




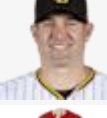
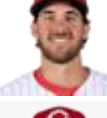






Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
1	 Williams, Devin	100	36	.090	.108	-0.018	.157	.181	-0.024	.162	.180	-0.018	0.33	1.40	-1.07
2	 Rosenthal, Trevor	91	44	.148	.131	0.017	.296	.262	0.034	.233	.216	0.017	1.90	1.97	-0.07
3	 Sims, Lucas	103	55	.146	.132	0.014	.292	.208	0.084	.253	.221	0.032	2.45	2.06	0.39
4	 Bass, Anthony	100	70	.189	.172	0.017	.300	.259	0.041	.242	.222	0.020	3.51	2.07	1.44
5	 Bauer, Trevor	278	158	.159	.163	-0.004	.302	.287	0.015	.227	.225	0.002	1.73	2.13	-0.40
6	 Karinchak, James	109	40	.159	.130	0.029	.227	.196	0.031	.233	.230	0.003	2.67	2.22	0.45
7	 Green, Chad	100	60	.144	.161	-0.017	.322	.319	0.003	.222	.231	-0.009	3.51	2.24	1.27
8	 Marshall, Evan	93	56	.198	.195	0.003	.279	.255	0.024	.241	.234	0.007	2.38	2.30	0.08
9	 Mayers, Mike	121	68	.162	.171	-0.009	.252	.298	-0.046	.219	.239	-0.020	2.10	2.40	-0.30
10	 Hendriks, Liam	92	52	.161	.213	-0.052	.218	.325	-0.107	.173	.241	-0.068	1.78	2.44	-0.66
11	 Anderson, Ian	138	81	.172	.183	-0.011	.230	.233	-0.003	.234	.242	-0.008	1.95	2.46	-0.51
12	 Iglesias, Raisel	91	54	.193	.194	-0.001	.265	.300	-0.035	.223	.243	-0.020	2.74	2.48	0.26
13	 Cole, A.J.	95	66	.226	.190	0.036	.393	.292	0.101	.290	.243	0.047	3.09	2.48	0.61
14	 Matzek, Tyler	121	66	.211	.181	0.030	.284	.272	0.012	.261	.244	0.017	2.79	2.50	0.29
15	 Bieber, Shane	297	153	.167	.182	-0.015	.265	.314	-0.049	.222	.246	-0.024	1.63	2.54	-0.91
16	 Díaz, Edwin	110	44	.191	.157	0.034	.287	.235	0.052	.276	.246	0.030	1.75	2.54	-0.79



Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
17	 Fry, Paul	98	59	.250	.180	0.070	.398	.272	0.126	.318	.246	0.072	2.45	2.54	-0.09
18	 Hernández, Jonathan	125	82	.218	.190	0.028	.327	.291	0.036	.274	.252	0.022	2.90	2.66	0.24
19	 Maton, Phil	96	54	.267	.205	0.062	.372	.270	0.102	.314	.253	0.061	4.57	2.68	1.89
20	 Wisler, Matt	107	56	.165	.146	0.019	.275	.272	0.003	.262	.254	0.008	1.07	2.70	-1.63
21	 deGrom, Jacob	268	146	.190	.193	-0.003	.323	.330	-0.007	.246	.254	-0.008	2.38	2.70	-0.32
22	 Duffey, Tyler	92	54	.153	.203	-0.050	.271	.311	-0.040	.217	.255	-0.038	1.88	2.73	-0.85
23	 Maeda, Kenta	248	158	.168	.207	-0.039	.307	.348	-0.041	.219	.255	-0.036	2.70	2.73	-0.03
24	 Soria, Joakim	96	62	.217	.201	0.016	.289	.314	-0.025	.247	.257	-0.010	2.82	2.77	0.05
25	 Pressly, Ryan	91	54	.253	.209	0.044	.410	.299	0.111	.312	.258	0.054	3.43	2.79	0.64
26	 Holland, Greg	112	71	.200	.199	0.001	.310	.322	-0.012	.254	.259	-0.005	1.91	2.81	-0.90
27	 Lamet, Dinelson	267	150	.161	.187	-0.026	.260	.317	-0.057	.225	.259	-0.034	2.09	2.81	-0.72
28	 Fried, Max	224	151	.211	.199	0.012	.332	.284	0.048	.276	.259	0.017	2.25	2.81	-0.56
29	 Jansen, Kenley	102	57	.211	.188	0.023	.311	.284	0.027	.279	.259	0.020	3.33	2.81	0.52
30	 Woodruff, Brandon	293	180	.204	.197	0.007	.341	.336	0.005	.264	.261	0.003	3.05	2.86	0.19
31	 Suter, Brent	129	85	.244	.216	0.028	.366	.341	0.025	.280	.261	0.019	3.13	2.86	0.27
32	 Wendelken, J.B.	106	63	.183	.183	0.000	.280	.316	-0.036	.245	.262	-0.017	1.80	2.88	-1.08

Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
33	 Colomé, Alex	90	64	.163	.212	-0.049	.213	.295	-0.082	.213	.264	-0.051	0.81	2.92	-2.11
34	 Antone, Tejay	141	78	.165	.168	-0.003	.314	.288	0.026	.261	.264	-0.003	2.80	2.92	-0.12
35	 Slegers, Aaron	101	75	.194	.229	-0.035	.237	.324	-0.087	.213	.264	-0.051	3.46	2.92	0.54
36	 Castillo, Luis	292	178	.233	.209	0.024	.365	.313	0.052	.290	.266	0.024	3.21	2.97	0.24
37	 Darvish, Yu	297	187	.211	.227	-0.016	.321	.345	-0.024	.249	.267	-0.018	2.01	2.99	-0.98
38	 Sánchez, Sixto	158	112	.250	.211	0.039	.333	.321	0.012	.284	.267	0.017	3.46	2.99	0.47
39	 Bundy, Dylan	267	173	.208	.214	-0.006	.343	.332	0.011	.267	.268	-0.001	3.29	3.02	0.27
40	 Javier, Cristian	214	140	.188	.186	0.002	.391	.345	0.046	.280	.268	0.012	3.48	3.02	0.46
41	 Means, John	176	123	.220	.190	0.030	.451	.376	0.075	.304	.268	0.036	4.53	3.02	1.51
42	 Giolito, Lucas	288	161	.184	.196	-0.012	.310	.321	-0.011	.257	.269	-0.012	3.48	3.04	0.44
43	 Barria, Jaime	132	95	.223	.215	0.008	.405	.334	0.071	.290	.269	0.021	3.62	3.04	0.58
44	 Kershaw, Clayton	221	150	.194	.215	-0.021	.365	.381	-0.016	.251	.270	-0.019	2.16	3.06	-0.90
45	 Rodríguez, Richard	93	52	.179	.212	-0.033	.298	.357	-0.059	.235	.270	-0.035	2.70	3.06	-0.36
46	 Cole, Gerrit	288	175	.197	.196	0.001	.405	.377	0.028	.279	.271	0.008	2.84	3.08	-0.24
47	 Hendricks, Kyle	315	242	.240	.234	0.006	.372	.378	-0.006	.269	.271	-0.002	2.88	3.08	-0.20
48	 Peralta, Freddy	125	63	.204	.179	0.025	.324	.322	0.002	.280	.271	0.009	3.99	3.08	0.91





Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
49	 Ryu, Hyun Jin	275	185	.234	.231	0.003	.352	.331	0.021	.279	.272	0.007	2.69	3.11	-0.42
50	 Burnes, Corbin	240	125	.174	.191	-0.017	.249	.322	-0.073	.239	.273	-0.034	2.11	3.13	-1.02
51	 Clippard, Tyler	98	68	.202	.210	-0.008	.309	.394	-0.085	.237	.273	-0.036	2.77	3.13	-0.36
52	 Musgrove, Joe	166	93	.226	.193	0.033	.404	.305	0.099	.308	.273	0.035	3.86	3.13	0.73
53	 Glasnow, Tyler	238	125	.200	.189	0.011	.400	.361	0.039	.289	.273	0.016	4.08	3.13	0.95
54	 Rogers, Tyler	123	86	.277	.231	0.046	.375	.307	0.068	.315	.273	0.042	4.50	3.13	1.37
55	 López, Pablo	240	161	.230	.216	0.014	.346	.337	0.009	.278	.274	0.004	3.61	3.16	0.45
56	 Zimmer, Kyle	91	54	.175	.211	-0.036	.263	.289	-0.026	.248	.275	-0.027	1.57	3.18	-1.61
57	 Hernandez, Elieser	106	65	.212	.212	0.000	.414	.366	0.048	.290	.275	0.015	3.16	3.18	-0.02
58	 Treinen, Blake	107	75	.240	.238	0.002	.313	.308	0.005	.275	.276	-0.001	3.86	3.20	0.66
59	 Heuer, Codi	92	58	.145	.215	-0.070	.205	.320	-0.115	.203	.277	-0.074	1.52	3.23	-1.71
60	 Fairbanks, Pete	117	62	.228	.197	0.031	.307	.296	0.011	.294	.278	0.016	2.70	3.25	-0.55
61	 Happ, J.A.	196	137	.208	.221	-0.013	.382	.343	0.039	.283	.278	0.005	3.47	3.25	0.22
62	 Dolis, Rafael	100	54	.193	.170	0.023	.277	.309	-0.032	.277	.279	-0.002	1.50	3.28	-1.78
63	 Lynn, Lance	344	224	.206	.208	-0.002	.386	.350	0.036	.287	.279	0.008	3.32	3.28	0.04
64	 Lorenzen, Michael	147	94	.236	.208	0.028	.362	.317	0.045	.304	.279	0.025	4.28	3.28	1.00

Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
65	 Thompson, Ryan	114	83	.274	.231	0.043	.425	.343	0.082	.324	.279	0.045	4.44	3.28	1.16
66	 Eflin, Zach	245	159	.263	.225	0.038	.447	.365	0.082	.325	.280	0.045	3.97	3.30	0.67
67	 Gonsolin, Tony	176	122	.193	.238	-0.045	.289	.377	-0.088	.226	.281	-0.055	2.31	3.33	-1.02
68	 Floro, Dylan	98	75	.250	.251	-0.001	.348	.342	0.006	.263	.281	-0.018	2.59	3.33	-0.74
69	 Fleming, Josh	130	97	.230	.228	0.002	.393	.357	0.036	.289	.281	0.008	2.78	3.33	-0.55
70	 Stammen, Craig	105	79	.278	.250	0.028	.381	.341	0.040	.308	.282	0.026	5.63	3.35	2.28
71	 Nola, Aaron	289	168	.205	.222	-0.017	.354	.354	0.000	.272	.283	-0.011	3.28	3.37	-0.09
72	 Mahle, Tyler	201	116	.198	.189	0.009	.372	.345	0.027	.290	.283	0.007	3.59	3.37	0.22
73	 Pineda, Michael	111	78	.248	.232	0.016	.307	.337	-0.030	.269	.284	-0.015	3.38	3.40	-0.02
74	 Buehler, Walker	147	93	.178	.209	-0.031	.356	.382	-0.026	.261	.284	-0.023	3.44	3.40	0.04
75	 Shreve, Chasen	102	56	.191	.205	-0.014	.371	.338	0.033	.286	.284	0.002	3.96	3.40	0.56
76	 Kikuchi, Yusei	194	127	.238	.229	0.009	.366	.321	0.045	.299	.284	0.015	5.17	3.40	1.77
77	 Kinley, Tyler	96	55	.167	.182	-0.015	.269	.307	-0.038	.263	.284	-0.021	5.32	3.40	1.92
78	 Cody, Kyle	92	61	.190	.198	-0.008	.278	.309	-0.031	.270	.285	-0.015	1.59	3.43	-1.84
79	 Plesac, Zach	206	142	.191	.229	-0.038	.347	.413	-0.066	.241	.285	-0.044	2.28	3.43	-1.15
80	 Finnegan, Kyle	107	66	.226	.217	0.009	.312	.345	-0.033	.276	.285	-0.009	2.92	3.43	-0.51


