + 0.06 = 2.67, respectively. Torreyes next singles (Albers' SUV = 0.12), driving in Ellsbury from third (Albers' SUV = 1 – 0.29 = 0.71), raising Albers' cumulative SUV to 2.21 + 0.12 + 0.71 = 3.04. Finally, Hicks makes the third out (Albers' SUV = -0.12 for stranding Torreyes, plus -0.10 for the third out). Albers' cumulative SUV for this inning becomes 3.04 – 0.12 – 0.10 = 2.84. Adding this to the total unearned SUV = 2.67 yield 5.51, which corresponds to 6 – 0.49 = 5.51 for six runs scored in the inning.

Since Albers experienced no more errors over the remaining five innings he pitched, his total SUV acquired the generic -0.49 for each inning without a score and 1– 0.49 = 0.51 for each of the two innings where he yielded an additional run, bringing his total for the game to 2.84 + (3)(-0.49) + (2)(0.51) = 2.39. Seattle made no more errors, so the total unearned SUV for the game remains at 2.67. Reliever Altavilla yielded two runs in the seventh and none in the eighth for a cumulative SUV = 2.00 – 0.49 – 0.49 = 1.02. Thus, the total SUV for the two Seattle pitchers becomes 2.39 + 1.02 = 3.41 which, when combined with the unearned SUV = 2.67, equals 6.08, consistent with an eight-inning game SUV (Yankees were home) of 10 – (8)(0.49) = 6.08.

Seattle never scored again, so each of their remaining eight innings had SUVs = -0.49, with innings two, seven, eight and nine having the simplest "three up and three down" SUV = -0.23 – 0.16 – 0.10 = -0.49. Scoring only one run for the game, the total SUV is 1 – (9)(0.49) = -3.41, consistent

with the total for all the players' SUVs (-4.02) plus the total unearned SUV (0.61), i.e., -4.02 + 0.61 = -3.41. The Yankees made an error in the sixth, so the SUV calculation for that inning went as follows: Cruz reaches first on an error (SUV = 0.00 for Cruz, with an unearned SUV = 0.39); Seager strikes out for first out (SUV = 0.22 – 0.39 = -0.17 for leaving Cruz at first, plus -0.23 for making the first out, giving Seager a total of -0.40); Haniger strikes out for the second out (SUV = 0.12 – 0.22 = -0.10 for leaving Cruz at first, plus -0.16 for making the second out, giving Haniger a total of -0.26); finally Gamel makes out number three (SUV = -0.12 for stranding Cruz, plus -0.10 for the third out, giving Gamel a total of -0.22); total SUV for inning = 0.39 (unearned) – 0.40 – 0.26 – 0.22 = -0.49. The reader is left to calculate the SUVs for the other innings based on the play-by-play provided.

GAME 059, JUNE 6, MINNESOTA-3 @ SEATTLE-12

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Heredia	0.39	-0.10		0.87	0.28		-0.23			5	1.21	0.242	61	-0.84	-0.014
Valencia	0.63		-0.23	1.74	-0.26					4	1.88	0.470	63	5.50	0.087
Smith							-0.16			1	-0.16	-0.160	2	0.28	0.140
Cano	1.98		0.22	0.63	0.34		-0.10			5	3.07	0.614	68	4.52	0.066
Cruz	-0.23		0.44	0.76						3	0.97	0.323	73	8.73	0.120
Powell					-0.62			-0.23		2	-0.85	-0.425	13	-1.19	-0.092
Seager	-0.16		1.46	1.98		-0.23		-0.16		5	2.89	0.578	80	4.74	0.059
Motter	0.23		0.01	-0.23		0.22		-0.10		5	0.13	0.026	59	3.27	0.055
Gamel	-0.33		-0.39	-0.16		0.44				4	-0.44	-0.110	48	4.39	0.091
Zunino		-0.23		0.29		-0.47				4	-0.41	-0.103	50	-7.97	-0.159
Dyson		-0.16		0.63	-0.23	-0.45				4	-0.21	-0.053	65	1.86	0.029
SUV	2.51	-0.49	1.51	6.51	-0.49	-0.49	-0.49	-0.49	0.00	42	8.08	0.192	741	8.96	0.012
Error/PB/CI											0.00	8.08		4.76	13.72

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Paxton	-0.49	-0.49	-0.49	1.51	0.51					5.00	0.55	0.110	16.33	-0.50	-0.031
Zych						-0.49				1.00	-0.49	-0.490	4.67	-1.11	-0.238
Altavilla							-0.49	-0.49		2.00	-0.98	-0.490	8.00	0.08	0.010
Vincent									-0.49	1.00	-0.49	-0.490	4.67	-2.12	-0.454
SUV	-0.49	-0.49	-0.49	1.51	0.51	-0.49	-0.49	-0.49	-0.49	9.00	-1.41	-0.157	172.67	-2.99	-0.017
Error/PB/CI											0.00	-1.41		4.32	1.33

Play by Play View Pitches ▾ Box Score Explanation wWE and wWPA Explanation Share & more ▾ Glossary

