

Chapter 9 Voting Equipment Usage

Table 9 presents data from the Election Day Survey on the type of voting equipment used by election jurisdictions during the November 2, 2004, election. The survey asked for a listing of the type and manufacturer of voting systems in use; the number of units for each system; software versions, if applicable; and whether the voting systems previously had been used in a federal election.

Applicability and Coverage

State responses to the five parts of question 13 on voting equipment usage were mixed. Some states responded to each part, while others provided a single response that had to be split apart and reclassified. Some states provided important information that was not requested—e.g., name of voting equipment hardware or ballot tabulation method (e.g., precinct or central-count). Nine states did not respond to question 13 at all.

All information that states provided on voting equipment, including information not requested by the survey, was standardized following a format established by National Association of State Election Directors (NASED) for qualifying voting systems.¹ Therefore, the tabulated version of question 13 has nine parts:

- | | |
|--------------------------------------|---------------------------------------|
| 1) Company | 6) Voting equipment type |
| 2) Voting system | 7) Ballot tabulation method |
| 3) Software | 8) Previous use at a federal election |
| 4) Voting equipment hardware | 9) Number of units |
| 5) Voting equipment hardware version | |

Only data on *voting equipment type* is generally complete. For states that did not respond to question 13, information on equipment type was obtained from media reports or voting equipment summaries published by the National Association of Secretaries of State on the Web. In other instances, voting equipment type was determined from other information on the survey for voting equipment hardware. About 30 states identified voting equipment manufacturers, and about 20 states provided information on the number of units and previous use at a federal election.

The survey results on the different types of voting equipment used by local election jurisdictions are presented in chapter 9. Also included in this chapter is information on voting equipment hardware and manufacturers. The results on the number of units and ballot tabulation methods are in chapter 10. The results on voting equipment malfunctions are in chapter 11.

There are five generic types of voting equipment: (1) punch card, (2) optical scan, (3) electronic, (4) lever machine, and (5) paper ballot. A sixth category, “mixed,” is for jurisdictions using more than

¹ Under the Help America Vote Act of 2002, the U.S. Election Assistance Commission (EAC) is responsible for the certification of voting systems. That function was previously carried out by NASED.

one type of voting equipment. The punch card category includes DataVote and Votomatic systems.² Electronic refers to direct recording electronic (DRE) devices utilizing touch screens, push buttons, or select wheels for voters to indicate their preferences.

The following is a comprehensive listing of voting equipment hardware that local election jurisdictions reported were used at the November 2, 2004, general election. The listing is by company. In some instances, survey respondents reported the names of voting equipment distributors instead of manufacturers. Some of the companies—Automatic Voting Machine Corp. (AVM), for example—are no longer in business. Because of licensing or other agreements, some voting equipment hardware—Optech Eagle, for example—was manufactured or sold by two or more companies.

Table 9a. Voting Equipment for the November 2004 General Election

Company	Hardware	Type
Airmac Technology Systems, Inc.	MR 210	Optical scan
Automatic Voting Machine Corp. (AVM) <i>Predecessor of Sequoia Voting Systems</i>	AVM AVM-NP AVM-NS AVM-POM 40 AVM-POM 50 AVM-Printomatic AVM-RS	Lever Lever Lever Lever Lever Lever Lever
Advanced Voting Solutions (AVS) <i>Formerly, Shoup Voting Solutions, Inc. Predecessor companies include R.F. Shoup Corp.</i>	AVM-NS AVM-RS WINscan WINvote	Lever Lever Optical scan Electronic
Computing Devices Canada	Elex Voting System	Electronic
Danaher Controls <i>Division of Danaher Corp.</i>	ELECTronic 1242 Shouptronic 1242	Electronic Electronic
DFM Associates	Mark-A-Vote	Optical scan
Diebold Election Systems <i>Predecessor companies include Global Election Systems Inc. and Data Information Management Systems (DIMS)</i>	AccuTouch AccuTouch (Global) AccuVote ES-2000 AccuVote ES-2000 (Global) AccuVote-OS AccuVote-OS (Global) AccuVote-TS AccuVote-TS R6 Global NCS 5	Electronic Electronic Optical scan Optical scan Optical scan Optical scan Electronic Electronic Optical scan

Table 9a. Voting Equipment 2004 (cont.)

² A Votomatic ballot is prescored and printed only with numbered voting positions. A Votomatic ballot is inserted into a frame to which an attached booklet identifies candidates or answers to ballot questions for each voting position. A stylus is used to punch out prescored chads at voting positions. A Datavote ballot card is printed with a candidate name or answer to a ballot question at each voting position. A Datavote ballot card is inserted into a frame with a movable punching device. Voters align the punching device with a candidate name or answer to a ballot question, and then press the device to punch out a hole in the card at the appropriate voting position. Because candidate names are printed on the actual Datavote card, a usual election involves multiple cards that a voter must cast to complete their ballot.

Company	Hardware	Type
Data Information Management Systems <i>Predecessor of Diebold Inc.</i>	DataVote	Punch Card
ES&S (Election Systems & Software) <i>Predecessor companies include American Information Systems, Inc. (AIS), Business Records Corp. (BRC), and Computer Election Systems (CES)</i>	BRC P-III	Punch card
	Cardamation (CES)	Punch card
	CES Votomatic	Punch card
	Dell Ultra Scan	Punch card
	DOC 600	Punch card
	ETP-IV (BRC)	(unknown)
	iVotronic	Electronic
	Model 100	Optical scan
	Model 115	Optical scan
	Model 115 (AIS)	Optical scan
	Model 150	Optical scan
	Model 150 (AIS)	Optical scan
	Model 315	Optical scan
	Model 315 (AIS)	Optical scan
	Model 550	Optical scan
	Model 550 (AIS)	Optical scan
	Model 650	Optical scan
	Optech	Optical scan
	Optech 1 (CES)	Optical scan
	Optech Eagle	Optical scan
	Optech II	Optical scan
	Optech II (BRC)	Optical scan
	Optech III	Optical scan
	Optech III (BRC)	Optical scan
	Optech III-P	Optical Scan
	Optech III-P (BRC)	Optical scan
	Optech III-P Eagle	Optical scan
	Optech IV-C	Optical scan
	Optech IV-C (BRC)	Optical scan
	Optech IV-C 200	Optical scan
	Optech IV-C 200 (BRC)	Optical scan
	Optech IV-C 400	Optical scan
	Optech IV-C 400 (BRC)	Optical scan
	PBC 2100	Punch card
	PBC 5	Punch card
	PBC 6	Punch card
	PBC III-D	Punch card
	PBC III-D (BRC)	Punch card
	PC-BT	Punch card
	Pollstar Votronic	Punch card
	V-200	Electronic
	Votomatic	Punch card
	Votomatic (CES)	Punch card

Table 9a. Voting Equipment 2004 (cont.)

Company	Hardware	Type
ES&S (cont.)	Votomatic III	Punch card

	Votronic	Electronic
	Votronic I	Electronic
	Votronic II	Electronic
Fidlar <i>Predecessor companies include Fidlar Double-Day Inc., Fidlar & Chambers Co. and Governmental Business Systems Inc. (GBS)</i>	AccuVote ES-2000	Optical scan
	AccuVote-OS	Optical scan
	DIS	Punch card
	EV 2000	Electronic
Governmental Data Systems (GDS)	ATS MR 200	Optical scan
Hart InterCivic Inc.	Ballot Now	Optical scan
	eSlate	Electronic
International Election Systems (IES)	Shoup Model 2.5	Lever
	Shoup Model 3.2	Lever
MicroVote General Corp.	Infinity	Electronic
	MEMS	(unknown)
	MV-464	Electronic
Peripheral Dynamics Inc. (PDI)	PDI 6111 HT	Punch card
R.F. Shoup Corp. <i>Predecessor of Shoup Voting Solutions/AVS</i>	Shoup	Lever
	Shouptronic 1242	Electronic
Sequoia Voting Systems <i>Predecessor companies include Sequoia Pacific Voting Systems, Inc. and Automatic Voting Machine Corp.</i>	AVC Advantage	Electronic
	AVC Edge	Electronic
	AVM	Lever
	DataVote	Punch Card
	Optech Eagle	Optical scan
	Optech III-P	Optical scan
	Optech III-P Eagle	Optical scan
	Optech Insight	Optical scan
	Optech IV-C	Optical scan
	AVM Printomatic-30	Lever
Triad Governmental Systems Inc.	ELEctab	Punch Card
Unilect Corp.	Patriot	Electronic
Votec Corp.	Votomatic III-A	Punch card
	Votomatic III-P	Punch card
Voting Technologies International (VTI)	VoT Ware	Electronic
Webb Systems	BCCS 228	Punch card
	BCCS 312	Punch card
(company unknown)	Benton BC-1000	Punch card
	Documation	Punch card
	Documentation M-1000	Punch card
	Documentation M-200	Punch card
	Documentation M-600L	Punch card
	ETNet	Punch card

Only about half of the survey respondents provided the names of the manufacturers of voting systems used at the November 2004 election. The following table identifies the manufacturers and, in some instances, the distributors, of voting systems used by local election jurisdictions in 2004 and is sorted by the number of jurisdictions covered.

