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9:38 PM

[\(gamefeed?gamePk=661367\)](#)[\(gamefeed?gamePk=662324\)](#)[\(preview?game_pk=663375&game_date=2022-8-](#)



Harrison Bader

CF | B/T: R/R | 6' 0" 210LBS | Age: 28

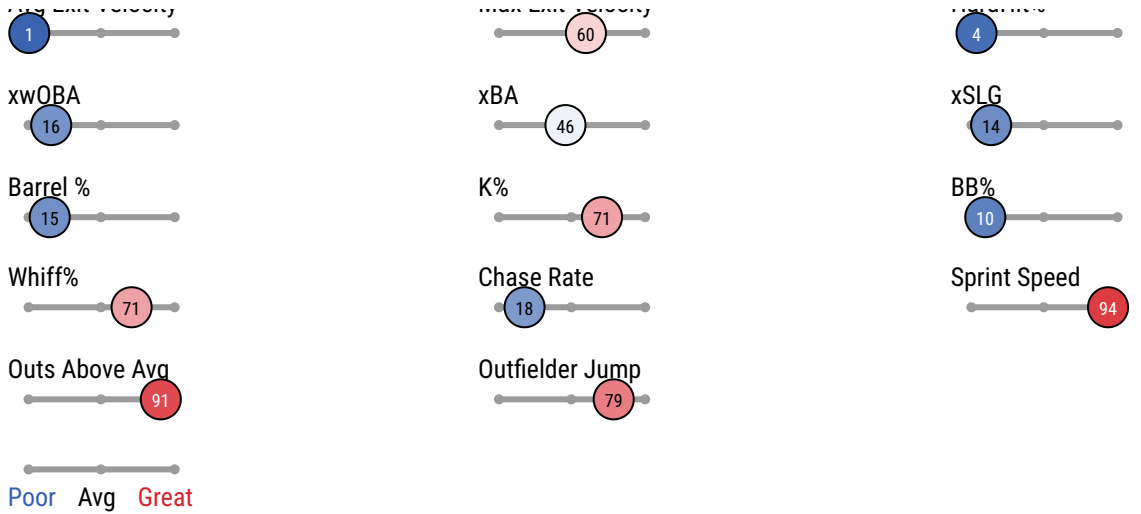
Draft: 2015 (draft?year=2015) | Rd: 3, #100, St. Louis Cardinals (draft?team_id=&year=2015) | Florida

Player Apps

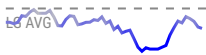
[Pitch Highlighter \(/visuals/statcast-pitch-highlighter?playerId=664056&batHand=&pitchHand=&pitchType=&year=2022&zone=\)](#) | [Player Similarity \(/affinity-pitchersAndHitters-byHittingProfile#players=hitters&player=664056-R&s=0.7\)](#) | [Shifts \(/visuals/batter-positioning?playerId=664056&teamId=&opponent=&firstBase=0&shift=1&season=2022&attempts=25&batSide=R&gb=1&fb=0\)](#) | [Swing Take Profile \(/visuals/swing-take?playerId=664056&playerSet=hitters&year=2022\)](#) | [illustrator \(/illustrator?playerId=664056&playerType=batter&name=HarrisonBader&tabSelection=0&shape=square&shapeName=Square%20\(Instagram\)&subTitle=&chartType=zoneChart-totalPitches&chartName=Zone%20-%20Total%20Pitches&pitcherThrows=&batterStands=&plateAppearanceResults= \[\]&pitchTypes= \[\]&pitchResults= \[\]&facingPlayer= \[\]&balls= \[\]&years=\[2022\]&strikes= \[\]&outs= \[\]&selectedGames= \[\]&homeTeam= \[\]&awayTeam= \[\]&vsTeam= \[\]&exitVelocityGT=0&exitVelocityLT=125&pitchVelocityGT=0&pitchVelocityLT=105&launchAngleGT=-90&launchAngleLT=90\)](#) | [Zone Swing Profile \(/visuals/profile?pitch_type=&batter=&pitcher=&balls=&strikes=&year=2022&min_strikes=0&bucket_size=.5&chart_type=swings&player_id=664056&position=8&player_name=HarrisonBader\)](#) | [Player Comparison \(/player-comparison?playerIds=664056&seasons=2022&pitchSpeedGT=49&pitchSpeedLT=106&launchSpeedGT=29&launchSpeedLT=126&ddlChartType=contour&ddlPitcherThrows=&ddlBatterStar\)](#) | [Transaction History \(/visuals/transactions?bam_id=664056\)](#)