Inn	Score	Out	RoB	Pit(cnt)	R/O	@Bat	Batter	Pitcher	wWPA	wWE	Play Description
Top of the 1st, Twins Batting, Tied 0-0, Mariners' James Paxton facing 1-2-3											
t1	0-0	0	---	4,(2-1)	O	MIN	Brian Dozier	James Paxton	2%	52%	Flyball: RF
t1	0-0	1	---	7,(3-2)	O	MIN	Joe Mauer	James Paxton	2%	54%	Groundout: SS-1B
t1	0-0	2	---	3,(1-1)	O	MIN	Miguel Sano	James Paxton	1%	55%	Groundout: 2B-1B (Deep SS-2B)
									0 runs, 0 hits, 0 errors, 0 LOB. Twins 0, Mariners 0.		
Bottom of the 1st, Mariners Batting, Tied 0-0, Twins' Hector Santiago facing 1-2-3											
b1	0-0	0	---	5,(3-1)		SEA	Guillermo Heredia	Hector Santiago	3%	58%	Walk
b1	0-0	0	1--	5,(3-1)		SEA	Danny Valencia	Hector Santiago	5%	64%	Walk; Heredia to 2B
b1	**0-0**	**0**	**12-**	**4,(1-2)**	**RRR**	**SEA**	**Robinson Cano**	**Hector Santiago**	**17%**	**81%**	**Home Run (Line Drive to Deep RF); Heredia Scores; Valencia Scores**
b1	3-0	0	---	3,(0-2)	O	SEA	Nelson Cruz	Hector Santiago	-1%	79%	Strikeout Swinging
b1	3-0	1	---	2,(1-0)	O	SEA	Kyle Seager	Hector Santiago	-1%	78%	Popfly: 3B
b1	3-0	2	---	5,(1-2)		SEA	Taylor Motter	Hector Santiago	1%	79%	Single to LF (Line Drive to Short LF)
b1	3-0	2	1--	3,(1-1)		SEA	Ben Gamel	Hector Santiago	1%	80%	Motter Steals 2B
b1	3-0	2	-2-	9,(3-2)	O	SEA	Ben Gamel	Hector Santiago	-2%	78%	Strikeout Looking
									3 runs, 2 hits, 0 errors, 1 LOB. Twins 0, Mariners 3.		
Top of the 2nd, Twins Batting, Behind 0-3, Mariners' James Paxton facing 4-5-6											
t2	0-3	0	---	5,(3-1)		MIN	Robbie Grossman	James Paxton	-3%	74%	Walk
t2	0-3	0	1--	7,(2-2)	OO	MIN	Max Kepler	James Paxton	7%	81%	Ground Ball Double Play: SS-2B-1B
t2	0-3	2	---	6,(3-2)	O	MIN	Eduardo Escobar	James Paxton	1%	82%	Strikeout Swinging
									0 runs, 0 hits, 0 errors, 0 LOB. Twins 0, Mariners 3.		
Bottom of the 2nd, Mariners Batting, Ahead 3-0, Twins' Hector Santiago facing 8-9-1											
b2	3-0	0	---	4,(1-2)	O	SEA	Mike Zunino	Hector Santiago	-1%	81%	Strikeout Swinging
b2	3-0	1	---	3,(1-1)	O	SEA	Jarrod Dyson	Hector Santiago	-1%	80%	Groundout: P-1B
b2	3-0	2	---	7,(2-2)	O	SEA	Guillermo Heredia	Hector Santiago	-1%	80%	Strikeout Looking
									0 runs, 0 hits, 0 errors, 0 LOB. Twins 0, Mariners 3.		
Top of the 3rd, Twins Batting, Behind 0-3, Mariners' James Paxton facing 7-8-9											
t3	0-3	0	---	3,(0-2)	O	MIN	Chris Gimenez	James Paxton	2%	82%	Strikeout Swinging
t3	0-3	1	---	4,(1-2)	O	MIN	Ehire Adrianza	James Paxton	1%	83%	Lineout: P
t3	0-3	2	---	5,(1-2)	O	MIN	Byron Buxton	James Paxton	1%	84%	Strikeout Looking
									0 runs, 0 hits, 0 errors, 0 LOB. Twins 0, Mariners 3.		
Bottom of the 3rd, Mariners Batting, Ahead 3-0, Twins' Hector Santiago facing 2-3-4											
b3	3-0	0	---	4,(2-1)	O	SEA	Danny Valencia	Hector Santiago	-1%	83%	Foul Popfly: C (Behind Home)
b3	3-0	1	---	7,(3-2)		SEA	Robinson Cano	Hector Santiago	1%	84%	Walk
b3	3-0	1	1--	5,(3-1)		SEA	Nelson Cruz	Hector Santiago	2%	86%	Walk; Cano to 2B
b3	**3-0**	**1**	**12-**	**3,(1-1)**	**R**	**SEA**	**Kyle Seager**	**Hector Santiago**	**7%**	**92%**	**Double to RF (Line Drive to Deep RF Line); Cano Scores; Cruz to 3B**
b3	**4-0**	**1**	**-23**	**6,(3-2)**	**RO**	**SEA**	**Taylor Motter**	**Hector Santiago**	**1%**	**93%**	**Flyball: LF/Sacrifice Fly (Deep LF-CF); Cruz Scores; Seager to 3B**
									Randy Rosario replaces Hector Santiago pitching		
b3	5-0	2	--3	6,(3-2)	O	SEA	Ben Gamel	Randy Rosario	-1%	92%	Strikeout Swinging (C-1B)
									2 runs, 1 hit, 0 errors, 1 LOB. Twins 0, Mariners 5.		