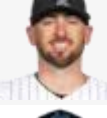
Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
81	 May, Trevor	96	51	.227	.201	0.026	.398	.395	0.003	.292	.286	0.006	3.86	3.45	0.41
82	 Melancon, Mark	95	72	.262	.248	0.014	.310	.353	-0.043	.276	.287	-0.011	2.78	3.48	-0.70
83	 Urías, Julio	224	161	.220	.218	0.002	.327	.366	-0.039	.269	.287	-0.018	3.27	3.48	-0.21
84	 Alcala, Jorge	94	59	.244	.224	0.020	.372	.361	0.011	.299	.288	0.011	2.63	3.50	-0.87
85	 Peña, Félix	115	77	.255	.235	0.020	.358	.351	0.007	.297	.288	0.009	4.05	3.50	0.55
86	 Greene, Shane	109	77	.229	.221	0.008	.333	.345	-0.012	.281	.289	-0.008	2.60	3.53	-0.93
87	 Soto, Gregory	98	54	.193	.200	-0.007	.289	.304	-0.015	.281	.289	-0.008	4.30	3.53	0.77
88	 Rogers, Trevor	130	76	.283	.218	0.065	.504	.340	0.164	.368	.289	0.079	6.11	3.53	2.58
89	 Curtiss, John	99	69	.223	.233	-0.010	.351	.401	-0.050	.267	.290	-0.023	1.80	3.55	-1.75
90	 Wheeler, Zack	288	212	.254	.248	0.006	.348	.346	0.002	.291	.290	0.001	2.92	3.55	-0.63
91	 Gausman, Kevin	245	150	.221	.229	-0.008	.389	.386	0.003	.282	.291	-0.009	3.62	3.58	0.04
92	 Trivino, Lou	93	57	.193	.199	-0.006	.325	.373	-0.048	.270	.291	-0.021	3.86	3.58	0.28
93	 Turley, Nik	92	58	.173	.207	-0.034	.293	.331	-0.038	.262	.291	-0.029	4.98	3.58	1.40
94	 Gallen, Zac	291	181	.210	.223	-0.013	.336	.365	-0.029	.274	.292	-0.018	2.75	3.60	-0.85
95	 Hudson, Dakota	151	104	.178	.221	-0.043	.319	.356	-0.037	.257	.292	-0.035	2.77	3.60	-0.83
96	 Almonte, Yency	113	81	.243	.229	0.014	.369	.380	-0.011	.293	.292	0.001	2.93	3.60	-0.67

Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
97	 Norris, Daniel	116	80	.231	.230	0.001	.361	.407	-0.046	.276	.292	-0.016	3.25	3.60	-0.35
98	 Smyly, Drew	111	60	.198	.218	-0.020	.297	.377	-0.080	.248	.293	-0.045	3.42	3.63	-0.21
99	 Stratton, Chris	131	79	.224	.221	0.003	.353	.367	-0.014	.286	.294	-0.008	3.90	3.66	0.24
100	 Rogers, Taylor	91	62	.302	.246	0.056	.465	.386	0.079	.346	.294	0.052	4.05	3.66	0.39
101	 Dunning, Dane	142	92	.197	.224	-0.027	.315	.351	-0.036	.268	.295	-0.027	3.97	3.68	0.29
102	 Andriese, Matt	126	81	.184	.220	-0.036	.360	.379	-0.019	.271	.295	-0.024	4.50	3.68	0.82
103	 McKenzie, Triston	127	75	.179	.206	-0.027	.368	.427	-0.059	.264	.296	-0.032	3.24	3.71	-0.47
104	 Scrubb, Andre	102	58	.190	.188	0.002	.241	.286	-0.045	.280	.297	-0.017	1.90	3.74	-1.84
105	 Yardley, Eric	97	67	.224	.223	0.001	.353	.356	-0.003	.293	.298	-0.005	1.54	3.76	-2.22
106	 Gonzales, Marco	277	202	.222	.241	-0.019	.361	.425	-0.064	.265	.298	-0.033	3.10	3.76	-0.66
107	 Bassitt, Chris	261	187	.233	.240	-0.007	.371	.387	-0.016	.287	.299	-0.012	2.29	3.79	-1.50
108	 Crichton, Stefan	109	73	.229	.256	-0.027	.344	.349	-0.005	.283	.299	-0.016	2.42	3.79	-1.37
109	 Carrasco, Carlos	280	169	.221	.221	0.000	.361	.366	-0.005	.292	.299	-0.007	2.91	3.79	-0.88
110	 Valdez, Framber	288	191	.240	.237	0.003	.342	.376	-0.034	.279	.299	-0.020	3.57	3.79	-0.22
111	 Castro, Miguel	115	63	.277	.222	0.055	.455	.347	0.108	.357	.299	0.058	4.01	3.79	0.22
112	 Greinke, Zack	273	196	.256	.249	0.007	.405	.421	-0.016	.293	.299	-0.006	4.03	3.79	0.24




Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
113	 Neris, Héctor	103	63	.267	.235	0.032	.311	.344	-0.033	.300	.299	0.001	4.57	3.79	0.78
114	 Staumont, Josh	112	56	.215	.196	0.019	.290	.319	-0.029	.300	.300	-0.000	2.45	3.82	-1.37
115	 Kelly, Merrill	125	90	.218	.242	-0.024	.395	.431	-0.036	.275	.300	-0.025	2.59	3.82	-1.23
116	 Suero, Wander	102	61	.227	.220	0.007	.318	.372	-0.054	.283	.300	-0.017	3.80	3.82	-0.02
117	 Howard, Sam	90	51	.221	.211	0.010	.442	.361	0.081	.329	.300	0.029	3.86	3.82	0.04
118	 Montgomery, Jordan	193	134	.265	.248	0.017	.442	.402	0.040	.319	.300	0.019	5.11	3.82	1.29
119	 Kim, Kwang Hyun	154	118	.197	.255	-0.058	.324	.381	-0.057	.251	.301	-0.050	1.62	3.85	-2.23
120	 Singer, Brady	263	177	.220	.232	-0.012	.356	.369	-0.013	.285	.301	-0.016	4.06	3.85	0.21
121	 Benjamin, Wes	98	70	.264	.236	0.028	.429	.401	0.028	.322	.301	0.021	4.84	3.85	0.99
122	 Morton, Charlie	170	114	.279	.237	0.042	.429	.381	0.048	.330	.302	0.028	4.74	3.87	0.87
123	 Dayton, Grant	117	73	.214	.212	0.002	.369	.416	-0.047	.286	.303	-0.017	2.30	3.90	-1.60
124	 Givens, Mychal	93	56	.200	.196	0.004	.450	.394	0.056	.320	.303	0.017	3.63	3.90	-0.27
125	 Bard, Daniel	106	66	.237	.229	0.008	.344	.369	-0.025	.296	.303	-0.007	3.65	3.90	-0.25
126	 Gray, Sonny	235	135	.203	.235	-0.032	.309	.344	-0.035	.275	.303	-0.028	3.70	3.90	-0.20
127	 Dobnak, Randy	200	154	.278	.256	0.022	.367	.370	-0.003	.310	.303	0.007	4.05	3.90	0.15
128	 Cessa, Luis	93	68	.235	.243	-0.008	.400	.402	-0.002	.296	.304	-0.008	3.32	3.93	-0.61



Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
129	 Manaea, Sean	222	168	.270	.264	0.006	.427	.412	0.015	.309	.304	0.005	4.50	3.93	0.57
130	 Yarbrough, Ryan	234	171	.256	.252	0.004	.374	.388	-0.014	.301	.305	-0.004	3.56	3.96	-0.40
131	 Loup, Aaron	96	66	.200	.243	-0.043	.376	.418	-0.042	.270	.307	-0.037	2.52	4.01	-1.49
132	 Tanaka, Masahiro	197	143	.257	.243	0.014	.455	.435	0.020	.319	.307	0.012	3.56	4.01	-0.45
133	 Snell, Blake	203	122	.228	.233	-0.005	.429	.409	0.020	.312	.308	0.004	3.24	4.04	-0.80
134	 Gomber, Austin	119	75	.190	.235	-0.045	.260	.329	-0.069	.262	.309	-0.047	1.86	4.07	-2.21
135	 Alcantara, Sandy	172	117	.226	.243	-0.017	.355	.386	-0.031	.288	.309	-0.021	3.00	4.07	-1.07
136	 Lindblom, Josh	191	120	.244	.245	-0.001	.413	.380	0.033	.319	.309	0.010	5.16	4.07	1.09
137	 Quantrill, Cal	135	92	.254	.247	0.007	.385	.413	-0.028	.303	.311	-0.008	2.25	4.13	-1.88
138	 Sheffield, Justus	232	161	.251	.257	-0.006	.304	.367	-0.063	.285	.312	-0.027	3.58	4.16	-0.58
139	 Eovaldi, Nathan	199	136	.273	.253	0.020	.476	.428	0.048	.336	.312	0.024	3.72	4.16	-0.44
140	 Brasier, Ryan	110	69	.245	.248	-0.003	.378	.399	-0.021	.301	.313	-0.012	3.96	4.19	-0.23
141	 Barlow, Scott	125	75	.239	.247	-0.008	.389	.424	-0.035	.295	.313	-0.018	4.20	4.19	0.01
142	 Garcia, Bryan	93	70	.222	.265	-0.043	.247	.346	-0.099	.261	.314	-0.053	1.66	4.21	-2.55
143	 May, Dustin	224	163	.220	.254	-0.034	.371	.409	-0.038	.282	.314	-0.032	2.57	4.21	-1.64
144	 Ramirez, Yohan	94	44	.130	.149	-0.019	.275	.279	-0.004	.299	.314	-0.015	2.61	4.21	-1.60

Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
145	 Márquez, Germán	344	246	.247	.258	-0.011	.373	.392	-0.019	.292	.314	-0.022	3.75	4.21	-0.46
146	 Cisnero, José	123	76	.209	.235	-0.026	.291	.396	-0.105	.266	.315	-0.049	3.03	4.24	-1.21
147	 Paxton, James	90	56	.284	.228	0.056	.531	.442	0.089	.368	.315	0.053	6.64	4.24	2.40
148	 Cahill, Trevor	106	59	.184	.216	-0.032	.333	.375	-0.042	.286	.316	-0.030	3.24	4.27	-1.03
149	 Valdez, Phillips	137	88	.282	.244	0.038	.410	.348	0.062	.349	.316	0.033	3.26	4.27	-1.01
150	 Canning, Griffin	238	158	.257	.229	0.028	.443	.416	0.027	.330	.316	0.014	3.99	4.27	-0.28
151	 Luzardo, Jesús	248	169	.257	.254	0.003	.429	.410	0.019	.320	.316	0.004	4.12	4.27	-0.15
152	 Howard, Spencer	113	79	.300	.243	0.057	.530	.409	0.121	.376	.316	0.060	5.92	4.27	1.65
153	 Keuchel, Dallas	257	198	.218	.277	-0.059	.286	.392	-0.106	.249	.317	-0.068	1.99	4.30	-2.31
154	 Peralta, Wandy	114	76	.220	.240	-0.020	.350	.374	-0.024	.291	.317	-0.026	3.29	4.30	-1.01
155	 Brault, Steven	178	113	.195	.227	-0.032	.248	.352	-0.104	.267	.317	-0.050	3.38	4.30	-0.92
156	 Hudson, Daniel	92	50	.195	.185	0.010	.468	.411	0.057	.338	.317	0.021	6.10	4.30	1.80
157	 Guerra, Junior	103	65	.205	.230	-0.025	.301	.347	-0.046	.287	.318	-0.031	3.04	4.33	-1.29
158	 Scherzer, Max	295	179	.260	.249	0.011	.424	.427	-0.003	.319	.318	0.001	3.74	4.33	-0.59
159	 Minor, Mike	239	156	.230	.235	-0.005	.415	.436	-0.021	.307	.318	-0.011	5.56	4.33	1.23
160	 Peterson, David	205	138	.202	.229	-0.027	.337	.386	-0.049	.290	.319	-0.029	3.44	4.36	-0.92

Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
161	 Loaisiga, Jonathan	100	66	.241	.251	-0.010	.414	.402	0.012	.317	.319	-0.002	3.52	4.36	-0.84
162	 Margevicius, Nick	170	120	.244	.251	-0.007	.436	.435	0.001	.314	.319	-0.005	4.57	4.36	0.21
163	 Velasquez, Vince	154	88	.269	.232	0.037	.440	.390	0.050	.349	.319	0.030	5.56	4.36	1.20
164	 Heaney, Andrew	279	188	.246	.250	-0.004	.414	.445	-0.031	.306	.320	-0.014	4.46	4.39	0.07
165	 Waguespack, Jacob	90	63	.346	.252	0.094	.474	.367	0.107	.391	.320	0.071	8.15	4.39	3.76
166	 Keller, Brad	215	161	.202	.269	-0.067	.244	.395	-0.151	.236	.321	-0.085	2.47	4.42	-1.95
167	 Akin, Keegan	116	70	.262	.245	0.017	.427	.413	0.014	.325	.321	0.004	4.56	4.42	0.14
168	 Civale, Aaron	312	224	.282	.264	0.018	.474	.434	0.040	.339	.321	0.018	4.74	4.42	0.32
169	 Brubaker, JT	205	137	.262	.241	0.021	.426	.404	0.022	.328	.321	0.007	4.94	4.42	0.52
170	 Familia, Jeurys	120	75	.204	.225	-0.021	.337	.350	-0.013	.308	.322	-0.014	3.71	4.45	-0.74
171	 Berríos, José	271	174	.238	.248	-0.010	.383	.399	-0.016	.307	.322	-0.015	4.00	4.45	-0.45
172	 Skubal, Tarik	134	84	.235	.222	0.013	.496	.461	0.035	.337	.323	0.014	5.63	4.49	1.14
173	 LeBlanc, Wade	103	81	.293	.256	0.037	.533	.416	0.117	.370	.323	0.047	8.06	4.49	3.57
174	 Wainwright, Adam	262	191	.221	.265	-0.044	.369	.436	-0.067	.277	.324	-0.047	3.15	4.52	-1.37
175	 Foster, Matt	109	69	.162	.242	-0.080	.273	.450	-0.177	.226	.325	-0.099	2.20	4.55	-2.35
176	 Kintzler, Brandon	101	76	.236	.258	-0.022	.393	.425	-0.032	.298	.325	-0.027	2.22	4.55	-2.33

Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
177	 Tomlin, Josh	163	118	.263	.263	0.000	.434	.472	-0.038	.310	.325	-0.015	4.76	4.55	0.21
178	 Buttrey, Ty	112	84	.283	.270	0.013	.495	.450	0.045	.344	.325	0.019	5.81	4.55	1.26
179	 Richards, Garrett	213	148	.244	.247	-0.003	.415	.444	-0.029	.313	.326	-0.013	4.03	4.58	-0.55
180	 Hughes, Jared	109	69	.256	.227	0.029	.422	.368	0.054	.353	.326	0.027	4.84	4.58	0.26
181	 Duffy, Danny	242	161	.249	.245	0.004	.437	.436	0.001	.324	.326	-0.002	4.95	4.58	0.37
182	 Sulser, Cole	100	64	.210	.219	-0.009	.358	.372	-0.014	.314	.326	-0.012	5.56	4.58	0.98
183	 Montas, Frankie	237	153	.270	.247	0.023	.464	.429	0.035	.346	.326	0.020	5.60	4.58	1.02
184	 Wacha, Michael	156	110	.313	.259	0.054	.599	.457	0.142	.398	.326	0.072	6.62	4.58	2.04
185	 Jackson, Luke	132	97	.345	.275	0.070	.442	.367	0.075	.371	.326	0.045	6.84	4.58	2.26
186	 McCullers Jr., Lance	227	146	.220	.244	-0.024	.405	.409	-0.004	.308	.327	-0.019	3.93	4.61	-0.68
187	 Senzatela, Antonio	303	240	.254	.273	-0.019	.409	.429	-0.020	.309	.328	-0.019	3.44	4.64	-1.20
188	 García, Deivi	146	106	.254	.273	-0.019	.420	.456	-0.036	.305	.328	-0.023	4.98	4.64	0.34
189	 Newberry, Jake	94	56	.256	.236	0.020	.410	.397	0.013	.339	.329	0.010	4.09	4.67	-0.58
190	 Weaver, Luke	236	162	.292	.252	0.040	.523	.462	0.061	.368	.329	0.039	6.58	4.67	1.91
191	 Clevinger, Mike	162	107	.231	.264	-0.033	.415	.436	-0.021	.306	.330	-0.024	3.02	4.70	-1.68
192	 Anderson, Brett	202	156	.270	.272	-0.002	.454	.443	0.011	.328	.330	-0.002	4.21	4.70	-0.49

Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
193	 Pérez, Martín	262	185	.240	.247	-0.007	.415	.417	-0.002	.325	.330	-0.005	4.50	4.70	-0.20
194	 Lugo, Seth	160	101	.274	.265	0.009	.500	.451	0.049	.346	.331	0.015	5.15	4.74	0.41
195	 Houser, Adrian	246	177	.285	.269	0.016	.457	.412	0.045	.353	.331	0.022	5.30	4.74	0.56
196	 King, Michael	121	82	.278	.249	0.029	.491	.425	0.066	.363	.331	0.032	7.76	4.74	3.02
197	 Cabrera, Génesis	96	44	.132	.186	-0.054	.276	.373	-0.097	.280	.332	-0.052	2.42	4.77	-2.35
198	 Wittgren, Nick	98	59	.209	.241	-0.032	.407	.464	-0.057	.300	.332	-0.032	3.42	4.77	-1.35
199	 Clarke, Taylor	183	122	.217	.240	-0.023	.422	.456	-0.034	.310	.332	-0.022	4.36	4.77	-0.41
200	 Milone, Tommy	181	133	.324	.271	0.053	.600	.483	0.117	.395	.332	0.063	6.69	4.77	1.92
201	 Smith, Josh A.	121	91	.314	.263	0.051	.495	.420	0.075	.364	.332	0.032	6.84	4.77	2.07
202	 Yamaguchi, Shun	120	75	.283	.229	0.054	.556	.409	0.147	.398	.332	0.066	8.06	4.77	3.29
203	 Hatch, Thomas	109	71	.191	.240	-0.049	.298	.404	-0.106	.275	.333	-0.058	2.73	4.80	-2.07
204	 Fiers, Mike	257	200	.275	.260	0.015	.436	.446	-0.010	.332	.333	-0.001	4.58	4.80	-0.22
205	 Cueto, Johnny	277	192	.248	.259	-0.011	.423	.414	0.009	.324	.333	-0.009	5.40	4.80	0.60
206	 Richards, Trevor	150	112	.321	.274	0.047	.511	.449	0.062	.375	.333	0.042	5.91	4.80	1.11
207	 Allard, Kolby	152	99	.238	.237	0.001	.392	.410	-0.018	.324	.333	-0.009	7.75	4.80	2.95
208	 Anderson, Tyler	260	190	.256	.263	-0.007	.410	.419	-0.009	.325	.334	-0.009	4.37	4.83	-0.46














Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
209	 Harper, Ryne	110	75	.290	.264	0.026	.510	.452	0.058	.363	.334	0.029	7.61	4.83	2.78
210	 Alexander, Tyler	152	105	.283	.258	0.025	.507	.458	0.049	.361	.335	0.026	3.96	4.87	-0.91
211	 Plutko, Adam	116	93	.280	.268	0.012	.495	.464	0.031	.352	.335	0.017	4.88	4.87	0.01
212	 Ponce de Leon, Daniel	143	76	.190	.223	-0.033	.430	.424	0.006	.323	.335	-0.012	4.96	4.87	0.09
213	 Holder, Jonathan	101	76	.281	.250	0.031	.449	.450	-0.001	.345	.335	0.010	4.98	4.87	0.11
214	 Walker, Taijuan	225	152	.214	.254	-0.040	.368	.453	-0.085	.291	.340	-0.049	2.70	5.03	-2.33
215	 Hartlieb, Geoff	101	60	.205	.224	-0.019	.282	.316	-0.034	.314	.340	-0.026	3.63	5.03	-1.40
216	 Flaherty, Jack	170	102	.221	.262	-0.041	.369	.432	-0.063	.299	.341	-0.042	4.91	5.07	-0.16
217	 Williams, Trevor	252	178	.296	.262	0.034	.543	.445	0.098	.382	.341	0.041	6.18	5.07	1.11
218	 Hill, Rich	156	107	.204	.257	-0.053	.307	.447	-0.140	.272	.342	-0.070	3.03	5.10	-2.07
219	 Barnes, Matt	102	55	.214	.236	-0.022	.369	.432	-0.063	.312	.342	-0.030	4.30	5.10	-0.80
220	 Mills, Alec	252	185	.230	.264	-0.034	.448	.462	-0.014	.316	.342	-0.026	4.48	5.10	-0.62
221	 Shoemaker, Matt	115	80	.210	.248	-0.038	.467	.492	-0.025	.312	.342	-0.030	4.71	5.10	-0.39
222	 Davies, Zach	276	194	.216	.268	-0.052	.361	.474	-0.113	.273	.343	-0.070	2.73	5.13	-2.40
223	 Freeland, Kyle	304	232	.278	.284	-0.006	.433	.436	-0.003	.335	.343	-0.008	4.33	5.13	-0.80
224	 Corbin, Patrick	295	217	.308	.289	0.019	.489	.470	0.019	.357	.344	0.013	4.66	5.17	-0.51









Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
225	 Paddock, Chris	245	173	.262	.275	-0.013	.515	.487	0.028	.342	.344	-0.002	4.73	5.17	-0.44
226	 Urquidy, José	116	90	.206	.279	-0.073	.327	.459	-0.132	.263	.345	-0.082	2.73	5.20	-2.47
227	 Springs, Jeffrey	99	63	.333	.270	0.063	.589	.491	0.098	.405	.345	0.060	7.08	5.20	1.88
228	 Lakins Sr., Travis	116	76	.250	.268	-0.018	.380	.424	-0.044	.321	.346	-0.025	2.81	5.24	-2.43
229	 Webb, Logan	246	169	.288	.282	0.006	.429	.415	0.014	.350	.346	0.004	5.47	5.24	0.23
230	 Porcello, Rick	261	190	.303	.290	0.013	.434	.463	-0.029	.340	.346	-0.006	5.64	5.24	0.40
231	 Castano, Daniel	126	103	.263	.288	-0.025	.404	.452	-0.048	.317	.347	-0.030	3.03	5.27	-2.24
232	 Boyd, Matthew	271	184	.278	.258	0.020	.552	.479	0.073	.378	.347	0.031	6.71	5.27	1.44
233	 Cordero, Jimmy	124	90	.300	.291	0.009	.418	.428	-0.010	.338	.348	-0.010	6.08	5.31	0.77
234	 Hunter, Tommy	102	68	.239	.293	-0.054	.391	.444	-0.053	.305	.349	-0.044	4.01	5.34	-1.33
235	 Bubic, Kris	222	149	.263	.272	-0.009	.434	.453	-0.019	.336	.349	-0.013	4.32	5.34	-1.02
236	 Sandoval, Patrick	159	114	.252	.271	-0.019	.510	.484	0.026	.345	.349	-0.004	5.65	5.34	0.31
237	 Lyles, Jordan	266	205	.285	.270	0.015	.494	.463	0.031	.356	.349	0.007	7.02	5.34	1.68
238	 Weber, Ryan	185	141	.265	.280	-0.015	.476	.462	0.014	.345	.350	-0.005	4.40	5.38	-0.98
239	 Fedde, Erick	222	169	.241	.274	-0.033	.441	.460	-0.019	.328	.351	-0.023	4.29	5.41	-1.12
240	 González, Gio	153	97	.305	.273	0.032	.473	.424	0.049	.379	.351	0.028	4.83	5.41	-0.58



Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
241	 Junis, Jakob	114	87	.333	.285	0.048	.581	.503	0.078	.401	.351	0.050	6.39	5.41	0.98
242	 Erlin, Robbie	122	88	.295	.258	0.037	.643	.532	0.111	.403	.351	0.052	8.10	5.41	2.69
243	 Kay, Anthony	98	62	.268	.261	0.007	.500	.455	0.045	.364	.352	0.012	5.14	5.45	-0.31
244	 Turnbull, Spencer	242	160	.226	.275	-0.049	.337	.430	-0.093	.296	.353	-0.057	3.97	5.48	-1.51
245	 Arrieta, Jake	190	141	.298	.286	0.012	.456	.448	0.008	.351	.353	-0.002	5.08	5.48	-0.40
246	 Ureña, José	104	74	.247	.246	0.001	.427	.456	-0.029	.344	.353	-0.009	5.40	5.48	-0.08
247	 Sánchez, Aníbal	245	181	.313	.284	0.029	.536	.481	0.055	.383	.353	0.030	6.62	5.48	1.14
248	 Zuber, Tyler	99	48	.197	.217	-0.020	.368	.415	-0.047	.330	.354	-0.024	4.09	5.52	-1.43
249	 Voth, Austin	225	159	.281	.264	0.017	.571	.503	0.068	.385	.354	0.031	6.34	5.52	0.82
250	 Wojciechowski, Asher	168	120	.308	.265	0.043	.596	.493	0.103	.394	.354	0.040	6.81	5.52	1.29
251	 Ynoa, Huascar	100	68	.277	.274	0.003	.422	.422	0.000	.348	.355	-0.007	5.82	5.56	0.26
252	 López, Jorge	174	131	.297	.274	0.023	.465	.489	-0.024	.348	.356	-0.008	6.69	5.59	1.10
253	 Rondón, Héctor	97	62	.298	.262	0.036	.631	.486	0.145	.412	.356	0.056	7.65	5.59	2.06
254	 McFarland, T.J.	92	77	.302	.290	0.012	.547	.497	0.050	.378	.359	0.019	4.35	5.70	-1.35
255	 Gibson, Kyle	301	207	.275	.284	-0.009	.460	.452	0.008	.356	.359	-0.003	5.35	5.70	-0.35
256	 Paredes, Enoli	90	58	.237	.286	-0.049	.329	.410	-0.081	.301	.360	-0.059	3.05	5.74	-2.69

Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
257	 Cishek, Steve	93	59	.269	.254	0.015	.487	.446	0.041	.365	.360	0.005	5.40	5.74	-0.34
258	 Gray, Jon	174	139	.281	.297	-0.016	.481	.496	-0.015	.347	.361	-0.014	6.69	5.78	0.91
259	 Martínez, Carlos	104	76	.352	.295	0.057	.637	.506	0.131	.424	.362	0.062	9.90	5.82	4.08
260	 Lester, Jon	265	203	.262	.279	-0.017	.459	.518	-0.059	.333	.363	-0.030	5.16	5.85	-0.69
261	 González, Chi Chi	91	62	.289	.295	-0.006	.500	.475	0.025	.381	.367	0.014	6.86	6.01	0.85
262	 Mazza, Chris	136	90	.288	.294	-0.006	.415	.460	-0.045	.348	.368	-0.020	4.80	6.05	-1.25
263	 Hoffman, Jeff	104	73	.352	.300	0.052	.571	.499	0.072	.412	.368	0.044	9.28	6.05	3.23
264	 Dunn, Justin	198	127	.189	.243	-0.054	.409	.478	-0.069	.319	.369	-0.050	4.34	6.09	-1.75
265	 Nelson, Nick	90	61	.256	.285	-0.029	.436	.478	-0.042	.338	.369	-0.031	4.79	6.09	-1.30
266	 López, Reynaldo	121	81	.269	.253	0.016	.577	.515	0.062	.396	.369	0.027	6.49	6.09	0.40
267	 Estévez, Carlos	116	77	.317	.288	0.029	.615	.496	0.119	.420	.370	0.050	7.50	6.13	1.37
268	 Eshelman, Thomas	143	117	.260	.297	-0.037	.504	.535	-0.031	.340	.371	-0.031	3.89	6.17	-2.28
269	 Jiménez, Joe	101	68	.284	.272	0.012	.580	.512	0.068	.390	.372	0.018	7.15	6.20	0.95
270	 Vincent, Nick	92	68	.271	.288	-0.017	.518	.538	-0.020	.357	.373	-0.016	4.43	6.24	-1.81
271	 Cobb, Alex	226	168	.252	.306	-0.054	.417	.502	-0.085	.320	.376	-0.056	4.30	6.37	-2.07
272	 Young, Alex	204	150	.277	.290	-0.013	.549	.551	-0.002	.361	.376	-0.015	5.44	6.37	-0.93

Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
273	 Anderson, Chase	154	105	.315	.289	0.026	.622	.556	0.066	.412	.378	0.034	7.22	6.45	0.77
274	 Stripling, Ross	220	161	.281	.292	-0.011	.538	.538	0.000	.373	.379	-0.006	5.84	6.49	-0.65
275	 Ray, Robbie	251	137	.261	.254	0.007	.522	.488	0.034	.390	.379	0.011	6.62	6.49	0.13
276	 Holland, Derek	179	116	.261	.274	-0.013	.540	.553	-0.013	.369	.379	-0.010	6.86	6.49	0.37
277	 DeSclafani, Anthony	158	114	.301	.287	0.014	.529	.512	0.017	.384	.379	0.005	7.22	6.49	0.73
278	 Roark, Tanner	220	154	.309	.279	0.030	.613	.542	0.071	.417	.380	0.037	6.80	6.53	0.27
279	 Kuhl, Chad	197	122	.212	.272	-0.060	.394	.509	-0.115	.321	.382	-0.061	4.27	6.61	-2.34
280	 Cease, Dylan	255	171	.234	.278	-0.044	.477	.511	-0.034	.353	.383	-0.030	4.01	6.66	-2.65
281	 Workman, Brandon	101	65	.352	.289	0.063	.568	.527	0.041	.423	.383	0.040	5.95	6.66	-0.71
282	 Godley, Zack	143	98	.336	.287	0.049	.624	.525	0.099	.434	.383	0.051	8.16	6.66	1.50
283	 Wright, Kyle	168	114	.243	.283	-0.040	.431	.512	-0.081	.340	.386	-0.046	5.21	6.78	-1.57
284	 Toussaint, Touki	120	69	.276	.261	0.015	.551	.510	0.041	.407	.387	0.020	8.88	6.83	2.05
285	 Matz, Steven	142	96	.323	.302	0.021	.700	.573	0.127	.439	.388	0.051	9.68	6.87	2.81
286	 Oviedo, Johan	112	81	.253	.304	-0.051	.432	.534	-0.102	.338	.392	-0.054	5.47	7.05	-1.58
287	 Bielak, Brandon	148	103	.305	.291	0.014	.578	.536	0.042	.411	.394	0.017	6.75	7.13	-0.38
288	 Mize, Casey	133	89	.252	.294	-0.042	.478	.549	-0.071	.359	.402	-0.043	6.99	7.50	-0.51

Rk.	Player	PA	BIP	BA	xBA	Diff	SLG	xSLG	Diff	wOBA	xwOBA	Diff	ERA	xERA	Diff
289	 García, Rony	96	73	.287	.310	-0.023	.586	.575	0.011	.394	.403	-0.009	8.14	7.55	0.59
290	 Castellani, Ryan	189	133	.236	.292	-0.056	.522	.540	-0.018	.374	.405	-0.031	5.82	7.64	-1.82
291	 Bumgarner, Madison	190	141	.276	.302	-0.026	.576	.608	-0.032	.383	.408	-0.025	6.48	7.79	-1.31
292	 Brewer, Colten	122	82	.290	.312	-0.022	.523	.556	-0.033	.385	.409	-0.024	5.61	7.84	-2.23
293	 Fulmer, Michael	136	103	.375	.338	0.037	.617	.573	0.044	.440	.412	0.028	8.78	7.98	0.80
294	 Hembree, Heath	90	60	.329	.286	0.043	.759	.664	0.095	.470	.426	0.044	9.00	8.70	0.30
295	 Teheran, Julio	149	111	.305	.317	-0.012	.641	.623	0.018	.421	.426	-0.005	10.05	8.70	1.35
296	 Díaz, Jairo	106	72	.365	.338	0.027	.612	.594	0.018	.449	.442	0.007	7.65	9.59	-1.94