

MLB NL2009

Obs	ID	Player	TEAM	POS	G	AB	R	H	AVG
1	1	J Rollins*	PHI	SS	155	672	100	168	0.25
2	2	R Braun*	MIL	OF	158	635	113	203	0.32
3	3	M Tejada*	HOU	SS	158	635	83	199	0.313
4	4	S Victorino*	PHI	OF	156	620	102	181	0.292
5	5	R Howard*	PHI	1B	160	616	105	172	0.279
6	6	R Furcal*	LAD	SS	150	613	92	165	0.269
7	7	C Lee*	HOU	OF	160	610	65	183	0.3
8	8	R Zimmerman*	WSH	3B	157	610	110	178	0.292
9	9	M Bourn*	HOU	OF	157	606	97	173	0.285
10	10	M Kemp*	LAD	OF	159	606	97	180	0.297
11	11	F Lopez*	MIL	2B	151	604	88	187	0.31
12	12	R Theriot*	CHC	SS	154	602	81	171	0.284
13	13	A Ethier*	LAD	OF	160	596	92	162	0.272
14	14	J Francoeur*	NYM	OF	157	593	72	166	0.28
15	15	P Fielder*	MIL	1B	162	591	103	177	0.299
16	16	J Cantu*	FLA	1B	149	585	67	169	0.289
17	17	H Pence*	HOU	OF	159	585	76	165	0.282
18	18	B Phillips*	CIN	2B	153	584	78	161	0.276
19	19	P Feliz*	PHI	3B	158	580	62	154	0.266
20	20	M Reynolds*	ARI	3B	155	578	98	150	0.26
21	21	J Loney*	LAD	1B	158	576	73	162	0.281
22	22	H Ramirez*	FLA	SS	151	576	101	197	0.342
23	23	P Sandoval*	SF	3B	153	572	79	189	0.33
24	24	C Utley*	PHI	2B	156	571	112	161	0.282
25	25	J Werth*	PHI	OF	159	571	98	153	0.268
26	26	A Pujols*	STL	1B	160	568	124	186	0.327
27	27	D Uggla*	FLA	2B	158	564	84	137	0.243
28	28	C Ross*	FLA	OF	151	559	73	151	0.27
29	29	A Gonzalez*	SD	1B	160	552	90	153	0.277
30	30	O Hudson*	LAD	2B	149	551	74	156	0.283
31	31	C Barmes*	COL	2B	154	550	69	135	0.245
32	32	A Dunn*	WSH	OF	159	546	81	146	0.267
33	33	M Cameron*	MIL	OF	149	544	78	136	0.25
34	34	T Helton*	COL	1B	151	544	79	177	0.325
35	35	C Headley*	SD	OF	156	543	62	142	0.262
36	36	T Tulowitzki	COL	SS	151	543	101	161	0.297
37	37	R Winn*	SF	OF	149	538	65	141	0.262
38	38	A LaRoche*	ATL	1B	144	536	76	149	0.278
39	39	D Wright*	NYM	3B	144	535	88	164	0.307
40	40	S Drew*	ARI	SS	135	533	71	139	0.261
41	41	D Lee*	CHC	1B	141	532	91	163	0.306
42	42	S Schumaker*	STL	2B	153	532	85	161	0.303