Top of the 4th, Twins Batting, Behind 0-5, Mariners' James Paxton facing 1-2-3											
t4	**0-5**	**0**	**---**	**2,(1-0)**	**R**	**MIN**	**Brian Dozier**	**James Paxton**	**-4%**	**88%**	**Home Run (Fly Ball to Deep LF Line)**
t4	1-5	0	---	2,(0-1)	O	MIN	Joe Mauer	James Paxton	2%	89%	Foul Lineout: LF (LF into Foul Terr.)
t4	1-5	1	---	3,(2-0)		MIN	Miguel Sano	James Paxton	-3%	87%	Double to CF (Line Drive to Deep CF-RF)
t4	1-5	1	-2-	2,(0-1)		MIN	Robbie Grossman	James Paxton	-1%	85%	Wild Pitch; Sano to 3B
t4	1-5	1	--3	5,(3-1)		MIN	Robbie Grossman	James Paxton	-2%	83%	Walk
t4	**1-5**	**1**	**1-3**	**2,(0-1)**	**RO**	**MIN**	**Max Kepler**	**James Paxton**	**1%**	**84%**	**Groundout: 2B-SS/Forceout at 2B (2B-1B); Sano Scores**
t4	2-5	2	1--	2,(0-1)		MIN	Eduardo Escobar	James Paxton	-3%	81%	Single to RF (Line Drive to Short RF Line); Kepler to 3B
t4	2-5	2	1-3	3,(1-1)	O	MIN	Chris Gimenez	James Paxton	5%	86%	Popfly: 2B (Deep 2B)
											2 runs, 3 hits, 0 errors, 2 LOB. Twins 2, Mariners 5.
Bottom of the 4th, Mariners Batting, Ahead 5-2, Twins' Randy Rosario facing 8-9-1											
b4	5-2	0	---	7,(3-2)		SEA	Mike Zunino	Randy Rosario	2%	88%	Single to LF (Ground Ball thru SS-3B Hole)
b4	5-2	0	1--	3,(0-2)		SEA	Jarrod Dyson	Randy Rosario	2%	90%	Hit By Pitch; Zunino to 2B
b4	5-2	0	12-	1,(0-0)		SEA	Guillermo Heredia	Randy Rosario	3%	93%	Single to LF (Ground Ball thru SS-3B Hole); Zunino to 3B; Dyson to 2B
b4	**5-2**	**0**	**123**	**8,(3-2)**	**RRR**	**SEA**	**Danny Valencia**	**Randy Rosario**	**5%**	**98%**	**Double to CF (Line Drive to Deep LF-CF); Zunino Scores; Dyson Scores; Heredia Scores**
b4	8-2	0	-2-	3,(2-0)		SEA	Robinson Cano	Randy Rosario	1%	98%	Single to CF (Ground Ball thru SS-2B); Valencia to 3B
											Alex Wimmers replaces Randy Rosario pitching
b4	**8-2**	**0**	**1-3**	**4,(1-2)**	**R**	**SEA**	**Nelson Cruz**	**Alex Wimmers**	**0%**	**99%**	**Single to LF (Line Drive to Short LF-CF); Valencia Scores; Cano to 2B**
											Boog Powell pinch runs for Nelson Cruz (DH) batting 4th
b4	**9-2**	**0**	**12-**	**4,(2-1)**	**RRR**	**SEA**	**Kyle Seager**	**Alex Wimmers**	**1%**	**100%**	**Home Run (Fly Ball to Deep RF Line); Cano Scores; Powell Scores**
b4	12-2	0	---	1,(0-0)	O	SEA	Taylor Motter	Alex Wimmers	0%	100%	Popfly: SS (Deep SS-3B Hole)
b4	12-2	1	---	6,(3-2)	O	SEA	Ben Gamel	Alex Wimmers	0%	100%	Strikeout Swinging
b4	12-2	2	---	5,(2-2)	O	SEA	Mike Zunino	Alex Wimmers	0%	100%	Strikeout Looking
											7 runs, 6 hits, 0 errors, 0 LOB. Twins 2, Mariners 12.
Top of the 5th, Twins Batting, Behind 2-12, Mariners' James Paxton facing 8-9-1											
t5	2-12	0	---	10,(3-2)	O	MIN	Ehire Adrianza	James Paxton	0%	100%	Groundout: 3B-1B (Weak 3B)
t5	2-12	1	---	5,(2-2)		MIN	Byron Buxton	James Paxton	0%	100%	Single to LF (Line Drive)
t5	2-12	1	1--	5,(2-2)		MIN	Brian Dozier	James Paxton	0%	100%	Wild Pitch; Buxton to 2B
t5	2-12	1	-2-	6,(3-2)		MIN	Brian Dozier	James Paxton	0%	99%	Walk
t5	**2-12**	**1**	**12-**	**3,(0-2)**	**R**	**MIN**	**Joe Mauer**	**James Paxton**	**-1%**	**99%**	**Single to CF (Line Drive to Deep CF); Buxton Scores; Dozier to 3B**
t5	3-12	1	1-3	6,(3-2)	O	MIN	Miguel Sano	James Paxton	1%	99%	Strikeout Swinging
t5	3-12	2	1-3	3,(2-0)	O	MIN	Robbie Grossman	James Paxton	0%	100%	Flyball: RF (Short RF Line)
											1 run, 2 hits, 0 errors, 2 LOB. Twins 3, Mariners 12.
Bottom of the 5th, Mariners Batting, Ahead 12-3, Twins' Alex Wimmers facing 9-1-2											
b5	12-3	0	---	6,(3-2)	O	SEA	Jarrod Dyson	Alex Wimmers	0%	100%	Strikeout Swinging
b5	12-3	1	---	3,(1-1)		SEA	Guillermo Heredia	Alex Wimmers	0%	100%	Single to P (Line Drive)
b5	12-3	1	1--	7,(3-2)	O	SEA	Danny Valencia	Alex Wimmers	0%	100%	Popfly: 3B (SS-3B Hole)
b5	12-3	2	1--	6,(3-2)		SEA	Robinson Cano	Alex Wimmers	0%	100%	Walk; Heredia to 2B
											Craig Breslow replaces Alex Wimmers pitching
b5	12-3	2	12-	3,(1-1)		SEA	Boog Powell	Craig Breslow	0%	100%	Wild Pitch; Heredia to 3B; Cano to 2B
b5	12-3	2	-23	5,(2-2)	O	SEA	Boog Powell	Craig Breslow	0%	100%	Lineout: CF (Deep LF-CF)
											0 runs, 1 hit, 0 errors, 2 LOB. Twins 3, Mariners 12.
Top of the 6th, Twins Batting, Behind 3-12, Mariners' Tony Zych facing 5-6-7											