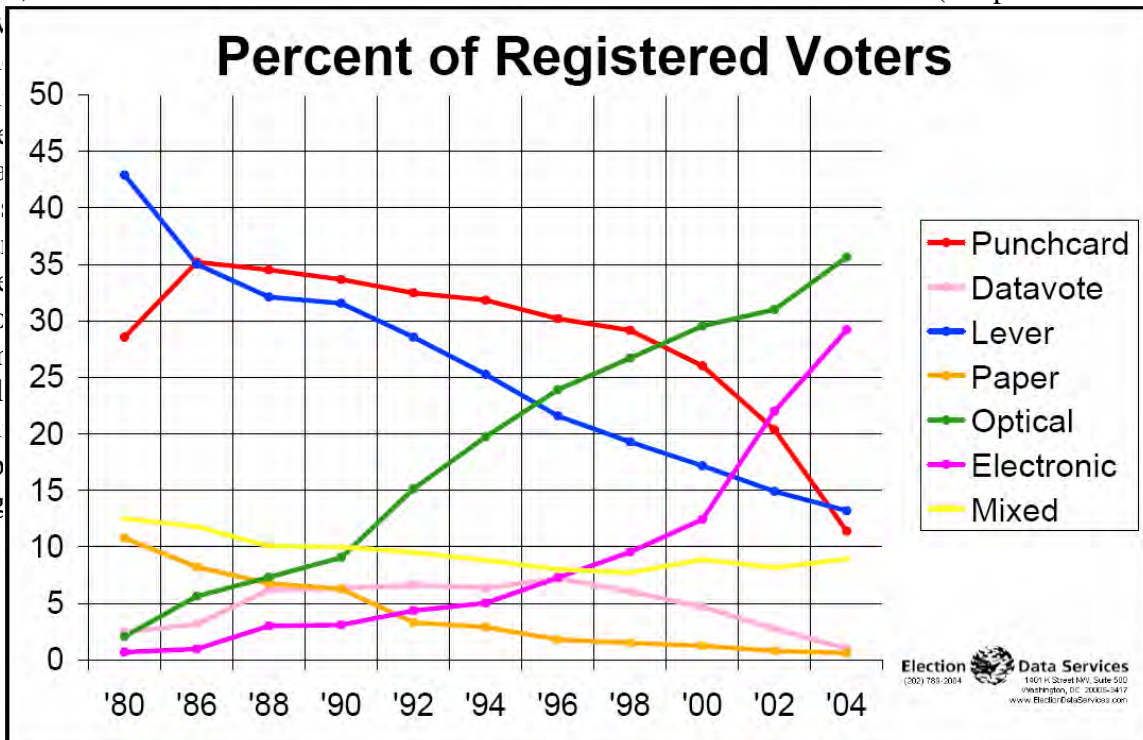
Table 9b.
Voting Equipment Manufacturers, November 2004 General Election

Voting Equipment Manufacturer	Jurisdictions
ES&S (Election Systems & Software)	1,638
Diebold Election Systems	1,444
Danaher Controls	236
Sequoia Voting Systems (including AVM)	201
Fidlar	180
Microvote General Corp.	169
Advanced Voting Solutions (incl. R.F.Shoup)	44
IES (International Election Systems)	33
Hart InterCivic Inc.	25
Unilect Corp.	25
Webb Systems	9
DFM Associates	8
Triad Governmental Systems Inc. (Triad GSI)	7
Votech Corp.	3
AirMac Technologies Inc.	1
Computing Devices Canada (CDC)	1
Governmental Data Systems (GDS)	1
Peripheral Dynamics Inc. (PDI)	1
Voting Technologies International (VTI)	1
(Manufacturer not indicated)	3,970

Historical Context

Prior to 1980, no one kept track of what kind of voting equipment was used in all jurisdictions in the United States. While state laws may provide some parameters for the type of voting equipment that is allowed in a state, the final decision has traditionally been left to local election administrators. In 1979, the Federal Election Commission's Office of Election Administration (the predecessor to the

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Figure 9.2 Voting Equipment 1980–2004, Percent of Registered Voters

For much of this country's history, voters have used paper ballots. As the country grew and became more urbanized, the task of counting paper ballots took longer. With the Industrial Revolution, a mechanical way was found to produce instantaneous election results—the lever machine. Mechanical lever machines were invented in the 1890s, and their use in elections grew rapidly over the next 70 years. Lever machines combined the casting, recording, and counting of votes in one apparatus. And it is interesting to note in light of the current controversy over electronic voting that for all those 70 years, voters were not receiving, nor were election officials counting, physical ballots.

Precincts then tended to be smaller in size because the high cost of lever machines prevented election officials from placing large numbers of these devices in each precinct. By the middle of the 20th century, the main source of polling place judges—housewives—had begun moving into the workforce. As a result of this loss in manpower (or womanpower), election officials looked to cutting the overall number of precincts and increasing the size of the remaining polling places. Punch card voting systems, first used in 1964, were a popular solution to this problem. Suburban and urban communities around the nation soon found that the cost of 10 punch card devices was similar to just two lever machines, allowing election officials to create larger precincts. While bigger counties began to adopt punch cards, smaller counties needed a solution that would allow them to continue to use paper ballots, but tally election results more quickly. This led to the development of optical scan devices for voting in the 1970s and 1980s.

With the advent of computers and the need to replace aging mechanical lever machines, the 1970s also saw the introduction of electronic voting systems. Early electronic voting devices looked much like lever machines, with push buttons replacing levers on a large panel. Newer DREs, resembling ATMs (automatic teller machines), had touch-screen panels and keypads for entering write-in votes. Voter preferences went directly into electronic storage, usually without a paper record of the voter's intent.

Survey Results

Table 9 presents data on voting equipment usage from question 13 on the Election Day Survey. In the table, both the number of registered voters and the count of jurisdictions, using each of six different types of voting equipment (including multiple systems), is calculated. Because the EAC dataset is incomplete, a seventh category of "Unknown" is also shown. Because the information is so wide, the table spans multiple pages. The column headings in Table 9 are as follows:

Table 9 Column Headings. Voting Equipment Usage

Col.	Heading	Description
1	Code	State census code
2	Name	Respondent to Election Day Survey
3	Jurisdiction	Number of local election jurisdictions from survey question 22
4	2004 Total Registration	Number of active and inactive registered voters, number of persons who voted on Election Day in six states, and VAP data for North Dakota and jurisdictions in Wisconsin that do not have voter registration, from col. 4 of table 2
5	Number of Juris. Using Punch card Equipment	Number of jurisdictions that responded to survey question 13 and reported the use of punch cards
6	% of Juris. Using Punch card Equipment	Number of jurisdictions using punch cards (col. 5) divided by the total number of election jurisdictions (col. 3)
7	Regis. in Juris. Using Punch card Equipment	Number of registered voters in jurisdictions that reported the use of punch cards
8	Cases	Number of jurisdictions that responded to survey question 1, provided Election Day registration data, or for which VAP data was substituted for voter registration data; and jurisdictions that responded to question 13 and reported the use of punch cards
9	% of Regis. Using Punch card Equipment	Number of registered voters in jurisdictions that reported the use of punch cards (col. 7) divided by the total number of registered voters (col. 3)
10	Number of Juris. Using Optical Scan Voting Equipment	Number of jurisdictions that responded to survey question 13 and reported the use of optical scan equipment
11	% of Juris. Using Optical Scan Voting Equipment	Number of jurisdictions using optical scan equipment (col. 10) divided by the total number of election jurisdictions (col. 3)
12	Regis. in Juris. Using Optical Scan Voting Equipment	Number of registered voters in jurisdictions that reported the use of optical scan equipment
13	Cases	Number of jurisdictions that responded to survey question 1, provided Election Day registration data, or for which VAP data was substituted for voter registration data; and jurisdictions that responded to question 13 and reported the use of optical scan equipment
14	% of Regis. Using Optical Scan Voting Equipment	Number of registered voters in jurisdictions that reported the use of optical scan equipment (col. 12) divided by the total number of registered voters (col. 3)

Table 9 Column Headings (cont.)

Col.	Heading	Description
15	Number of Juris. Using Electronic Voting Equipment	Number of jurisdictions that responded to survey question 13 and reported the use of electronic equipment
16	% of Juris. Using Electronic Voting Equipment	Number of jurisdictions using electronic equipment (col. 15) divided by the total number of election jurisdictions (col. 3)
17	Regis. in Juris. Using Electronic Voting Equipment	Number of registered voters in jurisdictions that reported the use of electronic equipment
18	Cases	Number of jurisdictions that responded to survey question 1, provided Election Day registration data, or for which VAP data was substituted for voter registration data; and jurisdictions that responded to question 13 and reported the use of electronic equipment
19	% of Regis. Using Electronic Voting Equipment	Number of registered voters in jurisdictions that reported the use of electronic equipment (col. 17) divided by the total number of registered voters (col. 3)
20	Number of Juris. Using Lever Machine Voting Equipment	Number of jurisdictions that responded to survey question 13 and reported the use of lever machines
21	% of Juris. Using Lever Machine Voting Equipment	Number of jurisdictions using lever machines (col. 20) divided by the total number of election jurisdictions (col. 3)
22	Regis. in Juris. Using Lever Machine Voting Equipment	Number of registered voters in jurisdictions that reported the use of lever machines
23	Cases	Number of jurisdictions that responded to survey question 1, provided Election Day registration data, or for which VAP data was substituted for voter registration data; and jurisdictions that responded to question 13 and reported the use of lever machines
24	% of Regis. Using Lever Machine Voting Equipment	Number of registered voters in jurisdictions that reported the use of lever machines (col. 24) divided by the total number of registered voters (col. 3)
25	Number of Juris. Using Paper Ballots Voting Equipment	Number of jurisdictions that responded to survey question 13 and reported the use of paper ballots
26	() Extra line of space in this cell at top % of Juris. Using Paper Ballots Voting Equipment	Number of jurisdictions using paper ballots (col. 25) divided by the total number of election jurisdictions (col. 3)
27	Regis. in Juris. Using Paper Ballots Voting Equipment	Number of registered voters in jurisdictions that reported the use of paper ballots

Table 9 Column Headings (cont.)