Show Random Video

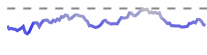
2022 MLB Percentile Rankings



xwOBA



Past 50 PA

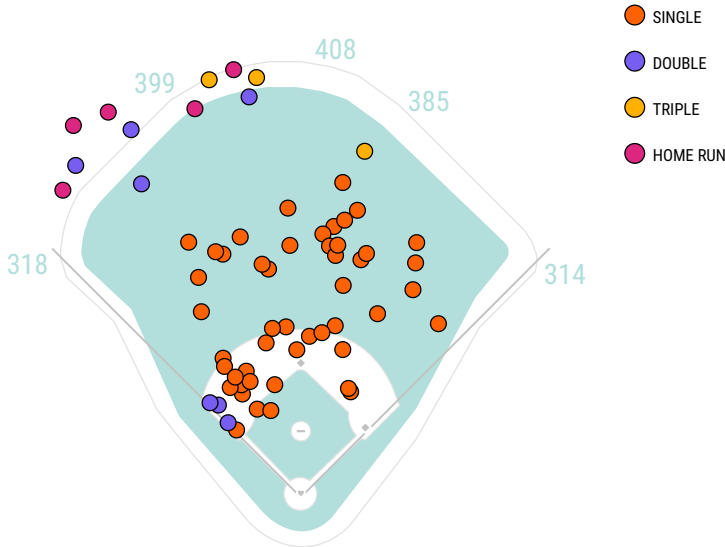


Past 100 PA



Past 250 PA

2022 Hits Spray Chart



Stats

	AVG	HR	RBI	SB	OPS
2022	.256	5	21	15	.673

	AVG	HR	RBI	SB	OPS
6 Seasons	.246	52	168	55	.729

STATCAST (/SAVANT-PLAYER/HARRISON-BADER-664056#STATCAST)	STANDARD (/SAVANT-PLAYER/HARRISON-BADER-664056#STANDARD)
SPLITS (/SAVANT-PLAYER/HARRISON-BADER-664056#SPLITS)	GAME LOGS (/SAVANT-PLAYER/HARRISON-BADER-664056#GAMELOGS)