43	43	C Guzman*	WSH	SS	135	531	74	151	0.284
44	44	K Kouzmanoff	SD	3B	141	529	50	135	0.255
45	45	Y Escobar*	ATL	SS	141	528	89	158	0.299
46	46	J Upton*	ARI	OF	138	526	84	158	0.3
47	47	A LaRoche*	PIT	3B	150	524	64	135	0.258
48	48	D Murphy*	NYM	1B	155	508	60	135	0.266
49	49	N McLouth*	ATL	OF	129	507	86	130	0.256
50	50	R Martin*	LAD	C	143	505	63	126	0.25
51	51	C Coghlan*	FLA	OF	128	504	84	162	0.321
52	52	D Eckstein*	SD	2B	136	503	64	131	0.26
53	53	B Hawpe*	COL	OF	145	501	82	143	0.285
54	54	R Ibanez*	PHI	OF	134	500	93	136	0.272
55	55	K Fukudome*	CHC	OF	146	499	79	129	0.259
56	56	A Rowand*	SF	OF	144	499	61	130	0.261
57	57	G Anderson*	ATL	OF	135	496	52	133	0.268
58	58	B Molina*	SF	C	132	491	52	130	0.265
59	59	C Jones*	ATL	3B	143	488	80	129	0.264
60	60	B McCann*	ATL	C	138	488	63	137	0.281
61	61	L Castillo*	NYM	2B	142	486	77	147	0.302
62	62	R Ludwick*	STL	OF	139	486	63	129	0.265
63	63	C Blake*	LAD	3B	139	485	84	136	0.28
64	64	Y Molina*	STL	C	140	481	45	141	0.293
65	65	A Soriano*	CHC	OF	117	477	64	115	0.241
66	66	K Matsui*	HOU	2B	132	476	56	119	0.25
67	67	C Rasmus*	STL	OF	147	474	72	119	0.251
68	68	N Morgan*	WSH	OF	120	469	74	144	0.307
69	69	J Votto*	CIN	1B	131	469	82	151	0.322
70	70	E Bonifacio*	FLA	3B	127	461	72	116	0.252
71	71	L Berkman*	HOU	1B	136	460	73	126	0.274
72	72	E Renteria*	SF	SS	124	460	50	115	0.25
73	73	N Johnson*	FLA	1B	133	457	71	133	0.291
74	74	F Sanchez*	SF	2B	111	457	56	134	0.293
75	75	G Parra*	ARI	OF	120	455	59	132	0.29
76	76	J Kendall*	MIL	C	134	452	48	109	0.241
77	77	M Prado*	ATL	2B	128	450	64	138	0.307
78	78	D Fowler*	COL	OF	135	433	73	115	0.266
79	79	A McCutchen*	PIT	OF	108	433	74	124	0.286
80	80	C Young*	ARI	OF	134	433	54	92	0.212
81	81	J Hermida*	FLA	OF	129	429	48	111	0.259
82	82	J Willingham	WSH	OF	133	427	70	111	0.26
83	83	M Montero*	ARI	C	128	425	61	125	0.294
84	84	I Stewart*	COL	3B	147	425	74	97	0.228
85	85	C Hart*	MIL	OF	115	419	64	109	0.26
86	86	J Hardy*	MIL	SS	115	414	53	95	0.229
87									