Col.	Heading	Description
28	Cases	Number of jurisdictions that responded to survey question 1, provided Election Day registration data, or for which VAP data was substituted for voter registration data; and jurisdictions that responded to question 13 and reported the use of paper ballots
29	% of Regis. Using Paper Ballots Voting Equipment	Number of registered voters in jurisdictions that reported the use of paper ballots (col. 27) divided by the total number of registered voters (col. 3)
30	Number of Juris. Using Mixed Voting Equipment	Number of jurisdictions that responded to survey question 13 and reported the use of two or more types of voting equipment
31	% of Juris. Using Mixed Voting Equipment	Number of jurisdictions using two or more types of voting equipment (col. 30) divided by the total number of election jurisdictions (col. 3)
32	Regis. in Juris. Using Mixed Voting Equipment	Number of registered voters in jurisdictions that reported the use of two or more types of voting equipment
33	Cases	Number of jurisdictions that responded to survey question 1, that provided Election Day registration data, or for which VAP data was substituted for voter registration data; and jurisdictions that responded to question 13 and reported the use of two or more types of voting equipment
34	% of Regis. Using Mixed Voting Equipment	Number of registered voters in jurisdictions that reported the use of two or more types of voting equipment (col. 32) divided by the total number of registered voters (col. 3)
35	Number of Juris., Unknown (Not Reported)	Number of jurisdictions that responded to parts of survey question 13, but not the type of voting equipment used
36	% of Juris., Unknown (Not Reported)	Number of jurisdictions that responded to parts of survey question 13, but not the type of voting equipment used (col. 35) divided by the total number of election jurisdictions (col. 3)
37	Regis. in Juris., Unknown (Not Reported)	Number of registered voters in jurisdictions that responded to parts of survey question 13, but not the type of voting equipment used
38	Cases	Number of jurisdictions that responded to survey question 1, provided Election Day registration data, or for which VAP data was substituted for voter registration data; and jurisdictions that responded to parts of survey question 13, but not the type of voting equipment used
39	% of Regis., Unknown (Not Reported)	Number of registered voters in jurisdictions that parts of survey question 13, but not the type of voting equipment used (col. 37) divided by the total number of registered voters (col. 3)

Analysis of Survey Results

The following is our analysis of the data in Table 3 for each of the 18 cross-tabulation factors described earlier in this report. A description of each factor follows a general summary and a state-level summary of the survey data.

- | | |
|--|---|
| 1) Regions | 10) Changed Voting Equipment since 2000 |
| 2) Urban to Rural | 11) Statewide Voter Registration Database |
| 3) Size of Jurisdiction | 12) Election Day Registration |
| 4) Race and Ethnicity | 13) Provisional Ballot Acceptance |
| 5) Median Income | 14) No Excuse Absentee Balloting |
| 6) High School Education | 15) Early Voting |
| 7) Section 203 Language Minority Requirements | 16) Battleground States |
| 8) Section 5 Preclearance of Voting Procedures | 17) Presidential Margin of Victory |
| 9) Type of Voting Equipment | 18) Red versus Blue Jurisdictions |

This analysis is based only on data that was *reported* to the EAC on the Election Day Survey. Many state responses to a survey question or part of a question did not cover all local election jurisdictions. In Table 9 as well as other tables in this report, a jurisdiction was excluded from a statistical calculation if its response was missing for one or more of the data items (i.e., columns) used in the calculation. A column labeled “Cases” next to each statistical calculation shows the number of jurisdictions covered by that calculation.

Summary

The EAC dataset shows the following nationwide characteristics of voting equipment usage in the 2004 general election. (See Table 9c below.) As noted previously, the information is not complete for nearly 14 percent of the jurisdictions in the nation, which covers more than four percent of the registered voters.

Table 9c. Voting Equipment Usage, 2004 General Election

Type of Voting Equipment	Number of Jurisdictions	Percent of Jurisdictions	Registration in Jurisdictions	Cases	Percent of Registration
Punch Card	260	4.0	15,691,323	259	9.0
Optical Scan	2,543	38.7	69,544,126	2,525	39.8
Electronic	611	9.3	43,571,704	611	25.0
Lever	394	6.0	21,662,657	390	12.4
Paper Ballots	1,733	26.4	3,068,977	1,732	1.8
Mixed Systems	124	1.9	13,367,303	123	7.7
Unknown	902	13.7	7,726,205	759	4.4
TOTAL	6,567	100.0	174,632,295	6,399	100.0

The data in Table 9a is illustrated in the following charts:

Figure 9.3. Voting Equipment Usage, 2004: Jurisdictions

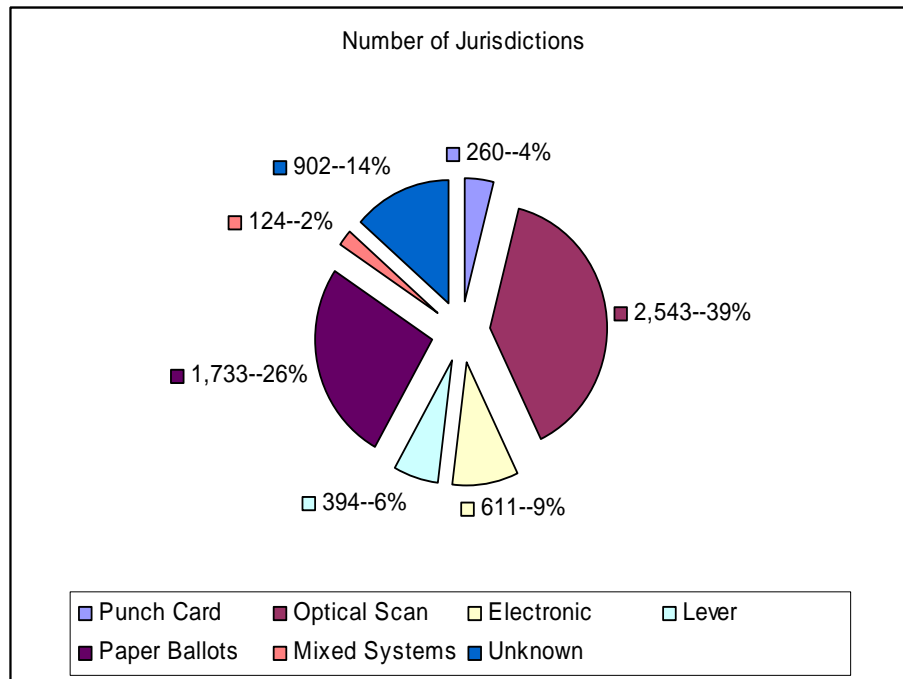
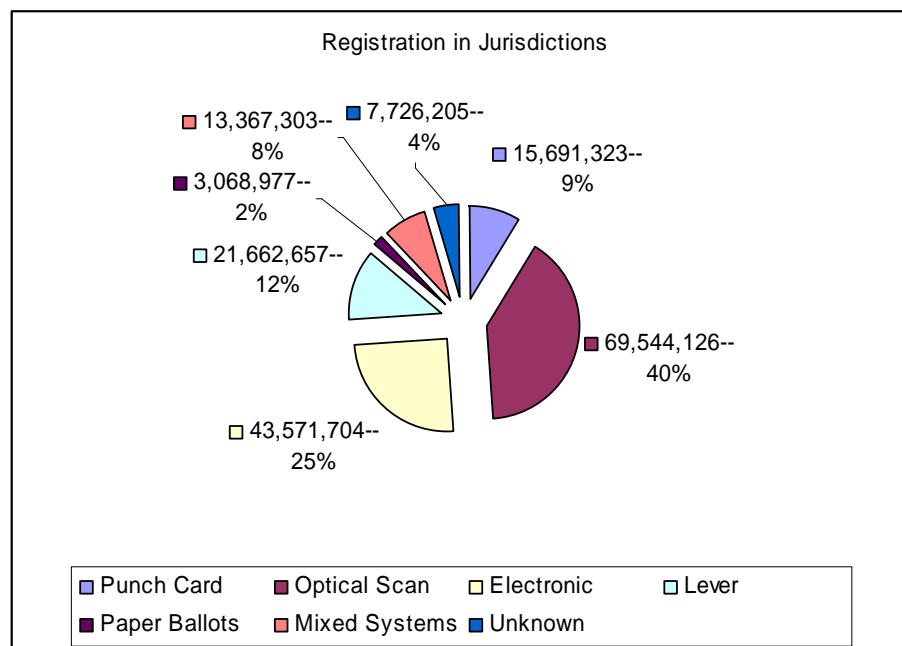


Figure 9.4. Voting Equipment Usage, 2004: Registration



Besides being incomplete, one of the most significant differences between the data published by Election Data Services and the EAC is the geographic structure used. While Election Data Services keeps its database at the jurisdiction level, for the purposes of mapping and publishing Election Data Services has traditionally shown data for counties. This has meant that for the New England states,

along with Michigan, Minnesota, and Wisconsin, there is a greater existence of “mixed” systems in the Election Data Services results, along with a corresponding decrease in the individual voting system types. This is because the jurisdiction data is summed to the county level. In these nine states voting-equipment purchase decisions have been traditionally made by individual townships. Election Data Services has independently verified that for jurisdictions in the nation over one-quarter still use paper ballots.