BATTING

FIELDING

RUNNING

BREAKDOWNS

ZONES

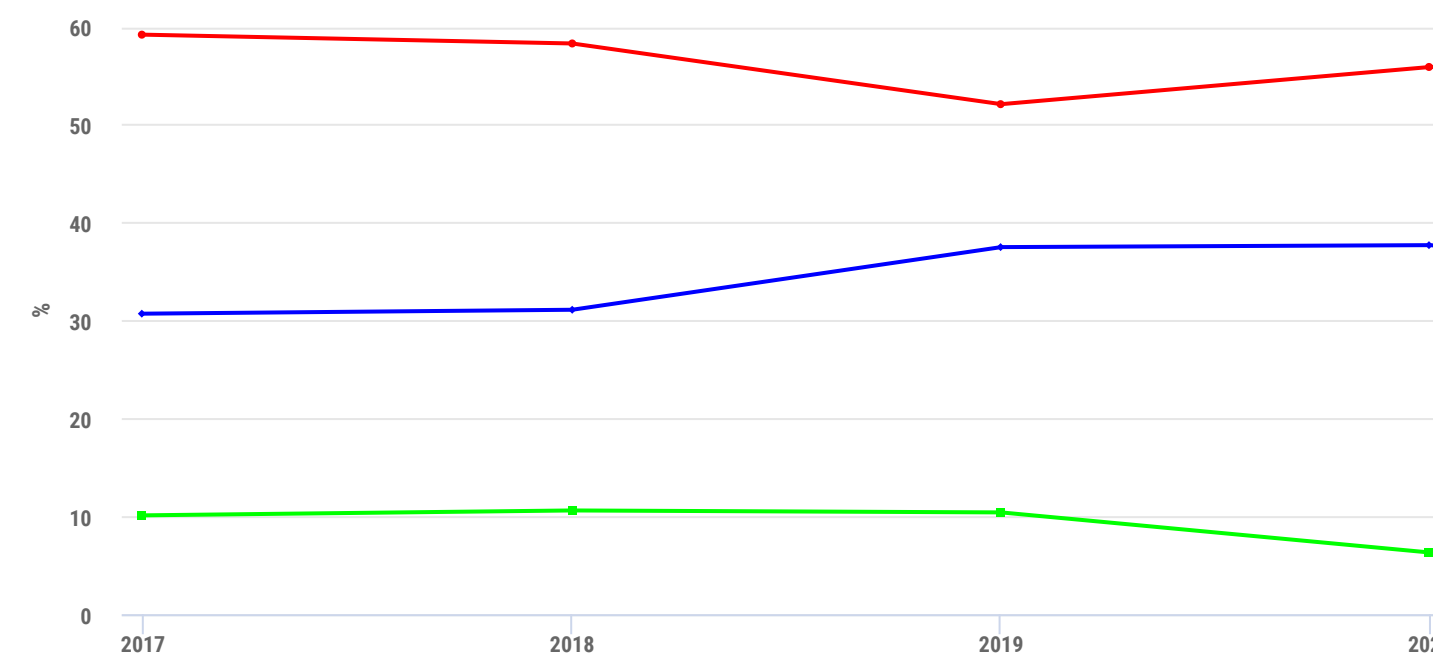
Statcast Batting Statistics

Season	Age	Pitches	Batted Balls	Barrels	Barrel %	Barrel/PA	Exit Velocity	Max EV	Launch Angle	Sweet Spot %	XBA	XSLG	WOBA	XWC
2017	23	366	62	6	9.7	6.5	86.3	108.5	8.6	27.4	.242	.429	.279	
2018	24	1772	260	18	6.9	4.2	87.1	113.6	13.7	34.6	.225	.358	.326	
2019	25	1735	233	23	9.9	5.7	88.4	111.2	15.3	31.3	.213	.405	.293	
2020	26	522	67	8	11.9	6.4	86.0	107.9	15.7	35.8	.199	.422	.337	
2021	27	1586	284	20	7	5	86.2	111.5	13.3	27.1	.232	.394	.331	
2022	28	1011	200	8	4	3	83.5	109.6	17.3	28.5	.246	.342	.296	
Player		6992	1106	83	7.5	4.8	86.4	113.6	14.4	30.6	.226	.383	.313	
MLB					6.7	4.6	88.4	122.2	12.1	33.0	.245	.406	.316	

! Note: All figures in this table cover the period 2015-present.

Harrison Bader Pitch % by Se

Source: baseballsavant.mlb.com



Fastball: 4 Seam, 2 Seam, Cutter, Sinker. Offspeed: Split, Change, Fork, Screw. Breaking: Slider, Curve, Knuckle, Other

PITCH %

▼

PITCH GROUP

▼

SEASON

▼

HANDEDNESS

▼

COUNT

▼

ALL PITCHES

▼

ALL SEASONS

▼

Pitch Tracking

Year	Pitch Type	#	%	PA	AB	H	1B	2B	3B	HR	SO	BBE	BA
2022	Fastballs	494	48.9	122	113	35	26	5	2	2	15	98	.310
2022	Breaking	412	40.8	114	106	22	18	1	1	2	26	81	.208
2022	Offspeed	105	10.4	28	27	6	4	1	0	1	6	21	.222
2021	Fastballs	899	56.7	222	203	57	31	17	1	8	41	163	.281
2021	Breaking	535	33.7	133	126	32	22	2	0	8	38	89	.254
2021	Offspeed	152	9.6	40	38	9	7	2	0	0	6	32	.237