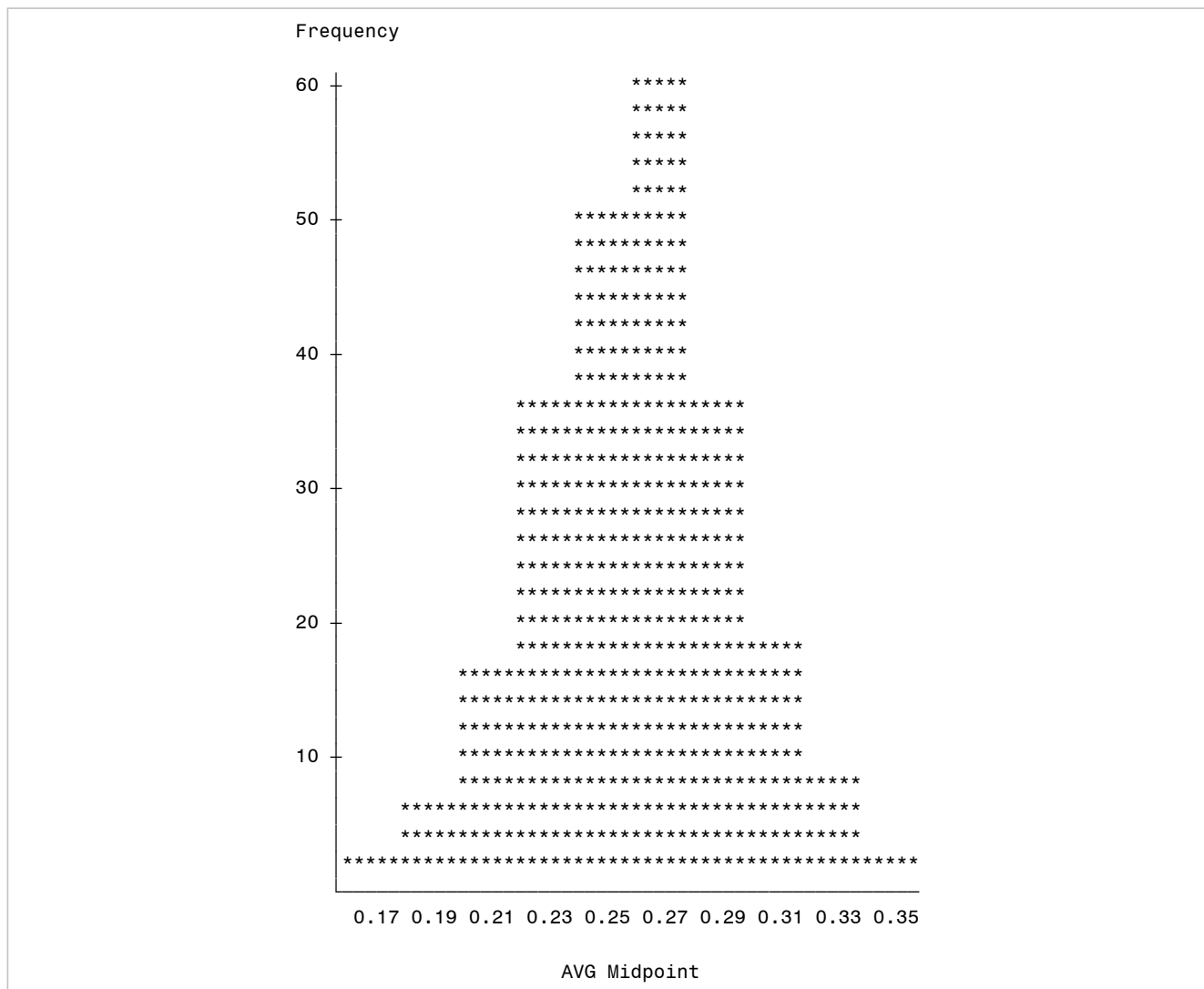
	87	C Counsell*	MIL	2B	130	404	61	115	0.285
88	88	W Taveras*	CIN	OF	102	404	56	97	0.24
89	89	J Uribe*	SF	3B	122	398	50	115	0.289
90	90	M Bradley*	CHC	OF	124	393	61	101	0.257
91	91	T Gwynn*	SD	OF	119	393	59	106	0.27
92	92	B Ryan*	STL	SS	129	390	55	114	0.292
93	93	B Moss*	PIT	OF	133	385	47	91	0.236
94	94	G Blum*	HOU	3B	120	381	34	94	0.247
95	95	J Pierre*	LAD	OF	145	380	57	117	0.308
96	96	E Cabrera*	SD	SS	103	377	59	96	0.255
97	97	M Fontenot*	CHC	2B	135	377	38	89	0.236
98	98	J Baker*	FLA	C	112	373	59	101	0.271
99	99	R Ankiel*	STL	OF	122	372	50	86	0.231
100	100	M Diaz*	ATL	OF	125	371	56	116	0.313
101	101	A Hernandez*	NYM	SS	123	366	39	92	0.251
102	102	E Dukes*	WSH	OF	107	364	38	91	0.25
103	103	R Church*	ATL	OF	111	359	46	98	0.273
104	104	C McGehee*	MIL	3B	116	355	58	107	0.301
105	105	G Atkins*	COL	3B	126	354	37	80	0.226
106	106	D Young*	PIT	2B	124	354	40	94	0.266
107	107	M Ramirez*	LAD	OF	104	352	62	102	0.29
108	108	R Spilborghs	COL	OF	133	352	55	85	0.241
109	109	J Bruce*	CIN	OF	101	345	47	77	0.223
110	110	A Pagan*	NYM	OF	88	343	54	105	0.306
111	111	F Tatis*	NYM	1B	125	340	42	96	0.282
112	112	S Smith*	COL	OF	133	335	61	98	0.293
113	113	G Soto*	CHC	C	102	331	27	72	0.218
114	114	I Rodriguez*	HOU	C	93	327	41	82	0.251
115	115	T Ishikawa*	SF	1B	120	326	49	85	0.261
116	116	W Harris*	WSH	OF	137	323	47	76	0.235
117	117	C Ruiz*	PHI	C	107	322	32	82	0.255
118	118	G Jones*	PIT	OF	82	314	45	92	0.293
119	119	L Nix*	CIN	OF	116	309	42	74	0.239
120	120	C Beltran*	NYM	OF	81	308	50	100	0.325
121	121	J Hairston*	CIN	3B	86	307	47	78	0.254
122	122	A Ramirez*	CHC	3B	82	306	46	97	0.317
123	123	J Keppinger*	HOU	3B	107	305	35	78	0.256
124	124	R Roberts*	ARI	2B	110	305	41	85	0.279
125	125	K Johnson*	ATL	2B	106	303	47	68	0.224
126	126	C Kotchman*	ATL	1B	87	298	28	84	0.282
127	127	F Lewis*	SF	OF	122	295	49	76	0.258
128	128	W Venable*	SD	OF	95	293	38	75	0.256
129	129	A Gonzalez*	WSH	2B	105	291	31	77	0.265
130	130	C Iannetta*	COL	C	93	289	41	66	0.228
131									

