

2024 South Dakota Test Deck Project

Validating the 2024 Primary Election in South Dakota

Vote Flips & Programming Issues

The Philadelphia Inquirer

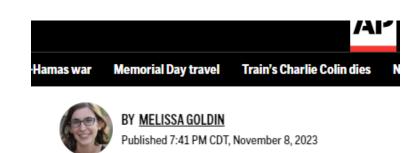
by Jonathan Lai Published Dec. 12, 2019, 5:54 p.m. ET

When votes were tallied last month using **new voting machines** in Northampton County, it was quickly obvious that something had gone wrong.

The numbers were so clearly inaccurate that a judge ordered the machines impounded. Scanners were brought in to help count ballots, and voters questioned the integrity of the machines and the security of the election. The fiasco heightened concerns about the 2020 presidential election in Pennsylvania as the state looks to implement new voting machines in all 67 counties before the April primary.

It turns out the machines had been set up improperly, county officials and the voting machine vendor said Thursday, a week after they began an investigation. The machines weren't prepared to read the results of the specific ballot design used in Northampton County, and dozens of machines had touchscreens that weren't properly calibrated.

https://www.inquirer.com/politics/pennsylvania/northamptoncounty-pennsylvania-voting-machines-20191212.html



Voters in Northampton County were asked to decide whether two sitting judges, Pennsylvania Superior Court Judges Jack Panella, a Democrat, and Victor Stabile, a Republican, should each be retained for additional 10-year terms by marking "yes" or "no" for each candidate. Panella and Stabile were not running against each other, just vying for another term.

However, officials found that the "yes" or "no" votes for each judge <u>appeared to have been</u> <u>switched</u> on a printed summary shown to voters before they cast their ballot, Charles Dertinger, the Northampton County director of administration, said at a press conference on Tuesday. For example, if a voter marked "yes" to retain Panella and "no" on Stabile, it was reflected on the summary as "no" on Panella and "yes" on Stabile.

https://apnews.com/article/fact-check-pennsylvania-election-vote-flip-545307248102



Watch the 11/7/2023 Press Conference https://www.youtube.com/live /H4zAV9Rpbs0?t=364s



Programming Issues

A candidate in Georgia who appeared to get few Election Day votes was actually in first place.

The discrepancy in a race for a county-level board of commissioners seat was blamed on a series of technical errors.





"I hope that this never happens to another candidate, in another race ever again," Ms. Spears said. "It has been a nightmare."



June 6, 2022

A candidate for a county office near Atlanta was vaulted into first place after a series of technical errors made it appear that she had not mustered a single Election Day vote in a vast majority of precincts in last month's Democratic primary, election officials determined.

The candidate, Michelle Long Spears, was shortchanged by 3,792 votes in the District 2 primary for the Board of Commissioners in DeKalb County, Ga., that was held on May 24, according to newly-certified results released on Friday.

In all but four of the district's nearly 40 precincts, no Election Day votes were recorded for Ms. Spears, who had received more than 2,000 early votes. She said that she immediately alerted state and county election authorities.

https://www.nytimes.com/2022/06/06/us/politics/michelle-long-spears-georgia.html



No Votes Counted for a Candidate

https://www.youtube.com/watch? v=MECS_OXfoH0

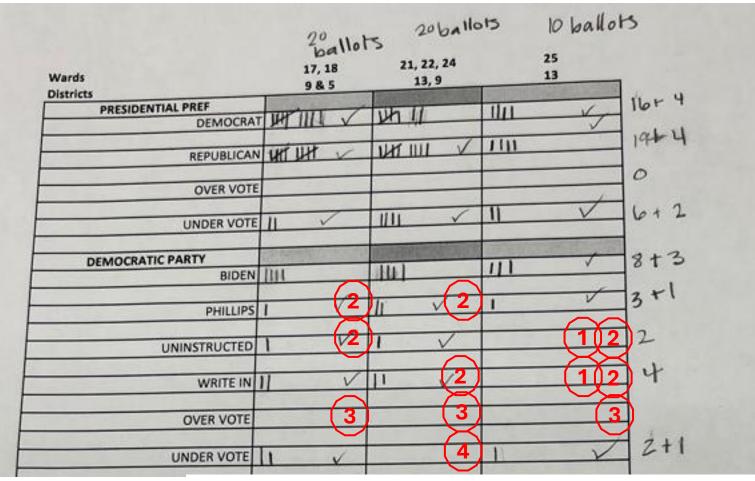


Let's Review - Dodge County WI, 2024

- Actual worksheets by the City Clerk
- No Guidance by the US Election Assistance Commission (EAC)
- No Guidance by the Board of Elections (WI)
- No Guidance by vendor (ES&S)
- No Guidance by the County Auditor



