

What's the Best Voting Method?

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Background

- Computerized voting system examiner for
 - Pennsylvania (1980-2000, 2004-)
 - Massachusetts (2006)
 - Texas (1987-2000)
 - West Virginia (1982)
 - Delaware (1989)
 - Nevada (1995)
- Performed 118 voting system examinations
 - 119th next week
- Expert witness in 5 electronic voting cases
- Gave NIST course on voting systems testing (2006)

What's the Best Voting Method?

- HAVA requires
 - vote verification, correction §301(a)(1)(A)(i)
 - overvote warning §301(a)(1)(A)(iii)
 - permanent paper record §301(a)(2)(B)(i)
 - disabled accessibility §301(a)(3)(A)
 - alternative language accessibility §301(a)(4)
- States require
 - secrecy
 - security
 - reliability
 - usability

Comparison of Voting Methods

	DRE, NO VVPAT	DRE WITH VVPAT (CURRENT)	PRECINCT OPSCAN (PCOS)	PCOS & BALLOT MARKER
Security	7			
Secrecy	9			
Accessibility	9			
Usability	9			
Reliability	6			
TOTALS				

Comparison of Voting Methods

	DRE, NO VVPAT	DRE WITH VVPAT (CURRENT)	PRECINCT OPSCAN (PCOS)	PCOS & BALLOT MARKER
Security	7	9		
Secrecy	9	2		
Accessibility	9	5		
Usability	9	6		
Reliability	6	3		
TOTALS				

Comparison of Voting Methods

	DRE, NO VVPAT	DRE WITH VVPAT (CURRENT)	PRECINCT OPSCAN (PCOS)	PCOS & BALLOT MARKER
Security	7	9	4	
Secrecy	9	2	8	
Accessibility	9	5	0	
Usability	9	6	5	
Reliability	6	3	9	
TOTALS				

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Secrecy	9	2	8	9
Accessibility	9	5	0	9
Usability	9	6	5	9
Reliability	6	3	9	7
TOTALS				

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Accessibility	9	5	0	9
Usability	9	6	5	9
Reliability	6	3	9	7
TOTALS	40	25	26	40

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Q&A