

**Number of Voters Served**

(per DRE, per 900 min. election day, assuming 1% of voters use audio, sip&puff, or rocker paddles)

Teresa Hommel, WheresThePaper.org, 11/6/06

Each DRE is purchased to serve this number reg. voters	Election Day Turnout Poll-site Voters		Voters with Disabilities using these devices estimate 1% of turnout*		Voters wo Disabilities estimate 99% of turnout		Total Minutes:	Two Alternative Estimates of Time			
	Percentage	Number	Number	37 min* each Minutes:	Number	4 min. each Minutes:		Voters wo dis 3.25** min ea Total Min:	Total Min:	Voters wo dis 5 min. each Total Min:	Total Min:
200	50	100	1	37	99	396	433	322	359	495	532
	60	120	2	74	118	472	546	384	458	590	664
	70	140	2	74	138	552	626	449	523	690	764
	80	160	2	74	158	632	706	514	588	790	864
300	50	150	2	74	148	592	666	481	555	740	814
	60	180	2	74	178	712	786	579	653	890	964
	70	210	3	111	207	828	939	673	784	1035	1146
	80	240	3	111	237	948	1059	771	882	1185	1296
400	50	200	2	74	198	792	866	644	718	990	1064
	60	240	3	111	237	948	1059	771	882	1185	1296
	70	280	3	111	277	1108	1219	901	1012	1385	1496
	80	320	4	148	316	1264	1412	1027	1175	1580	1728
500	50	250	3	111	247	988	1099	803	914	1235	1346
	60	300	3	111	297	1188	1299	966	1077	1485	1596
	70	350	4	148	346	1384	1532	1125	1273	1730	1878
	80	400	4	148	396	1584	1732	1287	1435	1980	2128
600	50	300	3	111	297	1188	1299	966	1077	1485	1596
	60	360	4	148	356	1424	1572	1157	1305	1780	1928
	70	420	5	185	415	1660	1845	1349	1534	2075	2260
	80	480	5	185	475	1900	2085	1544	1729	2375	2560

\*The pollsite turnout of voters with disabilities who will wish to vote via DRE assistive devices is unpredictable. Disability advocates in NYC say that 20% of voters have disabilities that prevent them from voting without direct human assistance on our current lever machines, and assert that, if we have DREs with assistive devices, these voters would choose to use them. In other jurisdictions the turnout of such voters has been low, in some cases as low as zero.

This chart assumes 1% of registered voters (rounded up to the next whole number for any fraction) who vote at the pollsite will choose to use DRE audio, sip&puff, or rocker paddles to vote. It assumes these voters will require an average of 37 minutes each to vote, which is halfway between the State Board of Elections' assessment that BMDs (Ballot Marking Devices) for use in 2006 required 30 to 45 minutes per voter who used such accessible features of the BMD.

\*\*NYC BOE Voters Per Machine Report v-34.2.doc of 8/21/06 estimated that voters without disabilities would average 3 min 15 seconds to vote on DREs.

All cost studies: [www.wheresthepaper.org/ny.html#costReports](http://www.wheresthepaper.org/ny.html#costReports)

This page: [www.wheresthepaper.org/NumVotersPerDRE1\\_061106.pdf](http://www.wheresthepaper.org/NumVotersPerDRE1_061106.pdf)

**Number of Voters Served**

(per DRE, per 900 min. election day, assuming 2% of voters use audio, sip&puff, or rocker paddles)

Teresa Hommel, WheresThePaper.org, 11/6/06

Each DRE is purchased to serve this number reg. voters	Election Day Turnout Poll-site Voters		Voters with Disabilities using these devices estimate 2% of turnout*		Voters wo Disabilities estimate 98% of turnout		Total Minutes:
	Percentage	Number	Number	37 min* each Minutes:	Number	4 min. each Minutes:	
200	50	100	2	74	98	392	466
	60	120	3	111	117	468	579
	70	140	3	111	137	548	659
	80	160	4	148	156	624	772
300	50	150	3	111	147	588	699
	60	180	4	148	176	704	852
	70	210	5	185	205	820	1005
	80	240	5	185	235	940	1125
400	50	200	4	148	196	784	932
	60	240	5	185	235	940	1125
	70	280	6	222	274	1096	1318
	80	320	7	259	313	1252	1511
500	50	250	5	185	245	980	1165
	60	300	6	222	294	1176	1398
	70	350	7	259	343	1372	1631
	80	400	8	296	392	1568	1864
600	50	300	6	222	294	1176	1398
	60	360	8	296	352	1408	1704
	70	420	9	333	411	1644	1977
	80	480	10	370	470	1880	2250

Two Alternative Estimates of Time			
Voters wo dis 3.25** min ea	Total Min:	Voters wo dis 5 min. each	Total Min:
319	393	490	564
381	492	585	696
446	557	685	796
507	655	780	928
478	589	735	846
572	720	880	1028
667	852	1025	1210
764	949	1175	1360
637	785	980	1128
764	949	1175	1360
891	1113	1370	1592
1018	1277	1565	1824
797	982	1225	1410
956	1178	1470	1692
1115	1374	1715	1974
1274	1570	1960	2256
956	1178	1470	1692
1144	1440	1760	2056
1336	1669	2055	2388
1528	1898	2350	2720

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This chart assumes 2% of registered voters (rounded up to the next whole number for any fraction) who vote at the pollsite will choose to use DRE audio, sip&puff, or rocker paddles to vote. It assumes these voters will require an average of 37 minutes each to vote, which is halfway between the State Board of Elections' assessment that BMDs (Ballot Marking Devices) for use in 2006 required 30 to 45 minutes per voter who used such accessible features of the BMD.

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