

index	type	cutpoint	binsize	bandwidth	θ	z
AVG	rate	.300	.001	.019	.499 (0.067)	7.442***
OBP	rate	.350	.001	.024	.139 (0.049)	2.854**
HR	cumulative	20	1	5.309	.259 (.075)	3.465***
RBI	cumulative	100	4	15.423	.311 (0.094)	3.295***
SB	cumulative	30	1	10.000	.529 (.124)	4.274***
		40	1	11.505	.481 (.174)	2.764**
PA	cumulative	500	1	0.003	.160 (.063)	2.515*
H	cumulative	200	1	18.922	.453 (.178)	2.547 *

***: $p < 0.1\%$, **: $p < 1\%$, *: $p < 5\%$.

Bandwidth is optimized following the method of Mcrary(2007).

Table 1: Test for Manipulation :leastPA = 200

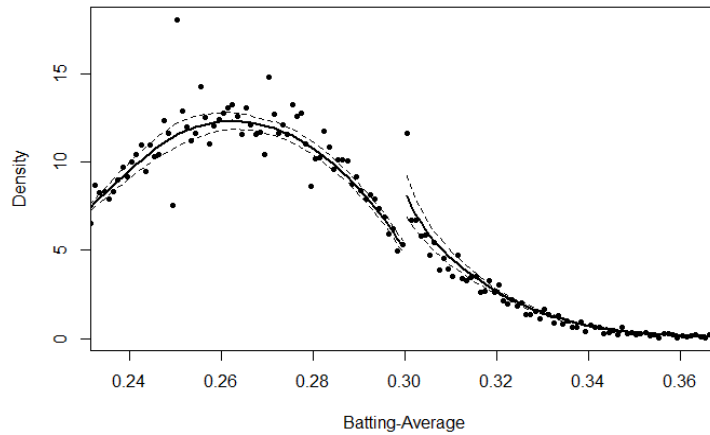


Figure 1: Discontinuity in AVG (at least 200PA)

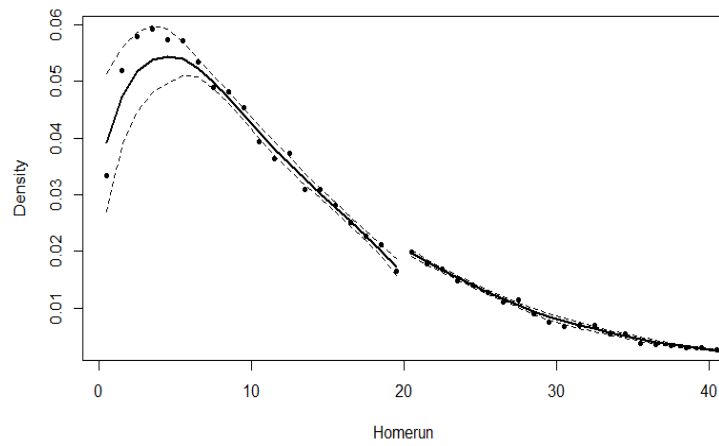


Figure 3: HR (at least 200PA)

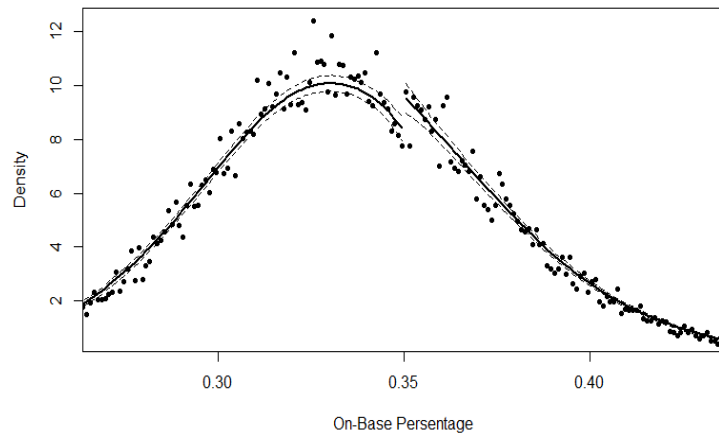


Figure 2: OBP (at least 200PA)

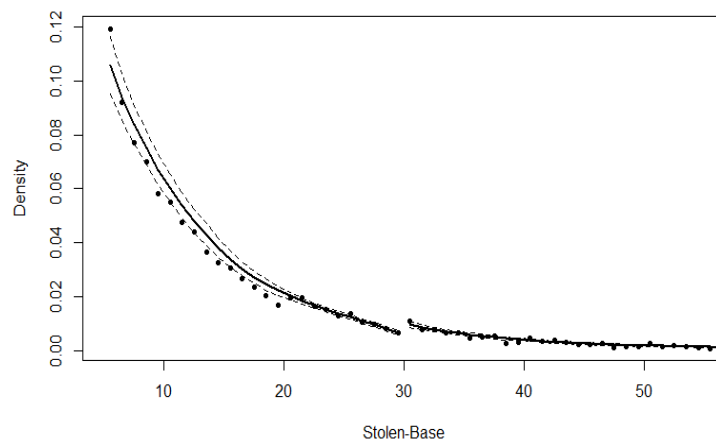


Figure 4: SB: cutpoint = 30 (at least 5SB)

