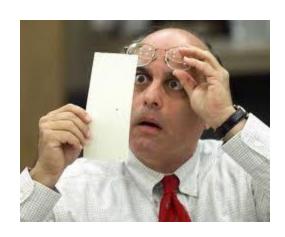
Do Voting Machine Cause Lost Votes?

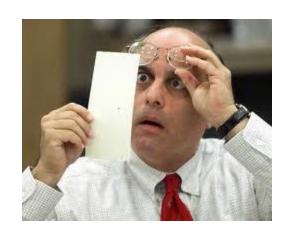
17.871

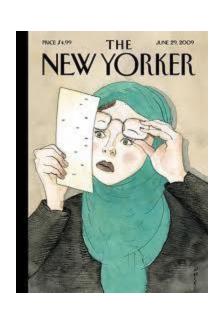
Spring 2014

2000 Presidential Election

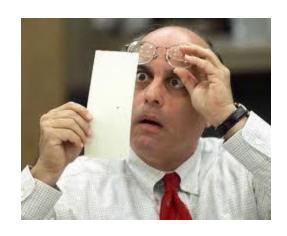


2000 Presidential Election



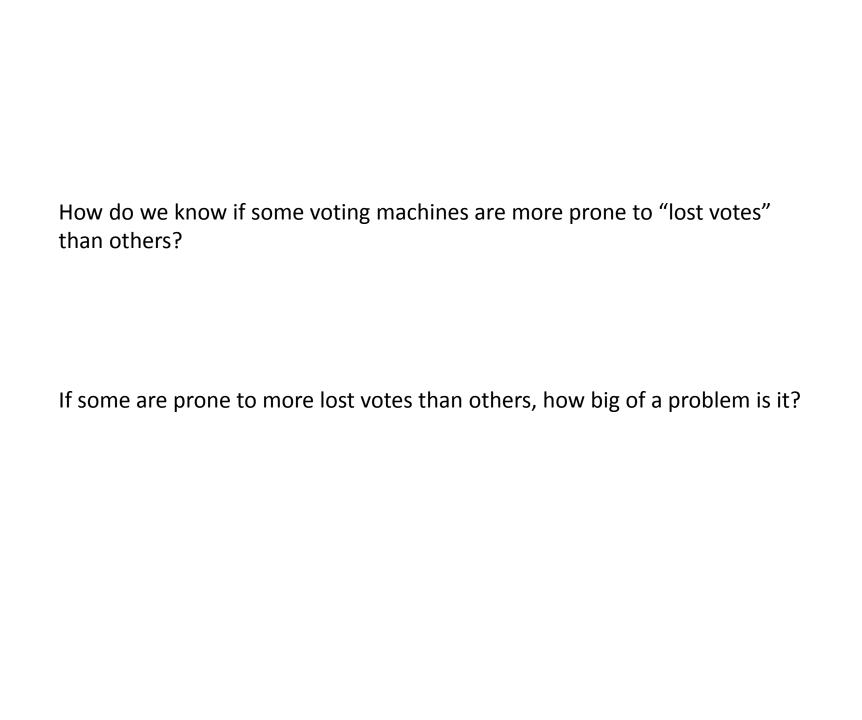


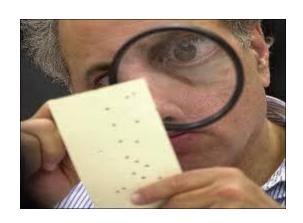
2000 Presidential Election











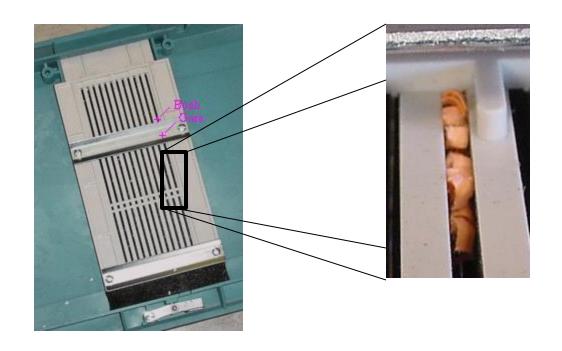
Law



Engineering



Engineering



Engineering

Tech.	Under- vote pct.	Over-vote pct.	Lost vote pct.	Number of counties
Datavote (punch)	0.83%	6.10%	6.93%	9
Hand-count	0.65%	6.09%	6.74%	1
Lever	0.29%	0.09%	0.38%	1
Optical scan	0.31%	1.05%	1.36%	41
Votomatic (punch)	1.52%	2.42%	3.94%	15
Statewide	1.03%	1.91%	2.94%	67

