Citywide Cost of New Voting Equipment

(by pollsite and number of reg. voters, assumes 1% or 2% use audio, sip&puff, or rocker paddles) Teresa Hommel, WheresThePaper.org, 11/6/06

How many machines are needed, if number of reg. voters served per machine is:

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Poll	Reg	DRE	DRE	DRE	DRE	DRE	OpScan	OpScan	OpScan	BMD*	BMD*
Sites	Voters	200	300	400	500	600	2000	2500	3000	1%, 37min	2%, 37min
••	701010									,	
Dronyı											
Bronx:	•	0.000	0.040	4 500	4.000	4 070	405	244	200	400	600
218	578,490	3,002	2,040	1,562	1,269	1,072	405	341	306	482	682
DREs:	\$8,000	24,016,000	16,320,000	12,496,000	10,152,000	8,576,000					
	\$9,000	27,018,000	18,360,000	14,058,000	11,421,000	9,648,000					
	\$10,000	30,020,000	20,400,000	15,620,000	12,690,000	10,720,000					
				OpSo	an, BMD* Pri	ces: \$5,500	2,227,500	1,875,500	1,683,000	2,651,000	3,751,000
				OpS	ican, plus BM	ID for 1%:	4,878,500	4,526,500	4,334,000		
				OpS	can, plus BM	ID for 2%:	5,978,500	5,626,500	5,434,000		
<u>Brookl</u>	yn:										
392 1	1,140,731	5,899	3,994	3,054	2,480	2,098	781	659	582	928	1,316
DREs:	\$8,000	47,192,000	31,952,000	24,432,000	19,840,000	16,784,000					
	\$9,000	53,091,000	35,946,000	27,486,000	22,320,000	18,882,000					
	\$10,000	58,990,000	39,940,000	30,540,000	24,800,000	20,980,000					
	4 . . ,		,,		an, BMD* Pri		4,295,500	3,624,500	3,201,000	5,104,000	7,238,000
				•	•		9,399,500	8,728,500	8,305,000	.,,	,,
				-	OpScan, plus BMD for 1%: OpScan, plus BMD for 2%:			10,862,500	10,439,000		
				Opc	oun, plus Bil		11,533,500	10,002,000	10,100,000		
Manha	ttan:										
359	896,586	4,674	3,173	2,430	1,979	1,678	637	544	484	749	1,061
DREs:	\$8,000	37,392,000	25,384,000	19,440,000	15,832,000	13,424,000	007	044	404	140	1,001
DKES.											
	\$9,000	42,066,000	28,557,000	21,870,000	17,811,000	15,102,000					
	\$10,000	46,740,000	31,730,000	24,300,000	19,790,000	16,780,000	0.500.500	0.000.000	0.000.000	4 440 500	E 00E E00
				•	can, BMD* Pri		3,503,500	2,992,000	2,662,000	4,119,500	5,835,500
				•	can, plus BN		7,623,000	7,111,500	6,781,500		
				OpS	Scan, plus BN	ID for 2%:	9,339,000	8,827,500	8,497,500		

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Poll	Reg	DRE	DRE	DRE	DRE	DRE	OpScan	OpScan	OpScan	BMD*	BMD*
Sites	Voters	200	300	400	500	600	2000	2500	3000	1%, 37min	2%, 37min
Queen	ns:										
311	926,037	4,795	3,246	2,478	2,003	1,706	618	531	466	752	1,066
DREs:	\$8,000	38,360,000	25,968,000	19,824,000	16,024,000	13,648,000					•
	\$9,000	43,155,000	29,214,000	22,302,000	18,027,000	15,354,000					
	\$10,000	47,950,000	32,460,000	24,780,000	20,030,000	17,060,000					
			OpScan, BMD* Prices: \$5,500				3,399,000	2,920,500	2,563,000	4,136,000	5,863,000
				Ops	Scan, plus BN	ID for 1%:	7,535,000	7,056,500	6,699,000		
				• • • •			9,262,000	8,783,500	8,426,000		
Staten	ı Island:				*						
87	234,155	1,215	828	630	517	437	168	142	128	196	284
DREs:	\$8,000	9,720,000	6,624,000	5,040,000	4,136,000	3,496,000					
	\$9,000	10,935,000	7,452,000	5,670,000	4,653,000	3,933,000					
	\$10,000	12,150,000	8,280,000	6,300,000	5,170,000	4,370,000					
			**	•	can, BMD* Pr		924,000	781,000	704,000	1,078,000	1,562,000
				•	OpScan, plus BMD for 1%:		2,002,000	1,859,000	1,782,000		
				Op:	OpScan, plus BMD for 2%:		2,486,000	2,343,000	2,266,000		
	_										
5 Boro	oughs:		,								
1,367	3,775,999	19,585	13,281	10,154	8,248	6,991	2,609	2,217	1,966	3,107	4,409
DREs:	\$8,000	\$156,680,000	\$106,248,000	\$81,232,000	\$65,984,000	\$55,928,000					
	\$9,000	\$176,265,000	\$119,529,000	\$91,386,000	\$74,232,000	\$62,919,000					
	\$10,000	\$195,850,000	\$132,810,000	\$101,540,000	\$82,480,000	\$69,910,000					

How many machines are needed, if number of reg, voters served per machine is:

OpScan, BMD* Prices: \$5,500	\$14,349,500	\$12,193,500	\$10,813,000	\$17,088,500	\$24,249,500
OpScan, plus BMD for 1%:	\$31,438,000	\$29,282,000	\$27,901,500		
OpScan, plus BMD for 2%:	\$38,599,000	\$36,443,000	\$35,062,500		

^{*}To calculate the number of BMDs (Ballot Marking Devices), we assumed that 20% of registered voters have disabilities, 50% of them wish to vote, and half of these will use absentee ballots and half vote at the pollsite. This yields 5% of registered voters who may wish to use BMDs. Of these, one or two fifth may use audio, sip&puff, or rocker paddles, which yields 1% or 2% of registered voters using these devices. The State Board of Elections assessed that voters using these attachments on BMDs to be used in 2006 required 30 to 45 minutes to vote. We used 37 minutes as the average for these voters. We estimated 5 min. for the other three or four-fifth of voters with disabilities using BMDs. Then the total minutes use of BMD by the 5% of voters was divided by 900 minutes.

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