											Tony Zych replaces James Paxton pitching
t6	3-12	0	---	2,(0-1)		MIN	Max Kepler	Tony Zych	0%	99%	Single to LF (Line Drive to Short LF)
t6	3-12	0	1--	5,(1-2)	O	MIN	Eduardo Escobar	Tony Zych	0%	100%	Groundout: 1B-SS/Forceout at 2B (2B-1B)
t6	3-12	1	1--	8,(3-2)		MIN	Chris Gimenez	Tony Zych	0%	99%	Walk; Escobar to 2B
t6	3-12	1	12-	6,(2-2)	O	MIN	Ehire Adrianza	Tony Zych	0%	100%	Strikeout Looking
t6	3-12	2	12-	8,(1-2)	O	MIN	Byron Buxton	Tony Zych	0%	100%	Strikeout Looking
											0 runs, 1 hit, 0 errors, 2 LOB. Twins 3, Mariners 12.
Bottom of the 6th, Mariners Batting, Ahead 12-3, Twins' Craig Breslow facing 5-6-7											
b6	12-3	0	---	6,(3-2)	O	SEA	Kyle Seager	Craig Breslow	0%	100%	Lineout: LF (Deep LF)
b6	12-3	1	---	2,(0-1)		SEA	Taylor Motter	Craig Breslow	0%	100%	Single to CF (Ground Ball thru SS-2B)
b6	12-3	1	1--	3,(1-1)		SEA	Ben Gamel	Craig Breslow	0%	100%	Single to CF (Ground Ball thru SS-2B); Motter to 2B
b6	12-3	1	12-	4,(1-2)	O	SEA	Mike Zunino	Craig Breslow	0%	100%	Strikeout Swinging
b6	12-3	2	12-	3,(1-1)	O	SEA	Jarrod Dyson	Craig Breslow	0%	100%	Lineout: CF (Deep CF)
											0 runs, 2 hits, 0 errors, 2 LOB. Twins 3, Mariners 12.
Top of the 7th, Twins Batting, Behind 3-12, Mariners' Dan Altavilla facing 1-2-3											
											Dan Altavilla replaces Tony Zych pitching
t7	3-12	0	---	4,(2-1)	O	MIN	Brian Dozier	Dan Altavilla	0%	100%	Popfly: 3B (SS-3B Hole)
t7	3-12	1	---	6,(3-2)	O	MIN	Joe Mauer	Dan Altavilla	0%	100%	Lineout: LF (Deep LF Line)
t7	3-12	2	---	4,(2-1)		MIN	Miguel Sano	Dan Altavilla	0%	100%	Single to CF (Ground Ball)
t7	3-12	2	1--	2,(1-0)		MIN	Robbie Grossman	Dan Altavilla	0%	100%	Double to RF (Line Drive to Deep RF Line); Sano to 3B
t7	3-12	2	-23	2,(0-1)	O	MIN	Max Kepler	Dan Altavilla	0%	100%	Popfly: SS (Deep SS)
											0 runs, 2 hits, 0 errors, 2 LOB. Twins 3, Mariners 12.
Bottom of the 7th, Mariners Batting, Ahead 12-3, Twins' Buddy Boshers facing 1-2-3											
											Buddy Boshers replaces Craig Breslow pitching
b7	12-3	0	---	3,(0-2)	O	SEA	Guillermo Heredia	Buddy Boshers	0%	100%	Popfly: 1B (Weak 2B-1B)
											Tyler Smith pinch hits for Danny Valencia (1B) batting 2nd
b7	12-3	1	---	4,(1-2)	O	SEA	Tyler Smith	Buddy Boshers	0%	100%	Strikeout Swinging (C-1B)
b7	12-3	2	---	5,(1-2)	O	SEA	Robinson Cano	Buddy Boshers	0%	100%	Groundout: 2B-1B
											0 runs, 0 hits, 0 errors, 0 LOB. Twins 3, Mariners 12.
Top of the 8th, Twins Batting, Behind 3-12, Mariners' Dan Altavilla facing 6-7-8											
											Taylor Motter moves from SS to 1B *Tyler Smith moves from PH to SS*
t8	3-12	0	---	1,(0-0)		MIN	Eduardo Escobar	Dan Altavilla	0%	100%	Single to RF (Ground Ball)
t8	3-12	0	1--	6,(1-2)	O	MIN	Chris Gimenez	Dan Altavilla	0%	100%	Popfly: 3B (Deep 3B)
t8	3-12	1	1--	2,(0-1)	O	MIN	Ehire Adrianza	Dan Altavilla	0%	100%	Flyball: CF (Deep LF-CF)
t8	3-12	2	1--	1,(0-0)		MIN	Byron Buxton	Dan Altavilla	0%	100%	Double to LF (Ground Ball); Escobar to 3B
t8	3-12	2	-23	7,(3-2)	O	MIN	Brian Dozier	Dan Altavilla	0%	100%	Strikeout Swinging
											0 runs, 2 hits, 0 errors, 2 LOB. Twins 3, Mariners 12.
Bottom of the 8th, Mariners Batting, Ahead 12-3, Twins' Chris Gimenez facing 4-5-6											
											Chris Gimenez moves from C to P *Eduardo Escobar moves from DH to C (team loses DH)*
b8	12-3	0	---	2,(1-0)	O	SEA	Boog Powell	Chris Gimenez	0%	100%	Groundout: 1B unassisted
b8	12-3	1	---	2,(0-1)	O	SEA	Kyle Seager	Chris Gimenez	0%	100%	Flyball: CF (Deep LF-CF)
b8	12-3	2	---	5,(3-1)	O	SEA	Taylor Motter	Chris Gimenez	0%	100%	Foul Popfly: 3B (3B into Foul Terr.)
											0 runs, 0 hits, 0 errors, 0 LOB. Twins 3, Mariners 12.
Top of the 9th, Twins Batting, Behind 3-12, Mariners' Nick Vincent facing 2-3-4											
											Nick Vincent replaces Dan Altavilla pitching
t9	3-12	0	---	4,(1-2)		MIN	Joe Mauer	Nick Vincent	0%	100%	Single to LF (Line Drive to Short LF-CF)
t9	3-12	0	1--	3,(0-2)	O	MIN	Miguel Sano	Nick Vincent	0%	100%	Popfly: 1B (Weak 2B-1B)
t9	3-12	1	1--	6,(2-2)	O	MIN	Robbie Grossman	Nick Vincent	0%	100%	Groundout: 2B-3B/Forceout at 2B (2B-1B)
t9	3-12	2	1--	2,(0-1)	O	MIN	Max Kepler	Nick Vincent	0%	100%	Lineout: CF (Deep CF)
											0 runs, 1 hit, 0 errors, 1 LOB. Twins 3, Mariners 12.

