Election Data Services

FOR IMMEDIATE RELEASE
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Almost 55 Million, or One-Third of the Nation's Voters, Will Face New Voting Equipment in 2006 Election

84 Million Voters Now Reside in Jurisdictions Using Optical Scan Equipment.
66 Million Are in Jurisdictions Using Electronic (DRE) Equipment.

Nearly one-third of the nation's registered voters will face new voting equipment this November, compared to the November 2004 election two years ago. Since the turbulent presidential election of 2000 and the resulting enactment of the Help America Vote Act (HAVA), jurisdictions with 63% of the nation's registered voters have changed their voting systems, marking the largest shift in voting equipment in this nation's history.

These are just two of the findings of a study released today by Election Data Services Inc., a Washington, D.C.-based consulting firm that specializes in election administration and redistricting issues. President Kimball Brace noted that the nearly 30-year old company had been keeping track of voting equipment usage since 1980. The study focused on voting equipment used by county election jurisdictions nationwide. Other findings showed:

- Voting system changes this year were dominated by smaller jurisdictions, where resources to help the conversion are more limited.
- Fifty-six percent (56%) of the counties, with 48.9% of the nation's registered voters, will be using Optical Scan equipment.
- Thirty-six percent (36%) of the counties, with 38.4% of the registered voters, will be using Electronic equipment.
- Early registration data from the primary elections and later shows a decline of nearly 4.3 million voters (a 2.5% drop) from the 2004 general election.
- Caution on use of absentee ballots: History has shown that more errors occur don't have a chance to correct the ballot.

Despite efforts to replace Lever and Punch Card voting equipment by the 2006 elections, some 12 million registered voters reside in counties that still use Lever machines or Punch Card ballots. The study also found that almost half of all registered voters (84 million voters, or 48.9%) now reside in jurisdictions that use Optically Scanned paper ballots. This occurs in nearly 56.2% of the nation's counties, indicating smaller jurisdictions lean towards the use of Optical Scan equipment. Thirty-eight percent (38.4%) of voters (65.9 million) are in jurisdictions that use direct recording Electronic (DRE) voting equipment. Lever machines account for some 6.8% of registered voters; Punch Cards and hand-counted Papers ballots, for about 0.4%.

Voting Equipment for November 2006 Election

Type of Voting Equipment	Counties		Registered Voters	
	Number	Percent	Number	Percent
Punch Cards	13	0.42	414,027	0.24
Lever Machines	62	1.99	11,627,385	6.83
Hand-Counted Paper Ballots	57	1.83	330,912	0.19
Optically Scanned Paper Ballots	1,752	56.19	84,026,447	48.94
Electronic (DRE) Equipment	1,142	36.63	65,959,464	38.42
Mixed (Multiple Types)	92	2.95	9,341,055	5.44
TOTAL	**3,118**	**100.00**	**171,699,290**	**100.00**

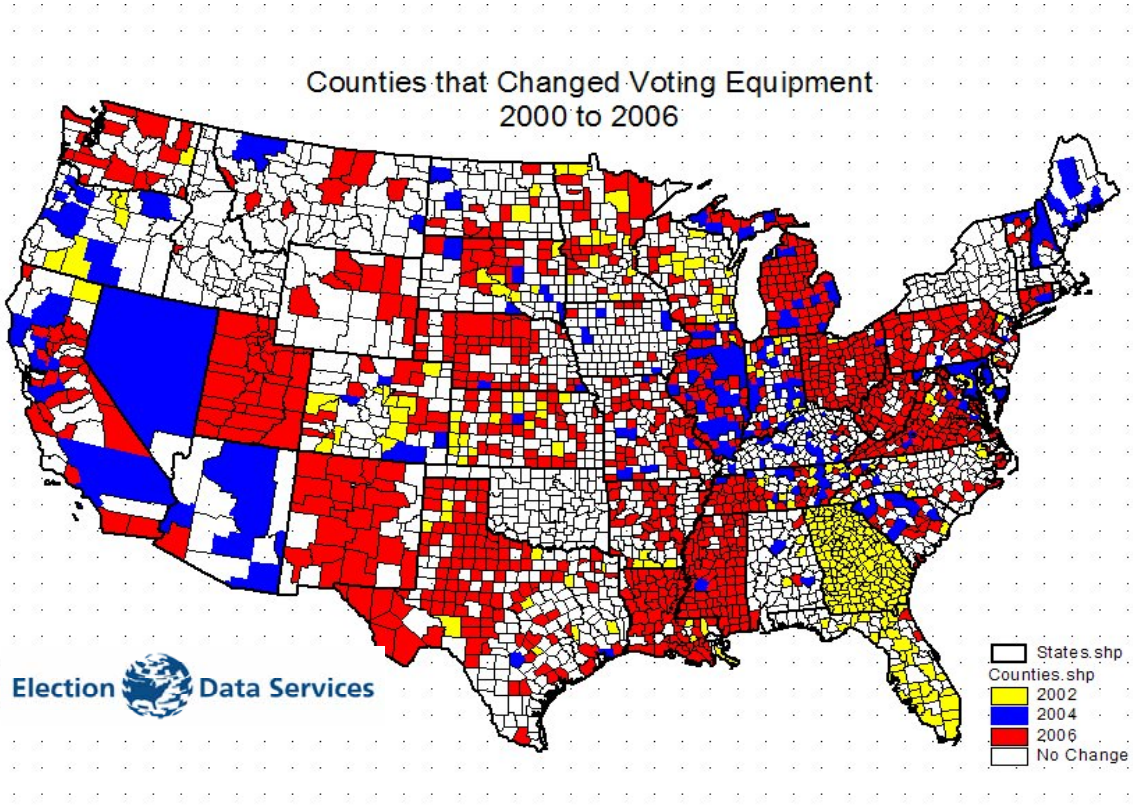
Most of the voters in the jurisdictions still using older equipment are in the state of **New York**, where all 62 counties continue to use Lever machines. In **Connecticut**, where elections are conducted by townships, only 25 of the state's 169 towns made the switch from Lever machines to Optical Scan equipment for the 2006 elections. Punch Cards, on the other hand, have been eliminated, except in thirteen (13) **Idaho** counties.

Voting Equipment Changes

The study found that about 34% of counties have acquired new voting equipment over the past two years, and that about 32% of registered voters in the country will be using new voting equipment this November. The smaller proportion of registered voters to counties is an indication that the purchases for this election have primarily been among smaller-sized jurisdictions. Brace noted that these jurisdictions are less likely to have the financial resources to handle the conversion process. "History shows us that the greatest likelihood of election errors occurs the first time a jurisdiction changes voting systems," Brace said. The following table shows voting equipment changes by counties and their effect on registered voters since November 2000. Those changes are also shown on the map below.

