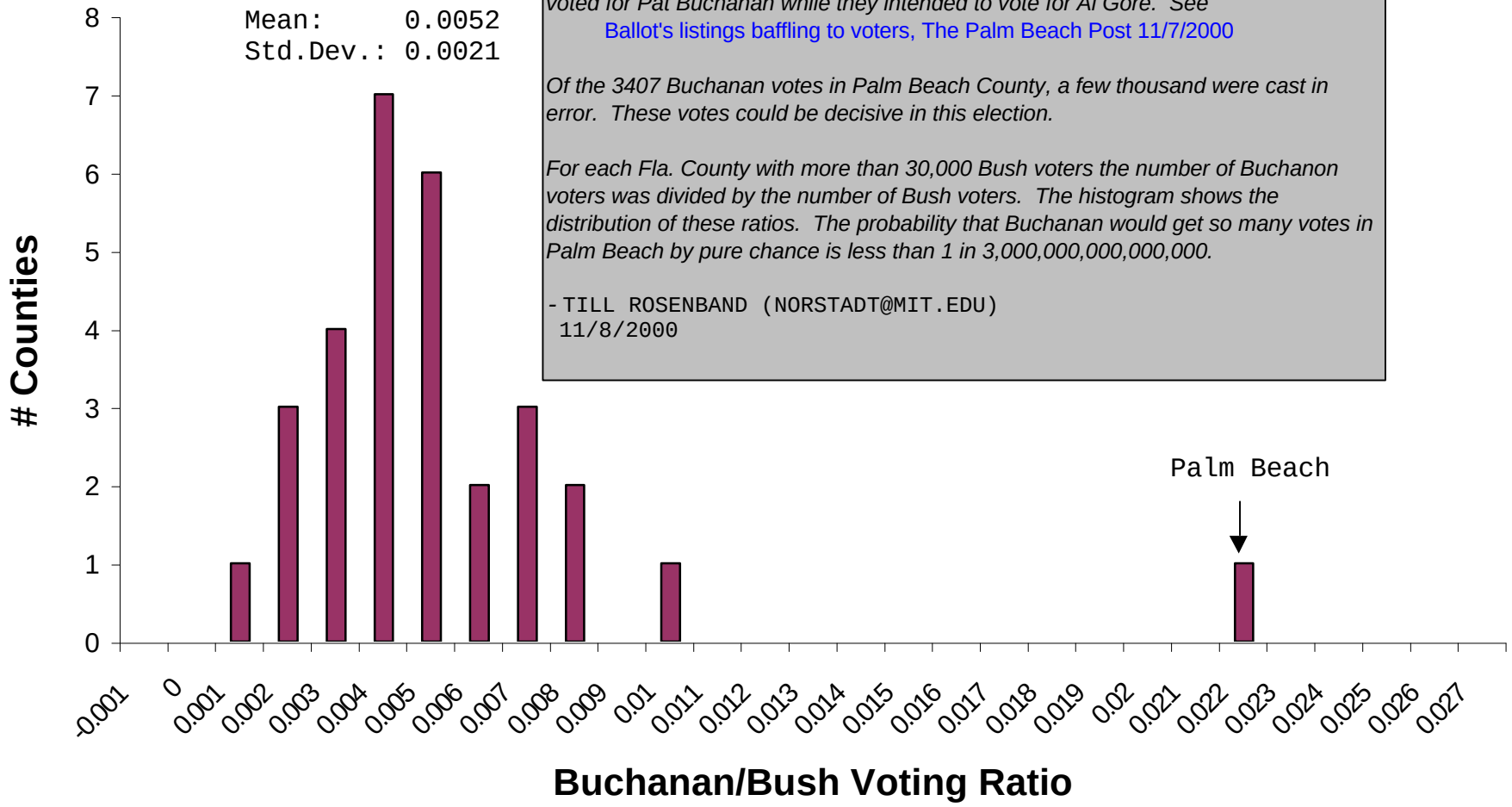
Buchanan/Bush Voting Irregularity In Palm Beach County, Florida

It has been reported that some voters in Palm Beach County, Florida mistakenly voted for Pat Buchanan while they intended to vote for Al Gore. See
Ballot's listings baffling to voters, The Palm Beach Post 11/7/2000

Of the 3407 Buchanan votes in Palm Beach County, a few thousand were cast in error. These votes could be decisive in this election.

For each Fla. County with more than 30,000 Bush voters the number of Buchanon voters was divided by the number of Bush voters. The histogram shows the distribution of these ratios. The probability that Buchanan would get so many votes in Palm Beach by pure chance is less than 1 in 3,000,000,000,000,000.

-TILL ROSENBAND (NORSTADT@MIT.EDU)
11/8/2000



County	Bush	Buchanan	Ratio
Alachua	34,062	262	0.00769
Bay	38,637	248	0.00642
Brevard	115,185	570	0.00495
Broward	177,279	789	0.00445
Charlotte	35,419	182	0.00514
Clay	41,745	186	0.00446
Collier	60,426	122	0.00202
Dade	289,456	561	0.00194
Duval	152,082	650	0.00427
Escambia	73,029	504	0.00690
Hernando	30,646	242	0.00790
Hillsborough	180,713	840	0.00465
Lake	49,963	289	0.00578
Lee	106,123	306	0.00288
Leon	39,053	282	0.00722
Manatee	57,948	272	0.00469
Marion	55,135	563	0.01021
Martin	33,864	108	0.00319
Okaloosa	52,043	267	0.00513
Orange	134,476	446	0.00332
Pasco	68,581	570	0.00831
Pinellas	184,884	1,010	0.00546
Polk	90,101	538	0.00597
Santa Rosa	36,248	311	0.00858
Sarasota	83,100	305	0.00367
Seminole	75,293	194	0.00258
St. Johns	39,497	229	0.00580
St. Lucie	34,705	124	0.00357
Volusia	82,214	396	0.00482
		Average μ	0.005153
		Std.Dev. σ	0.002033
Palm Beach	152,846	3,407	0.02229
		p	0.02229

$$\text{Probability} = 1 - erf\left(\frac{p-m}{\sqrt{2}s}\right) = 3 \cdot 10^{-16}$$

Bin	*Frequency*
-0.001	0
0	0
0.001	1
0.002	3
0.003	4
0.004	7
0.005	6
0.006	2
0.007	3
0.008	2
0.009	0
0.01	1
0.011	0
0.012	0
0.013	0
0.014	0
0.015	0
0.016	0
0.017	0
0.018	0
0.019	0
0.02	0
0.021	0
0.022	1
0.023	0
0.024	0
0.025	0
0.026	0
0.027	0
More	0

data source: www.cnn.com