Wheeler:

Facing RHH, Wheeler works mainly with his 4-Seam, Sinker and Sweeper. Sinker and Sweeper are only in zone about 50% of the time, while 4-Seam catches the zone 65% of the time.

Rare to see a Sweeper/Sinker catch the heart of the zone and has a 44% chase rate on his Sinker.

Bregman:

Sees a good deal of 4-Seam and Sinkers, hasn't seen many Sweepers this year

Bregman has a 26% chase rate on the Sinker (highest out of all pitches) would expect Wheeler to work Sinker – Sweeper.

Bregman has a 40% Chase-Whiff rate on Sweepers definitely going to be used in their matchups.

Wheeler:

Has great deal of success with the Sweeper, lowest hard-hit rate. 0% hard-hit rate on Sweepers out of the zone.

4-Seams aren't put into play as often as other pitches, but can be dangerous if hit have a nearly 50% hard-hit rate on 4-Seams in the zone

xwOBA on Sweeper .194 compared to .255 & .250 on 4-Seam/Sinker and a .000 on Sweepers out of the Zone

Bregman:

46% Hard-Hit rate on Sinkers, drops to 17% on Sinkers out of the zone. Chased Sinkers won't likely result in optimal situations for Bregman.

43% Hard-Hit rate on chased 4-Seams, would imagine 4-Seam won't be used too often, Bregman has a .347 xwOBA on 4-Seams overall and a .430 xwOBA on chased 4-Seams

Hasn't had much luck against Sweeper especially against RHP, lowest xwOBA out of all Wheelers arsenal, .144 xwOBA on chased Sweepers

Wheeler:

Most likely to start off with a fastball, later in the count will lean on 4-Seams.

Put away pitch is either the 4-Seam or Sweeper, but the 4-Seam more likely to be in the zone on 2 strike pitches than the sweeper.

Rare to get a chase on the 4-Seam early in the count, but 2 strike sweepers elicit a lot of chases.

Hitters have had the most success putting early in the count Sinkers or late in the count 4-Seams into play

Bregman:

Will swing at a 1st-Pitch 4-Seam but rarely swings at 1st-Pitch Sweepers. Wouldn't be surprised for Wheeler to drop a 1st-Pitch sweeper in the zone for a strike.

2-0 Takes most of the time and 1-1 swings most of the time, could get a chase here on a Sinker.

Even on pitches in the zone, doesn't swing at 2-0 pitches as often compared to other counts.

In 1-1 chases sinkers 36% of the time and in 1-2 chases sinkers nearly 60% of the time.

1-2 Is a very likely chase count, wouldn't expect Wheeler to throw anything other than an outside Sinker or outside Sweeper.

Wheeler:

High first pitch Sinker usage, runs inside, rarely over the heart of the plate and only 50% in zone rate. The first pitch 4-Seam will catch the zone (outside on a RHH) 80% of the time.

PA gets progressively tougher for a RHH as it goes on. xwOBA decreases as pitch of pa increases.

Most popular 2-Pitch sequence is Sinker-4 Seam. Chase rates on the 4-Seam are less than Sinker, especially when Wheeler is down. Opposite for Sinker, when Wheeler is down, he gets a 52% chase rate on Sinker.

4-Seam plays up and out

Sinker pays Middle and In

Sweeper plays Low and away

Wheeler is able to reach all corners of the plate with those 3 pitches. Low and in is reached with his Curveball. Will rarely see a low Sinker. Lower Sinkers result in more hard hits. The weak contact from Sinkers come from when the Sinker runs into the hands on the RHH.

4-Seam – Sweeper gets a 31% Whiff rate on the Sweeper

Bregman:

On 2-Pitch sequences struggle with the Fastball – Breaking Ball mix. Whiffs on nearly 25% of the breaking balls that follows a fastball.

When the pitcher is behind, is where he excels against Fastballs. .494 wOBA against pitcher behind 4-Seams and .479 wOBA against pitcher behind Sinkers. Wheeler getting behind might have luck throwing in a Sweeper or Curveball.

Does well on up and away 4-Seams, middle away is where a lot of the weak contact comes from. Sinkers don't have a strong pattern where he excels/struggles, but posting a 46% hard hit rate on Sinkers.

					Alex Br	egman					
Pitch	Usage	Zone %	Z-Swing %	Heart %	H-Swing %	O-Zone %	Chase %	Whiff %	Z–Whiff %	H–Whiff %	O-Whiff %
4-Seam	32%	55%	68%	31%	75%	45%	17%	7%	4%	4%	24%
Curveball	6%	47%	52%	20%	50%	53%	20%	31%	28%	25%	38%
Cutter	7%	48%	63%	30%	74%	52%	24%	5%	2%	0%	11%
Sinker	21%	61%	62%	35%	68%	39%	25%	9%	6%	6%	19%
Splitter	2%	50%	96%	28%	92%	50%	22%	19%	18%	17%	20%
Sweeper	6%	41%	58%	22%	71%	59%	22%	23%	19%	15%	29%
ALL	100%	51%	65%	28%	72%	49%	23%	11%	7%	6%	24%

					Alex Bregn	nan vs LHP					
Pitch	Usage	Zone %	Z–Swing %	Heart %	H-Swing %	O-Zone %	Chase %	Whiff %	Z–Whiff %	H–Whiff %	O-Whiff %
4-Seam	41%	57%	67%	32%	74%	43%	15%	2%	1%	0%	7%
Curveball	8%	37%	47%	20%	33%	63%	17%	23%	12%	0%	40%
Cutter	8%	50%	81%	33%	79%	50%	33%	4%	6%	0%	0%
Sinker	9%	65%	69%	29%	71%	35%	18%	4%	0%	0%	33%
Splitter	0%	0%	_	0%		100%	50%	0%			0%
Sweeper	6%	52%	25%	26%	50%	48%	27%	12%	25%	25%	0%
ALL	27%	51%	65%	28%	70%	49%	22%	5%	3%	2%	12%

					Alex Bregn	nan vs RHP					
Pitch	Usage	Zone %	Z–Swing %	Heart %	H-Swing %	O-Zone %	Chase %	Whiff %	Z–Whiff %	H–Whiff %	O-Whiff %
4-Seam	29%	54%	69%	30%	76%	46%	18%	10%	5%	6%	31%
Curveball	5%	53%	54%	20%	60%	47%	23%	34%	33%	33%	38%
Cutter	7%	47%	55%	29%	72%	53%	21%	5%	0%	0%	18%
Sinker	26%	60%	61%	36%	68%	40%	26%	10%	7%	7%	18%
Splitter	3%	52%	96%	30%	92%	48%	19%	19%	18%	17%	25%
Sweeper	7%	38%	73%	20%	80%	62%	21%	25%	19%	12%	38%
ALL	73%	51%	65%	29%	73%	49%	24%	14%	9%	7%	28%

					Alex Bregman					
Pitch	Strike %	Ball %	O-Strike %	BIP %	Z-BIP %	O-BIP %	Hard-Hit %	Z-H-Hit %	O-H-Hit %	Heart-H-Hit %
4-Seam	64%	36%	64%	50%	56%	24%	38%	39%	33%	42%
Curveball	59%	41%	59%	40%	48%	23%	41%	50%	0%	83%
Cutter	61%	39%	61%	48%	56%	28%	55%	62%	20%	63%
Sinker	72%	28%	72%	55%	61%	31%	46%	51%	15%	44%
Splitter	61%	39%	61%	26%	27%	20%	57%	50%	100%	67%
Sweeper	54%	46%	54%	31%	42%	12%	27%	31%	0%	38%
ALL	64%	36%	64%	47%	54%	27%	41%	45%	21%	48%

				Alex	Bregman vs	LHP				
Pitch	Strike %	Ball %	O-Strike %	BIP %	Z-BIP %	O-BIP %	Hard-Hit %	Z-H-Hit %	O-H-Hit %	Heart-H-Hit %
4-Seam	66%	34%	66%	58%	62%	33%	36%	38%	20%	38%
Curveball	50%	50%	50%	38%	50%	20%	20%	25%	0%	100%
Cutter	71%	29%	71%	42%	53%	14%	80%	78%	100%	86%
Sinker	73%	27%	73%	64%	68%	33%	50%	53%	0%	43%
Splitter	50%	50%	50%	0%		0%	_		_	
Sweeper	65%	35%	65%	25%	50%	0%	0%	0%	_	0%
ALL	64%	36%	64%	53%	61%	28%	39%	41%	24%	45%

	Alex Bregman vs RHP											
Pitch	Strike %	Ball %	O-Strike %	BIP %	Z-BIP %	O-BIP %	Hard-Hit %	Z-H-Hit %	O-H-Hit %	Heart-H-Hit %		
4-Seam	64%	36%	64%	46%	52%	20%	39%	39%	43%	44%		
Curveball	65%	35%	65%	41%	48%	25%	50%	60%	0%	80%		
Cutter	56%	44%	56%	51%	58%	36%	42%	53%	0%	50%		
Sinker	72%	28%	72%	54%	60%	31%	46%	50%	17%	45%		
Splitter	61%	39%	61%	27%	27%	25%	57%	50%	100%	67%		
Sweeper	51%	49%	51%	32%	41%	15%	31%	36%	0%	50%		
ALL	64%	36%	64%	45%	51%	26%	42%	46%	20%	50%		

					Alex Bregma	n				
Pitch	wOBA	xwOBA	xBA	BABIP	ISO	Z-woba	Z-xwOBA	Z-xBA	Z-BABIP	Z-ISO
4-Seam	.298	.314	.276	.193	.096	.253	.285	.278	.211	.109
Curveball	.374	.253	.270	.160	.360	.455	.284	.310	.211	.474
Cutter	.431	.426	.382	.353	.088	.483	.449	.429	.462	.115
Sinker	.362	.351	.326	.243	.118	.353	.334	.334	.273	.145
Splitter	.392	.270	.319	.000	.500	.222	.243	.345	.000	.333
Sweeper	.252	.147	.183	.150	.200	.277	.147	.151	.133	.267

				Alex	Bregman vs	LHP				
Pitch	wOBA	xwOBA	xBA	BABIP	ISO	Z-wOBA	Z-xwOBA	Z-xBA	Z-BABIP	Z-ISO
4-Seam	.185	.255	.239	.104	.090	.175	.236	.244	.119	.102
Curveball	.117	.248	.172	.000	.000	.000	.192	.206	.000	.000
Cutter	.368	.505	.417	.214	.071	.305	.493	.459	.300	.100
Sinker	.453	.429	.323	.235	.412	.467	.416	.320	.267	.467
Splitter		_			—		_		_	_
Sweeper	.417	.181	.287	.333	.333	.417	.181	.287	.333	.333

				Alex	Bregman vs	RHP				
Pitch	wOBA	xwOBA	xBA	BABIP	ISO	Z-woba	Z-xwOBA	Z-xBA	Z-BABIP	Z-ISO
4-Seam	.361	.347	.300	.242	.100	.306	.318	.300	.273	.114
Curveba	.455	.254	.311	.211	.474	.577	.308	.352	.267	.600
Cutter	.475	.371	.363	.450	.100	.594	.421	.411	.562	.125
Sinker	.349	.340	.326	.244	.076	.335	.321	.336	.274	.095
Splitter	.392	.270	.319	.000	.500	.222	.243	.345	.000	.333
Sweepe	r .224	.141	.167	.118	.176	.242	.139	.126	.083	.250