Voting Equipment Changes Since November 2000

Time Period/Election Cycle	Counties		Registered Voters	
	Number	Percent	Number	Percent
Nov–2000 to Nov–2002	388	12.3%	21,388,975	13.5%
Nov–2002 to Nov–2004	324	10.3%	32,811,731	19.2%
Nov–2004 to Nov–2006	1,078	34.2%	54,569,357	31.9%
TOTAL	1,790	56.7%	108,770,063	63.4%



Voting Equipment Changes

The number of jurisdictions using DREs and Optical Scanning devices has, of course, increased with the HAVA goal for the replacement of Lever and Punch Card equipment by 2006. A HAVA requirement, that each voting precinct have at least one accessible voting system, seems also to have reduced the number of jurisdictions using hand-counted Paper ballots.

From November 2000 to November 2006, the number of counties using Optical Scan equipment increased from 1,279 to 1,752, while the number of counties using Electronic equipment increased from 309 to 1,142. Counties using hand-counted Paper ballots *only* declined from 370 in 2000 to only 57 in 2006. But the Mixed category includes counties in Maine, New Hampshire, Vermont, and Wisconsin where parts of counties (i.e., townships) still use hand-counted Paper ballots. Other townships in those counties use Optically Scanned paper ballots.

Voting Equipment Changes by Equipment Type — Counties

Type of Voting Equipment	Number of Counties			
	Nov–2000	Nov–2002	Nov–2004	Nov–2006
Punch Cards	572	459	330	13
Lever Machines	434	288	264	62
Hand-Counted Paper Ballots	370	304	298	57
Optically Scanned Paper Ballots	1,279	1,360	1,443	1,752
Electronic (DRE) Equipment	309	547	631	1,142
Mixed (Multiple Types)	149	156	148	92
TOTAL	**3,113**	**3,114**	**3,114**	**3,118**

More important, perhaps, is to look how the changes have affected registered voters. From November 2000 to November 2006, the number of registered voters who resided in counties using Optical Scan equipment increased from 46.7 million (29.5% of all voters) to 84.0 million (48.9%). The number of voters in counties using Electronic equipment increased from 19.7 million (12.4%) to 65.9 million (38.4%), while the number of voters in counties using hand-counted Paper ballots declined from 2.0 million (1.3%) to 0.3 million (0.2%).

Voting Equipment Changes by Equipment Type — Registered Voters

Type of Voting Equipment	Percent of Registered Voters			
	Nov–2000	Nov–2002	Nov–2004	Nov–2006
Punch Cards	30.7	23.1	12.4	0.2
Lever Machines	17.2	14.9	13.2	6.8
Hand-Counted Paper Ballots	1.3	0.8	0.6	0.2
Optically Scanned Paper Ballots	29.5	31.0	35.6	48.9
Electronic (DRE) Equipment	12.4	22.0	29.2	38.4
Mixed (Multiple Types)	8.9	8.2	8.9	5.4
TOTAL	100.0	100.0	100.0	100.0

Election Data Services' first voting equipment study in 1980 found that 40.7% of the nation's counties used hand counted Paper ballots. However, because they were primarily smaller jurisdictions, only 10.5% of the registered voters in the country voted on Paper. That same year, 36.7% of the counties used Lever machines, which amounted to 42.9% of the registered voters. Punch Cards could be found in 17.4% of the nation's counties, but because they were mainly the large jurisdictions, they accounted for 29.3% of the registered voters. A chart attached to this release provides a full history of voting equipment usage in the United States. Tables with data for previous election years are also attached.

Voter Registration for 2006

As part of the voting equipment study, Election Data Services also collected updated voter registration totals from all 50 states. Depending on availability, the data was either for the state's primary election or is more current. The study showed that nearly 171.6 million are registered for the upcoming election, but this is down nearly 4.3 million (or 2.5%) from the 2004 general election. Only 10 states showed an increase in registration, while 40 states and the District of Columbia reported declines. The largest percent decrease was the District of Columbia (-19.6%), while the biggest numeric change occurred in California, which lost more than 978,000 registered voters.

History has shown that off-year elections do experience a decline in registration totals from the previous presidential election. However, 2006 is the first election after the merger of county-level registration databases into the statewide systems, as required by HAVA. It is too early to tell whether the decline is part of the normal electoral pattern or whether the decline reflects the clean up of the voter rolls to eliminate duplicate registrations.

Absentee Voting Caution

Both political parties have been pushing absentee balloting this election and previous studies have found greater shares of the total vote coming from absentee and early voting. Brace, however, noted that without checking mechanisms, greater errors are possible with absentee voting. Previous studies have shown error rates up to five times greater when ballots were not checked for errors that include over-voting or stray marks.

About the Study

Election Data Services conducts voting equipment studies before the November general elections every two years. The first study was conducted in 1980 for the Federal Election Commission (FEC); the studies have been conducted independently since 1986. The studies classify voting equipment according to the following categories: (1) Punch Cards, (2) mechanical Lever machines, (3) hand-counted Paper ballots, (4) Optical Scan equipment, (5) Electronic equipment, and (6) Mixed—multiple types of equipment. The primary data resource is a nationwide Election Administration Database that covers some 8,000 county and township-level election jurisdictions. The Voting Equipment section of that database is periodically updated from surveys, news articles, interviews, and inventories compiled by state election directors. With each study, Election Data Services also produces a nationwide map that depicts voting equipment usage at the county level. The map is color-coded by equipment type and includes summary data for counties and registered voters. Maps from previous voting equipment studies dating back to 1980 are compiled on a Voting Equipment History Poster that depicts trends in voting equipment usage.

Election Data Services is a Washington, D.C.-based consulting firm that specializes in redistricting, election administration, and the analysis of census and political data. The company provides strategic assistance for voting equipment acquisitions and feasibility studies, needs assessments, and systems requirements analyses for election organizations developing new voter registration systems. Recent studies developed computer network options for statewide voter registration systems and models for integrating local voter registration systems into a statewide network. The firm also conducted the first major study on election administration for the United States Election Assistance Commission (EAC). President Brace has served as an expert witness in over 65 redistricting and election administration court cases in the past 30 years, including testimony on voting equipment in Florida's *Bush vs. Gore* court case in 2000.