States

While local jurisdictions have traditionally made the decision about what kind of voting equipment to purchase, more states have begun imposing a mandate that uniform equipment types be used. This was not the result of the 2000 *Bush v. Gore* court decision by the U.S. Supreme Court, but began years earlier in several states as a cost-savings strategic decision. The 2004 elections found 12 states and territories that had adopted uniform voting-equipment usage. The states and the voting equipment type used are: Optical scan—Alaska, Arizona, Oklahoma, Oregon, and Rhode Island; electronic—Delaware, Georgia, Maryland, and Nevada; lever machines— New York; and mixed systems—District of Columbia and Hawaii.

Regions

The Midwest has the largest number of jurisdictions using punch cards, but punch cards account for just 18 percent of the registered voters in the region. A plurality of jurisdictions in the Midwest use optical scan voting systems. However, the greater percentage of registered voters using optical scan systems is in the West, where over 62 percent of the registered voters mark their ballots with a pencil or pen. Because of the state of Georgia’s recent adoption of electronic voting, the South has the largest usage of electronic voting systems in the country. A plurality of just over 41 percent of the registered voters in the South use electronic voting equipment. Lever machines still dominate the Northeast where over 55.4 percent of the registered voters in the region use lever devices, which were manufactured in the Northeast. Paper ballots are mainly split between the Midwest and the Northeast, but in either region they are used by less than 3.5 percent of the registered voters.

Urban to Rural

Over 58 percent of the urban jurisdictions in this nation use optical scan voting systems, as do a plurality of the suburban and small town communities. A plurality of the rural jurisdictions in the nation use paper ballots, closely followed by optical scan systems. Due to the distribution of registered voters in rural communities, however, over 60 percent of rural registered voters have their ballots counted by optical scan systems.

Size of Jurisdiction

The EAC data shows that the larger the size of a jurisdiction the more likely they are to be using electronic voting equipment. This has traditionally not been the case, as punch cards were almost exclusively used by large jurisdictions in this nation. Paper ballots are mainly concentrated in the smaller jurisdictions, with over 61 percent of the 1,761 jurisdictions that have under 1,000 voting age population (VAP) using pencil and pens, and presumably counting the ballots by hand. As jurisdictions grow in size they move to optical scan systems to ease the counting process. A clear majority of the jurisdictions that have between 3,500 and 50,000 VAP use optical scan devices.

Race and Ethnicity

A plurality of the predominantly non-Hispanic White jurisdictions in this nation use optical scan technology, closely followed by electronic systems. On the other hand, nearly two-thirds of African American voters are casting their votes on electronic systems. Over two-thirds of voters in predominantly Native American and Hispanic communities use optical scan devices.

Median Income

There appears to be a small relationship between income levels and the use of optical scan systems. The lower the income levels in a jurisdiction, the higher likelihood they will be using optical scan systems. Electronic machines are used to a greater degree in both the poorest and the wealthiest jurisdictions in the nation.

High School Education

There does not appear to be a relationship between education levels and type of voting equipment used.

Section 203 Language Minority Requirements

A majority of the jurisdictions covered by the Section 203 language minority requirements of the Voting Rights Act use optical scan voting systems. Due to the smaller size of these jurisdictions, however, they represent just a plurality of the registered voters.

Section 5 Preclearance of Voting Procedures

A plurality of the jurisdictions and registered voters covered by Section 5 of the Voting Rights Act used optical scan devices in 2004, closely followed by electronic voting equipment.

Type of Voting Equipment

Not applicable.

Changed Voting Equipment since 2000

A plurality of the jurisdictions that changed voting equipment since 2000 went to optical scan systems.

Statewide Voter Registration Database

No real patterns are discernible in this subcategory.

Election Day Registration

A majority of registered voters in jurisdictions that allow Election Day registration are much more likely to use optical scan voting equipment.

Provisional Ballot Acceptance

No real patterns are discernible in this subcategory.

No Excuse Absentee Balloting

No real patterns are discernible in this subcategory.

Early Voting

While a slight majority of registered voters who can utilize early voting procedures are using optical scan devices, there is a larger-than-average number that are also on electronic voting systems. Electronic voting systems are thought to be easier to manage in an early voting environment because they can maintain many different ballot styles in a jurisdiction. This would eliminate the need to keep lots of different paper ballots at each early-voting site.

Battleground States

No real patterns are discernible in this subcategory, although electronic voting systems were more likely to be found in nonbattleground states.

Presidential Margin of Victory

No real patterns are discernible in this subcategory.

Red versus Blue Jurisdictions

No real patterns are discernible in this subcategory, although lever machines were more likely to be used in jurisdictions carried by Kerry than by Bush. On the other hand, jurisdictions using punch cards were much more likely to support Bush than Kerry.

Voting Equipment Usage

EAC Election Day Survey		Voting Equipment Usage 2004 General Election																
Updated: 09/19/2005 13:06:28		Election Administration Jurisdictions	2004 Total Registration	Punchcard Voting Equipment (Inc.Datavote)				Optical Scan Voting Equipment				Electronic Voting Equipment						
Code	Name			Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using
01	Alabama	67	2,597,629					64	95.5	2,221,414	64	85.5	3	4.5	376,215	3	14.5	
02	Alaska	1	472,160					1	100.0	472,160	1	100.0						
04	Arizona	15	2,642,120					15	100.0	2,642,120	15	100.0						
05	Arkansas	75	1,699,934	7	9.3	280,764	7	16.5	47	62.7	829,822	47	48.8	5	6.7	89,867	5	5.3
06	California	58	16,646,555	12	20.7	774,216	12	4.7	37	63.8	10,980,645	37	66.0	8	13.8	4,118,569	8	24.7
08	Colorado	64	3,101,956	1	1.6	21,900	1	0.7	49	76.6	1,504,027	49	48.5	1	1.6	215,141	1	6.9
09	Connecticut	169	1,831,567															
10	Delaware	3	553,917										3	100.0	553,917	3	100.0	
11	District of Columbia	1	383,919															
12	Florida	67	10,300,942					50	74.6	4,630,220	50	44.9	15	22.4	5,576,264	15	54.1	
13	Georgia	159	4,248,802										159	100.0	4,248,802	159	100.0	
15	Hawaii	5	647,238															
16	Idaho	44	915,637	14	31.8	551,753	14	60.3	14	31.8	293,988	14	32.1					
17	Illinois	110	7,195,882	41	37.3	3,914,460	40	54.4	69	62.7	3,281,422	64	45.6					
18	Indiana	92	4,296,602	17	18.5	605,253	17	14.1	31	33.7	1,580,818	31	36.8	43	46.7	2,090,436	43	48.7
19	Iowa	99	2,226,721					84	84.8	1,978,431	83	88.8	14	14.1	225,295	14	10.1	
20	Kansas	105	1,695,457					81	77.1	1,007,154	81	59.4	3	2.9	612,845	3	36.1	
21	Kentucky	120	2,794,286					1	0.8	475,805	1	17.0	114	95.0	2,268,053	114	81.2	
22	Louisiana	64	2,932,142										14	21.9	1,602,769	14	54.7	
23	Maine	517	1,026,219					114	22.1	668,361	114	65.1						
24	Maryland	24	3,105,370										24	100.0	3,105,370	24	100.0	
25	Massachusetts	351	4,098,634					274	78.1	3,871,863	274	94.5						
26	Michigan	83	7,164,047	11	13.3	248,605	11	3.5	39	47.0	2,273,618	39	31.7	1	1.2	25,708	1	0.4
27	Minnesota	87	2,977,496					61	70.1	2,401,604	61	80.7						
28	Mississippi	82	1,469,608	10	12.2	155,492	10	10.6	61	74.4	1,004,212	49	68.3	3	3.7	227,354	3	15.5
29	Missouri	116	4,194,416	37	31.9	1,602,713	37	38.2	70	60.3	1,779,558	70	42.4					
30	Montana	56	638,474					36	64.3	598,780	36	93.8						
31	Nebraska	93	1,160,193					48	51.6	1,047,745	48	90.3						
32	Nevada	17	1,073,869										17	100.0	1,073,869	17	100.0	
33	New Hampshire	242	950,292					92	38.0	669,100	92	70.4						
34	New Jersey	21	5,011,693					1	4.8	63,528	1	1.3	15	71.4	3,645,764	15	72.7	
35	New Mexico	33	505,356															
36	New York	58	11,837,068															
37	North Carolina	100	5,526,981	5	5.0	430,452	5	7.8	44	44.0	2,388,318	44	43.2	38	38.0	2,364,967	38	42.8
38	North Dakota	53	490,179					48	90.6	478,436	48	97.6						
39	Ohio	88	7,965,110	7	8.0	1,717,316	7	21.6					1	1.1	33,094	1	0.4	
40	Oklahoma	77	2,143,978					77	100.0	2,143,978	77	100.0						
41	Oregon	36	2,141,249					36	100.0	2,141,249	36	100.0						
42	Pennsylvania	67	8,366,455	11	16.4	990,366	11	11.8	24	35.8	935,731	24	11.2	8	11.9	2,271,503	8	27.2
44	Rhode Island	39	707,234					39	100.0	707,234	39	100.0						
45	South Carolina	46	2,318,235	1	2.2	57,612	1	2.5	9	19.6	258,813	9	11.2	36	78.3	2,001,810	36	86.4
46	South Dakota	66	502,261					50	75.8	467,228	50	93.0						
47	Tennessee	95	3,748,235	20	21.1	393,135	20	10.5	11	11.6	358,016	11	9.6	48	50.5	2,726,843	48	72.8
48	Texas	254	13,098,329	9	3.5	781,376	9	6.0	142	55.9	6,051,164	142	46.2	4	1.6	132,930	4	1.0
49	Utah	29	1,278,912	23	79.3	1,257,684	23	98.3	2	6.9	16,103	2	1.3					
50	Vermont	246	444,508					68	27.6	292,211	68	65.7						
51	Virginia	134	4,515,675	4	3.0	752,780	4	16.7	34	25.4	997,757	34	22.1	26	19.4	270,161	26	6.0
53	Washington	39	3,508,208	13	33.3	774,622	13	22.1	23	59.0	2,277,991	23	64.9	2	5.1	103,357	2	2.9
54	West Virginia	55	1,168,694	12	21.8	421,626	12	36.1	28	50.9	480,334	28	41.1	2	3.6	101,807	2	8.7
55	Wisconsin	1,910	4,179,774					554	29.0	2,750,246	554	65.8						
56	Wyoming	23	273,950	5	21.7	35,422	5	12.9	13	56.5	177,424	13	64.8	1	4.3	5,975	1	2.2
60	American Samoa	1																
66	Guam	1																
72	Puerto Rico	110	2,440,131															
78	Virgin Islands	1	50,731															
	Total	6,568	177,265,030	260	4.0	15,767,547	259	8.9	2,541	38.7	69,198,628	2,523	39.0	608	9.3	40,068,685	608	22.6
	Maximum	1,910	16,646,555	41	79.3	3,914,460	40	98.3	554	100.0	10,980,645	554	100.0	159	100.0	5,576,264	159	100.0
	Average	119	3,344,623	13	19.6	788,377	12	22.5	63	56.6	1,729,965	63	58.7	22	34.1	1,484,025	22	39.8
	Minimum	1	50,731	1	1.6	21,900	1	0.7	1	0.8	16,103	1	1.3	1	1.1	5,975	1	0.4