From this game, it is the Mariners' fourth inning that is of interest, with them having "batted around" to score seven runs. Zunino led off with a single (SUV = 0.39). Dyson was hit by a pitch (SUV = 0.39), advancing Zunino to second (SUV = 0.63 – 0.39 = 0.24), giving Dyson a total SUV

of 0.63. Next, Heredia singled (SUV = 0.39), advancing each runner one base (SUV = 0.87 – 0.63 + 0.63 – 0.39 = 0.48), giving Heredia a total SUV of 0.87. Valencia followed with a double (SUV = 0.63), scoring all three runners (SUV = 3 – 0.87 – 0.63 – 0.39 = 1.11), giving Valencia a total SUV of 1.74. Cano singled (SUV = 0.39), advancing Valencia to third (SUV = 0.87 – 0.63 = 0.24), giving Cano a total SUV of 0.63. After a pitching change, Cruz singled (SUV = 0.39), scoring Valencia (SUV = 1 – 0.87 = 0.13) and advancing Cano to second (SUV = 0.63 – 0.39 = 0.24), giving Cruz a total SUV of 0.76. Powell came in to pinch run for Cruz; however, as he subsequently did not directly advance on his own or make an out on his own, he was not tracked in this inning (but tracked in later innings since he remained in the game and subsequently batted). Seager next scored everyone with a home run (SUV = 1 + 2 – 0.63 – 0.39 = 1.98). Finally, the next three batters made outs (Motter's SUV = -0.23, Gamel's SUV = -0.16, Zunino's SUV = -0.10). Since Zunino batted twice in the inning, he had two opportunities and a net SUV = 0.39 – 0.10 = 0.29. This is indicated by the bolded outline around his entry in the fourth inning. The Mariners' total SUV for the inning is the expected 7 – 0.49 = 6.51, as shown by the sum of the individual SUVs for the inning. Seattle's total game SUV = 12 – (8)(0.49) = 8.08 (Seattle was home), while the Twins' total was 3 – (9)(0.49) = -1.41.

GAME 038, MAY 14, SEATTLE-2 @ TORONTO-3 (WALK-OFF HOME RUN, 2 OUTS)

Mariner	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Ops	SUV	Avg	+Ops	+SUV	+Avg
Segura	-0.23		-0.16		0.90		-0.16			4	0.35	0.088	37	0.58	0.016
Gamel	-0.16		-0.10		-0.55		-0.10			4	-0.91	-0.228	24	1.85	0.077
Cruz	0.12			0.39	-0.39			-0.23		4	-0.11	-0.028	54	7.83	0.145
Seager	-0.22			0.63		-0.23		-0.16		4	0.02	0.005	49	2.62	0.053
Valencia		0.39		-0.59		-0.16		-0.10		4	-0.46	-0.115	38	3.89	0.102
Motter		-0.40		-0.47		0.12			-0.23	4	-0.98	-0.245	38	0.43	0.011
Heredia		-0.15		-0.45		-0.22			-0.16	4	-0.98	-0.245	33	-2.97	-0.090
Dyson		-0.33			-0.23		1.00		-0.10	4	0.34	0.085	43	0.86	0.020
Ruiz			-0.23		0.22		-0.23			3	-0.24	-0.080	11	-2.93	-0.266
SUV	-0.49	-0.49	-0.49	-0.49	0.51	-0.49	0.51	-0.49	-0.49	35	-2.97	-0.085	480	0.32	0.001
Error/PB/CI					0.56						0.56	-2.41		2.80	3.12

Pitcher	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	IP	SUV	Avg	+IP	+SUV	+Avg
Miranda	-0.49	-0.49	-0.49	-0.49	-0.49	0.39				5.00	-2.06	-0.412	19.00	-6.98	-0.367
Pazos						1.12				1.00	1.12	1.120			
Vincent							-0.49			1.00	-0.49	-0.490	2.67	-1.14	-0.428
Rzepczynski								-0.04		0.67	-0.04	-0.060	3.67	-2.12	-0.578
Zych								-0.45		0.33	-0.45	-1.350	3.67	-0.85	-0.232
Diaz									0.61	0.67	0.61	0.915	3.67	-0.86	-0.235
SUV	-0.49	-0.49	-0.49	-0.49	-0.49	1.51	-0.49	-0.49	0.61	8.67	-1.31	-0.151	111.67	-10.08	-0.090
Error/PB/CI											0.00	-1.31		3.30	-6.78

The interesting aspect of this final game is Toronto's walk-off victory in the bottom of the ninth. After the first two batters made outs (SUV = -0.23 – 0.16 = -0.39), Pillar homers to win the game (SUV = 1.00), giving Diaz an SUV = -0.39 + 1.00 = 0.61 for the inning, which exceeds the usual 1 – 0.49 = 0.51 typical for an inning with one run and three outs. Toronto's game total SUV is thus 3 – (9)(0.49) – 0.10 = -1.31 instead of the expected -1.41 because the final out, with an SUV = -0.10, never occurs. Seattle's run in the fifth is also of interest, since it involved an error. After Dyson made the first out (SUV = -0.23), Ruiz singled (SUV = 0.22), followed by Segura's double (SUV = 0.44), which advanced Ruiz to third (SUV = 0.68 – 0.22 = 0.46), who scored on an error (unearned SUV = 1 – 0.68 = 0.32), with Segura advancing to third on the same error (unearned SUV = 0.68 – 0.44 = 0.24). Therefore, Segura's total SUV = 0.44 + 0.46 = 0.90 and the total unearned SUV = 0.32 + 0.24 = 0.56. Gamel and Cruz made the next two outs without advancing

Segura, for SUVs of 0.29 – 0.68 – 0.16 = -0.55 and -0.29 – 0.10 = -0.39, respectively. The inning's total SUV, with the unearned portion included, is the expected 1 – 0.49 = 0.51.