	131	R Hernandez*	CIN	C	81	287	25	74	0.258
132	132	N Schierholt	SF	OF	116	285	33	76	0.267
133	133	E Velez*	SF	OF	84	285	40	76	0.267
134	134	J Gomes*	CIN	OF	98	281	39	75	0.267
135	135	O Santos*	NYM	C	96	281	28	73	0.26
136	136	R Doumit*	PIT	C	75	280	31	70	0.25
137	137	C Gonzalez*	COL	OF	89	278	53	79	0.284
138	138	J Bard*	WSH	C	90	274	20	63	0.23
139	139	J Gerut*	MIL	OF	122	274	40	63	0.23
140	140	A Cora*	NYM	SS	82	271	31	68	0.251
141	141	G Sheffield*	NYM	OF	100	268	44	74	0.276
142	142	J Thurston*	STL	3B	124	267	27	60	0.225
143	143	J Wilson*	PIT	SS	75	266	26	71	0.267
144	144	R Belliard*	LAD	3B	110	264	39	73	0.277
145	145	A Ojeda*	ARI	2B	103	264	38	65	0.246
146	146	C Duncan*	STL	OF	87	260	25	59	0.227
147	147	C Tracy*	ARI	1B	98	257	29	61	0.237
148	148	N Hundley*	SD	C	78	256	23	61	0.238
149	149	P Janish*	CIN	SS	90	256	36	54	0.211
150	150	C Dickerson*	CIN	OF	97	255	31	70	0.275
151	151	K Hill*	CHC	C	83	253	26	60	0.237
152	152	R Hanigan*	CIN	C	90	251	22	66	0.263
153	153	L Milledge*	PIT	OF	65	244	21	68	0.279
154	154	A Gonzalez*	CIN	SS	68	243	16	51	0.21
155	155	E Byrnes*	ARI	OF	84	239	26	54	0.226
156	156	R Paulino*	FLA	C	80	239	24	65	0.272
157	157	M DeRosa*	STL	3B	68	237	31	54	0.228
158	158	M Holliday*	STL	OF	63	235	42	83	0.353
159	159	M Hoffpauir*	CHC	OF	105	234	28	56	0.239
160	160	R Gload*	FLA	1B	125	230	33	60	0.261
161	161	A Rosales*	CIN	3B	87	230	23	49	0.213
162	162	J Baker*	CHC	2B	81	226	27	65	0.288
163	163	B Giles	SD	OF	61	225	18	43	0.191
164	164	W Nieves*	WSH	C	72	224	20	58	0.259
165	165	J Fox*	CHC	3B	82	216	23	56	0.259
166	166	B Hall*	MIL	3B	76	214	22	43	0.201
167	167	W Helms*	FLA	3B	113	214	18	58	0.271
168	168	Y Torrealba*	COL	C	64	213	27	62	0.291
169	169	L Rodriguez*	SD	SS	93	208	18	42	0.202
170	170	J Jaramillo*	PIT	C	63	206	20	52	0.252
171	171	C Coste*	HOU	C	88	205	15	46	0.224
172	172	H Blanco*	SD	C	67	204	21	48	0.235
173	173	R Vazquez*	PIT	SS	101	204	17	47	0.23
174	174	O Infante*	ATL	2B	70	203	24	62	0.305
175									