Data sources:

Election returns: Florida Division of Elections Over- under-vote counts: NORC recount project Statistics, correlational

Machine in 1996:	Votomatic	Lever	Opscan	DRE	Total
Votomatic	-0.52% (171)		-1.96% (179)		-0.98% (365)
Lever		-0.08% (114)	-0.24% (65)	0.66% (111)	0.03% (294)
Opscan			-1.42% (74)		-1.33% (75)
DRE				-1.92% (35)	
Total	-0.92% (215)	-0.08% (119)	-1.29% (616)	-0.94% (165)	-0.81% (1,402)

(Quasi-) Experimental

Note: the table isn't complete, although the totals in the columns and rows reflect the entire table

Some points relevant to 17.871

- Political science can provide a service to society by framing questions causally, and reducing complicated matters to clear observables.
- Addressing important questions of public policy requires creative combinations of insight, data, and method.

Relevant to the Syllabus (to come)

Statistics

TABLE 3

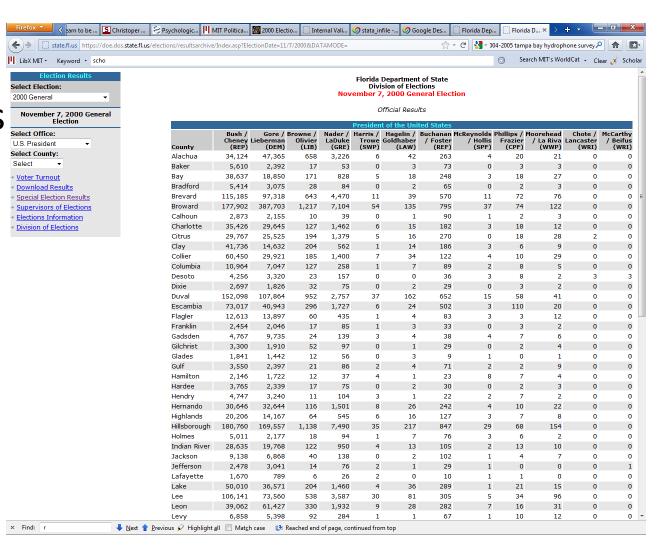
Residual Vote Multivariate Analysis, Presidential, Gubernatorial, and Senatorial Elections, 1988–2000

	Fixed-effec	Fixed-effects estimates		No fixed effects, explicit controls		
	President	Gov. & senator	President	Gov. & senator		
Equipment effects:						
Punch card	.0082	0030 (.0018)	.0077	021 (.001)		
Lever machine	Excluded equip. category	Excluded equip. category	Excluded equip. category	Excluded equip category		
Paper	014 (.002)	014 (.003)	0012 (.0014)	022 (.002)		
Optical scan	0045	014	.00071	032		
Electronic	.0014)	(.002) 012	(.00070) .0080	(.001) 0097		
(DRE) Shift in tech.	.0015)	(.002) 0004	.0010)	(.0013) 0021		
Log (turnout)	.0007)	(.0010) .031	(.00067) 0004	.0013)		
Gov. or Sen. on	(.0026) 0011	(.003) 004	(.0001) 003	.0002)		
ballot Senator	(.0007)	(.001) .008	(.001)	(.001) .009		
Percent Over 65	_	(.001)	.047	(.001)		
Percent 18-24	_	_	(.008) 012	(.009)		
Percent White			(.009) 030	(.010) 045		
			(.002)	(.003)		
Percent Hispanic	_	_	.011 (.004)	.005		
Median Income (10,000s)	_	_	002 (.001)	001 (.001)		
Constant	11 (.03)	29 (.03)	.025	.027		
N R ²	8,982	11,625	8,982	11,625		
Fixed effect:	Year × State	$Year \times State$	Year × State	Year × State		
(not shown) Number of	County 3,346	County 2,245	_	_		
categories F test	F(3345,5572) = 2.971 (p < .0001)	F(2244,9318) = 3.705 (p < .0001)	_	_		

Relevant to the Syllabus (to come)

Statistics

Mechanics



Relevant to the Syllabus (to come)