WI – 2024 Logic & Accuracy Totals Sheet - Dems



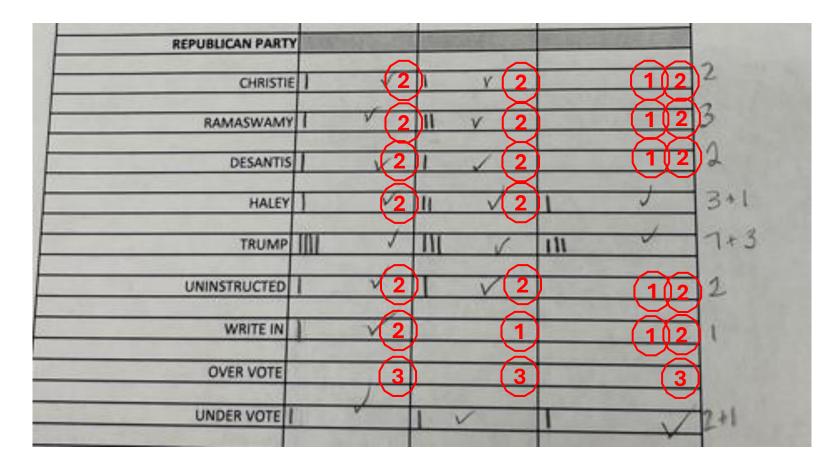
Here are items to review:

- Does each option have a vote selected for them?
- 2) Does each option have a unique number assigned from any other option in the contest?
- 3) Are Over Votes tested?
- 4) Are Under Votes tested?

With unique numbers we can determine if votes are flipped.



WI – 2024 Logic & Accuracy Totals Sheet - Reps



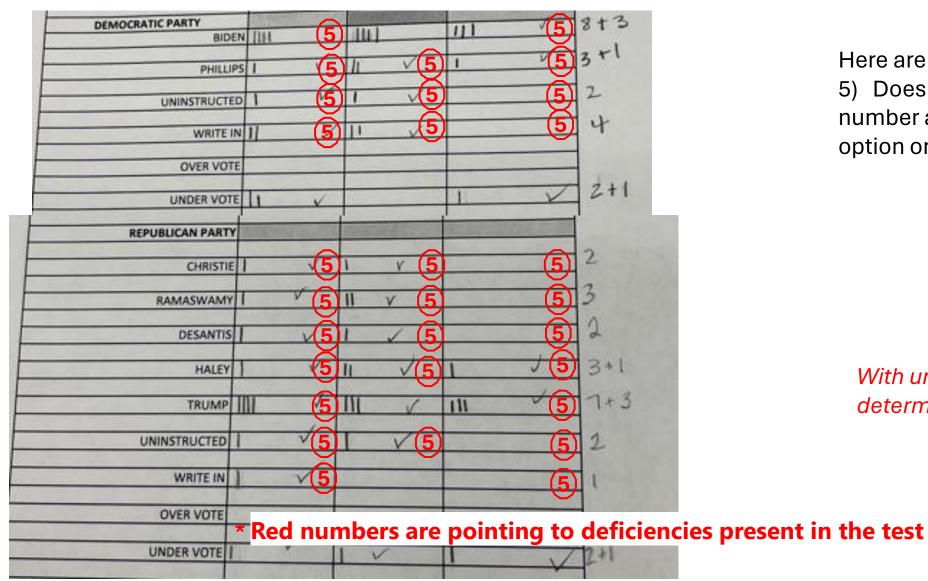
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- 4) Are Under Votes tested?

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WI – 2024 Logic & Accuracy Totals Sheet – 2 Races



Here are items to review:

5) Does each option have a unique number assigned from any other option on the ballot

With unique numbers we can determine if votes are flipped.



Question - Over Vote & Under Vote

- Over Vote is when a voter votes for more options than is allowed for that race. Most races you can only select one option. Some races like SD Legislative House, Commissioners, City Council and School Boards, you can select two, three or more candidates in that race, an over vote occurs, when the voter exceeds the number of choices allowed. All of those votes for that race are discarded and not counted in the candidate buckets for final tabulation, the rest of the ballot is counted.
- Under Vote is when a voter decided to either vote for no options in a two option race. In multi-option races, if the voter decided to only vote for one option, event though they could vote for more, the vote for the one option is still counted, and is typically not flagged as an under vote in the reporting software.