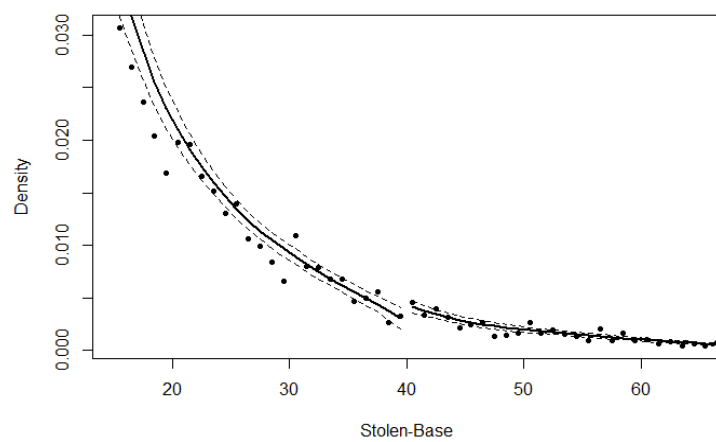


Figure 5: SB: cutpoint = 40 (at least 5SB)

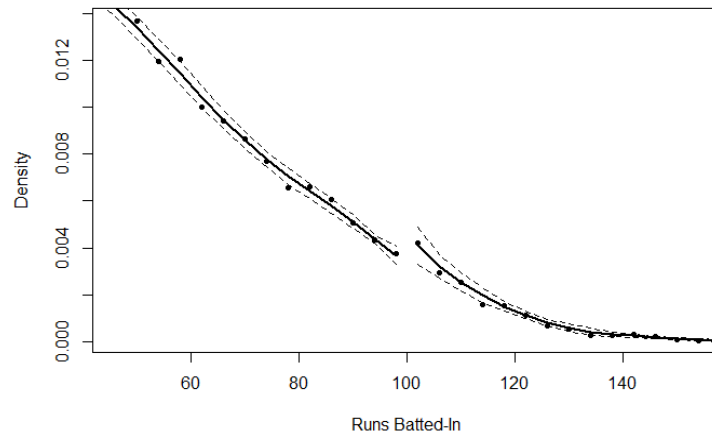


Figure 6: RBI (at least 200PA)

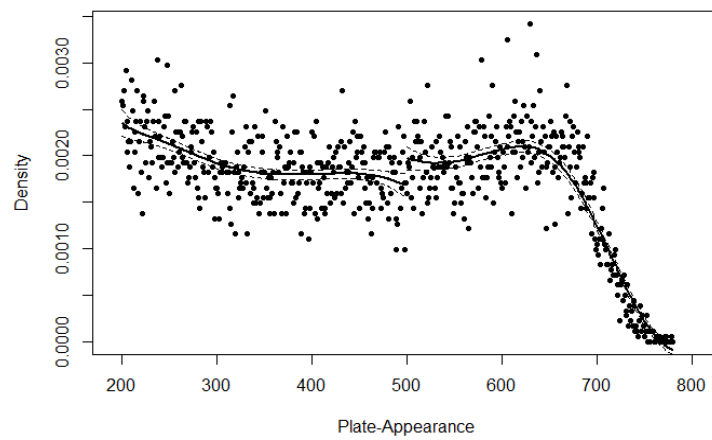


Figure 7: PA (at least 200PA)

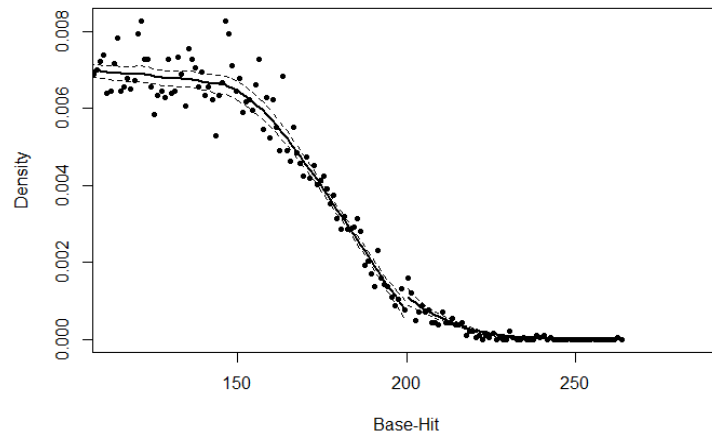


Figure 8: H (at least 200PA)