- Statistics
- Mechanics
- Project







And by the way, we have to fix that





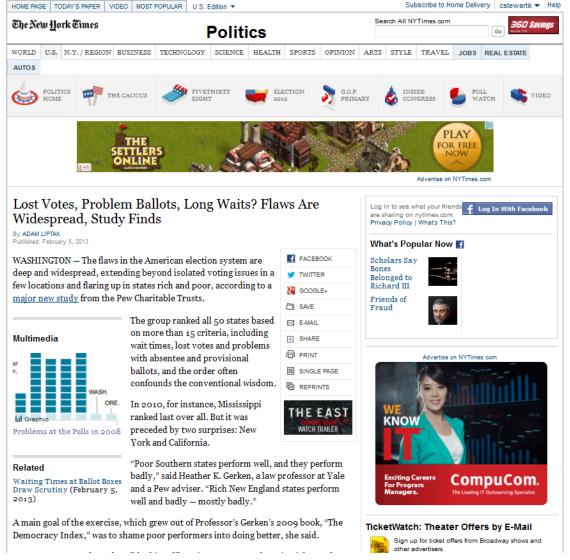
TONIGHT 9/8c 41





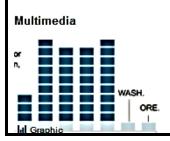
A Massachusetts Institute of Technology analysis determined that blacks and Hispanics waited nearly twice as long in line to vote on average than whites. Florida had the nation's longest lines, at 45 minutes, followed by the District of Columbia, Maryland, South Carolina and Virginia, according to Charles Stewart III, the political science professor who conducted the analysis.

Postlude II

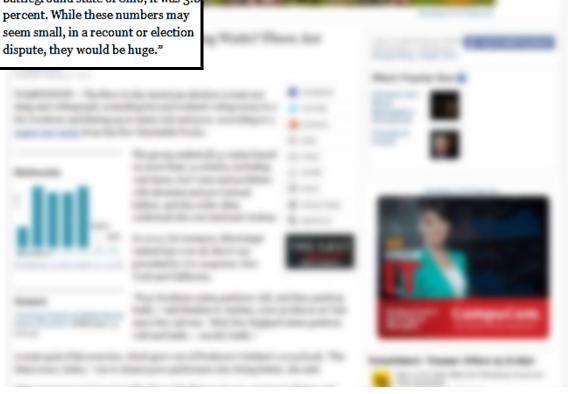


Postlude II

Charles Stewart III, a political scientist at the Massachusetts Institute of Technology and a Pew adviser, said that high provisional ballot rates were an important signal of potential trouble.



"Nationwide, a bit over 1 percent of voters are given a provisional ballot," he said. "In Arizona in 2008, the rate was 6.5 percent. In the battleground state of Ohio, it was 3.6 percent. While these numbers may seem small, in a recount or election dispute, they would be huge."



The American Voting Experience:

Report and Recommendations of the Presidential Commission on Election Administration



January 2014

hour.¹⁹ In some jurisdictions, the problem has recurred for several presidential elections,²⁰ while in others, a particular confluence of factors led to unprecedented lines in

sible ensures that their problems will not result in congestion at the check-in station where research suggests most election lines develop.¹⁰³

voting process, then lines can form. Research shows that voters in a small number of states (or localities within states) persistently endure long lines.¹¹¹ In these states, a top-to-bottom review of resource allocation and standard operating procedures may be in order. However, for the most part, the problem of long lines usually only afflicts a limited share of the polling places within a county.¹¹² This suggests that more often, it is the

states must plan for increased turnout. Although voters appear to have a greater tolerance for waiting in line during the early voting period (since they chose to come at that particular time), wait times, on average, were higher in 2012 during early voting than they were on Election Day.¹²¹ Therefore, election officials not only must plan for hour.¹⁹ In some jurisdictions, the problem has recurred for several presidential elections,²⁰ while in others, a particular confluence of factors led to unprecedented lines in

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- See Donald Palmer, Secretary, Virginia State Board of Elections, PCEA Hearing Testimony, Philadelphia, PA, at 3 (Sept. 4, 2013); Susan Bucher, Palm Beach County Supervisor of Elections, PCEA Hearing Testimony, Miami, FL, at 14 (June 28, 2013); Charles Stewart III, Waiting to Vote in 2012, 28 Journal of Law & Politics 439 (2013).
- 103 See Charles Stewart III, Waiting to Vote in 2012, 28 Journal of Law & Politics 439, n.37 (2013) (noting that 68% of early voters and 60% of Election Day voters reported waiting in line primarily at the checkin phase, as opposed to waiting for an available machine).
 - 111 Charles Stewart III, Waiting to Vote in 2012, 28 Journal of Law & Politics 439, 455 (2013).
 - 112 Id. at 452-55.

121 Charles Stewart III, Waiting to Vote in 2012, 28 Journal of Law & Politics 439, 460 (2013).