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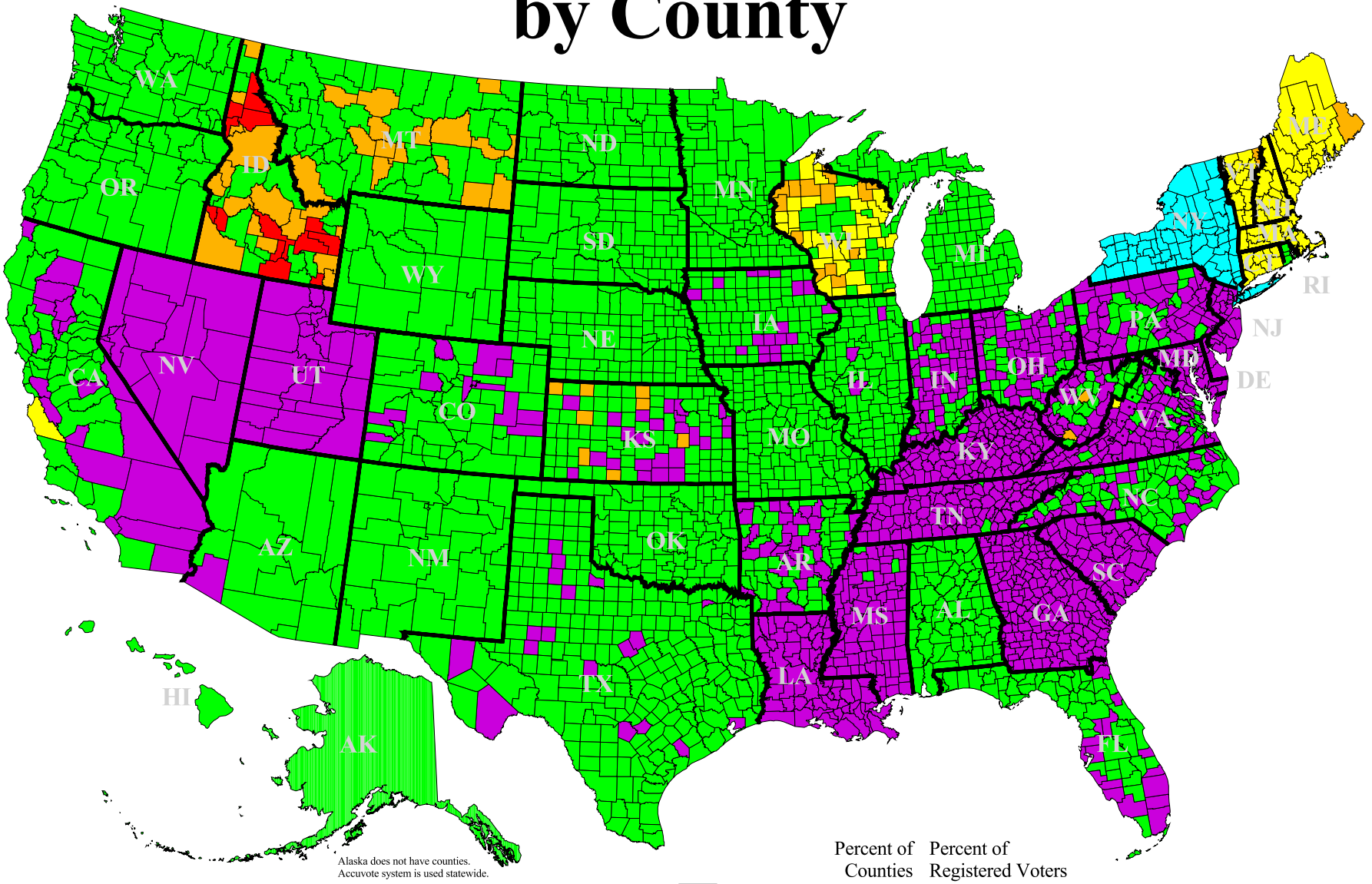
Voting Equipment Summary By Type as of: 11/07/2006

TYPE OF VOTING EQUIPMENT USED	NUMBER OF COUNTIES	%	NUMBER OF PRECINCTS	%	VOTING AGE POPULATION	%	REGISTRATION	%
Punchcard								
Unknown (PC)	13	0.42%	437	0.24%	591,913	0.27%	414,027	0.24%
Total Punchcard	**13**	**0.42%**	**437**	**0.24%**	**591,913**	**0.27%**	**414,027**	**0.24%**
Lever								
AVM Printomatic	56	1.80%	9,476	5.17%	8,362,475	3.79%	7,025,259	4.09%
IES Shoup Manual System	5	0.16%	5,544	3.02%	6,212,227	2.81%	4,388,757	2.56%
Unknown (LVR)	1	0.03%	318	0.17%	235,032	0.11%	213,369	0.12%
Total Lever	**62**	**1.99%**	**15,338**	**8.37%**	**14,809,734**	**6.70%**	**11,627,385**	**6.77%**
Paper ballot								
Paper Ballot	57	1.83%	759	0.41%	365,727	0.17%	330,912	0.19%
Total Paper ballot	**57**	**1.83%**	**759**	**0.41%**	**365,727**	**0.17%**	**330,912**	**0.19%**
Optical scan								
Accuvote ES-2000	14	0.45%	466	0.25%	572,621	0.26%	433,829	0.25%
AccuVote-OS	380	12.19%	21,909	11.95%	24,184,122	10.95%	19,664,839	11.45%
Airmac card reader	2	0.06%	10	0.01%	14,158	0.01%	13,085	0.01%
AIS Model 115 (OS)	14	0.45%	163	0.09%	129,654	0.06%	115,422	0.07%
AIS optical scan	30	0.96%	1,019	0.56%	654,899	0.30%	483,625	0.28%
Ballot Now	39	1.25%	3,511	1.92%	7,507,138	3.40%	5,866,916	3.42%
eScan	64	2.05%	3,284	1.79%	2,846,935	1.29%	2,217,877	1.29%
InkaVote	1	0.03%	450	0.25%	493,275	0.22%	480,337	0.28%
InkaVote Plus	1	0.03%	5,065	2.76%	7,312,794	3.31%	3,839,483	2.24%
Mark A Vote	4	0.13%	815	0.44%	702,892	0.32%	448,543	0.26%
Model 100 (OS)	314	10.07%	13,701	7.47%	18,138,608	8.21%	14,524,149	8.46%
Model 115 (OS)	40	1.28%	824	0.45%	799,335	0.36%	615,847	0.36%
Model 150 (OS)	74	2.37%	1,629	0.89%	930,202	0.42%	823,788	0.48%
Model 315 (OS)	16	0.51%	685	0.37%	931,454	0.42%	770,664	0.45%
Model 550 (OS)	15	0.48%	616	0.34%	832,427	0.38%	648,322	0.38%
Model 650 (OS)	53	1.70%	1,858	1.01%	1,940,122	0.88%	1,570,531	0.91%
Optech	9	0.29%	61	0.03%	34,607	0.02%	30,687	0.02%
Optech 400C	3	0.10%	379	0.21%	364,537	0.17%	256,228	0.15%
Optech Eagle	3	0.10%	183	0.10%	323,633	0.15%	294,506	0.17%
Optech II	5	0.16%	135	0.07%	223,061	0.10%	193,316	0.11%
Optech III-C	1	0.03%	11	0.01%	28,690	0.01%	21,761	0.01%
Optech III-P	7	0.22%	853	0.47%	1,560,643	0.71%	1,239,748	0.72%