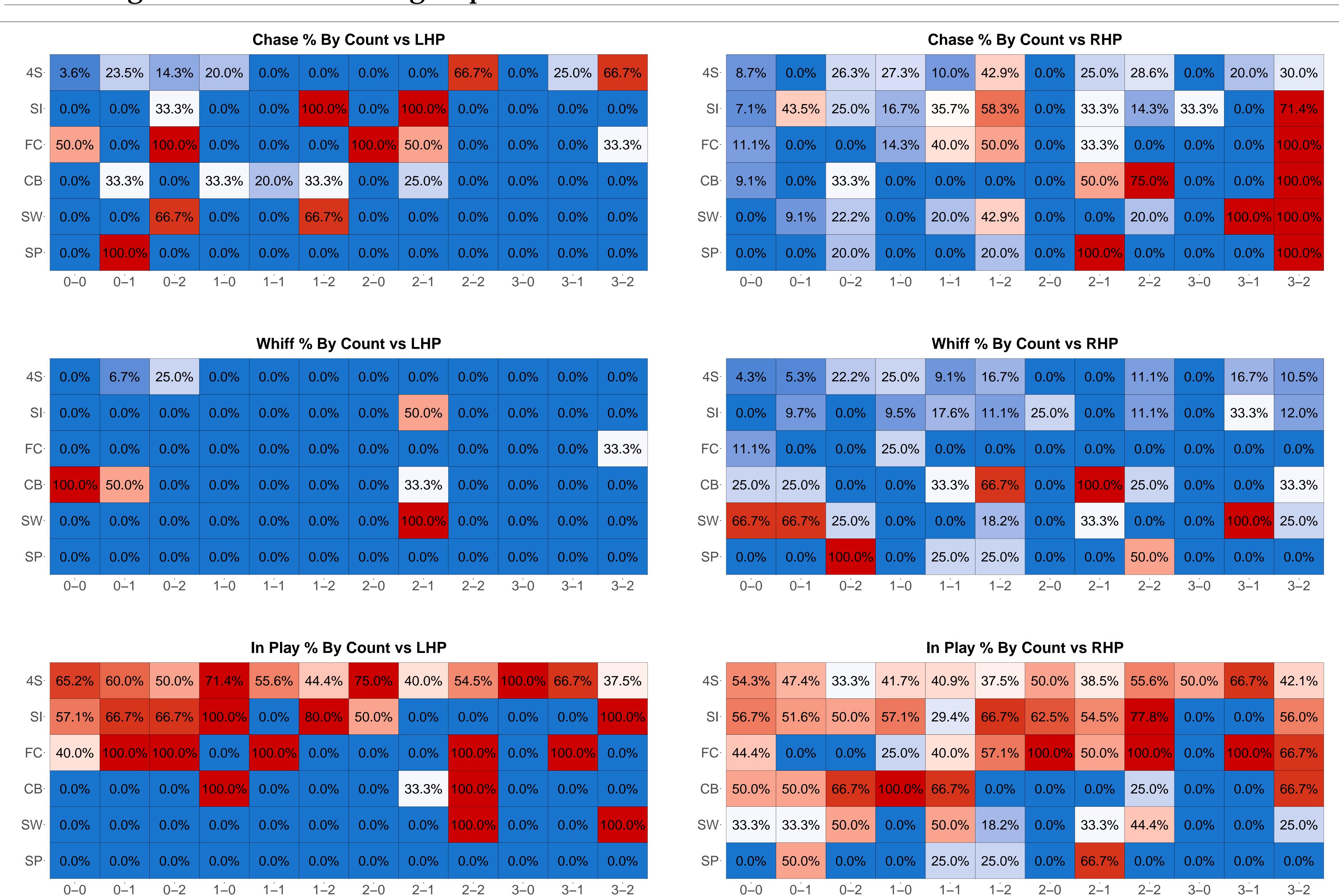
					Alex Bregma	n				
Pitch	O-wOBA	O-xwOBA	O-xBA	O-BABIP	O-ISO	H-wOBA	H-xwOBA	H-xBA	H-BABIP	H-ISO
4-Seam	.462	.422	.251	.125	.050	.304	.320	.297	.253	.132
Curveball	.117	.153	.085	.000	.000	.812	.479	.453	.250	1.000
Cutter	.262	.351	.154	.000	.000	.511	.453	.428	.526	.105
Sinker	.400	.425	.265	.115	.000	.396	.303	.318	.319	.159
Splitter	.900	.350	.166	.000	1.000	.000	.323	.445	.000	.000
Sweeper	.180	.144	.392	.200	.000	.461	.205	.203	.222	.444

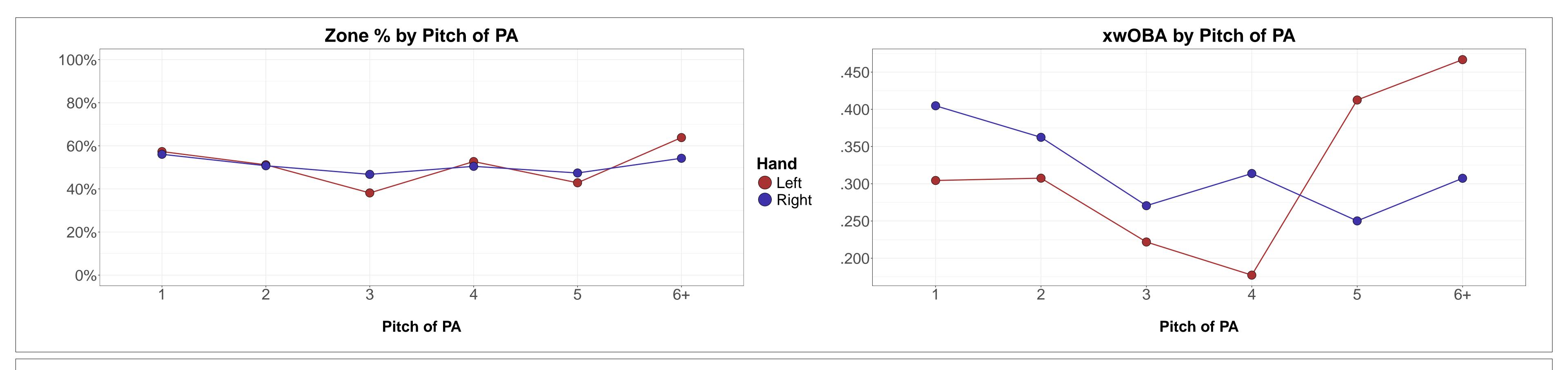
				Alex	Bregman vs	LHP				
Pitch	O-wOBA	O-xwOBA	O-xBA	O-BABIP	O-ISO	H-wOBA	H-xwOBA	H-xBA	H-BABIP	H-ISO
4-Seam	.262	.389	.186	.000	.000	.211	.268	.265	.171	.086
Curveball	.350	.360	.034	.000	.000	.000	.458	.469	.000	.000
Cutter	.525	.533	.037	.000	.000	.436	.599	.512	.429	.143
Sinker	.350	.522	.371	.000	.000	.586	.234	.211	.429	.571
Splitter										
Sweeper	_	_	_	_		.625	.271	.287	.500	.500

	Alex Bregman vs RHP										
Pitch	O-wOBA	O-xwOBA	O-xBA	O-BABIP	O-ISO	H-wOBA	H-xwOBA	H-xBA	H-BABIP	H-ISO	
4-Seam	.512	.430	.298	.156	.062	.362	.352	.317	.304	.161	
Curveball	.000	.049	.110	.000	.000	.929	.482	.449	.286	1.143	
Cutter	.000	.170	.183	.000	.000	.554	.368	.379	.583	.083	
Sinker	.404	.417	.256	.125	.000	.375	.311	.331	.306	.113	
Splitter	.900	.350	.166	.000	1.000	.000	.323	.445	.000	.000	
Sweeper	.180	.144	.392	.200	.000	.414	.186	.174	.143	.429	

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Usage By Count vs LHP													Usag	е Ву С	ount vs	RHP									
4S-	46.0%	42.9%	33.3%	41.8%	33.3%	33.3%	55.6%	25.8%	32.7%	100.0%	58.3%	38.5%	45-	32.3%	24.3%	29.6%	21.2%	31.0%	24.2%	19.2%	26.4%	31.8%	60.0%	43.3%	30.6%
SI-	14.0%	7.1%	16.7%	5.5%	0.0%	10.4%	11.1%	6.5%	6.1%	0.0%	8.3%	7.7%	SI-	28.2%	28.1%	9.9%	34.9%	24.6%	15.3%	38.5%	22.2%	16.8%	30.0%	30.0%	34.1%
FC-	7.3%	5.7%	3.3%	12.7%	3.7%	0.0%	11.1%	12.9%	8.2%	0.0%	16.7%	19.2%	FC-	9.3%	3.8%	2.5%	8.2%	6.3%	6.4%	7.7%	11.1%	4.7%	10.0%	6.7%	3.5%
CB-	9.3%	7.1%	6.7%	7.3%	9.3%	6.2%	5.6%	22.6%	6.1%	0.0%	0.0%	7.7%	CB-	5.7%	5.4%	6.2%	5.5%	5.6%	7.0%	0.0%	2.8%	4.7%	0.0%	0.0%	3.5%
SW-	5.3%	4.3%	13.3%	7.3%	3.7%	6.2%	0.0%	6.5%	6.1%	0.0%	0.0%	7.7%	SW-	4.9%	7.6%	13.6%	1.4%	4.2%	12.7%	3.8%	8.3%	12.1%	0.0%	3.3%	4.7%
SP-	0.0%	1.4%	0.0%	0.0%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	SP-	0.5%	5.4%	6.2%	0.7%	2.8%	7.6%	3.8%	5.6%	2.8%	0.0%	0.0%	1.2%
	0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3–1	3-2		0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3–1	3-2
					Zone	% By C	Count v	s LHP										Zone	% By C	ount v	s RHP				
4S-	59.4%	43.3%	30.0%	56.5%	55.6%	62.5%	50.0%	87.5%	62.5%	66.7%	42.9%	70.0%	4S-	63.2%	53.3%	20.8%	64.5%	54.5%	44.7%	50.0%	57.9%	38.2%	58.3%	61.5%	61.5%
SI-	66.7%	80.0%	40.0%	66.7%	0.0%	80.0%	100.0%	50.0%	33.3%	0.0%	0.0%	100.0%	SI-	61.5%	55.8%	50.0%	52.9%	60.0%	50.0%	75.0%	62.5%	61.1%	50.0%	66.7%	75.9%
FC-	45.5%	50.0%	0.0%	57.1%	50.0%	0.0%	50.0%	50.0%	75.0%	0.0%	50.0%	40.0%	FC-	50.0%	28.6%	0.0%	41.7%	44.4%	40.0%	75.0%	62.5%	20.0%	100.0%	100.0%	33.3%
CB-	50.0%	40.0%	0.0%	25.0%	0.0%	0.0%	100.0%	42.9%	66.7%	0.0%	0.0%	50.0%	CB-	50.0%	50.0%	40.0%	87.5%	75.0%	54.5%	0.0%	0.0%	20.0%	0.0%	0.0%	33.3%
SW-	37.5%	100.0%	25.0%	100.0%	0.0%	0.0%	0.0%	50.0%	66.7%	0.0%	0.0%	100.0%	SW-	47.4%	21.4%	18.2%	50.0%	16.7%	30.0%	0.0%	66.7%	61.5%	0.0%	0.0%	75.0%
SP-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	SP-	50.0%	40.0%	0.0%	100.0%	100.0%	58.3%	50.0%	75.0%	66.7%	0.0%	0.0%	0.0%
	0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3–1	3-2		0-0	0-1	0-2	1-0	1-1	1–2	2-0	2-1	2-2	3-0	3–1	3-2
								vs LHF											e % By						
	40.6%													36.8%	46.7%	79.2%	35.5%	45.5%	55.3%	50.0%	42.1%	61.8%	41.7%	38.5%	38.5%
SI-	33.3%	20.0%	60.0%	33.3%	0.0%	20.0%	0.0%	50.0%	66.7%	0.0%	100.0%	0.0%	SI-	38.5%	44.2%	50.0%	47.1%	40.0%	50.0%	25.0%	37.5%	38.9%	50.0%	33.3%	24.1%
FC-	54.5%	50.0%	100.0%	42.9%	50.0%	0.0%	50.0%	50.0%	25.0%	0.0%	50.0%	60.0%	FC-	50.0%	71.4%	100.0%	58.3%	55.6%	60.0%	25.0%	37.5%	80.0%	0.0%	0.0%	66.7%
CB-	50.0%	60.0%	100.0%	75.0%	100.0%	100.0%	0.0%	57.1%	33.3%	0.0%	0.0%	50.0%	CB-	50.0%	50.0%	60.0%	12.5%	25.0%	45.5%	0.0%	100.0%	80.0%	0.0%	0.0%	66.7%
SW-	62.5%	0.0%	75.0%	0.0%	100.0%	100.0%	0.0%	50.0%	33.3%	0.0%	0.0%	0.0%	SW-	52.6%	78.6%	81.8%	50.0%	83.3%	70.0%	100.0%	33.3%	38.5%	0.0%	100.0%	25.0%
SP.	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	SP-	50.0%	60.0%	100.0%	0.0%	0.0%	41.7%	50.0%	25.0%	33.3%	0.0%	0.0%	100.0%
	0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3-1	3-2		0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3–1	3-2