Test Decks – SD Current Laws

The front line in catching programming issues and establishing confidence.

<u>12-17B-5</u>. Testing system before election--Certification of errorless machine--Promulgation of rules--Public notice--Independent candidate and ballot committee contact information.

Not more than ten days prior to an election, the person in charge of the election shall conduct a test of the automatic tabulating equipment to ascertain that the equipment will correctly count the votes cast for all offices and on all measures. The test must be open to the public. The person in charge of the election shall notify the county chair of each political party with a candidate on the ballot, any independent candidate or candidate without party affiliation on the ballot, and the ballot question committees for or against an initiated or referred measure or initiated constitutional amendment of the testing of the automatic tabulating equipment one week before the test is conducted. The person in charge of the election shall post notice of the time and place of the test in the same manner as a public meeting agenda, pursuant to \$ 1-25-1.1.

If an errorless count by an automatic tabulating machine is achieved by the test, the person in charge of the election shall certify the machine. The State Board of Elections shall promulgate rules, pursuant to chapter 1-26, prescribing the certification of properly functioning automatic tabulating equipment under this section.

If an error is detected, the cause of the error shall be determined and corrected. Once the error is corrected, the person in charge of the election shall conduct a new test of the automatic tabulating equipment. The person in charge of the election may not approve the automatic tabulating equipment until an errorless count is made.

Any additional testing required to achieve an errorless count must be open to the public. The person in charge of the election shall post notice of the time and place of an additional test in the same manner as a public meeting agenda, pursuant to $\frac{1-25-1.1}{1}$. The person in charge of the election shall notify the county chair of each political party with a candidate on the ballot, any independent candidate or candidate without party affiliation on the ballot, and the ballot question committees for or against an initiated or referred measure or initiated constitutional amendment of the testing of the automatic tabulating equipment twenty-four hours prior to the test.

The secretary of state shall provide each county auditor with the contact information for any independent candidate, candidate without party affiliation appearing on the ballot, and the ballot question committees for or against an initiated or referred measure or initiated constitutional amendment in the auditor's county.

12-17B-12. Test of system repeated prior to counting ballots. The test required by § 12-17B-5 shall be repeated immediately before the start of the official count of the ballots.



SD SOS Administrative Rules

The front line in catching programming issues and establishing confidence.

- <u>5:02:09:01.02</u>. Test of tabulating equipment. The person in charge of the election shall conduct tests of the automatic tabulating equipment as required in SDCL <u>12-17B-5</u> and <u>12-17B-12</u>. The test must be conducted by processing a preaudited group of ballots in a test deck marked to record a predetermined number of valid votes for each candidate and each measure. A tally sheet must be created prior to the machine count to show how the sample of ballots is marked and what the machine vote totals must be to prove an errorless count. If more than one ballot is used in the election, a test deck must be made for each ballot that is unique in any way. For each office and ballot question, the test deck must include:
- (1) One or more ballots with a vote for each candidate and each side of a ballot question;
- (2) One or more ballots with votes in excess of the number allowed by law for each office and question; and
- (3) One or more ballots with an undervote;
- (4) One or more ballots completely blank to verify that the machine is correctly configured pursuant to SDCL <u>12-17B-13.1</u>; and
- (5) One or more ballots that do not have a ballot stamp.
- At least twenty-five test ballots must be included in the total of all test decks. Individual test decks for individual ballots must be of sufficient size to prove the accuracy of the system. If absentee ballots are to be received folded, at least ten percent of the test ballots in any individual test deck must be similarly folded. The person conducting the test of the tabulating equipment shall date and sign the printout, verifying that the results of the machine's printed paper vote totals exactly match the tally sheet from which the sample of ballots was marked. Any test deck, tally sheet, and signed printout must be secured and retained with the official ballots.
- If more than one tabulating machine is to be used in the election, each machine must be fully tested on any ballot which each machine will be used to count in the election.
- In addition to these tests, any test deck may be processed any time before or after completion of the official count.