Voting Equipment Summary By Type as of: 11/07/2006

TYPE OF VOTING EQUIPMENT USED	NUMBER OF COUNTIES	%	NUMBER OF PRECINCTS	%	VOTING AGE POPULATION	%	REGISTRATION	%
Optech III-P Eagle	193	6.19%	6,728	3.67%	9,116,652	4.13%	7,057,765	4.11%
Optech Insight	13	0.42%	6,150	3.36%	5,225,707	2.37%	3,550,477	2.07%
Optech IV-C	16	0.51%	2,591	1.41%	4,010,051	1.82%	2,543,424	1.48%
Unknown (OS)	441	14.14%	18,633	10.17%	19,768,135	8.95%	16,321,278	9.51%
Total Optical scan	**1,752**	**56.19%**	**91,729**	**50.04%**	**108,646,352**	**49.19%**	**84,026,447**	**48.94%**
Electronic								
AccuPoll (AVS 1000)	1	0.03%	26	0.01%	25,211	0.01%	19,820	0.01%
AccuVote-TS	360	11.55%	16,454	8.98%	21,422,637	9.70%	16,337,754	9.52%
AccuVote-TSX	25	0.80%	1,485	0.81%	1,862,983	0.84%	1,339,835	0.78%
AVC Advantage	116	3.72%	13,421	7.32%	14,368,165	6.50%	11,380,699	6.63%
AVC Edge	46	1.48%	4,496	2.45%	5,951,349	2.69%	3,640,656	2.12%
ELECTronic 1242	6	0.19%	2,662	1.45%	2,374,933	1.08%	2,078,016	1.21%
eSlate	58	1.86%	4,361	2.38%	5,299,562	2.40%	3,945,010	2.30%
Infinity	41	1.32%	798	0.44%	1,320,620	0.60%	1,033,869	0.60%
iVotronic	152	4.87%	10,174	5.55%	12,100,678	5.48%	9,843,710	5.73%
MicroVote DRE voting system	50	1.60%	1,284	0.70%	1,317,231	0.60%	1,110,843	0.65%
MV-464	24	0.77%	1,759	0.96%	1,502,927	0.68%	1,293,815	0.75%
Patriot	25	0.80%	319	0.17%	525,998	0.24%	401,149	0.23%
Shouptronics 1242	103	3.30%	2,608	1.42%	2,600,441	1.18%	2,254,851	1.31%
Unknown (DRE)	53	1.70%	3,692	2.01%	4,958,032	2.24%	3,851,855	2.24%
VoT Ware	4	0.13%	128	0.07%	100,627	0.05%	88,108	0.05%
Votronic	46	1.48%	4,547	2.48%	7,220,519	3.27%	5,512,620	3.21%
WINvote	32	1.03%	1,168	0.64%	2,294,030	1.04%	1,826,854	1.06%
Total Electronic	**1,142**	**36.63%**	**69,382**	**37.85%**	**85,245,943**	**38.59%**	**65,959,464**	**38.42%**
Mixed systems								
Mixed (multiple systems)	92	2.95%	5,653	3.08%	11,229,218	5.08%	9,341,055	5.44%
Total Mixed systems	**92**	**2.95%**	**5,653**	**3.08%**	**11,229,218**	**5.08%**	**9,341,055**	**5.44%**
Total:	**3,118**	**100.00%**	**183,298**	**100.00%**	**220,888,887**	**100.00%**	**171,699,290**	**100.00%**

November 2006 Voting Equipment Usage by County



Alaska does not have counties.
Accuvote system is used statewide.

	Percent of Counties	Percent of Registered Voters
Punchcard	.4%	.2%
Lever	2.0%	6.8%
Paper	1.8%	.2%
Optical	56.2%	48.9%
Electronic	36.6%	38.3%
Mixed Systems	3.0%	5.5%

Equipment expected to be used in the November 2006 election as reported by state election officials. The map shows equipment used at polling places, not necessarily absentee or disabled balloting.