Play by Play View Pitches ▼ Box Score Explanation wWE and wWPA Explanation Share & more ▼ Glossary

Inn	Score	Out	RoB	Pit(cnt)	R/O	@Bat	Batter	Pitcher	wWPA	wWE	Play Description
Top of the 1st, Mariners Batting, Tied 0-0, Blue Jays' Aaron Sanchez facing 1-2-3											
t1	0-0	0	---	2,(0-1)		SEA	Jean Segura	Aaron Sanchez	-3%	47%	Single to 2B (Ground Ball to SS-2B)
t1	0-0	0	1--	1,(0-0)	O	SEA	Ben Gamel	Aaron Sanchez	6%	52%	Segura Caught Stealing 2B (C-SS)
t1	0-0	1	---	9,(2-2)	O	SEA	Ben Gamel	Aaron Sanchez	2%	54%	Strikeout Swinging
t1	0-0	2	---	4,(3-0)		SEA	Nelson Cruz	Aaron Sanchez	-1%	53%	Walk
t1	0-0	2	1--	2,(0-1)	O	SEA	Kyle Seager	Aaron Sanchez	2%	55%	Flyball: LF (Deep LF Line)
											0 runs, 1 hit, 0 errors, 1 LOB. Mariners 0, Blue Jays 0.
Bottom of the 1st, Blue Jays Batting, Tied 0-0, Mariners' Ariel Miranda facing 1-2-3											
b1	0-0	0	---	5,(0-2)	O	TOR	Kevin Pillar	Ariel Miranda	-2%	53%	Popfly: 2B (Deep 2B)
b1	0-0	1	---	8,(3-2)	O	TOR	Darwin Barney	Ariel Miranda	-2%	51%	Flyball: RF
b1	0-0	2	---	6,(3-2)	O	TOR	Jose Bautista	Ariel Miranda	-1%	50%	Strikeout Swinging
											0 runs, 0 hits, 0 errors, 0 LOB. Mariners 0, Blue Jays 0.
Top of the 2nd, Mariners Batting, Tied 0-0, Blue Jays' Aaron Sanchez facing 5-6-7											
t2	0-0	0	---	5,(2-2)		SEA	Danny Valencia	Aaron Sanchez	-4%	46%	Single to SS (Ground Ball)
t2	0-0	0	1--	5,(2-2)	O	SEA	Taylor Motter	Aaron Sanchez	4%	50%	Strikeout Looking
t2	0-0	1	1--	5,(2-2)	O	SEA	Guillermo Heredia	Aaron Sanchez	2%	52%	Groundout: SS-1B; Valencia to 2B
t2	0-0	2	-2-	5,(3-1)	O	SEA	Jarrod Dyson	Aaron Sanchez	3%	55%	Lineout: 1B (2B-1B)
											0 runs, 1 hit, 0 errors, 1 LOB. Mariners 0, Blue Jays 0.
Bottom of the 2nd, Blue Jays Batting, Tied 0-0, Mariners' Ariel Miranda facing 4-5-6											
b2	0-0	0	---	6,(3-2)	O	TOR	Kendrys Morales	Ariel Miranda	-2%	53%	Lineout: CF (Deep CF)
b2	0-0	1	---	4,(1-2)		TOR	Justin Smoak	Ariel Miranda	3%	55%	Single to CF (Ground Ball thru SS-2B)
b2	0-0	1	1--	3,(1-1)		TOR	Steve Pearce	Ariel Miranda	8%	64%	Double to CF (Line Drive to CF-RF); Smoak to 3B
											Ezequiel Carrera pinch runs for Steve Pearce (LF) batting 6th
b2	0-0	1	-23	4,(1-2)	O	TOR	Devon Travis	Ariel Miranda	-8%	56%	Strikeout Swinging (C-1B)
b2	0-0	2	-23	5,(2-2)	O	TOR	Ryan Goins	Ariel Miranda	-6%	50%	Strikeout Swinging
											0 runs, 2 hits, 0 errors, 2 LOB. Mariners 0, Blue Jays 0.
Top of the 3rd, Mariners Batting, Tied 0-0, Blue Jays' Aaron Sanchez facing 9-1-2											
											Ezequiel Carrera moves from PR to LF
t3	0-0	0	---	1,(0-0)	O	SEA	Carlos Ruiz	Aaron Sanchez	3%	53%	Flyball: RF (Deep RF)
t3	0-0	1	---	3,(2-0)	O	SEA	Jean Segura	Aaron Sanchez	2%	54%	Groundout: 2B-1B
t3	0-0	2	---	4,(0-2)	O	SEA	Ben Gamel	Aaron Sanchez	1%	56%	Strikeout Swinging
											0 runs, 0 hits, 0 errors, 0 LOB. Mariners 0, Blue Jays 0.
Bottom of the 3rd, Blue Jays Batting, Tied 0-0, Mariners' Ariel Miranda facing 9-1-2											
b3	0-0	0	---	3,(0-2)	O	TOR	Luke Maile	Ariel Miranda	-3%	53%	Strikeout Swinging
b3	0-0	1	---	9,(3-2)	O	TOR	Kevin Pillar	Ariel Miranda	-2%	51%	Strikeout Swinging
b3	0-0	2	---	3,(0-2)	O	TOR	Darwin Barney	Ariel Miranda	-1%	50%	Strikeout Swinging
											0 runs, 0 hits, 0 errors, 0 LOB. Mariners 0, Blue Jays 0.
Top of the 4th, Mariners Batting, Tied 0-0, Blue Jays' Aaron Sanchez facing 3-4-5											
t4	0-0	0	---	4,(3-0)		SEA	Nelson Cruz	Aaron Sanchez	-4%	46%	Walk
t4	0-0	0	1--	2,(1-0)		SEA	Kyle Seager	Aaron Sanchez	-6%	39%	Single to CF (Line Drive to Deep CF); Cruz to 2B
t4	0-0	0	12-	3,(0-2)	O	SEA	Danny Valencia	Aaron Sanchez	6%	46%	Lineout: CF (Deep CF)
t4	0-0	1	12-	4,(1-2)	O	SEA	Taylor Motter	Aaron Sanchez	5%	51%	Popfly: SS
t4	0-0	2	12-	5,(3-1)	O	SEA	Guillermo Heredia	Aaron Sanchez	5%	56%	Groundout: 3B-2B/Forceout at 2B
											0 runs, 1 hit, 0 errors, 2 LOB. Mariners 0, Blue Jays 0.