! Note: Years are in reverse order.
+ View More Seasons

Batted Ball Profile

Season	GB %	FB %	LD %	PU %	Pull %	Straight %	Oppo %	Weak %	Topped %	Under %	Flare/Burner %	Solid %	Barrel %	Barrel/PA
2017	45.2	32.3	19.4	3.2	30.6	46.8	22.6	8.1	29.0	27.4	21.0	3.2	9.7	6.5
2018	43.5	21.5	26.5	8.5	41.2	33.8	24.6	3.8	31.2	26.2	23.5	6.2	6.9	4.2
2019	40.8	26.6	21.9	10.7	37.3	41.6	21.0	3.9	27.9	27.5	19.7	7.7	9.9	5.7
2020	40.3	23.9	22.4	13.4	40.3	34.3	25.4	6.0	28.4	25.4	16.4	11.9	11.9	6.4
2021	44.0	28.2	18.0	9.9	38.4	35.9	25.7	6.0	31.0	30.3	19.4	6.3	7.0	5.0
2022	40.5	24.5	21.5	13.5	34.0	44.5	21.5	9.0	25.5	31.0	24.5	6.0	4.0	3.0
Player	42.4	25.6	21.8	10.2	37.7	38.7	23.5	5.7	29.1	28.4	21.2	6.7	7.5	4.8
MLB	44.9	23.0	25.1	7.1	36.7	37.8	25.4	3.8	33.1	24.5	24.4	5.7	6.7	4.6

! Note: All figures in this table cover the period 2015-present.

Similar Batters to Harrison Bader:

-  2018 - Ronald Guzman (/savant-player/608597)
-  2018 - Steven Souza Jr. (/savant-player/519306)
-  2021 - Tyrone Taylor (/savant-player/621438)
-  2019 - Robinson Chirinos (/savant-player/455139)



2018 - Chris Taylor (/savant-player/621035)

[-- Compare All Similar Batters \(/affinity-pitchersAndHitters-byHittingProfile#players=hitters&player=664056-R\)](#)

Run Values by Pitch Type

Year	Pitch Type	Team	RV/100	Run Value	Pitches	%	PA	BA	SLG	wOBA	Whiff%	K%	PutAway
2022	Slider	[REDACTED]	-1.6	-4	278	27.5	78	.203	.284	.239	23.2	16.7	14
2022	4-Seamer		1.5	4	270	26.7	62	.321	.554	.404	14.8	16.1	14
2022	Sinker		-1.1	-2	148	14.6	39	.351	.405	.377	4.5	10.3	14
2022	Curveball		-0.3	0	132	13.1	34	.200	.200	.268	43.4	38.2	34
2022	Changeup		-1.8	-1	83	8.2	23	.182	.182	.226	34.7	21.7	14
2022	Cutter		-2.2	-2	76	7.5	21	.200	.200	.248	15.0	4.8	4
2022	Splitter		16.2	2	12	1.2	3	.667	2.000	1.083	25.0	33.3	14
2022	N/A		-10.9	-1	10	1.0	2	.000	.000	.000	0.0	0.0	0
2021	4-Seamer		-2.6	-14	516	32.5	121	.202	.339	.279	21.6	22.3	14
2021	Slider		1.9	7	377	23.8	93	.281	.472	.341	39.4	29.0	24
2021	Sinker		2.9	8	295	18.6	83	.395	.658	.481	10.0	7.2	4
2021	Curveball		0.3	0	158	10.0	40	.189	.432	.315	29.3	27.5	24
2021	Changeup		0.9	1	138	8.7	36	.257	.314	.289	17.6	13.9	4
2021	Cutter		0.5	0	88	5.5	18	.278	.722	.411	36.2	44.4	34
2021	Splitter		-1.9	0	13	0.8	3	.000	.000	.233	25.0	33.3	24
2021	N/A		-80.6	-1	1	0.1	1	.000	.000	.000	0.0	0.0	0
2020	4-Seamer		-0.9	-2	179	34.3	48	.216	.459	.382	31.2	33.3	34
2020	Slider		2.5	3	136	26.1	29	.259	.481	.371	28.8	37.9	24
2020	Sinker		0.8	1	81	15.5	18	.200	.600	.386	21.2	27.8	24
2020	Curveball		-3.2	-2	61	11.7	13	.083	.083	.123	26.3	38.5	34
2020	Cutter		1.8	1	32	6.1	11	.444	.556	.486	21.1	0.0	0
2020	Changeup		-1.8	-1	31	5.9	6	.167	.333	.358	35.7	50.0	34
2020	Splitter		1.3	0	2	0.4		--	--	--	0.0	--	0
2019	4-Seamer		1.2	6	495	28.5	122	.263	.568	.424	15.9	22.1	14
2019	Slider		-2.8	-11	389	22.4	84	.130	.195	.167	41.0	36.9	24
2019	Sinker		2.4	7	277	16.0	67	.314	.569	.506	15.1	11.9	14
2019	Curveball		0.1	0	253	14.6	52	.154	.212	.228	28.1	38.5	24
2019	Changeup		-0.8	-1	171	9.9	42	.195	.268	.218	39.5	42.9	24
2019	Cutter		-1.2	-1	120	6.9	29	.148	.259	.210	27.1	34.5	24
2019	Splitter		2.0	0	8	0.5	3	.000	.000	.233	100.0	66.7	64
2018	4-Seamer		-0.3	-2	608	34.3	116	.237	.392	.333	21.0	28.4	14
2018	Slider		-2.3	-8	350	19.8	90	.186	.326	.242	42.3	45.6	34
2018	Sinker		4.0	12	313	17.7	85	.421	.684	.517	20.9	16.5	14
2018	Curveball		-0.1	0	200	11.3	47	.205	.295	.248	27.8	36.2	24
2018	Changeup		-0.9	-2	170	9.6	52	.255	.340	.298	30.4	23.1	14
2018	Cutter		3.6	4	108	6.1	28	.333	.542	.444	26.3	10.7	14
2018	Splitter		-5.4	-1	17	1.0	5	.000	.000	.000	66.7	100.0	54
2017	4-Seamer		-0.4	0	110	30.1	27	.250	.458	.323	13.7	18.5	14
2017	Slider		3.3	2	72	19.7	22	.250	.550	.336	35.3	27.3	24
2017	Sinker		0.7	0	69	18.9	17	.375	.438	.379	20.0	11.8	14
2017	Curveball		-4.7	-2	39	10.7	10	.100	.100	.090	76.5	90.0	54
2017	Cutter		-0.3	0	37	10.1	7	.286	.286	.257	17.6	0.0	0
2017	Changeup		-4.7	-1	22	6.0	5	.000	.000	.000	66.7	40.0	24
2017	Splitter		-4.8	-1	15	4.1	3	.000	.000	.000	10.0	0.0	0