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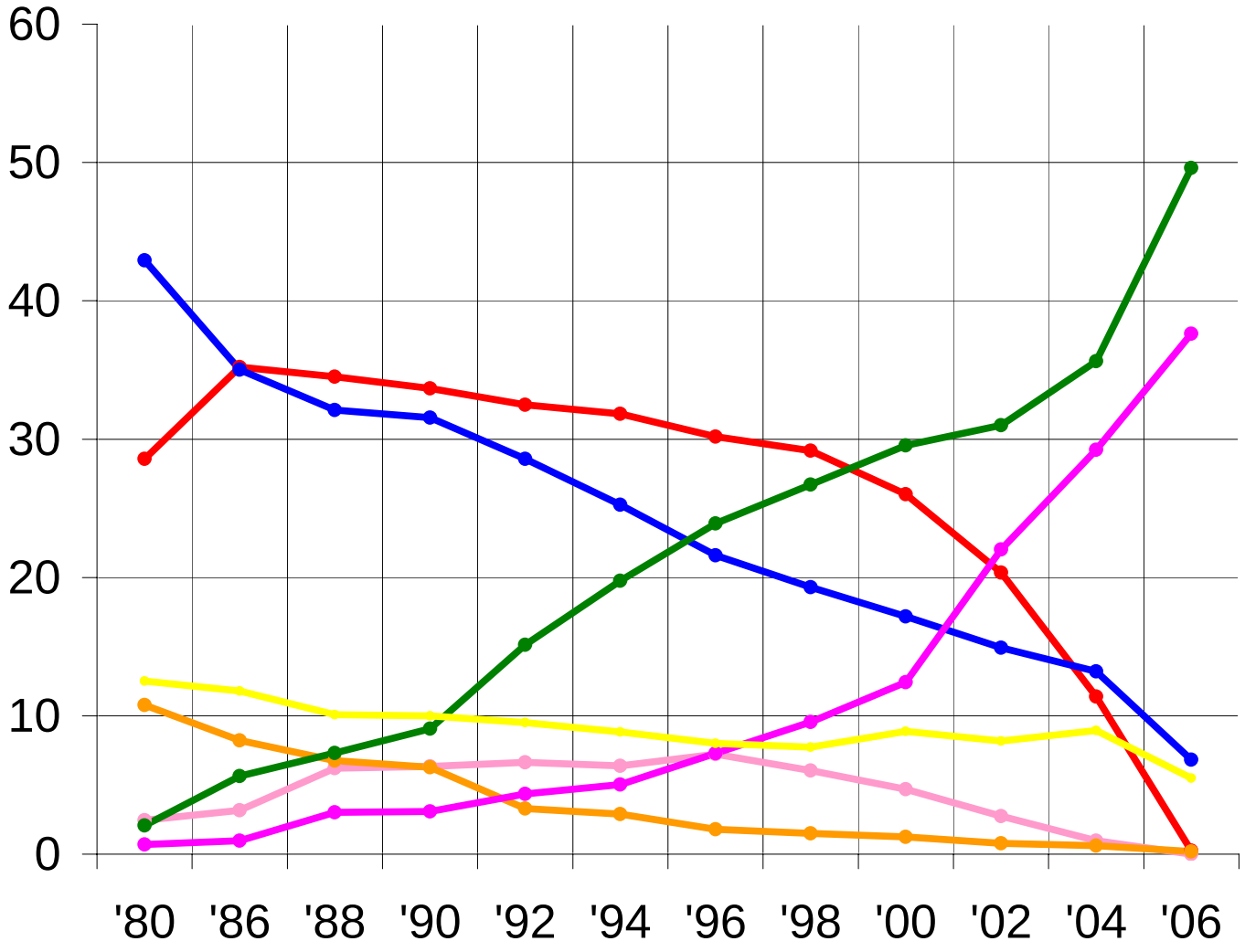
Percent of Registered Voters



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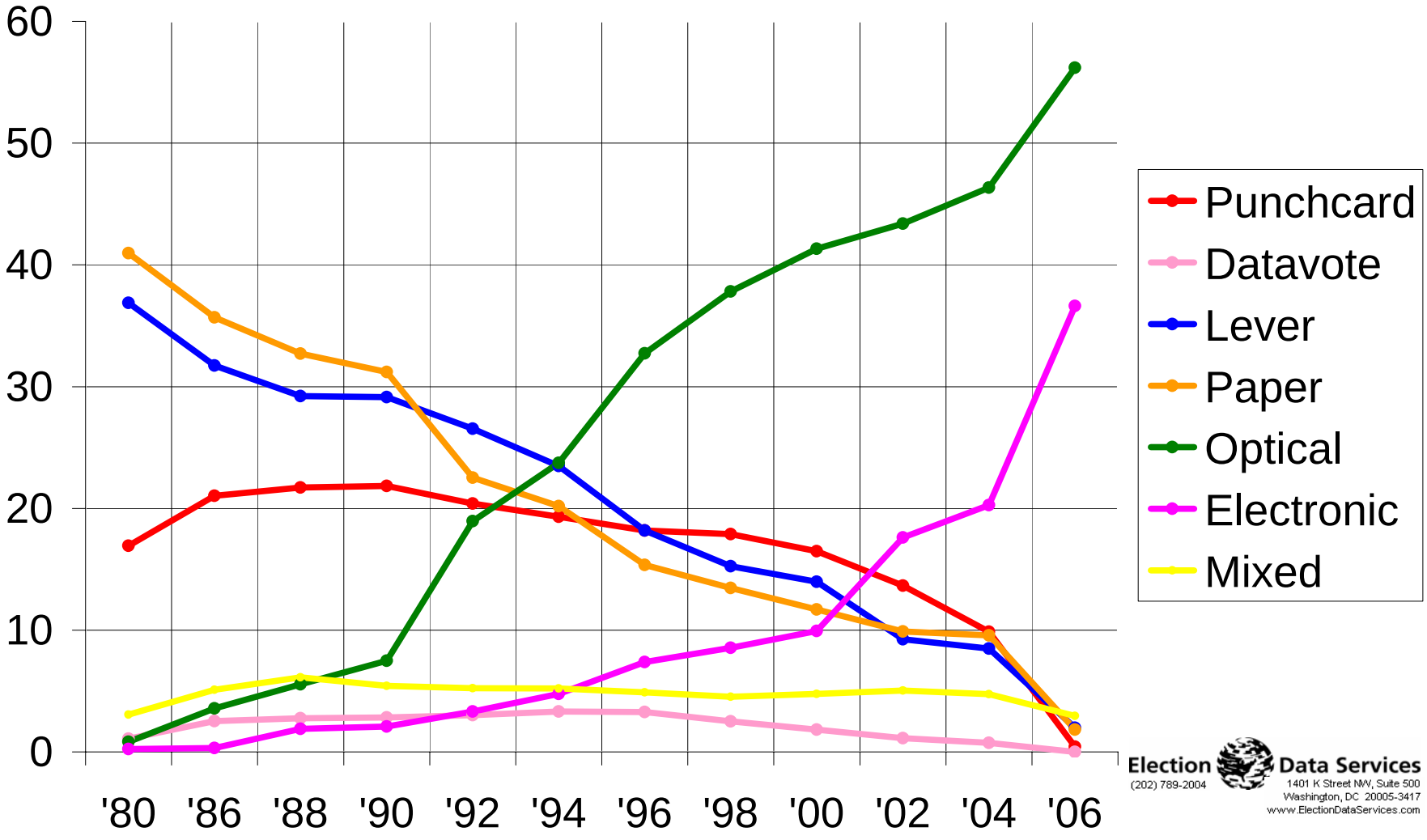
Percent of Counties



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Voter Registration
2006 & 2004 Comparison