	Thom Brognan with Scouting resport																								
	Heart % By Count vs LHP																Heart	% By C	ount v	s RHP					
4S-	34.8%	23.3%	10.0%	26.1%	27.8%	25.0%	40.0%	62.5%	31.2%	50.0%	42.9%	50.0%	4S-	35.2%	37.8%	8.3%	25.8%	27.3%	23.7%	30.0%	31.6%	26.5%	16.7%	30.8%	42.3%
SI-	28.6%	20.0%	20.0%	66.7%	0.0%	40.0%	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	SI-	35.8%	26.9%	37.5%	25.5%	40.0%	20.8%	40.0%	43.8%	44.4%	33.3%	44.4%	62.1%
FC-	45.5%	50.0%	0.0%	28.6%	0.0%	0.0%	50.0%	0.0%	50.0%	0.0%	50.0%	20.0%	FC-	30.6%	0.0%	0.0%	41.7%	22.2%	30.0%	25.0%	62.5%	0.0%	50.0%	50.0%	0.0%
CB-	28.6%	40.0%	0.0%	0.0%	0.0%	0.0%	100.0%	14.3%	33.3%	0.0%	0.0%	0.0%	CB-	13.6%	30.0%	0.0%	25.0%	50.0%	27.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW-	0.0%	66.7%	25.0%	50.0%	0.0%	0.0%	0.0%	50.0%	33.3%	0.0%	0.0%	50.0%	SW-	26.3%	7.1%	0.0%	0.0%	0.0%	20.0%	0.0%	50.0%	38.5%	0.0%	0.0%	50.0%
SP-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	SP-	50.0%	20.0%	0.0%	0.0%	100.0%	16.7%	50.0%	25.0%	66.7%	0.0%	0.0%	0.0%
	0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3–1	3-2		0-0	0-1	0-2	1-0	1-1	1–2	2-0	2-1	2-2	3-0	3-1	3–2
					Swing	% By (Count	vs LHP										Swing	% By (Count v	vs RHP				
45-	33.3%	50.0%	40.0%	30.4%	50.0%	56.2%	40.0%	62.5%	68.8%	33.3%	42.9%	80.0%	4S-	36.8%	42.2%	37.5%	38.7%	50.0%	63.2%	20.0%	68.4%	52.9%	16.7%	46.2%	73.1%
SI-	33.3%	60.0%	60.0%	33.3%	0.0%	100.0%	100.0%	100.0%	0.0%	0.0%	0.0%	100.0%	SI-	27.5%	59.6%	50.0%	41.2%	48.6%	75.0%	40.0%	68.8%	50.0%	16.7%	33.3%	86.2%
FC-	45.5%	50.0%	100.0%	42.9%	50.0%	0.0%	100.0%	75.0%	75.0%	0.0%	50.0%	60.0%	FC-	25.0%	0.0%	0.0%	33.3%	55.6%	70.0%	25.0%	75.0%	20.0%	0.0%	50.0%	100.0%
CB-	7.1%	40.0%	0.0%	50.0%	20.0%	33.3%	0.0%	42.9%	66.7%	0.0%	0.0%	50.0%	CB-	18.2%	40.0%	60.0%	12.5%	37.5%	54.5%	0.0%	50.0%	80.0%	0.0%	0.0%	100.0%
SW-	0.0%	0.0%	75.0%	0.0%	0.0%	66.7%	0.0%	50.0%	33.3%	0.0%	0.0%	50.0%	SW-	15.8%	21.4%	36.4%	0.0%	33.3%	55.0%	0.0%	50.0%	69.2%	0.0%	100.0%	100.0%
SP-	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	SP-	50.0%	40.0%	20.0%	100.0%	100.0%	66.7%	50.0%	75.0%	66.7%	0.0%	0.0%	100.0%
	0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3–1	3-2		0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3–1	3–2
								t vs LHI													vs RHI				
												85.7%										92.3%			
												100.0%		40.3%	72.4%	75.0%	63.0%	57.1%	91.7%	53.3%	90.0%	72.7%	0.0%	50.0%	90.9%
FC-	40.0%	100.0%	0.0%	75.0%	100.0%	0.0%	100.0%	100.0%	100.0%	0.0%	100.0%	100.0%	FC-	38.9%	0.0%	0.0%	60.0%	75.0%	100.0%	33.3%	100.0%	100.0%	0.0%	50.0%	100.0%
CB-	14.3%	50.0%	0.0%	100.0%	0.0%	0.0%	0.0%	66.7%	100.0%	0.0%	0.0%	100.0%	CB-	27.3%	80.0%	100.0%	14.3%	50.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
SW-	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	50.0%	0.0%	0.0%	50.0%	SW-	33.3%	66.7%	100.0%	0.0%	100.0%	83.3%	0.0%	75.0%	100.0%	0.0%	0.0%	100.0%
SP-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	SP.	100.0%	100.0%	0.0%	100.0%	100.0%	100.0%	100.0%	66.7%	100.0%	0.0%	0.0%	0.0%
	0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3–1	3–2		0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3–1	3–2

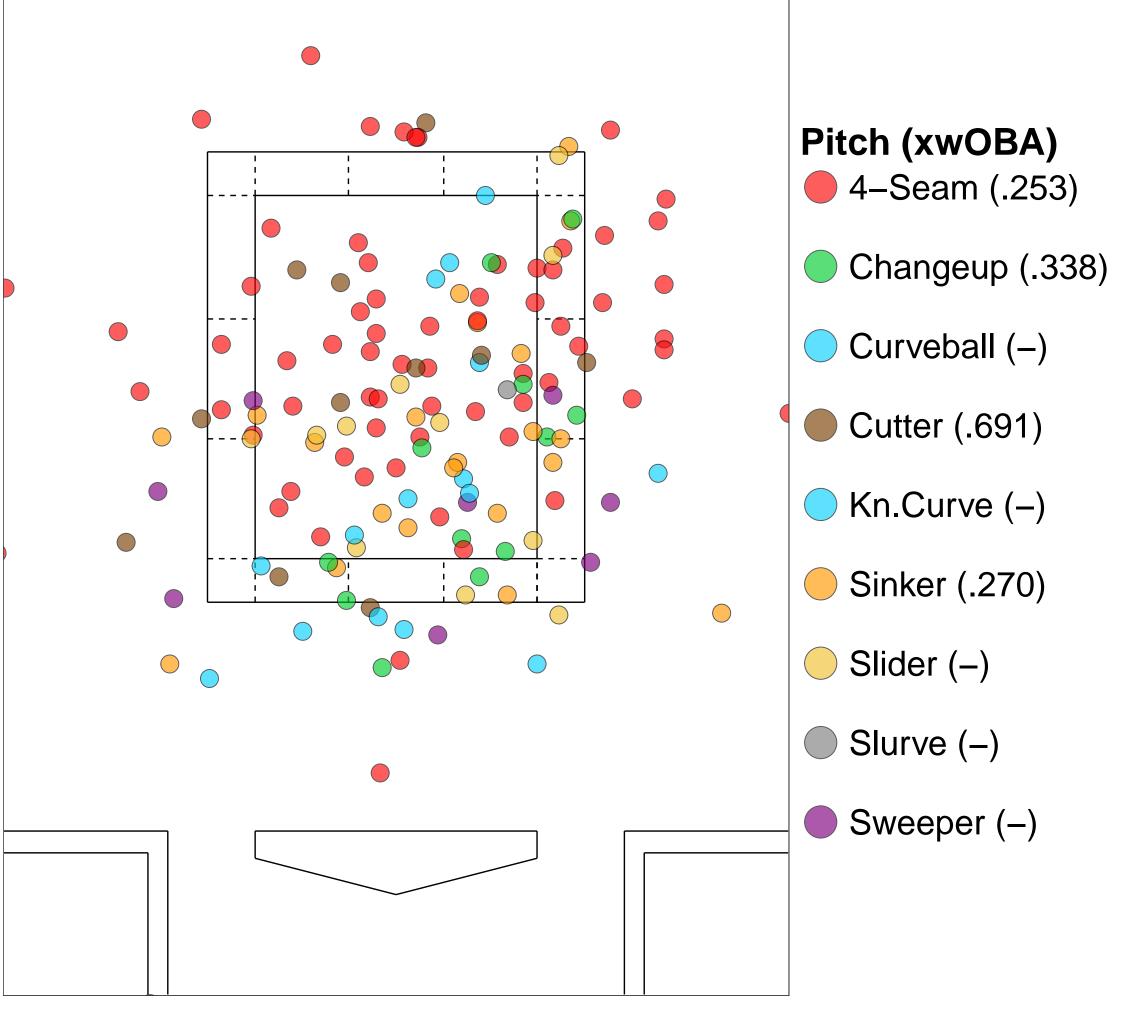




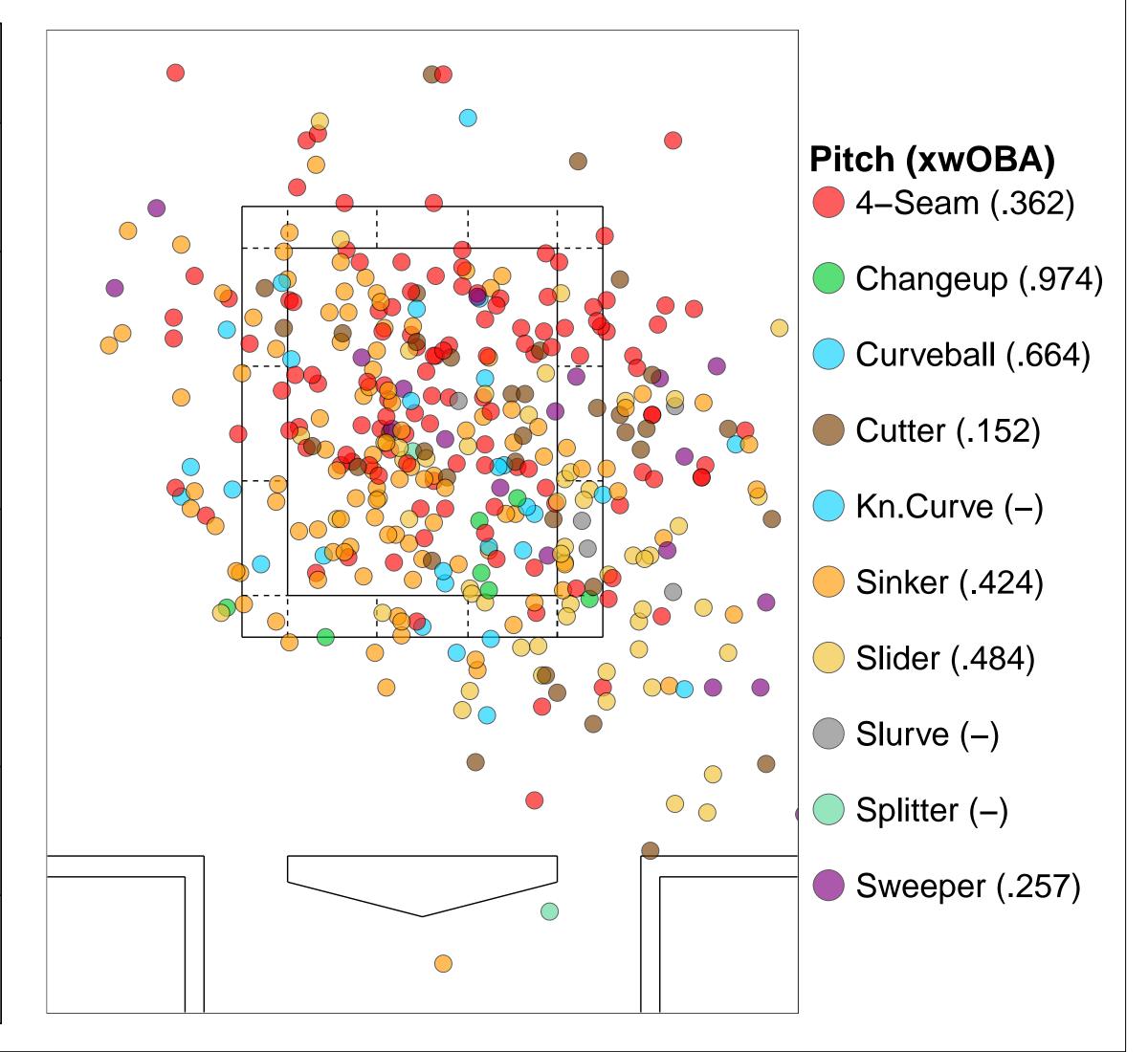
First Pitch Usage vs LHP												
Most Frequent	After Strikeout	After Walk	After Field Out	After Hit	Men in Scoring							
NA	NA	NA	NA	NA	NA							

