Georgia Attorney General Contest, 2018

Official results:

CHRIS CARR (I) (REP) 51.30% 1,981,563 CHARLIE BAILEY (DEM) 48.70% 1,880,807

margin: 2.6%

ballots cast: 3,949,905

votes cast in Fulton County: 415,524

voting method	${\rm detection}\ {\rm rate}^1$	$hack rate^2$	do-over rate^3	Fulton share 4
all BMD	6.6%	0.014	< 0.001	374
	20%	0.016	0.003	1325
	76%	0.053	0.040	16,782
50% BMD	6.6%	0.027	0.002	374
	20%	0.032	0.006	1325
	76%	0.106	0.081	16,782
5% BMD	6.6%	0.273	0.018	374
	20%	0.319	0.064	1325
	76%	1	0.808	16,782

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\begin{aligned} & \text{smaller margin} -> \text{smaller rates} \\ & \text{smaller contest} -> \text{smaller rates} \end{aligned}
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more undervotes -> smaller rates

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for b in [1, 2, 20]:
    cc = 1981563
    cb = 1880807
    bb = 3949905
    fv = 415524

M = ((cc-cb)/2)/(bb/b)
    for r in [.066, .2, .76]:
        N = M/(1-r)
        print(b, r, N, N*r, N*r*fv/b)
```

PLAINTIFF DEMONSTRATIVE EXHIBIT

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1:17-cv-02989

 $^{^{1}}$ Rate at which voters who use BMDs notice print out errors and request a new chance to mark a ballot.

 $^{^2}$ Error rate in BMD printouts sufficient to change the reported winner.

³Among voters who use BMDs, the fraction who request a fresh chance to mark a ballot.

⁴If the errors were spread evenly across counties, the number of do-over requests in Fulton County.