Code	Name	2006 Primary or Latest Registration	2004 Reported Total Registration	Difference in Regis 2006 - 2004	Percent Change 2006 - 2004
01	Alabama	2,667,465	2,597,629	69,836	2.62%
02	Alaska	459,364	472,160	-12,796	-2.79%
04	Arizona	2,589,573	2,642,120	-52,547	-2.03%
05	Arkansas	1,677,398	1,699,934	-22,536	-1.34%
06	California	15,668,439	16,646,555	-978,116	-6.24%
08	Colorado	2,934,750	3,101,956	-167,206	-5.70%
09	Connecticut	2,044,181	1,831,567	212,614	10.40%
10	Delaware	554,194	553,917	277	0.05%
11	District of Columbia	321,087	383,919	-62,832	-19.57%
12	Florida	10,429,566	10,300,942	128,624	1.23%
13	Georgia	4,158,508	4,248,802	-90,294	-2.17%
15	Hawaii	655,741	647,238	8,503	1.30%
16	Idaho	713,535	799,581	-86,046	-12.06%
17	Illinois	7,263,969	7,499,488	-235,519	-3.24%
18	Indiana	3,939,103	4,296,602	-357,499	-9.08%
19	Iowa	2,066,122	2,226,721	-160,599	-7.77%
20	Kansas	1,646,987	1,695,457	-48,470	-2.94%
21	Kentucky	2,709,959	2,794,286	-84,327	-3.11%
22	Louisiana	2,923,395	2,932,142	-8,747	-0.30%
23	Maine	957,485	1,026,219	-68,734	-7.18%
24	Maryland	3,105,236	3,105,370	-134	0.00%
25	Massachusetts	3,934,672	4,098,634	-163,962	-4.17%
26	Michigan	7,113,246	7,164,047	-50,801	-0.71%
27	Minnesota	2,975,125	2,977,496	-2,371	-0.08%
28	Mississippi	1,774,595	1,791,666	-17,071	-0.96%
29	Missouri	4,194,146	4,194,416	-270	-0.01%
30	Montana	626,853	638,474	-11,621	-1.85%
31	Nebraska	1,140,741	1,160,193	-19,452	-1.71%
32	Nevada	1,199,519	1,073,869	125,650	10.48%
33	New Hampshire	823,009	950,292	-127,283	-15.47%
34	New Jersey	4,837,943	5,011,693	-173,750	-3.59%
35	New Mexico	1,074,207	1,105,372	-31,165	-2.90%
36	New York	11,627,385	11,837,068	-209,683	-1.80%
37	North Carolina	5,538,246	5,526,981	11,265	0.20%
38	North Dakota*	495,411	490,179	5,232	1.06%
39	Ohio	7,683,621	7,965,110	-281,489	-3.66%
40	Oklahoma	2,008,973	2,143,978	-135,005	-6.72%
41	Oregon	1,965,939	2,141,249	-175,310	-8.92%
42	Pennsylvania	8,073,337	8,366,455	-293,118	-3.63%
44	Rhode Island	750,521	707,234	43,287	5.77%
45	South Carolina	2,408,258	2,318,235	90,023	3.74%
46	South Dakota	488,934	502,261	-13,327	-2.73%
47	Tennessee	3,693,618	3,748,235	-54,617	-1.48%
48	Texas	12,722,671	13,098,329	-375,658	-2.95%
49	Utah	1,240,954	1,278,912	-37,958	-3.06%
50	Vermont	424,568	444,508	-19,940	-4.70%
51	Virginia	4,458,855	4,515,675	-56,820	-1.27%
53	Washington	3,250,770	3,508,208	-257,438	-7.92%
54	West Virginia	1,130,008	1,168,694	-38,686	-3.42%
55	Wisconsin	4,155,027	4,179,774	-24,747	-0.60%
56	Wyoming	257,715	273,950	-16,235	-6.30%
60	Sub Total	**171,554,924**	**175,883,792**	**-4,328,868**	**-2.52%**