First Pitch Usage vs RHP											
Most Frequent	After Strikeout	After Walk	After Field Out	After Hit	Men in Scoring						
NA	NA	NA	NA	NA	NA						

Pitch	Zone	Heart	Swing	BIP
4S	59%	35%	33%	65%
SI	67%	29%	33%	57%
СТ	45%	45%	45%	40%
SW	38%	0%	0%	
CU	50%	29%	7%	0%
SP			_	_
_	59%	26%	_	_



Pitch	Zone	Heart	Swing	BIP
4S	63%	35%	37%	54%
SI	61%	36%	28%	57%
СТ	50%	31%	25%	44%
SW	47%	26%	16%	33%
CU	50%	14%	18%	50%
SP	50%	50%	50%	0%
_	43%	22%	_	

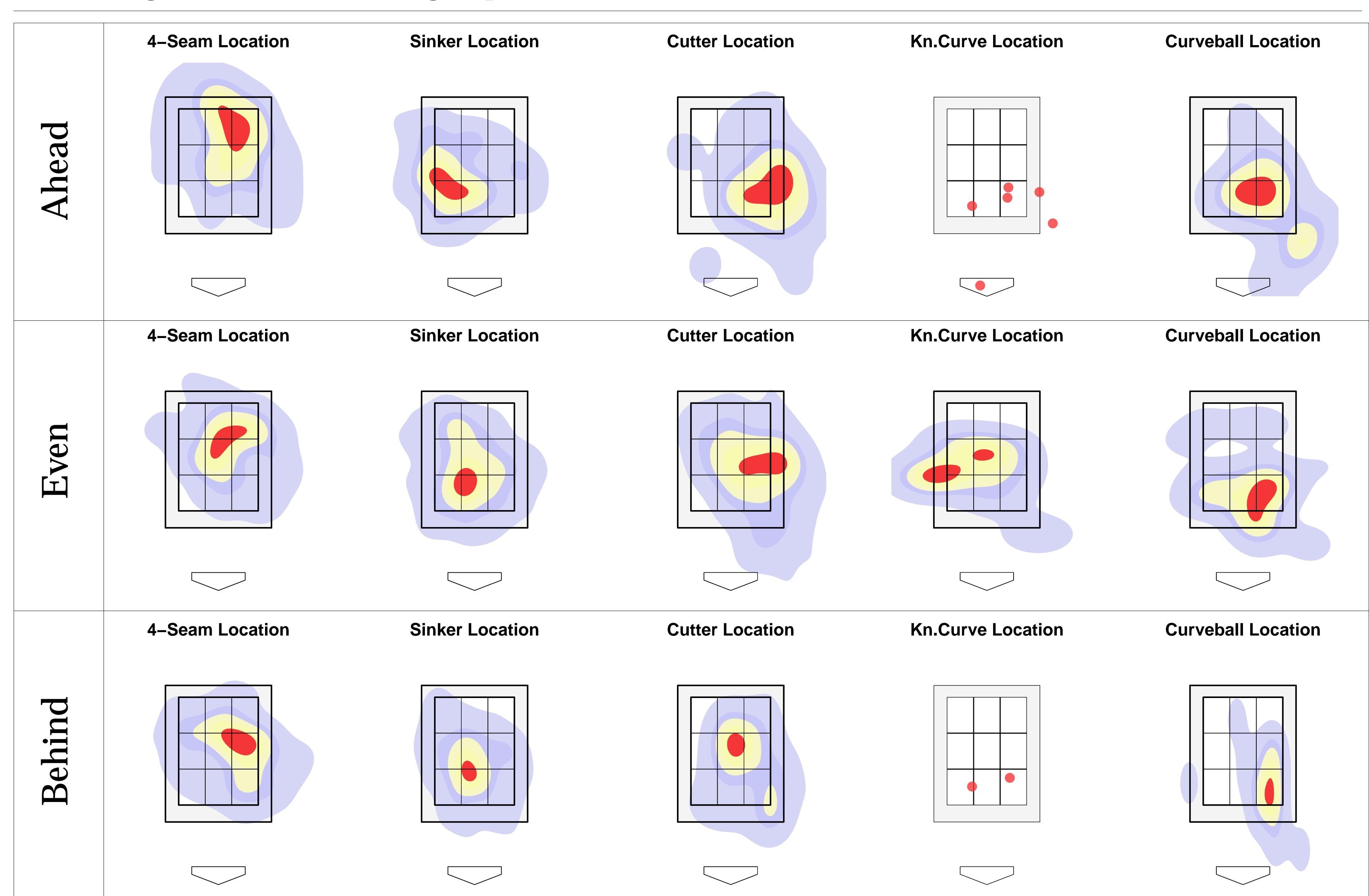


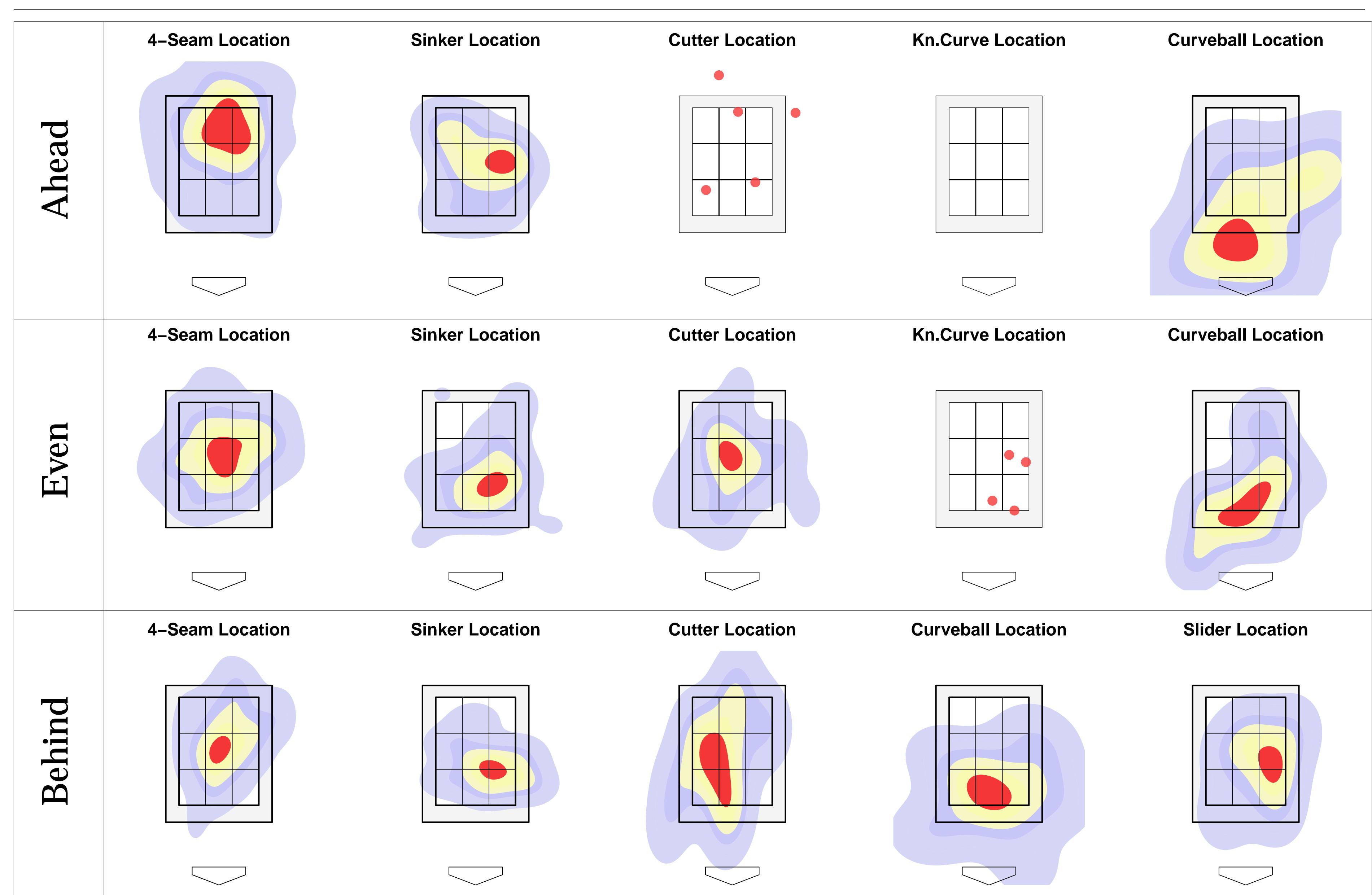
	Top 5 Two Pitch Sequences vs LHP												
Sequence	Usage	Swing %	Whiff %	Chase %	BIP %								
FAST-FAST	26.8%	50.5%	1.9%	17.9%	55.6%								
BRK-FAST	16.3%	60.0%	5.1%	29.2%	51.3%								
FAST-BRK	14.8%	45.8%	11.1%	36.7%	37.0%								
FAST-OFF	12.5%	48.0%	4.2%	23.3%	50.0%								
OFF-FAST	10.3%	51.2%	4.8%	0.0%	61.9%								

	Top 5 Two Pitch Sequences vs RHP											
Sequence	Usage	Swing %	Whiff %	Chase %	BIP %							
FAST-FAST	35.2%	50.5%	12.5%	24.4%	45.3%							
BRK-FAST	19.4%	49.3%	7.8%	21.1%	56.3%							
FAST-BRK	18.8%	45.8%	23.7%	24.1%	49.5%							
BRK-BRK	12.6%	50.7%	18.8%	32.1%	33.3%							
FAST-OFF	5.2%	50.0%	10.7%	26.5%	17.9%							

			Situation	al Result	s vs LHP			
Pitch	Situation	Usage	Zone %	Heart %	Chase %	Whiff %	BIP %	wOBA
	Ahead	38%	46%	21%	17%	7%	54%	.171
4-Seam	Even	41%	59%	33%	12%	0%	60%	.131
	Behind	43%	61%	41%	20%	0%	59%	.271
	Ahead	10%	67%	27%	40%	0%	73%	.269
Sinker	Even	9%	62%	25%	0%	0%	57%	.312
	Behind	7%	70%	40%	33%	14%	57%	.860
	Ahead	3%	40%	40%	33%	0%	100%	.417
Cutter	Even	7%	53%	41%	38%	0%	67%	.300
	Behind	14%	50%	25%	30%	8%	8%	.420
	Ahead	7%	20%	20%	25%	33%	0%	
Curveball	Even	9%	41%	23%	8%	25%	50%	.000
	Behind	9%	43%	14%	25%	17%	50%	.175
	Ahead	7%	40%	30%	67%	0%	0%	
Sweeper	Even	5%	38%	8%	0%	0%	100%	1.250
	Behind	5%	88%	50%	0%	50%	50%	.000
	Ahead	1%	0%	0%	50%	0%	0%	_
Splitter	Even	0%	_	_	_	_	_	_
	Behind	0%	_	_	_	_	_	_
	Ahead	27%	40%	21%	28%	7%	52%	.262
Total	Even	46%	53%	27%	18%	4%	58%	.245
	Behind	27%	59%	35%	21%	6%	48%	.371