	175	E Burriss*	SF	2B	61	202	18	48	0.238
176	176	S Hairston*	SD	OF	56	197	26	59	0.299
177	177	M Loretta	LAD	3B	107	181	19	42	0.232
178	178	D Stubbs*	CIN	OF	42	180	27	48	0.267
179	179	C Maybin*	FLA	OF	54	176	30	44	0.25
180	180	A Kearns*	WSH	OF	80	174	20	34	0.195
181	181	K Greene*	STL	SS	77	170	21	34	0.2
182	182	B Schneider*	NYM	C	59	170	11	37	0.218
183	183	J Schafer*	ATL	OF	50	167	18	34	0.204
184	184	R Johnson*	CHC	OF	65	165	23	42	0.255
185	185	S Pearce*	PIT	1B	60	165	19	34	0.206
186	186	C Snyder*	ARI	C	61	165	20	33	0.2
187	187	J Reed*	NYM	OF	126	161	9	39	0.242
188	188	A Miles*	CHC	2B	74	157	17	29	0.185
189	189	H Quintero*	HOU	C	60	157	11	37	0.236
190	190	R Cedeno*	PIT	SS	46	155	17	40	0.258
191	191	G Dobbs*	PHI	3B	97	154	15	38	0.247
192	192	E Gonzalez*	SD	2B	82	153	16	33	0.216
193	193	A Torres*	SF	OF	75	152	30	41	0.27
194	194	K Blanks*	SD	OF	54	148	24	37	0.25
195	195	J Lugo*	STL	2B	51	148	24	41	0.277
196	196	J Reyes*	NYM	SS	36	147	18	41	0.279
197	197	R Weeks*	MIL	2B	37	147	28	40	0.272
198	198	A Romero*	ARI	OF	66	145	14	36	0.248
199	199	F Catalanott	MIL	OF	77	144	18	40	0.278
200	200	B Carroll*	FLA	OF	92	141	18	33	0.234
201	201	E Encarnacio	CIN	3B	43	139	10	29	0.209
202	202	S Rolen*	CIN	3B	40	137	24	37	0.27
203	203	C Sullivan*	NYM	OF	64	136	17	34	0.25
204	204	J Michaels*	HOU	OF	102	135	17	32	0.237
205	205	D Erstad*	HOU	OF	107	134	13	26	0.194
206	206	R Diaz*	PIT	C	41	129	9	36	0.279
207	207	M Gamel*	MIL	3B	61	128	11	31	0.242
208	208	D Ross*	ATL	C	54	128	18	35	0.273
209	209	E Whiteside*	SF	C	49	127	15	29	0.228
210	210	A Escobar*	MIL	SS	38	125	20	38	0.304
211	211	B Scales*	CHC	OF	51	124	15	30	0.242
212	212	A Blanco*	CHC	2B	53	123	15	31	0.252
213	213	R Aurilia	SF	1B	60	122	10	26	0.213
214	214	P Bako*	PHI	C	44	116	12	26	0.224
215	215	R Garko*	SF	1B	40	115	10	27	0.235
216	216	E Alfonzo*	SD	C	37	114	6	20	0.175
217	217	M Rivera*	MIL	C	41	114	10	26	0.228
218	218	J Castro*	LAD	SS	57	112	18	31	0.277
219									

	219	W Balentien*	CIN	OF	40	110	12	29	0.264
220	220	T Greene*	STL	SS	48	108	9	24	0.222
221	221	O Salazar*	SD	OF	55	108	12	29	0.269
222	222	J Whitesell*	ARI	1B	46	108	7	21	0.194
223	223	E Hinske*	PIT	OF	54	106	18	27	0.255
224	224	E Bruntlett*	PHI	2B	72	105	15	18	0.171
225	225	D McDonald*	CIN	OF	47	105	12	28	0.267
226	226	B Allen*	ARI	1B	32	104	13	21	0.202
227	227	J LaRue*	STL	C	51	104	10	25	0.24
228	228	B Barden*	STL	3B	52	103	13	24	0.233
229	229	M Stairs*	PHI	OF	99	103	15	20	0.194

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The UNIVARIATE Procedure
Variable: AVG

Moments			
N	229	Sum Weights	229
Mean	0.26046725	Sum Observations	59.647
Std Deviation	0.03249609	Variance	0.001056
Skewness	-0.1055231	Kurtosis	0.01094625
Uncorrected SS	15.776857	Corrected SS	0.240767
Coeff Variation	12.4760739	Std Error Mean	0.0021474

Basic Statistical Measures			
Location		Variability	
Mean	0.260467	Std Deviation	0.03250
Median	0.261000	Variance	0.00106
Mode	0.250000	Range	0.18200
		Interquartile Range	0.04300

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	121.2941	Pr > t 	<.0001
Sign	M	114.5	Pr >= M 	<.0001
Signed Rank	S	13167.5	Pr >= S 	<.0001

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.996656	Pr < W	0.9094
Kolmogorov-Smirnov	D	0.054908	Pr > D	0.0905
Cramer-von Mises	W-Sq	0.041086	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.252239	Pr > A-Sq	>0.2500

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.353
99%	0.330
95%	0.313
90%	0.302
75% Q3	0.282
50% Median	0.261
25% Q1	0.239
10%	0.218
5%	0.202
1%	0.185
0% Min	0.171

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.171	224	0.325	120
0.175	216	0.327	26
0.185	188	0.330	23
0.191	163	0.342	22
0.194	229	0.353	158