Bottom of the 4th, Blue Jays Batting, Tied 0-0, Mariners' Ariel Miranda facing 3-4-5											
b4	0-0	0	---	6,(3-2)		TOR	Jose Bautista	Ariel Miranda	4%	60%	Walk
b4	0-0	0	1--	4,(1-2)	O	TOR	Kendrys Morales	Ariel Miranda	-4%	56%	Flyball: CF (Deep LF-CF)
b4	0-0	1	1--	7,(3-2)	O	TOR	Justin Smoak	Ariel Miranda	-4%	53%	Flyball: CF (CF-RF)
b4	0-0	2	1--	7,(3-2)	O	TOR	Ezequiel Carrera	Ariel Miranda	-3%	50%	Strikeout Swinging
											0 runs, 0 hits, 0 errors, 1 LOB. Mariners 0, Blue Jays 0.
Top of the 5th, Mariners Batting, Tied 0-0, Blue Jays' Aaron Sanchez facing 8-9-1											
t5	0-0	0	---	1,(0-0)	O	SEA	Jarrod Dyson	Aaron Sanchez	3%	53%	Groundout: P-1B (Short 1B Line)
t5	0-0	1	---	3,(1-1)		SEA	Carlos Ruiz	Aaron Sanchez	-3%	50%	Single to 3B (Ground Ball to SS-3B Hole)
t5	**0-0**	**1**	**1--**	**2,(0-1)**	**R**	**SEA**	**Jean Segura**	**Aaron Sanchez**	**-18%**	**32%**	**Double to RF (Ground Ball); Ruiz Scores/unER/Adv on E9 (throw); Segura to 3B**
t5	1-0	1	--3	7,(3-2)	O	SEA	Ben Gamel	Aaron Sanchez	7%	38%	Strikeout Looking
t5	1-0	2	--3	2,(1-0)	O	SEA	Nelson Cruz	Aaron Sanchez	4%	43%	Groundout: SS-1B
											1 run, 2 hits, 1 error, 1 LOB. Mariners 1, Blue Jays 0.
Bottom of the 5th, Blue Jays Batting, Behind 0-1, Mariners' Ariel Miranda facing 7-8-9											
b5	0-1	0	---	1,(0-0)		TOR	Devon Travis	Ariel Miranda	9%	51%	Double to RF (Ground Ball)
b5	0-1	0	-2-	4,(1-2)	O	TOR	Ryan Goins	Ariel Miranda	-2%	49%	Bunt Groundout: P-1B/Sacrifice (Short 1B Line); Travis to 3B
b5	0-1	1	--3	1,(0-0)	O	TOR	Luke Maile	Ariel Miranda	-9%	40%	Popfly: SS
b5	0-1	2	--3	4,(3-0)		TOR	Kevin Pillar	Ariel Miranda	2%	42%	Walk
b5	0-1	2	1-3	5,(1-2)	O	TOR	Darwin Barney	Ariel Miranda	-8%	35%	Strikeout Swinging
											0 runs, 1 hit, 0 errors, 2 LOB. Mariners 1, Blue Jays 0.
Top of the 6th, Mariners Batting, Ahead 1-0, Blue Jays' Dominic Leone facing 4-5-6											
											Dominic Leone replaces Aaron Sanchez pitching
t6	1-0	0	---	5,(2-2)	O	SEA	Kyle Seager	Dominic Leone	3%	38%	Strikeout Swinging
t6	1-0	1	---	6,(3-2)	O	SEA	Danny Valencia	Dominic Leone	2%	39%	Flyball: LF (Deep LF-CF)
t6	1-0	2	---	5,(3-1)		SEA	Taylor Motter	Dominic Leone	-1%	38%	Walk
t6	1-0	2	1--	2,(0-1)	O	SEA	Guillermo Heredia	Dominic Leone	3%	41%	Popfly: SS (Weak SS)
											0 runs, 0 hits, 0 errors, 1 LOB. Mariners 1, Blue Jays 0.
Bottom of the 6th, Blue Jays Batting, Behind 0-1, Mariners' Ariel Miranda facing 3-4-5											
b6	0-1	0	---	5,(3-1)		TOR	Jose Bautista	Ariel Miranda	6%	47%	Walk
											James Pazos replaces Ariel Miranda pitching
b6	0-1	0	1--	9,(2-2)	O	TOR	Kendrys Morales	James Pazos	-6%	41%	Strikeout Swinging
b6	**0-1**	**1**	**1--**	**4,(1-2)**	**RR**	**TOR**	**Justin Smoak**	**James Pazos**	**30%**	**71%**	**Home Run (Line Drive to Deep LF-CF); Bautista Scores**
b6	2-1	1	---	5,(3-1)		TOR	Ezequiel Carrera	James Pazos	2%	74%	Walk
b6	2-1	1	1--	2,(1-1)	O	TOR	Devon Travis	James Pazos	-4%	69%	Baserunner Out Advancing; Carrera out at 2B/C-2B
b6	2-1	2	---	3,(1-1)		TOR	Devon Travis	James Pazos	2%	72%	Double to RF (Line Drive to Deep CF-RF)
b6	2-1	2	-2-	5,(1-2)	O	TOR	Ryan Goins	James Pazos	-4%	68%	Groundout: P-1B (Short 1B Line)
											2 runs, 2 hits, 0 errors, 1 LOB. Mariners 1, Blue Jays 2.
Top of the 7th, Mariners Batting, Behind 1-2, Blue Jays' Dominic Leone facing 8-9-1											
t7	**1-2**	**0**	**---**	**2,(0-1)**	**R**	**SEA**	**Jarrod Dyson**	**Dominic Leone**	**-18%**	**50%**	**Home Run (Fly Ball to Deep RF)**
t7	2-2	0	---	1,(0-0)	O	SEA	Carlos Ruiz	Dominic Leone	4%	54%	Flyball: LF
t7	2-2	1	---	6,(3-2)	O	SEA	Jean Segura	Dominic Leone	3%	57%	Strikeout Looking
											Ryan Tepera replaces Dominic Leone pitching
t7	2-2	2	---	3,(1-1)	O	SEA	Ben Gamel	Ryan Tepera	2%	59%	Flyball: LF (Deep LF)
											1 run, 1 hit, 0 errors, 0 LOB. Mariners 2, Blue Jays 2.