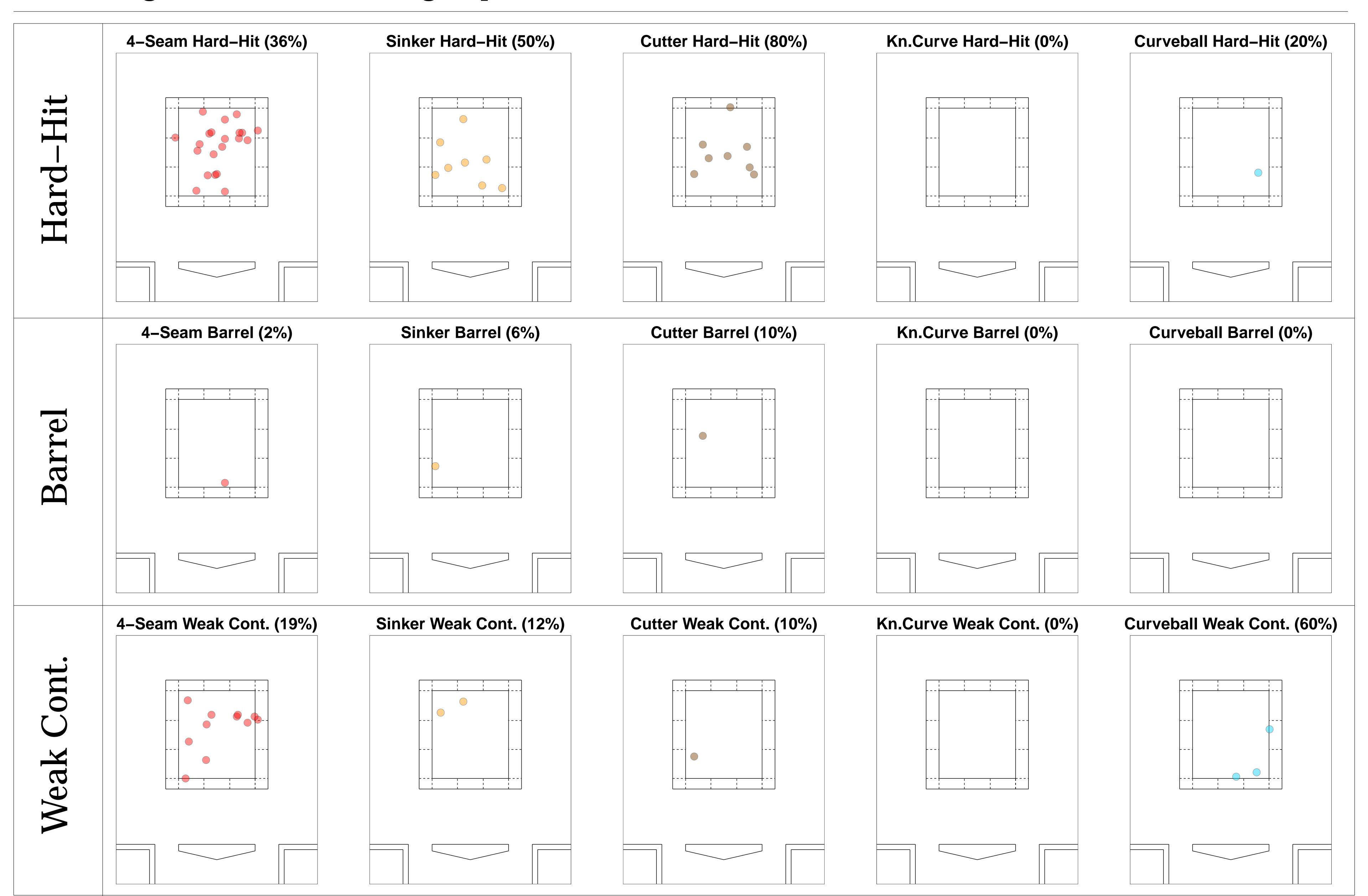
Situational Results vs RHP													
Pitch	Situation	Usage	Zone %	Heart %	Chase %	Whiff %	BIP %	wOBA					
	Ahead	25%	43%	26%	23%	13%	40%	.378					
4-Seam	Even	32%	57%	32%	14%	7%	51%	.238					
	Behind	27%	60%	31%	20%	11%	44%	.494					
	Ahead	20%	54%	26%	46%	9%	57%	.200					
Sinker	Even	25%	61%	38%	14%	7%	52%	.317					
	Behind	32%	63%	40%	25%	12%	54%	.479					
	Ahead	4%	32%	16%	23%	0%	57%	.762					
Cutter	Even	8%	46%	26%	15%	7%	47%	.257					
	Behind	8%	58%	42%	31%	7%	53%	.517					
	Ahead	6%	50%	23%	8%	38%	31%	.378					
Curveball	Even	6%	51%	20%	24%	27%	45%	.333					
	Behind	3%	62%	15%	60%	40%	60%	.812					
	Ahead	11%	24%	11%	26%	28%	28%	.112					
Sweeper	Even	6%	47%	26%	10%	14%	43%	.483					
	Behind	4%	53%	33%	29%	38%	25%	.000					
	Ahead	6%	41%	15%	12%	23%	31%	.286					
Splitter	Even	1%	78%	78%	0%	29%	14%	.233					
	Behind	2%	62%	25%	67%	0%	33%	1.000					
	Ahead	29%	40%	20%	31%	16%	42%	.278					
Total	Even	43%	54%	30%	16%	13%	46%	.295					
	Behind	28%	60%	35%	26%	13%	47%	.497					











	Zack Wheeler													
Pitch	Usage	Zone %	Z-Swing %	Heart %	H-Swing %	O-Zone %	Chase %	Whiff %	Z-Whiff %	H–Whiff %	O-Whiff %			
4-Seam	41%	62%	69%	33%	74%	38%	26%	26%	22%	16%	41%			
Curveball	10%	31%	63%	11%	79%	69%	36%	36%	14%	9%	53%			
Cutter	11%	43%	80%	21%	91%	57%	28%	15%	14%	6%	17%			
Sinker	19%	52%	62%	28%	66%	48%	41%	14%	7%	2%	27%			
Splitter	8%	28%	83%	13%	80%	72%	38%	40%	29%	20%	49%			
Sweeper	11%	48%	64%	22%	68%	52%	29%	30%	25%	19%	40%			
ALL	100%	50%	68%	26%	74%	50%	32%	25%	19%	13%	38%			

	Zack Wheeler vs LHH														
Pitch	Usage	Zone %	Z–Swing %	Heart %	H-Swing %	O-Zone %	Chase %	Whiff %	Z–Whiff %	H–Whiff %	O-Whiff %				
4-Seam	44%	60%	71%	33%	78%	40%	24%	23%	19%	12%	42%				
Curveball	15%	33%	64%	12%	77%	67%	38%	35%	14%	10%	53%				
Cutter	18%	42%	80%	21%	91%	58%	28%	15%	14%	6%	17%				
Sinker	8%	63%	55%	35%	68%	37%	28%	8%	3%	4%	27%				
Splitter	11%	26%	78%	12%	74%	74%	32%	36%	28%	21%	42%				
Sweeper	3%	50%	48%	24%	64%	50%	26%	24%	27%	43%	17%				
ALL	57%	49%	70%	25%	78%	51%	29%	23%	17%	11%	38%				

					Zack Whee	ler vs RHH					
Pitch	Usage	Zone %	Z–Swing %	Heart %	H-Swing %	O-Zone %	Chase %	Whiff %	Z–Whiff %	H–Whiff %	O-Whiff %
4-Seam	37%	65%	65%	33%	68%	35%	30%	30%	28%	24%	38%
Curveball	5%	20%	60%	4%	100%	80%	28%	41%	17%	0%	55%
Cutter	0%	100%	80%	20%	100%	0%		25%	25%	0%	
Sinker	33%	49%	65%	26%	65%	51%	44%	16%	8%	2%	27%
Splitter	3%	35%	100%	16%	100%	65%	62%	50%	31%	17%	67%
Sweeper	22%	48%	67%	22%	69%	52%	30%	31%	25%	14%	44%
ALL	43%	53%	66%	27%	68%	47%	36%	27%	21%	15%	38%

					Zack Wheeler					
Pitch	Strike %	Ball %	O-Strike %	BIP %	Z-BIP %	O-BIP %	Hard-Hit %	Z-H-Hit %	O-H-Hit %	Heart-H-Hit %
4-Seam	70%	30%	70%	26%	29%	15%	42%	45%	20%	48%
Curveball	55%	45%	55%	30%	48%	16%	44%	54%	20%	67%
Cutter	58%	42%	58%	35%	42%	19%	20%	24%	0%	36%
Sinker	70%	30%	70%	43%	51%	29%	30%	33%	19%	42%
Splitter	55%	45%	55%	24%	29%	21%	25%	31%	18%	25%
Sweeper	62%	38%	62%	37%	39%	33%	25%	35%	0%	47%
ALL	65%	35%	65%	32%	36%	21%	33%	39%	14%	45%

				Zacl	k Wheeler vs	LHH				
Pitch	Strike %	Ball %	O-Strike %	BIP %	Z-BIP %	O-BIP %	Hard-Hit %	Z-H-Hit %	O-H-Hit %	Heart-H-Hit %
4-Seam	69%	31%	69%	30%	32%	19%	43%	46%	18%	47%
Curveball	58%	42%	58%	30%	48%	15%	48%	57%	25%	69%
Cutter	57%	43%	57%	35%	43%	19%	20%	24%	0%	36%
Sinker	71%	29%	71%	44%	51%	18%	43%	42%	50%	40%
Splitter	50%	50%	50%	29%	28%	29%	25%	33%	18%	33%
Sweeper	65%	35%	65%	41%	45%	33%	57%	80%	0%	100%
ALL	63%	37%	63%	32%	37%	20%	38%	43%	17%	47%

				Zac	k Wheeler vs	RHH				
Pitch	Strike %	Ball %	O-Strike %	BIP %	Z-BIP %	O-BIP %	Hard-Hit %	Z-H-Hit %	O-H-Hit %	Heart-H-Hit %
4-Seam	72%	28%	72%	21%	24%	10%	42%	44%	25%	48%
Curveball	43%	57%	43%	29%	50%	18%	20%	33%	0%	50%
Cutter	80%	20%	80%	25%	25%		0%	0%	_	
Sinker	70%	30%	70%	43%	51%	31%	26%	30%	17%	42%
Splitter	76%	24%	76%	14%	31%	0%	25%	25%		0%
Sweeper	61%	39%	61%	37%	38%	33%	20%	28%	0%	33%
ALL	68%	32%	68%	31%	35%	23%	28%	33%	12%	42%

					Zack Wheeler					
Pitch	wOBA	xwOBA	xBA	BABIP	ISO	Z-woba	Z-xwOBA	Z-xBA	Z-BABIP	Z-ISO
4-Seam	.331	.315	.306	.147	.173	.331	.321	.317	.201	.233
Curveball	.317	.293	.352	.159	.222	.440	.365	.381	.258	.419
Cutter	.291	.291	.289	.207	.138	.299	.304	.298	.213	.149
Sinker	.230	.249	.272	.149	.068	.229	.229	.277	.184	.087
Splitter	.187	.197	.286	.143	.071	.161	.184	.264	.158	.053
Sweeper	.197	.195	.243	.111	.083	.228	.238	.282	.156	.133

