

Instant Runoff Mayoral Vote Simulation — Cambridge 2005

Candidate	1st	2 (Reeves)		3 (Toomey)		4 (Murphy)		5 (Kelley)		6 (Decker)		7 (Sullivan)		8 (Simmons)		9 (Galluccio)		
Galluccio, Anthony D.	2437	161	2598	396	2994	142	3136	247	3383	417	3800	1371	5171	771	5942	-5942	0	DEFEATED -- 8th round
Decker, Marjorie C.	1823	139	1962	92	2054	327	2381	308	2689	-2689	0	0	0	0	0	0	0	DEFEATED -- 5th round
Davis, Henrietta	1804	107	1911	67	1978	483	2461	475	2936	885	3821	408	4229	1777	6006	1858	7864	ELECTED -- 9th round
Sullivan, Michael A.	1777	152	1929	603	2532	157	2689	176	2865	248	3113	-3113	0	0	0	0	0	DEFEATED -- 6th round
Kelley, Craig A.	1665	31	1696	28	1724	145	1869	-1869	0	0	0	0	0	0	0	0	0	DEFEATED -- 4th round
Simmons, Denise	1621	553	2174	88	2262	255	2517	277	2794	666	3460	393	3853	-3853	0	0	0	DEFEATED -- 7th round
Murphy, Brian	1590	72	1662	38	1700	-1700	0	0	0	0	0	0	0	0	0	0	0	DEFEATED -- 3rd round
Toomey, Timothy J., Jr.	1577	52	1629	-1629	0	0	0	0	0	0	0	0	0	0	0	0	0	DEFEATED -- 2nd round
Reeves, Kenneth E.	1433	-1433	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	DEFEATED -- 1st round
Exhaust	0	166	166	317	483	191	674	386	1060	473	1533	941	2474	1305	3779	4084	7863	
Total	15727	0	15727	0	15727	0	15727	0	15727	0	15727	0	15727	0	15727	0	15727	
Invalid ballots	475																	
Total ballots	16202																	

Notes:

- 1) In this simulation, all candidates not elected to the City Council are ineligible to receive ballots. Thus, in the 1st Round, the number of ballots received by each candidate is greater than the number received in the actual City Council election. Any ballot with a #1 vote for an excluded candidate is initially given to the first available choice among the 9 candidates eligible to receive.

- 2) In the 2nd Round, the candidate with the least votes (Reeves) is defeated and his votes are transferred to the next available choice (on each ballot) among the remaining 8 candidates. Note that in this simulation, this causes Simmons to vault from 6th place to 2nd place.

- 3) Votes tend to transfer, for the most part, within identifiable constituencies. Thus ballots initially cast for Reeves transfer primarily to another African-American candidate (Simmons). In the 3rd Round, when Toomey is defeated the votes transfer primarily to other "townies" like Michael Sullivan and Anthony Galluccio. In the 4th Round, when Murphy is defeated his votes transfer primarily to other "progressive" candidates (whatever that means).

- 4) After the 7th Round, the 3 remaining candidates (Sullivan, Davis, and Simmons) represent distinct, identifiable constituencies within the electorate. In the 8th Round, when Simmons is defeated, her votes transfer primarily to "progressive" candidate Davis rather than to "townie" candidate Galluccio and lift Davis past Galluccio by a 64 vote margin.