Bottom of the 7th, Blue Jays Batting, Tied 2-2, Mariners' Nick Vincent facing 9-1-2											
											Nick Vincent replaces James Pazos pitching
b7	2-2	0	---	2,(0-1)	O	TOR	Luke Maile	Nick Vincent	-4%	55%	Lineout: CF (CF-RF)
b7	2-2	1	---	3,(1-1)	O	TOR	Kevin Pillar	Nick Vincent	-3%	52%	Lineout: RF (Deep RF)
b7	2-2	2	---	1,(0-0)	O	TOR	Darwin Barney	Nick Vincent	-2%	50%	Groundout: 3B-1B
											0 runs, 0 hits, 0 errors, 0 LOB. Mariners 2, Blue Jays 2.
Top of the 8th, Mariners Batting, Tied 2-2, Blue Jays' Ryan Tepera facing 3-4-5											
t8	2-2	0	---	1,(0-0)	O	SEA	Nelson Cruz	Ryan Tepera	5%	55%	Groundout: SS-1B
t8	2-2	1	---	1,(0-0)	O	SEA	Kyle Seager	Ryan Tepera	4%	59%	Groundout: SS-1B
t8	2-2	2	---	5,(2-2)	O	SEA	Danny Valencia	Ryan Tepera	3%	61%	Strikeout Swinging
											0 runs, 0 hits, 0 errors, 0 LOB. Mariners 2, Blue Jays 2.
Bottom of the 8th, Blue Jays Batting, Tied 2-2, Mariners' Marc Rzepczynski facing 3-4-5											
											Marc Rzepczynski replaces Nick Vincent pitching
b8	2-2	0	---	7,(3-2)	O	TOR	Jose Bautista	Marc Rzepczynski	-5%	57%	Groundout: SS-1B
b8	2-2	1	---	3,(2-0)		TOR	Kendrys Morales	Marc Rzepczynski	5%	61%	Single to CF (Ground Ball thru SS-2B)
											Chris Coghlan pinch runs for Kendrys Morales (DH) batting 4th
b8	2-2	1	1--	6,(3-2)		TOR	Justin Smoak	Marc Rzepczynski	6%	67%	Walk; Coghlan to 2B
b8	2-2	1	12-	5,(2-2)	O	TOR	Ezequiel Carrera	Marc Rzepczynski	-8%	59%	Strikeout Looking
											Tony Zych replaces Marc Rzepczynski pitching
b8	2-2	2	12-	3,(1-1)	O	TOR	Devon Travis	Tony Zych	-9%	50%	Flyball: LF
											0 runs, 1 hit, 0 errors, 2 LOB. Mariners 2, Blue Jays 2.
Top of the 9th, Mariners Batting, Tied 2-2, Blue Jays' Ryan Tepera facing 6-7-8											
t9	2-2	0	---	4,(1-2)	O	SEA	Taylor Motter	Ryan Tepera	6%	56%	Strikeout Swinging
t9	2-2	1	---	3,(1-1)	O	SEA	Guillermo Heredia	Ryan Tepera	5%	61%	Groundout: SS-1B
t9	2-2	2	---	6,(3-2)	O	SEA	Jarrod Dyson	Ryan Tepera	4%	65%	Groundout: 3B-1B (SS-3B Hole)
											0 runs, 0 hits, 0 errors, 0 LOB. Mariners 2, Blue Jays 2.
Bottom of the 9th, Blue Jays Batting, Tied 2-2, Mariners' Edwin Diaz facing 8-9-1											
											Edwin Diaz replaces Tony Zych pitching
b9	2-2	0	---	3,(1-1)	O	TOR	Ryan Goins	Edwin Diaz	-6%	59%	Groundout: 2B-1B
b9	2-2	1	---	2,(0-1)	O	TOR	Luke Maile	Edwin Diaz	-5%	54%	Groundout: SS-1B
b9	**2-2**	**2**	**---**	**3,(1-1)**	**R**	**TOR**	**Kevin Pillar**	**Edwin Diaz**	**46%**	**100%**	**Home Run (Line Drive to Deep LF)**
											1 run, 1 hit, 0 errors, 0 LOB. Mariners 2, Blue Jays 3.

References

1. Gallucci, R. 2017. Situational Underlying Value for Baseball, Football and Basketball – A Statistic (SUV) to Measure Individual Performance in Team Sports, Lambert Academic Publishing, Saarbrücken, Germany (ISBN 978-3-330-06583-3); also: http://vixra.org/pdf/1703.0203.pdf.
2. "Baseball Reference," https://www.baseball-reference.com/.
3. "NFL Football Scores – NFL Scoreboard – ESPN," http://www.espn.com/nfl/scoreboard.
4. "NCAA Division 1 Men's Basketball Game Center," https://www.ncaa.com/game/basketball-men/d1/2018/03/15/loyola-il-miami-fl/play-by-play.