! Note: Years are in reverse order.

[+ View Complete Run Value Leaderboard \(/leaderboard/pitch-arsenal-stats?type=batter\)](#)

Swing/Take

Year	Team	PA	Pitches	Runs				
				Heart	Shadow	Chase	Waste	All
2017	[REDACTED]	91	365	-1	-3	2	1	-1
2018		423	1,766	1	-21	15	9	4
2019		412	1,775	-6	-18	15	8	-1
2020		136	581	-2	-7	2	5	-2
2021		399	1,609	-1	-8	5	7	3
2022		264	1,011	-6	-3	2	4	-3

+ View Complete Swing/Take Leaderboard (/leaderboard/swing-take?type=All&year=2022&group=Batter)

Plate Discipline

Season	Pitches	Zone %	Zone Swing %	Zone Contact %	Chase %	Chase Contact %	Edge %	1st Pitch Swing %	Swing %	Whiff %	Meat
2017	366	49.0	70.4	82.5	26.9	42.0	40.3	32.6	48.1	29.0	8
2018	1,772	49.9	64.9	78.7	25.9	52.8	41.5	30.4	45.3	28.1	7
2019	1,735	50.3	58.1	82.0	24.2	50.5	40.3	24.0	41.4	26.6	7
2020	522	46.0	59.6	83.2	28.0	48.1	42.1	21.6	42.5	27.9	5
2021	1,586	48.5	64.9	84.4	31.0	54.5	42.9	29.0	47.5	24.7	6
2022	1,011	45.0	64.6	88.1	33.8	61.2	40.7	28.0	47.7	21.0	6
Player	6,992	48.6	63.1	82.6	28.1	53.4	41.4	27.7	45.1	25.9	7
MLB		48.5	66.9	82.0	28.4	58.4	42.6	29.4	47.0	24.6	7

! Note: All figures in this table cover the period 2015-present.