*** North Dakota does not register voters, data is reported voting age population.**

Voting Equipment Summary By Type as of 11/05/2002

Printed: 02/10/2004

TYPE OF VOTING EQUIPMENT USED	NUMBER OF COUNTIES	%	NUMBER OF PRECINCTS	%	VOTING AGE POPULATION (2000 Census)	%	REGISTERED VOTERS	%
Punchcard								
C.E.S.	29	0.93%	597	0.32%	721,368	0.35%	630,428	0.41%
Votomatic	17	0.55%	9,474	5.10%	11,786,216	5.65%	7,324,575	4.78%
Punch Card	384	12.33%	34,719	18.70%	30,204,638	14.47%	23,364,122	15.24%
Election Supplies Limited	1	0.03%	5	0.00%	4,400	0.00%	4,134	0.00%
P.B.C. IIID	4	0.13%	277	0.15%	834,344	0.40%	701,702	0.46%
Total Punchcard	**435**	**13.97%**	**45,072**	**24.28%**	**43,550,966**	**20.87%**	**32,024,961**	**20.89%**
DataVote								
Datavote	24	0.77%	5,450	2.94%	4,792,759	2.30%	3,105,110	2.03%
Total DataVote	**24**	**0.77%**	**5,450**	**2.94%**	**4,792,759**	**2.30%**	**3,105,110**	**2.03%**
Lever								
A.V.M.	165	5.30%	16,946	9.13%	17,686,182	8.47%	14,553,802	9.49%
IES Shoup	53	1.70%	7,808	4.21%	8,657,783	4.15%	6,181,822	4.03%
RF Shoup	10	0.32%	126	0.07%	191,652	0.09%	130,963	0.09%
Voting Machines	9	0.29%	613	0.33%	559,961	0.27%	498,905	0.33%
AVM - Printomatics	51	1.64%	2,181	1.18%	1,484,571	0.71%	1,299,311	0.85%
Total Lever	**288**	**9.25%**	**27,674**	**14.91%**	**28,580,149**	**13.69%**	**22,664,803**	**14.79%**
Paper Ballot								
Paper Ballots	304	9.76%	3,562	1.92%	1,648,739	0.79%	1,120,543	0.73%
Total Paper Ballot	**304**	**9.76%**	**3,562**	**1.92%**	**1,648,739**	**0.79%**	**1,120,543**	**0.73%**
Optical Scan								
Accuvote	141	4.53%	9,231	4.97%	10,318,487	4.94%	8,008,445	5.22%
Optical Scan	786	25.24%	28,333	15.26%	30,316,127	14.53%	24,469,559	15.96%
Air Mac Tech	2	0.06%	10	0.01%	12,916	0.01%	12,209	0.01%
Mark-A-Vote	8	0.26%	2,786	1.50%	1,968,727	0.94%	1,326,242	0.87%
American Information System	113	3.63%	2,647	1.43%	2,005,817	0.96%	1,419,179	0.93%
C.E.S. - Optech	1	0.03%	186	0.10%	497,807	0.24%	352,455	0.23%
Optech II	7	0.22%	248	0.13%	392,504	0.19%	325,955	0.21%
OPTECH III--PE Mark-Sense	146	4.69%	3,935	2.12%	4,911,637	2.35%	3,966,428	2.59%
Optech 3P Eagle	86	2.76%	5,443	2.93%	9,141,936	4.38%	6,344,450	4.14%
Mark Sense	30	0.96%	2,767	1.49%	2,878,789	1.38%	308,190	0.20%
Global ES-2000	7	0.22%	1,603	0.86%	1,303,367	0.62%	867,820	0.57%
Scanner M100	15	0.48%	421	0.23%	705,857	0.34%	535,031	0.35%
Optech III	1	0.03%	11	0.01%	25,664	0.01%	20,261	0.01%
Diebold Election System	1	0.03%	58	0.03%	60,584	0.03%	37,335	0.02%
Optech IV	2	0.06%	56	0.03%	102,542	0.05%	95,407	0.06%
Scanner M150	10	0.32%	262	0.14%	163,386	0.08%	126,404	0.08%
Global / GEMS	2	0.06%	266	0.14%	312,028	0.15%	330,773	0.22%
Global Opt. Scan	1	0.03%	26	0.01%	31,871	0.02%	27,123	0.02%
ES&S M100's 3.0.0.1	1	0.03%	165	0.09%	87,188	0.04%	83,688	0.05%
Total Optical Scan	**1,360**	**43.67%**	**58,454**	**31.49%**	**65,237,234**	**31.26%**	**48,656,954**	**31.74%**
Electronic								
Shouptronics	6	0.19%	758	0.41%	846,625	0.41%	629,593	0.41%
Electronic Voting	31	1.00%	2,725	1.47%	4,282,120	2.05%	3,593,538	2.34%
Sequoia Pacific A.V.C. Advantage	48	1.54%	7,997	4.31%	9,436,499	4.52%	7,297,879	4.76%
Microvote	65	2.09%	2,253	1.21%	3,499,226	1.68%	2,787,707	1.82%
Votronic	30	0.96%	3,353	1.81%	5,888,067	2.82%	4,424,645	2.89%
Direct Recording Electronic (DRE)	55	1.77%	7,928	4.27%	8,480,007	4.06%	6,480,548	4.23%
Accuvote TS	170	5.46%	3,881	2.09%	7,968,703	3.82%	4,953,693	3.23%
eSlate	1	0.03%	8	0.00%	38,214	0.02%	22,065	0.01%
Patriot	2	0.06%	65	0.04%	114,862	0.06%	96,630	0.06%
Shouptronic 1242 DRE	139	4.46%	4,303	2.32%	5,366,317	2.57%	4,262,300	2.78%
Total Electronic	**547**	**17.57%**	**33,271**	**17.92%**	**45,920,640**	**22.00%**	**34,548,598**	**22.54%**
Mixed Systems								
Mixed (multiple systems)	156	5.01%	12,137	6.54%	18,961,248	9.09%	11,164,497	7.28%
Total Mixed Systems	**156**	**5.01%**	**12,137**	**6.54%**	**18,961,248**	**9.09%**	**11,164,497**	**7.28%**
Total:	**3,114**	**100.00%**	**185,620**	**100.00%**	**208,691,735**	**100.00%**	**153,285,466**	**100.00%**

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Voting Equipment Summary By Type as of 11/07/2000

Printed: 02/10/2004

TYPE OF VOTING EQUIPMENT USED	NUMBER OF COUNTIES	%	NUMBER OF PRECINCTS	%	VOTING AGE POPULATION (2000 Census)	%	REGISTERED VOTERS	%
Punchcard								
C.E.S.	41	1.32%	1,223	0.66%	1,236,250	0.59%	993,408	0.63%
Votomatic	36	1.16%	14,578	7.91%	19,531,486	9.36%	11,925,117	7.53%
Punch Card	432	13.88%	37,239	20.20%	36,969,193	17.71%	29,566,133	18.68%
Vote Recorder	18	0.58%	1,044	0.57%	2,687,332	1.29%	1,745,031	1.10%
Total Punchcard	**527**	**16.93%**	**54,084**	**29.33%**	**60,424,261**	**28.95%**	**44,229,689**	**27.94%**
DataVote								
Datavote	45	1.45%	5,940	3.22%	6,547,638	3.14%	4,468,261	2.82%
Total DataVote	**45**	**1.45%**	**5,940**	**3.22%**	**6,547,638**	**3.14%**	**4,468,261**	**2.82%**
Lever								
A.V.M.	192	6.17%	20,519	11.13%	21,171,161	10.14%	17,277,791	10.92%
IES Shoup	171	5.49%	9,412	5.10%	10,898,242	5.22%	7,755,779	4.90%
RF Shoup	15	0.48%	181	0.10%	252,115	0.12%	169,356	0.11%
Voting Machines	6	0.19%	495	0.27%	471,841	0.23%	413,447	0.26%
AVM - Printomatics	50	1.61%	2,104	1.14%	1,447,346	0.69%	1,268,319	0.80%
Total Lever	**434**	**13.94%**	**32,711**	**17.74%**	**34,240,705**	**16.40%**	**26,884,692**	**16.99%**
Paper Ballot								
Paper Ballots	370	11.89%	5,075	2.75%	2,560,835	1.23%	2,031,538	1.28%
Total Paper Ballot	**370**	**11.89%**	**5,075**	**2.75%**	**2,560,835**	**1.23%**	**2,031,538**	**1.28%**
Optical scan								
Accuvote	85	2.73%	3,332	1.81%	4,718,514	2.26%	3,594,852	2.27%
Optical Scan	835	26.82%	31,364	17.01%	32,029,894	15.34%	26,084,653	16.48%
Air Mac Tech	1	0.03%	3	0.00%	5,200	0.00%	5,177	0.00%
Mark-A-Vote	8	0.26%	2,670	1.45%	1,968,727	0.94%	1,350,833	0.85%
American Information System	90	2.89%	2,273	1.23%	1,958,035	0.94%	1,396,523	0.88%
C.E.S. - Optech	7	0.22%	400	0.22%	847,106	0.41%	667,594	0.42%
Optech II	7	0.22%	195	0.11%	372,081	0.18%	309,260	0.20%
OPTECH III--PE Mark-Sense	142	4.56%	3,775	2.05%	4,748,792	2.27%	3,929,700	2.48%
Optech 3P Eagle	45	1.45%	3,979	2.16%	6,601,615	3.16%	4,401,657	2.78%
Mark Sense	52	1.67%	3,561	1.93%	5,999,700	2.87%	4,059,462	2.56%
Global ES-2000	7	0.22%	1,537	0.83%	1,303,367	0.62%	884,868	0.56%
Total Optical Scan	**1,279**	**41.09%**	**53,089**	**28.79%**	**60,553,031**	**29.01%**	**46,684,579**	**29.49%**
Electronic								
Shouptronics	39	1.25%	2,330	1.26%	4,243,433	2.03%	3,232,214	2.04%
Electronic Voting	13	0.42%	1,803	0.98%	2,136,509	1.02%	1,782,914	1.13%
Sequoia Pacific A.V.C. Advantage	33	1.06%	6,231	3.38%	6,625,022	3.17%	5,235,664	3.31%
Microvote	34	1.09%	1,272	0.69%	1,964,407	0.94%	1,671,069	1.06%
Votronic	13	0.42%	406	0.22%	740,422	0.35%	620,283	0.39%
E.V.M. (electronic voting machine)	1	0.03%	22	0.01%	13,083	0.01%	11,837	0.01%
Direct Recording Electronic (DRE)	81	2.60%	6,040	3.28%	7,406,165	3.55%	5,473,386	3.46%
Shouptronic 1242 DRE	95	3.05%	2,386	1.29%	2,299,321	1.10%	1,870,490	1.18%
Total Electronic	**309**	**9.93%**	**20,490**	**11.11%**	**25,428,362**	**12.18%**	**19,897,857**	**12.57%**
Mixed systems								
Mixed (multiple systems)	149	4.79%	13,005	7.05%	19,000,596	9.10%	14,084,992	8.90%
Total Mixed Systems	**149**	**4.79%**	**13,005**	**7.05%**	**19,000,596**	**9.10%**	**14,084,992**	**8.90%**
Total:	**3,113**	**100.00%**	**184,394**	**100.00%**	**208,755,428**	**100.00%**	**158,281,608**	**100.00%**