Voting Equipment Usage

EAC Election Day Survey		Voting Equipment Usage 2004 General Election																	
Updated: 09/19/2005 13:06:28		Election Administration Jurisdictions	2004 Total Registration	Punchcard Voting Equipment (Inc.Datavote)				Optical Scan Voting Equipment				Electronic Voting Equipment							
Code	Name			Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	
Election Administration																			
Voting Equipment Used in 2004 General Election																			
	None / Unknown	908	14,484,493																
	Punch card	260	15,767,547	260	100.0	15,767,547	259	100.0											
	Lever	394	21,662,619																
	Paper	1,734	3,085,167																
	Optical scan	2,541	69,198,628						2,541	100.0	69,198,628	2,523	100.0						
	Electronic	608	40,068,685											608	100.0	40,068,685	608	100.0	
	Multiple Systems	123	12,997,891																
Changed Voting Equipment Since 2000 General Election																			
	Yes	1,753	51,149,755	1	0.1	27,633	1	0.1	624	35.6	20,735,348	621	40.5	311	17.7	22,326,704	311	43.6	
	No	4,815	126,115,275	259	5.4	15,739,914	258	12.5	1,917	39.8	48,463,280	1,902	38.4	297	6.2	17,741,981	297	14.1	
State Wide Voter Registration System in Place																			
	Yes	1,335	37,384,852	24	1.8	727,843	24	1.9	555	41.6	15,487,523	555	41.4	329	24.6	10,802,866	329	28.9	
	No	5,233	139,880,178	236	4.5	15,039,704	235	10.8	1,986	38.0	53,711,105	1,968	38.4	279	5.3	29,265,819	279	20.9	
Election Day Registration																			
	Yes	2,823	10,323,368	19	0.7	587,175	19	5.7	848	30.0	6,960,723	848	67.4	1	0.0	5,975	1	0.1	
	No	3,745	166,941,662	241	6.4	15,180,372	240	9.1	1,693	45.2	62,237,905	1,675	37.3	607	16.2	40,062,710	607	24.0	
Provisional Ballot Acceptance																			
	In Overall Jurisdiction	1,162	65,077,741	113	9.7	8,444,464	112	13.0	454	39.1	28,469,033	449	43.7	262	22.5	18,674,262	262	28.7	
	In Precinct Only	4,350	103,336,604	133	3.1	6,771,330	133	6.6	1,758	40.4	36,218,106	1,745	35.0	346	8.0	21,394,423	346	20.7	
	None	1,056	8,850,685	14	1.3	551,753	14	6.2	329	31.2	4,511,489	329	51.0						
No Excuse Absentee Balloting																			
	Yes	3,781	64,333,790	73	1.9	3,846,049	73	6.0	1,408	37.2	36,815,566	1,407	57.2	113	3.0	15,899,051	113	24.7	
	No	2,787	112,931,240	187	6.7	11,921,498	186	10.6	1,133	40.7	32,383,062	1,116	28.7	495	17.8	24,169,634	495	21.4	
Early Voting Allowed																			
	Yes	1,701	73,710,075	85	5.0	3,690,644	85	5.0	845	49.7	37,307,228	844	50.6	315	18.5	21,493,174	315	29.2	
	No	4,867	103,554,955	175	3.6	12,076,903	174	11.7	1,696	34.8	31,891,400	1,679	30.8	293	6.0	18,575,511	293	17.9	
Covered By Section 203, Language Minority Requirements																			
	Yes	468	50,756,496	27	5.8	4,613,175	27	9.1	251	53.6	22,390,647	249	44.1	31	6.6	12,116,042	31	23.9	
	No	6,100	126,508,534	233	3.8	11,154,372	232	8.8	2,290	37.5	46,807,981	2,274	37.0	577	9.5	27,952,643	577	22.1	
Covered By Section 5 of Voting Rights Act																			
	Yes	880	40,868,855	27	3.1	1,874,506	27	4.6	353	40.1	18,254,084	341	44.7	262	29.8	10,617,913	262	26.0	
	No	5,688	136,396,175	233	4.1	13,893,041	232	10.2	2,188	38.5	50,944,544	2,182	37.4	346	6.1	29,450,772	346	21.6	