Percentile Rankings

Year	xwOBA	xBA	xSLG	xISO	xOBP	Brl	Brl%	EV	HardHit%	K%	BB%	Whiff%	Speed	OAA
2017													99	
2018	15	13	18	27	21	29	48	20	18	7	35	26	99	99
2019	29	2	27	52	43	39	69	32	30	9	80	35	97	97
2020	48	6	49	76	36	34	80	10	32	7	67	40	98	86
2021	14	17	31	42	9	30	35	7	12	51	19	48	97	99
2022	16	46	14	10	24	11	15	1	4	71	10	71	94	91












+ View Complete Percentile Rankings Leaderboard (/leaderboard/percentile-rankings?type=batter)

Expected Home Runs

Year	Team	Avg HR Trot	Actual HR	xHR	HR-xHR	Doubters	Mostly Gone	No Doubters	No Doubter %
2017	[REDACTED]	20.5	3	3.5	-1	2	1	3	100.0
2018		20.8	12	11.0	1	6	6	7	58.3
2019		21.2	12	12.8	-1	5	7	7	58.3
2020		21.2	4	5.7	-2	3	6	1	25.0
2021		22.5	16	16.2	0	7	8	11	68.8
2022		20.0	5	4.5	1	4	5	1	20.0

Expected Home Runs by Park

Year	HR	A	H	As	S	T	F	O	TB	B	N	C	KC
2017	3	5	3	3	3	4	3	3	3	4	3	3	3
2018	12	13	14	9	9	11	10	13	12	10	11	10	8

Year	HR											
2020	4	6	6	6	6	6	6	6	7	9	9	3
2021	16	15	22	15	16	20	15	18	18	17	18	12
2022	5	5	6	3	4	4	4	3	5	5	4	3

! Note: This tells how many of this player's home runs would have been out of other stadiums. This accounts for different wall heights, distances and environmental effects. For these purposes, the 2020 Blue Jays home field was still Rogers Centre, not Sahlen Field.


+ View Complete Expected Home Runs Leaderboard (/leaderboard/home-runs?player_type=Batter)


Year to Year Changes										
Metric	2015	2016	+/-	2017	+/-	2018	+/-	2019	+/-	202
Exit Velocity (/leaderboard/statcast-year-to-year?group=Batter&type=exit_velocity_avg)				86.3		87.1	0.8 ↑	88.4	1.3 ↑	8
Launch Angle (/leaderboard/statcast-year-to-year?group=Batter&type=launch_angle_avg)				8.6		13.7	5.1 ↑	15.3	1.6 ↑	15.
Barrel % (/leaderboard/statcast-year-to-year?group=Batter&type=barrel_batted_rate)				9.7		6.9	-2.8 ↓	9.9	3 ↑	11.
Hard Hit % (/leaderboard/statcast-year-to-year?group=Batter&type=hard_hit_percent)				37.1		30.8	-6.3 ↓	35.3	4.5 ↑	35.
Sweet Spot % (/leaderboard/statcast-year-to-year?group=Batter&type=sweet_spot_percent)				27.4		34.6	7.2 ↑	31.3	-3.3 ↓	35.
xBA (/leaderboard/statcast-year-to-year?group=Batter&type=xba)				.242		.225	-0.017 ↓	.213	-0.012 ↓	.19
BA (/leaderboard/statcast-year-to-year?group=Batter&type=ba)				.235		.264	0.029 ↑	.205	-0.059 ↓	.22
xwOBA (/leaderboard/statcast-year-to-year?group=Batter&type=xwoba)				.303		.29	-0.013 ↓	.314	0.024 ↑	.32
wOBA (/leaderboard/statcast-year-to-year?group=Batter&type=woba)				.279		.326	0.047 ↑	.293	-0.033 ↓	.33
xSLG (/leaderboard/statcast-year-to-year?group=Batter&type=xslg)				.429		.358	-0.071 ↓	.405	0.047 ↑	.42
SLG (/leaderboard/statcast-year-to-year?group=Batter&type=slg)				.376		.422	0.046 ↑	.366	-0.056 ↓	.44
K% (/leaderboard/statcast-year-to-year?group=Batter&type=k_percent)				26.1		29.3	3.2 ↑	28.8	-0.5 ↓	3
BB% (/leaderboard/statcast-year-to-year?group=Batter&type=bb_percent)				5.4		7.3	1.9 ↑	11.3	4 ↑	10.
Swing % (/leaderboard/statcast-year-to-year?group=Batter&type=swing_percent)				48.1		45.3	-2.8 ↓	41.4	-3.9 ↓	42.
Whiff % (/leaderboard/statcast-year-to-year?group=Batter&type=whiff_percent)				29		28.1	-0.9 ↓	26.6	-1.5 ↓	27.
In Zone % (/leaderboard/statcast-year-to-year?group=Batter&type=in_zone_percent)				49		49.9	0.9 ↑	50.3	0.4 ↑	4
Out of Zone % (/leaderboard/statcast-year-to-year?group=Batter&type=out_zone_percent)				51		50.1	-0.9 ↓	49.7	-0.4 ↓	5
Out of Zone Swing % (/leaderboard/statcast-year-to-year?group=Batter&type=oz_swing_percent)				26.9		25.9	-1 ↓	24.2	-1.7 ↓	2
First Pitch Swing % (/leaderboard/statcast-year-to-year?group=Batter&type=f_swing_percent)				32.6		30.4	-2.2 ↓	24	-6.4 ↓	21.
First Pitch Strike % (/leaderboard/statcast-year-to-year?group=Batter&type=f_strike_percent)				60.9		59.8	-1.1 ↓	61.1	1.3 ↑	60.