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ELECTION DATA SERVICES Inc.	VOTING EQUIPMENT REPORT							
1401 K Street NW Suite #500								
Washington DC 20005-3417	YEAR: 1980						Date:	10/10/2002
(202) 789-2004	NATIONWIDE						Time:	6:41:13 AM
TYPE OF VOTING EQUIPMENT USED	**NUMBER OF COUNTIES**	**PERCENT OF COUNTIES**	**NUMBER OF PRECINCTS**	**PERCENT OF PRECINCTS**	**1980 POPULATION**	**PERCENT OF POPULATION**	**1980 REGISTRATION**	**PERCENT OF REGISTRATION**
C.E.S.	450	14.35%	31,392	18.41%	43,965,377	35.09%	22,457,555	20.09%
Data General Nova System	3	0.10%	143	0.08%	131,599	0.11%	85,916	0.08%
Election Data Corp	2	0.06%	30	0.02%	17,479	0.01%	11,584	0.01%
Election Supplies Limited	1	0.03%	44	0.03%	55,865	0.04%	26,391	0.02%
Elpac	26	0.83%	1,158	0.68%	1,053,048	0.84%	614,849	0.55%
Fidlar & Chambers	11	0.35%	1,171	0.69%	1,229,000	0.98%	652,075	0.58%
I.B.M.	5	0.16%	389	0.23%	472,182	0.38%	238,156	0.21%
P.B.C. Counters (B.R.C.)	10	0.32%	377	0.22%	432,860	0.35%	250,715	0.22%
Punch Card	1	0.03%	17	0.01%	24,987	0.02%	14,852	0.01%
Thornber	1	0.03%	90	0.05%	144,107	0.12%	77,793	0.07%
Votomatic	34	1.08%	16,396	9.61%	17,286,743	13.80%	8,268,737	7.40%
Punch Card	**544**	**17.35%**	**51,207**	**30.03%**	**64,813,247**	**51.73%**	**32,698,623**	**29.25%**
Datavote	37	1.18%	3,932	2.31%	5,797,318	4.63%	2,816,013	2.52%
Datavote	**37**	**1.18%**	**3,932**	**2.31%**	**5,797,318**	**4.63%**	**2,816,013**	**2.52%**
A.V.M.	645	20.57%	42,169	24.73%	62,348,972	49.77%	29,703,353	26.57%
IES Shoup	439	14.00%	21,093	12.37%	35,870,214	28.63%	16,985,726	15.19%
RF Shoup	61	1.95%	1,496	0.88%	2,415,228	1.93%	1,146,254	1.03%
Seiscor	5	0.16%	271	0.16%	258,699	0.21%	151,314	0.14%
Lever Machine	**1,150**	**36.68%**	**65,029**	**38.13%**	**893,113**	**0.71%**	**47,986,647**	**42.92%**
Paper Ballots	1,275	40.67%	26,761	15.69%	22,999,384	18.36%	11,729,027	10.49%
Paper Ballots	**1,275**	**40.67%**	**26,761**	**15.69%**	**22,999,384**	**18.36%**	**11,729,027**	**10.49%**
Accuvote	3	0.10%	120	0.07%	123,039	0.10%	64,101	0.06%
Data Mark	3	0.10%	497	0.29%	570,941	0.46%	279,452	0.25%
Mark-A-Vote	1	0.03%	115	0.07%	166,759	0.13%	95,175	0.09%
Martel (AIS)	15	0.48%	2,487	1.46%	3,175,242	2.53%	1,520,566	1.36%
Optical Scan	1	0.03%	20	0.01%	30,781	0.02%	15,997	0.01%
Valtec	3	0.10%	460	0.27%	848,956	0.68%	413,137	0.37%
Optical Scan	**26**	**0.83%**	**3,699**	**2.17%**	**4,915,718**	**3.92%**	**2,388,428**	**2.14%**
Video Voter	3	0.10%	175	0.10%	87,858	0.07%	54,424	0.05%
Votronic	4	0.13%	1,365	0.80%	1,454,254	1.16%	746,685	0.67%
Electronic	**7**	**0.22%**	**1,540**	**0.90%**	**1,542,112**	**1.23%**	**801,109**	**0.72%**
Mixed (more than one system)	96	3.06%	18,362	10.77%	24,323,545	19.41%	13,385,221	11.97%
Mixed	**96**	**3.06%**	**18,362**	**10.77%**	**24,323,545**	**19.41%**	**13,385,221**	**11.97%**
TOTAL	***3,135***	***100.00%***	***170,530***	***100.00%***	***125,284,437***	***100.00%***	***111,805,068***	***100.00%***

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