				Zac	k Wheeler vs	LHH				
Pitch	wOBA	xwOBA	xBA	BABIP	ISO	Z-wOBA	Z-xwOBA	Z-xBA	Z-BABIP	Z-ISO
4-Seam	.376	.346	.313	.166	.199	.371	.341	.321	.228	.267
Curveball	.357	.329	.362	.157	.275	.490	.418	.414	.269	.500
Cutter	.296	.290	.287	.211	.140	.305	.303	.296	.217	.152
Sinker	.196	.247	.341	.098	.098	.190	.237	.350	.114	.114
Splitter	.271	.259	.311	.207	.103	.254	.229	.310	.250	.083
Sweeper	.208	.346	.461	.167	.000	.257	.466	.595	.286	.000

					Zack	k Wheeler vs	RHH				
	Pitch	wOBA	xwOBA	xBA	BABIP	ISO	Z-woba	Z-xwOBA	Z-xBA	Z-BABIP	Z-ISO
4	4-Seam	.244	.255	.289	.112	.125	.261	.286	.307	.155	.172
	Curveball	.150	.127	.296	.167	.000	.180	.089	.151	.200	.000
	Cutter	.000	.355	.371	.000	.000	.000	.355	.371	.000	.000
	Sinker	.243	.250	.253	.168	.056	.249	.225	.252	.221	.074
	Splitter	.000	.057	.159	.000	.000	.000	.106	.159	.000	.000
	Sweeper	.194	.165	.206	.100	.100	.222	.196	.228	.132	.158

					Zack Wheeler					
Pitch	O-wOBA	O-xwOBA	O-xBA	O-BABIP	O-ISO	H-wOBA	H-xwOBA	H-xBA	H-BABIP	H-ISO
4-Seam	.331	.302	.212	.028	.042	.431	.402	.329	.244	.333
Curveball	.198	.221	.283	.062	.031	.572	.502	.438	.375	.500
Cutter	.259	.233	.247	.182	.091	.380	.378	.334	.250	.250
Sinker	.232	.296	.256	.067	.022	.265	.274	.317	.200	.145
Splitter	.209	.207	.312	.130	.087	.075	.138	.215	.083	.000
Sweeper	.144	.124	.149	.037	.000	.315	.295	.319	.200	.250

				Zacl	k Wheeler vs	LHH				
Pitch	O-wOBA	O-xwOBA	O-xBA	O-BABIP	O-ISO	H-wOBA	H-xwOBA	H-xBA	H-BABIP	H-ISO
4-Seam	.388	.358	.247	.040	.060	.454	.384	.312	.242	.371
Curveball	.218	.236	.225	.040	.040	.589	.557	.489	.357	.571
Cutter	.259	.233	.247	.182	.091	.380	.378	.334	.250	.250
Sinker	.233	.306	.256	.000	.000	.237	.345	.474	.125	.188
Splitter	.282	.280	.312	.176	.118	.100	.183	.286	.111	.000
Sweeper	.140	.180	.127	.000	.000	.450	.571	.672	.500	.000

				Zacl	Wheeler vs	RHH				
Pitch	O-wOBA	O-xwOBA	O-xBA	O-BABIP	O-ISO	H-wOBA	H-xwOBA	H-xBA	H-BABIP	H-ISO
4-Seam	.200	.175	.114	.000	.000	.380	.441	.368	.250	.250
Curveball	.129	.158	.513	.143	.000	.450	.115	.109	.500	.000
Cutter	_			_						
Sinker	.232	.295	.256	.077	.026	.277	.244	.269	.231	.128
Splitter	.000	.000		.000	.000	.000	.003	.005	.000	.000
Sweeper	.145	.111	.153	.045	.000	.281	.226	.231	.125	.312

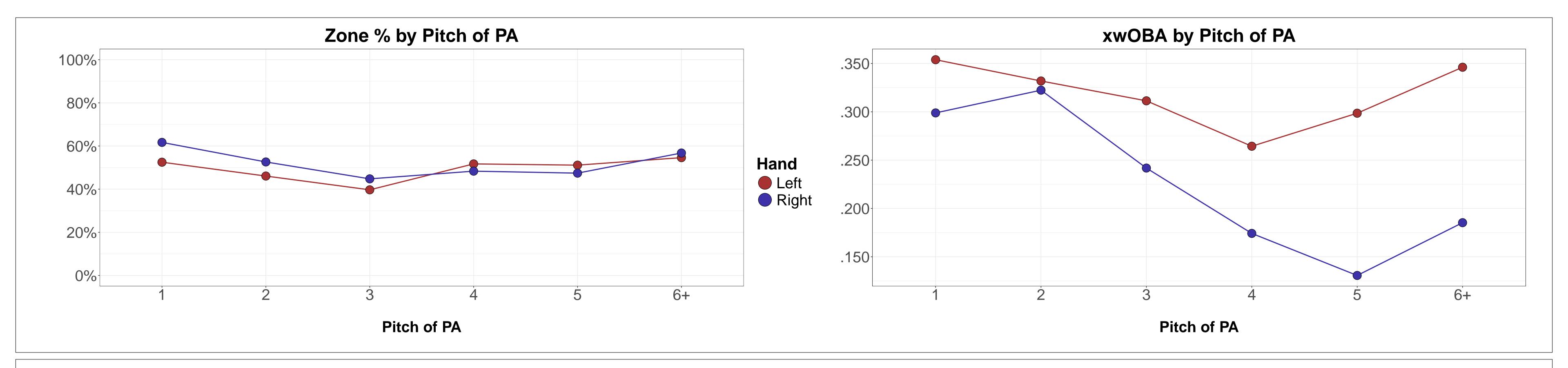
								<u> </u>																	
					Usag	е Ву С	ount vs	LHH										Usag	е Ву С	ount vs	RHH				
45-	53.4%	34.3%	40.2%	41.8%	39.8%	31.4%	56.0%	48.3%	37.6%	92.9%	52.0%	52.6%	4S-	35.0%	30.0%	42.9%	38.8%	21.9%	39.1%	55.6%	37.2%	39.8%	100.0%	47.1%	38.7%
SI-	3.5%	1.7%	5.4%	5.2%	6.8%	14.9%	20.0%	8.0%	15.8%	7.1%	12.0%	11.3%	SI-	40.5%	36.7%	11.2%	31.2%	47.9%	21.7%	37.0%	41.9%	20.4%	0.0%	47.1%	33.9%
FC-	21.4%	24.4%	9.8%	23.9%	18.0%	14.0%	14.0%	20.7%	15.0%	0.0%	24.0%	10.3%	FC-	0.0%	0.7%	0.0%	1.2%	1.0%	0.0%	0.0%	0.0%	1.1%	0.0%	0.0%	1.6%
CB-	12.0%	14.0%	26.1%	17.9%	13.5%	21.5%	6.0%	12.6%	15.0%	0.0%	12.0%	14.4%	CB-	0.7%	4.7%	10.2%	1.2%	5.2%	9.6%	0.0%	2.3%	11.8%	0.0%	0.0%	1.6%
SW-	5.3%	4.7%	1.1%	2.2%	2.3%	2.5%	0.0%	3.4%	1.5%	0.0%	0.0%	5.2%	SW-	23.7%	26.0%	26.5%	26.2%	16.7%	24.3%	7.4%	18.6%	18.3%	0.0%	5.9%	19.4%
SP-	4.4%	20.9%	17.4%	9.0%	19.5%	15.7%	4.0%	6.9%	15.0%	0.0%	0.0%	6.2%	SP-	0.0%	2.0%	9.2%	1.2%	7.3%	5.2%	0.0%	0.0%	8.6%	0.0%	0.0%	4.8%
	0-0	0-1	0-2	1-0	1-1	1–2	2-0	2-1	2-2	3-0	3-1	3-2		0-0	0-1	0-2	1-0	1-1	1-2	2-0	2–1	2-2	3-0	3–1	3–2
					Zone	% By C	count v	s LHH										Zone	% By C	ount v	s RHH				
4S-	64.3%	66.1%	27.0%	53.6%	60.4%	42.1%	75.0%	73.8%	50.0%	53.8%	69.2%	68.6%	4S-	79.2%	62.2%	42.9%	74.2%	47.6%	48.9%	66.7%	75.0%	48.6%	77.8%	100.0%	79.2%
SI-	58.3%	66.7%	60.0%	57.1%	55.6%	66.7%	60.0%	28.6%	81.0%	100.0%	66.7%	54.5%	SI-	48.6%	52.7%	27.3%	56.0%	50.0%	44.0%	20.0%	50.0%	42.1%	0.0%	50.0%	61.9%
FC-	32.9%	38.1%	44.4%	50.0%	41.7%	29.4%	14.3%	77.8%	30.0%	0.0%	83.3%	80.0%	FC-	0.0%	100.0%	0.0%	100.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
CB-	34.1%	41.7%	8.3%	25.0%	33.3%	23.1%	0.0%	45.5%	45.0%	0.0%	100.0%	57.1%	CB-	0.0%	28.6%	20.0%	0.0%	40.0%	0.0%	0.0%	0.0%	27.3%	0.0%	0.0%	100.0%
SW-	61.1%	50.0%	0.0%	100.0%	33.3%	0.0%	0.0%	66.7%	50.0%	0.0%	0.0%	20.0%	SW-	60.0%	38.5%	26.9%	38.1%	68.8%	35.7%	100.0%	62.5%	41.2%	0.0%	100.0%	66.7%
SP-	40.0%	22.2%	12.5%	25.0%	23.1%	36.8%	0.0%	66.7%	25.0%	0.0%	0.0%	0.0%	SP-	0.0%	0.0%	44.4%	0.0%	42.9%	33.3%	0.0%	0.0%	12.5%	0.0%	0.0%	100.0%
	0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3-1	3-2		0-0	0-1	0-2	1-0	1-1	1-2	2-0	2–1	2-2	3-0	3-1	3–2
					O–Zone	e % By	Count	vs LHF	•									O–Zone	e % By	Count	vs RHF	-			
45-	35.7%	33.9%	73.0%	46.4%	39.6%	57.9%	25.0%	26.2%	50.0%	46.2%	30.8%	31.4%	4S-	20.8%	37.8%	57.1%	25.8%	52.4%	51.1%	33.3%	25.0%	51.4%	22.2%	0.0%	20.8%
SI-	41.7%	33.3%	40.0%	42.9%	44.4%	33.3%	40.0%	71.4%	19.0%	0.0%	33.3%	45.5%	SI-	51.4%	47.3%	72.7%	44.0%	50.0%	56.0%	80.0%	50.0%	57.9%	0.0%	50.0%	38.1%
FC-	67.1%	61.9%	55.6%	50.0%	58.3%	70.6%	85.7%	22.2%	70.0%	0.0%	16.7%	20.0%	FC-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CB-	65.9%	58.3%	91.7%	75.0%	66.7%	76.9%	100.0%	54.5%	55.0%	0.0%	0.0%	42.9%	CB-	100.0%	71.4%	80.0%	100.0%	60.0%	100.0%	0.0%	100.0%	72.7%	0.0%	0.0%	0.0%
SW-	38.9%	50.0%	100.0%	0.0%	66.7%	100.0%	0.0%	33.3%	50.0%	0.0%	0.0%	80.0%	SW-	40.0%	61.5%	73.1%	61.9%	31.2%	64.3%	0.0%	37.5%	58.8%	0.0%	0.0%	33.3%
SP-	60.0%	77.8%	87.5%	75.0%	76.9%	63.2%	100.0%	33.3%	75.0%	0.0%	0.0%	100.0%	SP-	0.0%	100.0%	55.6%	100.0%	57.1%	66.7%	0.0%	0.0%	87.5%	0.0%	0.0%	0.0%

0-0 0-1 0-2 1-0 1-1 1-2 2-0 2-1 2-2 3-0 3-1 3-2 0-0 0-1 0-2 1-0 1-1 1-2 2-0 2-1 2-2 3-0 3-1 3-2