+ View Complete Year to Year Changes Leaderboard (/leaderboard/statcast-year-to-year?group=Batter)

Statcast Shift Statistics						
Season	Bat Side	PA	Shifts	%	wOBA - No Shift	wOBA - Shift
2017	R	89	0	0.0	.285	
2018	R	423	17	4.0	.307	.691
2019	R	399	61	15.3	.300	.260
2020	R	124	56	45.2	.353	.308
2021	R	395	55	13.9	.319	.404
2022	R	264	71	26.9	.289	.315

+ View Fielder Positioning for Harrison Bader (<https://baseballsavant.mlb.com/visuals/batter-positioning?playerId=664056&teamId=&opponent=&firstBase=0&shift=1&season=2018&attempts=25&batSide=R&gb=1&fb=0>)

Pitch Tempo									
Season	Team	Bases Empty				Runners On Base			
		Pitches	Tempo	Fast %	Slow %	Pitches	Tempo	Fast %	Slow %
2017		100	18.1	19.0%	3.0%	66	23.1	0.0%	7.6%
2018		543	17.3	26.0%	3.3%	309	23.3	0.3%	12.0%
2019		523	17.3	29.1%	1.5%	351	24.4	0.3%	17.4%
2020		162	18.6	19.8%	3.1%	90	23.7	0.0%	16.7%
2021		461	18.9	15.2%	4.3%	290	25.0	1.0%	16.9%

Season	Team	Bases Empty				Runners On Base			
		Pitches	Tempo	Fast %	Slow %	Pitches	Tempo	Fast %	Slow %
2022		294	17.4	25.5%	1.0%	177	22.9	4.0%	10.7%

+ View Complete Pitch Tempo Leaderboard (/leaderboard/pitch-tempo?type=Bat)

Statcast Rankings

Average Exit Velocity

Year	MPH	Rank
2018	87.1	212th in MLB
2019	88.4	179th in MLB
2021	86.2	238th in MLB
2022	83.5	172nd in MLB

Max Exit Velocity

Year	MPH	Rank
2018	113.6	50th in MLB
2019	111.2	133rd in MLB
2021	111.5	115th in MLB
2022	109.6	116th in MLB

Barrels

Year	#	Rank
2018	18	176th in MLB
2019	23	149th in MLB
2021	20	159th in MLB
2022	8	154th in MLB

Sprint Speed

Year	Ft/s	Rank
2017	30.0	11th in MLB
2018	30.1	9th in MLB
2019	29.5	21st in MLB
2020	29.5	8th in MLB
2021	29.5	19th in MLB

Year	Ft/s	Rank
2022	29.2	32nd in MLB

Max HR Distance

Year	Ft	Rank
2018	431	147th in MLB
2019	454	62nd in MLB
2021	453	53rd in MLB
2022	401	161st in MLB

Average HR Trot

Year	Sec.	Rank
2018	20.81	31st in MLB
2019	21.23	34th in MLB
2021	22.51	79th in MLB
2022	19.97	3rd in MLB

Outs Above Average

Year	#	Rank
2017	2	41st in MLB
2018	18	3rd in MLB
2019	12	4th in MLB
2020	3	11th in MLB
2021	14	3rd in MLB
2022	5	13th in MLB

Statcast Glossary (<http://m.mlb.com/glossary/statcast>)

Exit Velocity (EV)

(<http://m.mlb.com/glossary/statcast/exit-velocity>)

How fast, in miles per hour, a ball was hit by a batter.