Voting Equipment Usage

EAC Election Day Survey		Voting Equipment Usage 2004 General Election																
Updated: 09/19/2005 13:06:28		Election Administration Jurisdictions	2004 Total Registration	Punchcard Voting Equipment (Inc.Datavote)				Optical Scan Voting Equipment				Electronic Voting Equipment						
Code	Name			Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using
Demographics																		
Region																		
	Northeast	1,710	34,273,670	11	0.6	990,366	11	2.9	612	35.8	7,208,028	612	21.0	23	1.3	5,917,267	23	17.3
	South	1,423	62,606,676	68	4.8	3,273,237	68	5.2	568	39.9	21,839,853	556	34.9	494	34.7	25,647,129	494	41.0
	Midwest	2,902	44,048,138	113	3.9	8,088,347	112	18.4	1,135	39.1	19,046,260	1,129	43.2	62	2.1	2,987,378	62	6.8
	West	420	33,845,684	68	16.2	3,415,597	68	10.1	226	53.8	21,104,487	226	62.4	29	6.9	5,516,911	29	16.3
	Territories	113	2,490,862															
Urban to Rural																		
	Urban	567	63,441,314	10	1.8	5,195,813	10	8.2	330	58.2	17,979,273	329	28.3	38	6.7	15,868,156	38	25.0
	Suburban	871	47,552,530	24	2.8	3,975,627	24	8.4	372	42.7	20,938,869	371	44.0	85	9.8	11,784,936	85	24.8
	Small Towns	1,710	44,193,768	99	5.8	4,824,574	99	10.9	706	41.3	18,438,749	699	41.7	289	16.9	10,571,934	289	23.9
	Rural	3,307	19,586,556	127	3.8	1,771,533	126	9.0	1,133	34.3	11,841,737	1,124	60.5	196	5.9	1,843,659	196	9.4
	Not Available - Territories	113	2,490,862															
Size of Jurisdiction (VAP)																		
	< 1,000	1,761	895,006	1	0.1	827	1	0.1	209	11.9	137,299	209	15.3	1	0.1	736	1	0.1
	>=1,000 to <3,500	1,165	2,182,148	3	0.3	7,143	3	0.3	461	39.6	975,345	461	44.7	13	1.1	24,032	13	1.1
	>=3,500 to <10,000	1,043	5,966,645	35	3.4	226,982	35	3.8	660	63.3	3,906,979	658	65.5	99	9.5	550,974	99	9.2
	>=10,000 to <50,000	1,704	31,472,681	144	8.5	2,768,910	143	8.8	894	52.5	16,102,523	880	51.2	316	18.5	5,839,638	316	18.6
	>=50,000 to <250,000	586	48,992,270	62	10.6	5,973,481	62	12.2	261	44.5	21,063,275	259	43.0	129	22.0	10,865,210	129	22.2
	>=250,000 to <1,000,000	140	51,396,493	13	9.3	3,995,944	13	7.8	50	35.7	17,260,253	50	33.6	42	30.0	15,083,561	42	29.3
	>=1,000,000	25	33,867,508	2	8.0	2,794,260	2	8.3	6	24.0	9,752,954	6	28.8	8	32.0	7,704,534	8	22.7
	Not Available	144	2,492,279															
Race and Ethnicity																		
	Predominantly NH White	6,264	163,662,585	255	4.1	15,677,318	254	9.6	2,469	39.4	63,432,043	2,452	38.8	574	9.2	37,073,907	574	22.7
	Predominantly NH Black	85	3,098,023	3	3.5	28,140	3	0.9	32	37.6	462,280	31	14.9	33	38.8	1,935,977	33	62.5
	Predominantly NH Native America	24	231,022						8	33.3	160,842	8	69.6					
	Predominantly Hispanic	50	7,749,995	2	4.0	62,089	2	0.8	31	62.0	5,112,337	31	66.0	1	2.0	1,058,801	1	13.7
	Not Available	145	2,523,405						1	0.7	31,126	1	1.2					
Median Income																		
	< \$25,000	298	2,504,552	9	3.0	146,663	9	5.9	97	32.6	1,174,509	94	46.9	51	17.1	609,035	51	24.3
	>=\$25,000 to <\$30,000	884	8,917,739	32	3.6	464,409	32	5.2	336	38.0	4,714,613	328	52.9	103	11.7	1,678,692	103	18.8
	>=\$30,000 to <\$35,000	1,372	22,970,583	87	6.3	2,554,699	87	11.1	519	37.8	10,417,047	515	45.3	156	11.4	5,448,876	156	23.7
	>=\$35,000 to <\$40,000	1,215	40,443,694	59	4.9	3,856,011	59	9.5	443	36.5	13,707,610	442	33.9	136	11.2	8,768,137	136	21.7
	>=\$40,000 to <\$45,000	881	37,780,840	34	3.9	2,571,994	33	6.8	297	33.7	15,201,261	295	40.2	70	7.9	7,971,347	70	21.1
	>=\$45,000 to <\$50,000	587	21,218,675	24	4.1	4,410,311	24	20.8	235	40.0	9,042,023	235	42.6	35	6.0	3,371,104	35	15.9
	>=\$50,000	1,180	40,936,586	15	1.3	1,763,460	15	4.3	613	51.9	14,941,560	613	36.5	57	4.8	12,221,494	57	29.9
	Not Available	151	2,492,361						1	0.7	5	1	0.0					
High School Education																		
	< 60%	126	1,817,027	5	4.0	115,008	5	6.3	45	35.7	1,045,034	44	57.5	41	32.5	408,271	41	22.5
	>=60% to <70%	661	14,944,978	31	4.7	532,902	31	3.6	240	36.3	8,476,106	234	56.7	170	25.7	3,804,544	170	25.5
	>=70% to <80%	1,646	49,285,773	92	5.6	5,466,980	92	11.1	576	35.0	13,908,277	567	28.2	222	13.5	12,632,128	222	25.6
	>=80% to <90%	3,111	93,198,279	121	3.9	8,509,648	120	9.1	1,243	40.0	36,753,772	1,241	39.4	164	5.3	21,221,352	164	22.8
	>=90%	873	15,495,512	11	1.3	1,143,009	11	7.4	435	49.8	8,984,308	435	58.0	11	1.3	2,002,390	11	12.9
	Not Available	151	2,523,461						2	1.3	31,131	2	1.2					

Voting Equipment Usage

EAC Election Day Survey																					
Voting Equipment Usage 2004 General Election																					
Updated: 09/19/2005 13:06:28																					
Code	Name	Election Administration Jurisdictions	2004 Total Registration	Punchcard Voting Equipment (Inc.Datavote)					Optical Scan Voting Equipment					Electronic Voting Equipment							
				Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using			
Political																					
Battleground States in 2004 Presidential Election																					
	Yes	3,093	64,166,639	99	3.2	6,057,912	99	9.4	1,172	37.9	27,294,051	1,171	42.5	66	2.1	9,715,905	66	15.1			
	No	3,475	113,098,391	161	4.6	9,709,635	160	8.6	1,369	39.4	41,904,577	1,352	37.1	542	15.6	30,352,780	542	26.8			
Margin of Victory in 2004 Presidential Election																					
	< 2.5%	515	15,923,548	18	3.5	1,217,452	17	7.6	181	35.1	6,963,692	180	43.7	28	5.4	1,946,553	28	12.2			
	>=2.5% to < 5.0%	476	11,133,130	15	3.2	1,232,658	15	11.1	165	34.7	2,717,448	163	24.4	28	5.9	3,261,269	28	29.3			
	>=5.0% to < 7.5%	510	13,830,932	16	3.1	1,110,078	16	8.0	186	36.5	6,074,021	186	43.9	34	6.7	3,246,652	34	23.5			
	>=7.5% to < 10.0 %	429	8,833,490	12	2.8	688,354	12	7.8	162	37.8	3,090,070	161	35.0	20	4.7	1,396,536	20	15.8			
	>=10.0 %	4,492	125,044,988	199	4.4	11,519,005	199	9.2	1,846	41.1	50,352,770	1,832	40.3	498	11.1	30,217,675	498	24.2			
Red vs Blue Jurisdictions Won By in 2004 Presidential Election																					
	Bush > 55%	3,115	68,178,580	181	5.8	7,275,285	181	10.7	1,306	41.9	30,438,890	1,293	44.6	434	13.9	18,299,892	434	26.8			
	Bush 50% to 55%	982	26,682,203	31	3.2	2,675,461	31	10.0	365	37.2	10,989,946	365	41.2	66	6.7	3,788,160	66	14.2			
	Bush < 50%	136	2,041,746	6	4.4	263,733	6	12.9	35	25.7	334,073	34	16.4	7	5.1	856,569	7	42.0			
	Kerry < 50%	150	4,850,492	1	0.7	79,335	1	1.6	48	32.0	2,213,925	48	45.6	3	2.0	148,377	3	3.1			
	Kerry 50% to 55%	872	23,160,396	25	2.9	1,261,687	24	5.4	323	37.0	7,455,340	320	32.2	41	4.7	5,507,850	41	23.8			
	Kerry > 55%	1,161	49,846,628	16	1.4	4,212,046	16	8.5	462	39.8	17,763,711	461	35.6	57	4.9	11,467,837	57	23.0			
	Tied	25	14,032						2	8.0	2,743	2	19.5								

Voting Equipment Usage

EAC Election Day Survey		Cases = Number of Jurisdictions Reporting Subject Matter																		
Voting Equipment Usage 2004 General Ele																				
Updated: 09/19/2005 13:06:28																				
Code	Name	Election Administration Jurisdictions	2004 Total Registrations	Lever Machine Voting Equipment				Paper Ballots Voting Equipment				Mixed Voting Equipment				Unknown (Not Reported)				
				Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	% of Regis Using	Number of Juris.	% of Juris.	Regis in Juris.	Cases	% of Regis
01	Alabama	67	2,597,629																	
02	Alaska	1	472,160																	
04	Arizona	15	2,642,120																	
05	Arkansas	75	1,699,934	5	6.7	106,474	5	6.3	9	12.0	71,273	9	4.2	2	2.7	321,734	2	18.9		
06	California	58	16,646,555											1	1.7	773,125	1	4.6		
08	Colorado	64	3,101,956						7	10.9	11,563	7	0.4	6	9.4	1,349,325	6	43.5		
09	Connecticut	169	1,831,567	169	100.0	1,831,567	169	100.0												
10	Delaware	3	553,917																	
11	District of Columbia	1	383,919											1	100.0	383,919	1	100.0		
12	Florida	67	10,300,942											2	3.0	94,458	2	0.9		
13	Georgia	159	4,248,802																	
15	Hawaii	5	647,238											5	100.0	647,238	4	100.0		
16	Idaho	44	915,637						16	36.4	69,896	16	7.6							
17	Illinois	110	7,195,882																	
18	Indiana	92	4,296,602	1	1.1	20,095	1	0.5												
19	Iowa	99	2,226,721	1	1.0	22,995	1	1.0												
20	Kansas	105	1,695,457						20	19.0	53,839	20	3.2	1	1.0	21,619	1	1.3		
21	Kentucky	120	2,794,286	1	0.8	15,903	1	0.6						4	3.3	34,525	4	1.2		
22	Louisiana	64	2,932,142	50	78.1	1,329,373	50	45.3												
23	Maine	517	1,026,219						385	74.5	346,866	385	33.8				18	3.5	10,992	
24	Maryland	24	3,105,370																	
25	Massachusetts	351	4,098,634						71	20.2	99,947	71	2.4				6	1.7	126,824	
26	Michigan	83	7,164,047	2	2.4	22,692	2	0.3						30	36.1	4,593,424	30	64.1		
27	Minnesota	87	2,977,496						7	8.0	27,951	7	0.9	19	21.8	547,941	19	18.4		
28	Mississippi	82	1,469,608	8	9.8	82,550	4	5.6												
29	Missouri	116	4,194,416						9	7.8	812,145	9	19.4							
30	Montana	56	638,474						20	35.7	39,694	20	6.2							
31	Nebraska	93	1,160,193						45	48.4	112,448	45	9.7							
32	Nevada	17	1,073,869																	
33	New Hampshire	242	950,292						145	59.9	281,020	145	29.6				5	2.1	172	
34	New Jersey	21	5,011,693	5	23.8	1,302,401	5	26.0												
35	New Mexico	33	505,356														33	100.0	505,356	
36	New York	58	11,837,068	58	100.0	11,837,068	58	100.0												
37	North Carolina	100	5,526,981	3	3.0	41,289	3	0.7	3	3.0	12,562	3	0.2	7	7.0	289,393	7	5.2		
38	North Dakota	53	490,179						5	9.4	11,743	5	2.4							
39	Ohio	88	7,965,110														80	90.9	6,214,700	
40	Oklahoma	77	2,143,978																	
41	Oregon	36	2,141,249																	
42	Pennsylvania	67	8,366,455	20	29.9	4,022,724	20	48.1	2	3.0	48,190	2	0.6	2	3.0	97,941	2	1.2		
44	Rhode Island	39	707,234																	
45	South Carolina	46	2,318,235																	
46	South Dakota	66	502,261						16	24.2	35,033	16	7.0							
47	Tennessee	95	3,748,235	8	8.4	80,243	8	2.1						8	8.4	189,998	8	5.1		
48	Texas	254	13,098,329	2	0.8	209,197	2	1.6	88	34.6	341,961	88	2.6	3	1.2	1,317,280	3	10.1	6	
49	Utah	29	1,278,912						4	13.8	5,125	4	0.4						4,264,421	
50	Vermont	246	444,508						177	72.0	151,384	177	34.1							
51	Virginia	134	4,515,675	38	28.4	544,663	38	12.1						30	22.4	1,940,815	30	43.0	913	
53	Washington	39	3,508,208											1	2.6	352,238	1	10.0	2	
54	West Virginia	55	1,168,694	3	5.5	79,517	3	6.8	10	18.2	85,410	10	7.3						9,499	
55	Wisconsin	1,910	4,179,774	17	0.9	101,657	17	2.4	695	36.4	467,117	694	11.2				644	33.7	860,754	
56	Wyoming	23	273,950	3	13.0	12,211	3	4.5						1	4.3	42,918	1	15.7	629	
60	American Samoa	1															1	100.0		
66	Guam	1															1	100.0		
72	Puerto Rico	110	2,440,131														110	100.0	2,440,131	
78	Virgin Islands	1	50,731														1	100.0	50,731	
	Total	6,568	177,265,030	394	6.0	21,662,619	390	12.2	1,734	26.4	3,085,167	1,733	1.7	123	1.9	12,997,891	122	7.3	908	
	Maximum	1,910	16,646,555	169	100.0	11,837,068	169	100.0	695	74.5	812,145	694	34.1	30	100.0	4,593,424	30	100.0	644	
	Average	119	3,344,623	21	23.0	1,203,478	21	20.2	86	27.4	154,258	86	9.2	7	19.3	764,581	7	26.1	69	
	Minimum	1	50,731	1	0.8	12,211	1	0.3	2	3.0	5,125	2	0.2	1	1.0	21,619	1	0.9	1	