								<u> </u>																	
					Heart	% By C	Count v	s LHH										Heart	% By C	Count v	s RHH				
4S-	35.7%	16.9%	8.1%	35.7%	39.6%	23.7%	28.6%	47.6%	26.0%	46.2%	46.2%	47.1%	4S-	39.6%	35.6%	14.3%	45.2%	38.1%	15.6%	40.0%	25.0%	18.9%	77.8%	50.0%	54.2%
SI-	25.0%	66.7%	40.0%	42.9%	44.4%	38.9%	40.0%	0.0%	38.1%	0.0%	0.0%	36.4%	SI-	27.0%	29.1%	18.2%	28.0%	26.1%	24.0%	10.0%	11.1%	26.3%	0.0%	12.5%	42.9%
FC-	16.4%	19.0%	22.2%	15.6%	12.5%	17.6%	14.3%	44.4%	20.0%	0.0%	66.7%	50.0%	FC-	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CB-	17.1%	16.7%	4.2%	0.0%	5.6%	3.8%	0.0%	36.4%	15.0%	0.0%	33.3%	28.6%	CB-	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.1%	0.0%	0.0%	0.0%
SW-	22.2%	25.0%	0.0%	100.0%	33.3%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	SW-	29.2%	10.3%	15.4%	19.0%	25.0%	17.9%	50.0%	12.5%	23.5%	0.0%	100.0%	41.7%
SP-	13.3%	8.3%	12.5%	16.7%	11.5%	10.5%	0.0%	33.3%	15.0%	0.0%	0.0%	0.0%	SP-	0.0%	0.0%	11.1%	0.0%	28.6%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%
	0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3-1	3-2		0-0	0-1	0-2	1-0	1-1	1-2	2-0	2-1	2-2	3-0	3-1	3-2
					Swing	% By (Count v	/s LHH					1					Swing	% By (Count v	s RHH				
45-	37.4%	52.5%	45.9%	53.6%	50.9%	68.4%	67.9%	66.7%	56.0%	0.0%	61.5%	78.4%	4S-	45.8%	44.4%	59.5%	41.9%	42.9%	64.4%	46.7%	56.2%	73.0%	0.0%	62.5%	75.0%
SI-	33.3%	33.3%	20.0%	71.4%	44.4%	38.9%	50.0%	42.9%	42.9%	0.0%	100.0%	54.5%	SI-	45.9%	63.6%	18.2%	56.0%	69.6%	32.0%	40.0%	66.7%	52.6%	0.0%	62.5%	71.4%
FC-	34.2%	57.1%	66.7%	53.1%	41.7%	41.2%	42.9%	94.4%	30.0%	0.0%	83.3%	90.0%	FC-	0.0%	100.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
CB-	26.8%	50.0%	54.2%	25.0%	44.4%	50.0%	66.7%	72.7%	75.0%	0.0%	33.3%	57.1%	CB-	0.0%	42.9%	40.0%	0.0%	40.0%	36.4%	0.0%	0.0%	36.4%	0.0%	0.0%	0.0%
SW-	22.2%	62.5%	0.0%	33.3%	33.3%	33.3%	0.0%	33.3%	100.0%	0.0%	0.0%	40.0%	SW-	38.5%	35.9%	38.5%	9.5%	68.8%	71.4%	50.0%	75.0%	76.5%	0.0%	100.0%	75.0%
SP-	13.3%	41.7%	25.0%	41.7%	46.2%	57.9%	100.0%	83.3%	50.0%	0.0%	0.0%	66.7%	SP-	0.0%	66.7%	77.8%	100.0%	85.7%	66.7%	0.0%	0.0%	62.5%	0.0%	0.0%	100.0%
	0-0	0-1	0-2	1-0	1-1	1–2	2-0	2-1	2-2	3-0	3–1	3–2		0-0	0-1	0-2	1-0	1-1	1–2	2-0	2–1	2-2	3-0	3-1	3–2
					Z–Swin	g % By	Count	vs LHI	-								Z	Z–Swin	g % By	Count	vs RHI	H			
45-	50.4%	66.7%	80.0%	73.3%	84.4%	87.5%	81.0%	87.1%	84.0%	0.0%	88.9%	97.1%	4S-	50.0%	64.3%	83.3%	52.2%	70.0%	95.5%	60.0%	66.7%	94.4%	0.0%	62.5%	89.5%
SI-	28.6%	50.0%	33.3%	75.0%	40.0%	50.0%	83.3%	100.0%	52.9%	0.0%	100.0%	66.7%	SI-	53.7%	65.5%	66.7%	57.1%	87.0%	54.5%	100.0%	66.7%	62.5%	0.0%	25.0%	92.3%
FC-	58.3%	93.8%	75.0%	81.2%	70.0%	80.0%	100.0%	92.9%	83.3%	0.0%	80.0%	100.0%	FC-	0.0%	100.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
CB-	35.7%	60.0%	100.0%	33.3%	66.7%	83.3%	0.0%	80.0%	88.9%	0.0%	33.3%	87.5%	CB-	0.0%	50.0%	100.0%	0.0%	50.0%	0.0%	0.0%	0.0%	66.7%	0.0%	0.0%	0.0%
SW-	27.3%	100.0%	0.0%	33.3%	100.0%	0.0%	0.0%	50.0%	100.0%	0.0%	0.0%	0.0%	SW-	48.7%	73.3%	85.7%	25.0%	90.9%	90.0%	50.0%	100.0%	85.7%	0.0%	100.0%	75.0%
SP-	33.3%	75.0%	100.0%	100.0%	83.3%	85.7%	0.0%	100.0%	80.0%	0.0%	0.0%	0.0%	SP-	0.0%	0.0%	100.0%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%

0-0 0-1 0-2 1-0 1-1 1-2 2-0 2-1 2-2 3-0 3-1 3-2 0-0 0-1 0-2 1-0 1-1 1-2 2-0 2-1 2-2 3-0 3-1 3-2

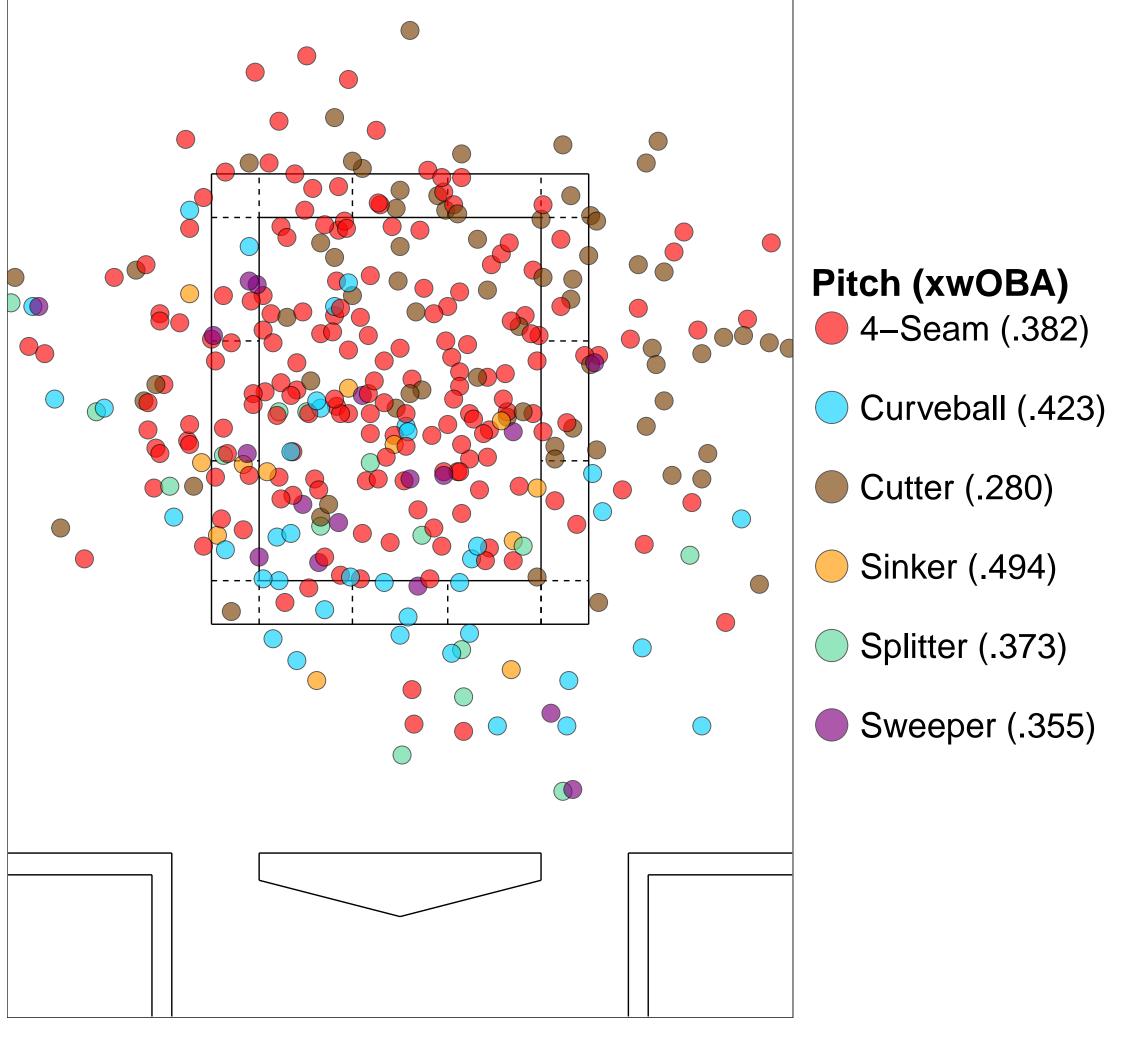
		V 11C					ACII	<u> </u>	cpo																
					Chase	% By (Count v	/s LHH										Chase	% By (Count v	vs RHH				
4S-	13.8%	25.0%	33.3%	30.8%	0.0%	54.5%	28.6%	9.1%	28.0%	0.0%	0.0%	37.5%	4S-	30.0%	11.8%	41.7%	12.5%	18.2%	34.8%	20.0%	25.0%	52.6%	0.0%	0.0%	20.0%
SI-	40.0%	0.0%	0.0%	66.7%	50.0%	16.7%	0.0%	20.0%	0.0%	0.0%	100.0%	40.0%	SI-	38.6%	61.5%	0.0%	54.5%	52.2%	14.3%	25.0%	66.7%	45.5%	0.0%	100.0%	37.5%
FC-	22.4%	34.6%	60.0%	25.0%	21.4%	25.0%	33.3%	100.0%	7.1%	0.0%	100.0%	50.0%	FC-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CB-	22.2%	42.9%	50.0%	22.2%	33.3%	40.0%	66.7%	66.7%	63.6%	0.0%	0.0%	16.7%	CB-	0.0%	40.0%	25.0%	0.0%	33.3%	36.4%	0.0%	0.0%	25.0%	0.0%	0.0%	0.0%
SW-	14.3%	25.0%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	100.0%	0.0%	0.0%	50.0%	SW-	23.1%	12.5%	21.1%	0.0%	20.0%	61.1%	0.0%	33.3%	70.0%	0.0%	0.0%	75.0%
SP.	0.0%		1	22.2%	35.0%	41.7%						66.7%	SP.	0.0%	,			75.0%			0.0%		,		
	0-0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2		0-0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2
					Whiff	% By C	count v	s LHH										Whiff	% By C	ount v	s RHH				
4S-	29.4%	38.7%	29.4%	10.0%	14.8%	46.2%	26.3%	21.4%	14.3%	0.0%	12.5%	5.0%	4S-	34.1%	50.0%	12.0%	46.2%	44.4%	24.1%	14.3%	22.2%	33.3%	0.0%	20.0%	22.2%
SI-	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	20.0%	33.3%	0.0%	0.0%	33.3%	0.0%	SI-	19.6%	14.3%	0.0%	14.3%	9.4%	37.5%	0.0%	25.0%	20.0%	0.0%	40.0%	0.0%
FC-	12.0%	20.8%	16.7%	11.8%	0.0%	42.9%	33.3%	11.8%	16.7%	0.0%	0.0%	11.1%	FC-	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CB-	63.6%	16.7%	38.5%	66.7%	62.5%	30.8%	50.0%	37.5%	13.3%	0.0%	0.0%	12.5%	CB-	0.0%	66.7%	25.0%	0.0%	50.0%	25.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%
SW-	25.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	50.0%	SW-	40.0%	21.4%	20.0%	0.0%	27.3%	30.0%	0.0%	66.7%	15.4%	0.0%	100.0%	44.4%
SP-	0.0%	60.0%	25.0%	20.0%	50.0%	18.2%	100.0%		10.0%	0.0%			SP-	0.0%	100.0%	42.9%	100.0%	33.3%			0.0%			0.0%	
	0-0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2		0-0	0–1	0–2	1–0	1–1	1–2	2–0	2–1	2–2	3–0	3–1	3–2
					In Play	/ % By (Count	vs LHH										In Play	% By (Count	vs RHH				
4S-	22.1%	25.8%	35.3%	30.0%	40.7%	15.4%	21.1%	28.6%	42.9%	0.0%	62.5%	35.0%	4S-	20.5%	20.0%	28.0%	7.7%	22.2%	17.2%	42.9%	33.3%	11.1%	0.0%	40.0%	22.2%
SI-	50.0%	0.0%	0.0%	20.0%	50.0%	42.9%	60.0%	33.3%	55.6%	0.0%	66.7%	33.3%	SI-	52.9%	22.9%	100.0%	35.7%	53.1%	37.5%	0.0%	41.7%	50.0%	0.0%	40.0%	40.0%
FC-	48.0%	33.3%	66.7%	41.2%	30.0%	14.3%	0.0%	29.4%	16.7%	0.0%	40.0%	22.2%	FC-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
CB-	18.2%	33.3%	23.1%	0.0%	25.0%	46.2%	0.0%	37.5%	46.7%	0.0%	0.0%	25.0%	CB-	0.0%	33.3%	25.0%	0.0%	50.0%	25.0%	0.0%	0.0%	25.0%	0.0%	0.0%	0.0%
SW-	50.0%	60.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	SW-	24.0%	42.9%	60.0%	100.0%	27.3%	50.0%	0.0%	16.7%	30.8%	0.0%	0.0%	33.3%
SP-	50.0%	20.0%	50.0%							<u>.</u>	·	75.0%	SP-						·		0.0%	·	·		
	0-0	0-1	0-2	1-0	1-1	1-2	2-0	2–1	2–2	3-0	3–1	3–2		0-0	0-1	0-2	1-0	1-1	1-2	2-0	2–1	2-2	3-0	3–1	3–2