Launch Angle (LA)

(<http://m.mlb.com/glossary/statcast/launch-angle>)

How high/low, in degrees, a ball was hit by a batter.

Barrels

(<http://m.mlb.com/glossary/statcast/barrel>)

Hard Hit

(<http://m.mlb.com/glossary/statcast/hard-hit>)

A batted ball with the perfect combination of exit velocity and launch angle

Sweet Spot

(<http://m.mlb.com/glossary/statcast/sweet-spot>)

a batted-ball event with a launch angle between eight and 32 degrees.

Pitch Velocity

(<http://m.mlb.com/glossary/statcast/velocity>)

How hard, in miles per hour, a pitch is thrown.

Active Spin

(<http://m.mlb.com/glossary/statcast/active-spin>)

Statcast refers to the spin that contributes to movement as Active Spin.

Extension

(<http://m.mlb.com/glossary/statcast/extension>)

How far off the mound, in feet, a pitcher releases the pitch.

Arm Strength

(<http://m.mlb.com/glossary/statcast/arm-strength>)

How hard, in miles per hour, a fielder throws the ball.

Distance Covered

(<http://m.mlb.com/glossary/statcast/distance-covered>)

How far, in feet, a fielder or runner has traveled on a play.

Jump (<http://m.mlb.com/glossary/statcast/jump>)

Jump is a Statcast metric that shows which players have the fastest reactions and most direct routes in the outfield.

Catch Probability

(<http://m.mlb.com/glossary/statcast/catch-probability>)

The likelihood, in percent, that an outfielder will be able to make a catch on an individual batted ball.

Expected Weighted On-base Average (xwOBA)**rate)**

Statcast defines a 'hard-hit ball' as one hit with an exit velocity of 95 mph or higher.

Batted Ball Event (BBE)

(<http://m.mlb.com/glossary/statcast/batted-ball-event>)

A Batted Ball Event represents any batted ball that produces a result.

Pitch Movement

(<http://m.mlb.com/glossary/statcast/pitch-movement>)

The movement of a pitch is defined in inches, both in raw numbers and as a measurement against average.

Spin Rate

(<http://m.mlb.com/glossary/statcast/spin-rate>)

How much spin, in revolutions per minute, a pitch was thrown with.

Pop Time

(<http://m.mlb.com/glossary/statcast/pop-time>)

How quickly, in seconds, a catcher can get the ball out of his glove and to the base on a stolen base or pickoff attempt.

Base-to-base Time

How much time, in seconds, it takes a runner to get from one base to another, like Home To First.

Lead Distance

(<http://m.mlb.com/glossary/statcast/lead-distance>)

How far, in feet, a runner is ranging off the bag at the time of a pitcher's first movement or pitch release.

Outs Above Average (OAA)

(<http://m.mlb.com/glossary/statcast/outs-above-average>)

A range-based metric of skill that shows how many outs a player has saved over his peers.

Expected Batting Average (xBA)

(<http://m.mlb.com/glossary/statcast/expected-batting-average>)

xBA measures the likelihood that a batted ball will become a hit.

Expected Earned Run Avg (xERA)

(<http://m.mlb.com/glossary/statcast/expected-woba>)

xwOBA is formulated using exit velocity, launch angle and, on certain types of batted balls, Sprint Speed.

Sprint Speed**(<http://m.mlb.com/glossary/statcast/sprint-speed>)**

A measurement of a player's top running speed, expressed in "feet per second in a player's fastest one-second window."

(<http://m.mlb.com/glossary/statcast/expected-era>)

xERA is a simple 1:1 translation of xwOBA, converted to the ERA scale

Bolt (<http://m.mlb.com/glossary/statcast/bolt>)

A Bolt is any run where the Sprint Speed (defined as "feet per second in a player's fastest one-second window") of the runner is at least 30 ft/sec.



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