Voting Equipment Usage

EAC Election Day Survey																				Cases = Number of Jurisdictions Reporting Subject Matter					
Voting Equipment Usage 2004 General Ele																									
Updated: 09/19/2005 13:06:28																									
Code	Name	Election Administration Jurisdictions	2004 Total Registration	Lever Machine Voting Equipment					Paper Ballots Voting Equipment					Mixed Voting Equipment					Unknown (Not Reported)						
				Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris.	% of Juris.	Regis in Juris.	Cases	% of Regis		
Election Administration																									
Voting Equipment Used in 2004 General Election																									
	None / Unknown	908	14,484,493																908	100.0	14,484,493	877	100.0		
	Punch card	260	15,767,547																						
	Lever	394	21,662,619	394	100.0	21,662,619	390	100.0																	
	Paper	1,734	3,085,167						1,734	100.0	3,085,167	1,733	100.0												
	Optical scan	2,541	69,198,628																						
	Electronic	608	40,068,685																						
	Multiple Systems	123	12,997,891											123	100.0	12,997,891	122	100.0							
Changed Voting Equipment Since 2000 General Election																									
	Yes	1,753	51,149,755	42	2.4	452,951	42	0.9	455	26.0	462,719	455	0.9	35	2.0	2,006,317	35	3.9	285	16.3	5,138,083	281	10.0		
	No	4,815	126,115,275	352	7.3	21,209,668	348	16.8	1,279	26.6	2,622,448	1,278	2.1	88	1.8	10,991,574	87	8.7	623	12.9	9,346,410	596	7.4		
State Wide Voter Registration System in Place																									
	Yes	1,335	37,384,852	225	16.9	3,279,052	225	8.8	104	7.8	248,341	104	0.7	59	4.4	6,207,047	58	16.6	39	2.9	632,180	26	1.7		
	No	5,233	139,880,178	169	3.2	18,383,567	165	13.1	1,630	31.1	2,836,826	1,629	2.0	64	1.2	6,790,844	64	4.9	869	16.6	13,852,313	851	9.9		
Election Day Registration																									
	Yes	2,823	10,323,368	20	0.7	113,868	20	1.1	1,248	44.2	1,192,850	1,247	11.6	20	0.7	590,859	20	5.7	667	23.6	871,918	651	8.4		
	No	3,745	166,941,662	374	10.0	21,548,751	370	12.9	486	13.0	1,892,317	486	1.1	103	2.8	12,407,032	102	7.4	241	6.4	13,612,575	226	8.2		
Provisional Ballot Acceptance																									
	In Overall Jurisdiction	1,162	65,077,741	78	6.7	5,499,860	78	8.5	202	17.4	300,097	202	0.5	19	1.6	3,183,756	19	4.9	34	2.9	506,269	21	0.8		
	In Precinct Only	4,350	103,336,604	316	7.3	16,162,759	312	15.6	974	22.4	2,047,594	973	2.0	85	2.0	9,266,194	84	9.0	738	17.0	11,476,198	723	11.1		
	None	1,056	8,850,685						558	52.8	737,476	558	8.3	19	1.8	547,941	19	6.2	136	12.9	2,502,026	133	28.3		
No Excuse Absentee Balloting																									
	Yes	3,781	64,333,790	74	2.0	1,507,525	74	2.3	1,393	36.8	1,317,270	1,392	2.0	24	0.6	3,570,314	23	5.5	696	18.4	1,378,015	668	2.1		
	No	2,787	112,931,240	320	11.5	20,155,094	316	17.8	341	12.2	1,767,897	341	1.6	99	3.6	9,427,577	99	8.3	212	7.6	13,106,478	209	11.6		
Early Voting Allowed																									
	Yes	1,701	73,710,075	25	1.5	551,926	25	0.7	355	20.9	849,325	355	1.2	36	2.1	5,047,088	35	6.8	40	2.4	4,770,690	27	6.5		
	No	4,867	103,554,955	369	7.6	21,110,693	365	20.4	1,379	28.3	2,235,842	1,378	2.2	87	1.8	7,950,803	87	7.7	868	17.8	9,713,803	850	9.4		
Covered By Section 203, Language Minority Requirements																									
	Yes	468	50,756,496	15	3.2	3,456,411	15	6.8	97	20.7	374,141	97	0.7	8	1.7	3,036,303	8	6.0	39	8.3	4,769,777	26	9.4		
	No	6,100	126,508,534	379	6.2	18,206,208	375	14.4	1,637	26.8	2,711,026	1,636	2.1	115	1.9	9,961,588	114	7.9	869	14.2	9,714,716	851	7.7		
Covered By Section 5 of Voting Rights Act																									
	Yes	880	40,868,855	100	11.4	2,195,885	96	5.4	94	10.7	350,135	94	0.9	35	4.0	3,302,379	35	8.1	9	1.0	4,273,953	9	10.5		
	No	5,688	136,396,175	294	5.2	19,466,734	294	14.3	1,640	28.8	2,735,032	1,639	2.0	88	1.5	9,695,512	87	7.1	899	15.8	10,210,540	868	7.5		