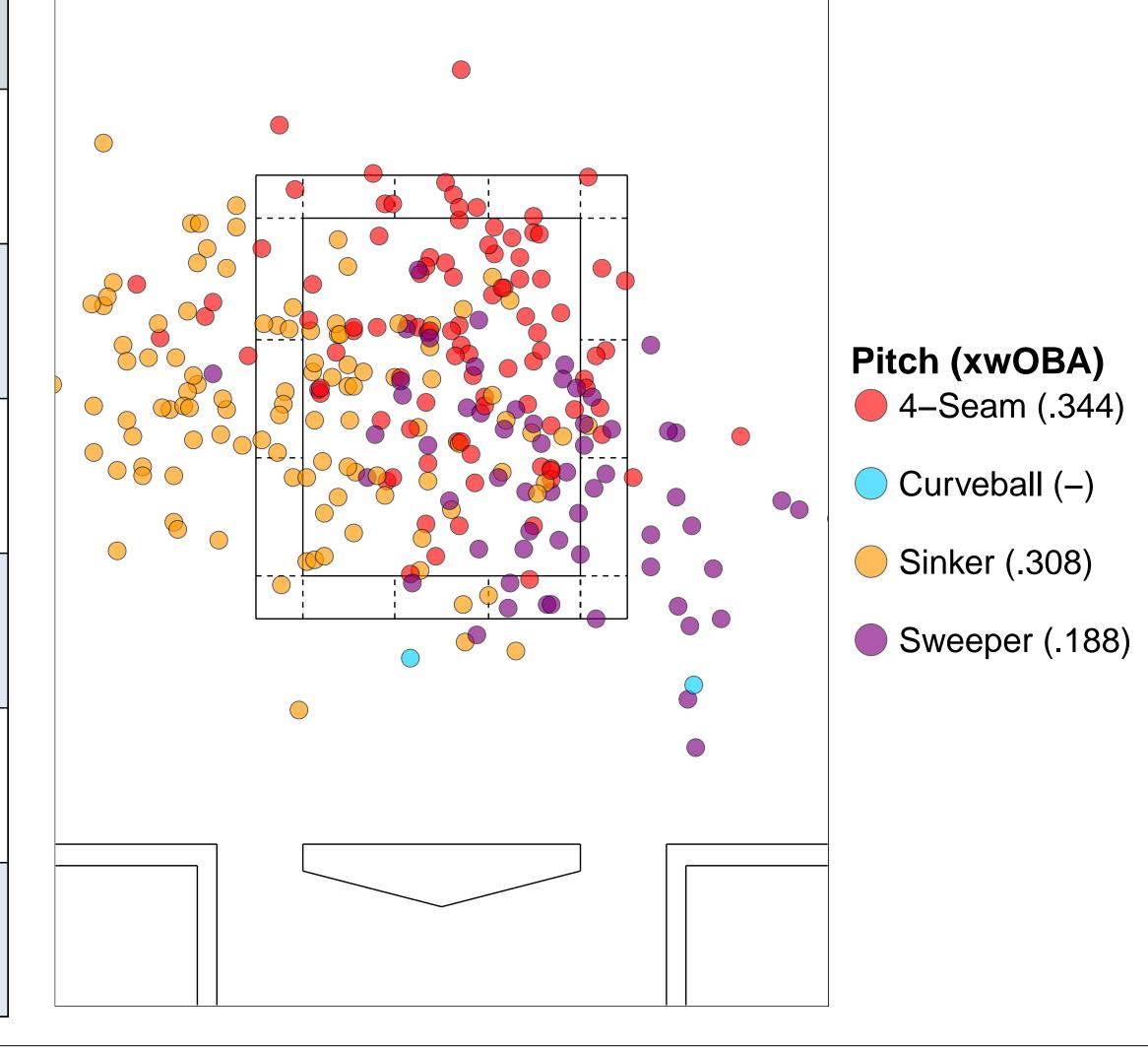
	First Pitch Usage vs LHH									
Most	After	After	After	After	Men in					
Frequent	Strikeout	Walk	Field Out	Hit	Scoring					
4-Seam	4-Seam	4-Seam	4-Seam	4-Seam	4-Seam					
(53.4%)	(54.4%)	(42.9%)	(51.8%)	(48.1%)	(42.9%)					

	First Pitch Usage vs RHH									
Most	After	After	After	After	Men in					
Frequent	Strikeout	Walk	Field Out	Hit	Scoring					
Sinker	Sinker	Sinker	4-Seam	Sinker	Sinker					
(40.5%)	(41.1%)	(59.1%)	(40.0%)	(38.5%)	(44.6%)					

Pitch	Zone	Heart	Swing	BIP
4S	64%	36%	37%	22%
SI	58%	25%	33%	50%
SW	61%	22%	22%	50%
СТ	33%	16%	34%	48%
CU	34%	17%	27%	18%
SP	40%	13%	13%	50%



Pitch	Zone	Heart	Swing	BIP
4 S	79%	40%	46%	20%
SI	49%	27%	46%	53%
SW	60%	29%	38%	24%
СТ			_	
CU	0%	0%	0%	
SP				<u> </u>



	Top 5 Two Pitch Sequences vs LHH										
Sequence	Usage	Swing %	Whiff %	Chase %	BIP %						
4S-4S	17.2%	53.5%	23.0%	22.1%	27.9%						
4S-CT	9.0%	57.1%	17.6%	30.4%	39.7%						
CT-4S	8.0%	47.2%	16.0%	23.4%	48.0%						
CU-4S	6.6%	54.5%	20.8%	29.4%	35.4%						
4S-CU	6.2%	56.1%	23.9%	45.3%	30.4%						

	Top 5 Two Pitch Sequences vs RHH										
Sequence	Usage	Swing %	Whiff %	Chase %	BIP %						
SI-4S	13.3%	47.7%	29.0%	14.3%	25.8%						
4S-4S	13.1%	55.5%	32.4%	29.5%	19.7%						
4S-SI	10.4%	59.8%	18.0%	46.2%	41.0%						
SW-4S	9.0%	54.5%	27.1%	25.0%	10.4%						
4S-SW	7.8%	47.4%	30.6%	27.9%	41.7%						

			Situation	al Result	s vs LHH			
Pitch	Situation	Usage	Zone %	Heart %	Chase %	Whiff %	BIP %	wOBA
	Ahead	35%	49%	16%	38%	39%	24%	.310
4-Seam	Even	47%	61%	35%	14%	23%	31%	.456
	Behind	50%	66%	41%	24%	14%	32%	.357
	Ahead	7%	65%	42%	11%	0%	33%	.000
Sinker	Even	7%	69%	36%	31%	0%	53%	.134
	Behind	10%	54%	28%	33%	18%	41%	.421
	Ahead	18%	37%	19%	35%	24%	35%	.135
Cutter	Even	19%	34%	16%	19%	10%	39%	.450
	Behind	18%	60%	32%	41%	12%	31%	.321
	Ahead	19%	24%	8%	45%	29%	34%	.404
Curveball	Even	13%	37%	14%	34%	41%	32%	.089
	Behind	14%	40%	16%	33%	36%	20%	.558
	Ahead	3%	33%	17%	25%	0%	50%	.300
Sweeper	Even	4%	57%	26%	20%	29%	43%	.225
	Behind	3%	55%	27%	40%	50%	25%	.140
	Ahead	18%	24%	10%	30%	40%	30%	.165
Splitter	Even	10%	28%	13%	30%	29%	29%	.339
	Behind	6%	27%	15%	47%	38%	25%	.379
	Ahead	28%	38%	16%	36%	31%	30%	.250
Total	Even	43%	50%	26%	22%	22%	34%	.343
	Behind	29%	57%	33%	33%	18%	31%	.373

			Situation	al Result	s vs RHH			
Pitch	Situation	Usage	Zone %	Heart %	Chase %	Whiff %	BIP %	wOBA
	Ahead	36%	52%	22%	31%	27%	22%	.072
4-Seam	Even	33%	68%	34%	36%	35%	18%	.271
	Behind	43%	77%	47%	17%	27%	25%	.419
	Ahead	25%	47%	26%	38%	18%	29%	.039
Sinker	Even	38%	48%	27%	43%	16%	53%	.268
	Behind	34%	51%	24%	52%	14%	36%	.361
	Ahead	0%	100%	100%	_	0%	0%	_
Cutter	Even	0%	100%	0%	_	0%	100%	.000
	Behind	1%	100%	0%	_	50%	0%	_
	Ahead	8%	14%	4%	33%	36%	27%	.150
Curveball	Even	4%	28%	6%	23%	50%	33%	.180
	Behind	1%	33%	0%	0%	_		.000
	Ahead	26%	34%	14%	30%	25%	50%	.098
Sweeper	Even	21%	58%	28%	34%	31%	27%	.169
	Behind	18%	55%	27%	20%	47%	32%	.454
	Ahead	5%	33%	11%	58%	54%	15%	.000
Splitter	Even	3%	27%	13%	64%	45%	9%	.000
	Behind	2%	75%	50%	100%	50%	25%	.000
	Ahead	34%	42%	19%	34%	27%	30%	.072
Total	Even	44%	56%	28%	39%	28%	33%	.237
	Behind	22%	63%	34%	34%	26%	30%	.385