Voting Equipment Usage

EAC Election Day Survey		Cases = Number of Jurisdictions Reporting Subject Matter																					
Voting Equipment Usage 2004 General Ele																							
Updated: 09/19/2005 13:06:28		Lever Machine Voting Equipment					Paper Ballots Voting Equipment					Mixed Voting Equipment					Unknown (Not Reported)						
Code	Name	Election Administration Jurisdictions	2004 Total Registration	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using
Demographics																							
Region																							
	Northeast	1,710	34,273,670	252	14.7	18,993,760	252	55.4	780	45.6	927,407	780	2.7	2	0.1	97,941	2	0.3	30	1.8	138,901	29	0.4
	South	1,423	62,606,676	118	8.3	2,489,209	114	4.0	110	7.7	511,206	110	0.8	57	4.0	4,572,122	57	7.3	8	0.6	4,273,920	8	6.8
	Midwest	2,902	44,048,138	21	0.7	167,439	21	0.4	797	27.5	1,520,276	796	3.5	50	1.7	5,162,984	50	11.7	724	24.9	7,075,454	709	16.1
	West	420	33,845,684	3	0.7	12,211	3	0.0	47	11.2	126,278	47	0.4	14	3.3	3,164,844	13	9.4	33	7.9	505,356	20	1.5
	Territories	113	2,490,862																113	100.0	2,490,862	111	100.0
Urban to Rural																							
	Urban	567	63,441,314	64	11.3	11,240,397	64	17.7	31	5.5	809,080	31	1.3	17	3.0	6,518,934	17	10.3	77	13.6	5,829,661	77	9.2
	Suburban	871	47,552,530	100	11.5	5,290,987	100	11.1	162	18.6	225,664	162	0.5	11	1.3	2,324,729	11	4.9	117	13.4	3,011,718	115	6.3
	Small Towns	1,710	44,193,768	144	8.4	4,144,075	142	9.4	262	15.3	524,705	262	1.2	53	3.1	3,233,594	53	7.3	157	9.2	2,456,137	146	5.6
	Rural	3,307	19,586,556	86	2.6	987,160	84	5.0	1,279	38.7	1,525,718	1,278	7.8	42	1.3	920,634	41	4.7	444	13.4	696,115	428	3.6
	Not Available - Territories	113	2,490,862																113	100.0	2,490,862	111	100.0
Size of Jurisdiction (VAP)																							
	< 1,000	1,761	895,006	8	0.5	3,604	8	0.4	1,081	61.4	534,821	1,081	59.8	1	0.1				460	26.1	217,719	457	24.3
	>=1,000 to <3,500	1,165	2,182,148	42	3.6	73,913	42	3.4	495	42.5	847,878	495	38.9	1	0.1	2,214	1	0.1	150	12.9	251,623	149	11.5
	>=3,500 to <10,000	1,043	5,966,645	82	7.9	435,793	81	7.3	117	11.2	574,709	117	9.6	13	1.2	83,824	13	1.4	37	3.5	187,384	34	3.1
	>=10,000 to <50,000	1,704	31,472,681	181	10.6	3,314,539	178	10.5	30	1.8	390,131	30	1.2	56	3.3	1,224,175	56	3.9	83	4.9	1,832,765	78	5.8
	>=50,000 to <250,000	586	48,992,270	62	10.6	5,074,639	62	10.4						38	6.5	3,231,961	38	6.6	34	5.8	2,783,704	32	5.7
	>=250,000 to <1,000,000	140	51,396,493	16	11.4	6,417,596	16	12.5	1	0.7	736,709	1	1.4	11	7.9	5,038,913	11	9.8	7	5.0	2,863,517	6	5.6
	>=1,000,000	25	33,867,508	3	12.0	6,342,535	3	18.7						3	12.0	3,416,804	3	10.1	3	12.0	3,856,421	3	11.4
	Not Available	144	2,492,279						10	6.9	919	9	0.0						134	93.1	2,491,360	118	100.0
Race and Ethnicity																							
	Predominantly NH White	6,264	163,662,585	379	6.1	21,472,098	378	13.1	1,710	27.3	3,058,990	1,710	1.9	120	1.9	12,472,076	119	7.6	757	12.1	10,476,153	747	6.4
	Predominantly NH Black	85	3,098,023	14	16.5	145,811	11	4.7						3	3.5	525,815	3	17.0					
	Predominantly NH Native America	24	231,022						11	45.8	16,248	11	7.0						5	20.8	53,932	5	23.3
	Predominantly Hispanic	50	7,749,995	1	2.0	44,710	1	0.6	3	6.0	9,010	3	0.1						12	24.0	1,463,048	7	18.9
	Not Available	145	2,523,405						10	6.9	919	9	0.0						134	92.4	2,491,360	118	98.7
Median Income																							
	< \$25,000	298	2,504,552	26	8.7	337,012	23	13.5	87	29.2	109,819	87	4.4	9	3.0	85,267	8	3.4	19	6.4	42,247	15	1.7
	>=\$25,000 to <\$30,000	884	8,917,739	43	4.9	828,810	42	9.3	286	32.4	520,788	286	5.8	7	0.8	93,430	7	1.0	77	8.7	616,997	73	6.9
	>=\$30,000 to <\$35,000	1,372	22,970,583	59	4.3	1,964,379	59	8.6	379	27.6	655,729	379	2.9	31	2.3	938,397	31	4.1	141	10.3	991,456	139	4.3
	>=\$35,000 to <\$40,000	1,215	40,443,694	50	4.1	8,517,735	50	21.1	367	30.2	348,252	367	0.9	30	2.5	1,891,713	30	4.7	130	10.7	3,354,236	129	8.3
	>=\$40,000 to <\$45,000	881	37,780,840	39	4.4	2,831,991	39	7.5	266	30.2	241,780	266	0.6	14	1.6	4,457,301	14	11.8	161	18.3	4,505,166	160	11.9
	>=\$45,000 to <\$50,000	587	21,218,675	25	4.3	1,569,287	25	7.4	158	26.9	162,972	158	0.8	13	2.2	1,381,215	13	6.5	97	16.5	1,281,763	97	6.0
	>=\$50,000	1,180	40,936,586	152	12.9	5,613,405	152	13.7	178	15.1	1,044,855	178	2.6	19	1.6	4,150,568	19	10.1	146	12.4	1,201,244	144	2.9
	Not Available	151	2,492,361						13	8.6	972	12	0.0						137	90.7	2,491,384	120	100.0
High School Education																							
	< 60%	126	1,817,027	12	9.5	124,101	12	6.8	11	8.7	12,530	11	0.7	9	7.1	82,689	8	4.6	3	2.4	29,394	3	1.6
	>=60% to <70%	661	14,944,978	62	9.4	1,181,123	58	7.9	110	16.6	260,290	110	1.7	11	1.7	222,376	11	1.5	37	5.6	467,637	34	3.1
	>=70% to <80%	1,646	49,285,773	83	5.0	7,525,951	83	15.3	437	26.5	626,736	437	1.3	35	2.1	5,380,803	35	10.9	201	12.2	3,744,898	195	7.6
	>=80% to <90%	3,111	93,198,279	155	5.0	12,092,256	155	13.0	928	29.8	1,891,014	928	2.0	63	2.0	5,791,564	63	6.2	437	14.0	6,938,673	434	7.4
	>=90%	873	15,495,512	82	9.4	739,188	82	4.8	236	27.0	293,651	236	1.9	5	0.6	1,520,459	5	9.8	93	10.7	812,507	91	5.2
	Not Available	151	2,523,461						12	7.9	946	11	0.0						137	90.7	2,491,384	120	98.7

Voting Equipment Usage

EAC Election Day Survey		Cases = Number of Jurisdictions Reporting Subject Matter																					
Voting Equipment Usage 2004 General Ele																							
Updated: 09/19/2005 13:06:28		Lever Machine Voting Equipment				Paper Ballots Voting Equipment				Mixed Voting Equipment				Unknown (Not Reported)									
Code	Name	Election Administration Jurisdictions	2004 Total Registration	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using	Number of Juris. Using	% of Juris. Using	Regis in Juris. Using	Cases	% of Regis Using
Political																							
Battleground States in 2004 Presidential Election																							
	Yes	3,093	64,166,639	48	1.6	4,356,059	48	6.8	884	28.6	1,804,669	883	2.8	62	2.0	7,357,061	62	11.5	762	24.6	7,580,982	733	11.8
	No	3,475	113,098,391	346	10.0	17,306,560	342	15.3	850	24.5	1,280,498	850	1.1	61	1.8	5,640,830	60	5.0	146	4.2	6,903,511	144	6.1
Margin of Victory in 2004 Presidential Election																							
	< 2.5%	515	15,923,548	42	8.2	2,180,368	42	13.7	163	31.7	187,631	163	1.2	17	3.3	2,878,104	17	18.1	66	12.8	549,748	66	3.5
	>=2.5% to < 5.0%	476	11,133,130	35	7.4	2,049,499	35	18.4	143	30.0	165,539	143	1.5	10	2.1	1,109,540	10	10.0	80	16.8	597,177	78	5.4
	>=5.0% to < 7.5%	510	13,830,932	38	7.5	1,725,756	37	12.5	169	33.1	192,820	169	1.4	6	1.2	969,841	6	7.0	61	12.0	511,764	60	3.7
	>=7.5% to < 10.0 %	429	8,833,490	27	6.3	990,468	27	11.2	142	33.1	917,500	142	10.4	10	2.3	802,965	10	9.1	56	13.1	947,597	56	10.7
	>=10.0 %	4,492	125,044,988	251	5.6	14,715,610	248	11.8	1,109	24.7	1,615,393	1,109	1.3	79	1.8	7,237,441	79	5.8	510	11.4	9,387,094	498	7.5
Red vs Blue Jurisdictions Won By in 2004 Presidential Election																							
	Bush > 55%	3,115	68,178,580	141	4.5	4,075,960	140	6.0	652	20.9	1,168,626	652	1.7	56	1.8	3,490,182	56	5.1	345	11.1	3,429,745	338	5.0
	Bush 50% to 55%	982	26,682,203	67	6.8	2,187,512	66	8.2	289	29.4	401,282	289	1.5	23	2.3	3,007,090	23	11.3	141	14.4	3,632,752	139	13.6
	Bush < 50%	136	2,041,746	15	11.0	497,746	15	24.4	49	36.0	43,431	49	2.1	3	2.2	32,003	3	1.6	21	15.4	14,191	21	0.7
	Kerry < 50%	150	4,850,492	20	13.3	1,418,150	20	29.2	54	36.0	47,575	54	1.0	4	2.7	922,760	4	19.0	20	13.3	20,370	20	0.4
	Kerry 50% to 55%	872	23,160,396	68	7.8	4,135,079	67	17.9	288	33.0	1,022,086	288	4.4	16	1.8	1,905,061	16	8.2	111	12.7	1,873,293	110	8.1
	Kerry > 55%	1,161	49,846,628	82	7.1	9,347,254	81	18.8	389	33.5	391,956	389	0.8	20	1.7	3,640,795	20	7.3	135	11.6	3,023,029	130	6.1
	Tied	25	14,032	1	4.0	918	1	6.5	13	52.0	10,211	12	72.8						9	36.0	160	6	1.1