SD - 2022 Minnehaha County L&A Test Reports ExpressVote Machines

Detail Resu	#: 8513090103		Minnehaha County, SD State General 11/08/2022
11/28/2022 10:09:47 First Ballot Date Time: Last Ballot Date Time:	11/28/2022 10:08:50 11/28/2022 10:09:29	Total Sheets Processed: Total Ballots Cast: Blank Sheets Cast: Votes	95 95 0 5
	Contest Over Votes Jnder Votes Total	0 12 24	
For State Representative (Vote For 2) DEM Dan Ahlers DEM David Kills A Hundre REP Jon Hansen REP Randy Gross			

Here are items to review:

- 1) Does each option have a vote selected for them?
- 2) Does each option have a unique number assigned from any other option in the contest?
- 3) Are Over Votes tested?
- 4) Are Under Votes tested?
- 5) Were blank sheets cast?

With unique numbers we can determine if votes are flipped.



SD - 2022 Minnehaha County L&A Test Reports ExpressVote Machines

Detail Results Machine ID: B Machine #: 8513090103	Minnehaha County, SI State Genera 11/08/202
11/28/2022 10:09:47 First Ballot Date Time: 11/28/2022 10:08:50 Last Ballot Date Time: 11/28/2022 10:09:29	Total Sheets Processed:95Total Ballots Cast:95Blank Sheets Cast:0Votes
Contest Over Votes Under Votes Total	0 12 24
For County Commissioner At Large (Vote For 3) DEM Nichole Cauwels DEM Tom Holmes REP Joe Kippley REP Jen Bleyenberg REP Gerald Beninga Over Votes Under Votes Total	94 126 0 126 0 126 1 3 190 285

Here are items to review:

- 1) Does each option have a vote selected for them?
- 2) Does each option have a unique number assigned from any other option in the contest?
- 3) Are Over Votes tested?
- 4) Are Under Votes tested?
- 5) Were blank sheets cast?
- 6) Does each option have a unique
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SD - 2022 Minnehaha County L&A Test Reports ExpressVote Machines

Detail Res					3 of 9
11/28/2022 09:47:13	ne #: 8513090103				Minnehaha County, SE State Genera
First Ballot Date Time: Last Ballot Date Time:	11/28/2022 09:15:47 11/28/2022 09:46:28	Total Sheets Proces Total Ballots Cast: Blank Sheets Cast:	ised:	2325 2325 93	11/08/2022
	Contest		Votes	33	
	Over Votes Under Votes Total	26 26	115 115 10 10 250		
	Over Votes nder Votes Total	26 26	115 115 10 10 250		

Here are items to review:

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- 6) Does each option have a unique
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2024 – Brookings, SD on the right path

e #: 8513090102	STATISTICS OF STATISTICS	Brookings County, South Dako
		State Prima
06/03/2024 09:05:53 06/03/2024 09:41:40	Total Sheets Processed: Total Ballots Cast:	06/04/202 229 229
Party		30
	0	
Ballot Style	Sheets Processed	
	31	
	41	
	61	
Contest	Votes	
t 08		
)ver Votes		
nder Votes	30	
Total	96	
District 07		
	12	
	21	
	30	
iver Votes	20	
Total	144	
District 08		
	19	
	34	
ver Votes	30	
der Votes	62	
	06/03/2024 09:05:53 06/03/2024 09:41:40 Party Ballot Style Contest t 08 Over Votes nder Votes Total District 07 Ver Votes Total District 08	06/03/2024 09:05:53 06:03/2024 09:41:40 Total Sheets Processed: Total Ballots Cast: Blank Sheets Cast: Party Ballots Cast 168 01 0 0 60 0 Sallot Style Sheets Processed 31 41 31 32 61 31 41 31 32 61 Contest Votes 108 18 00er Votes 0 15 33 61 District 07 12 21 30 0er Votes 12 12 101 30 96 District 07 12 21 30 0er Votes 144 144 District 08 19 34

In this Election, the Republicans have a separate ballots for their races. There are 5 ballot styles. (The 6th one is the Democrat Ballot)

Here the Brookings County Auditor get high marks.

- 1) There are unique numbers for each candidate within each race.
- 2) Over votes were tested.
- 3) Under Votes (blank ballots) were tested.

Areas for Improvement

- 1) Prime Number for one candidate in each race is not consistent.
- 2) Unique Number assigned for all options for entire ballot.

It is known that there was an issue with the ExpressVote Ballots.

1) The county did not test, due to programming issue, their plan is to manually convert those ballots to hand marked ballots for processing.

2024 – Brookings, SD on the right path

Machine ID: A Machine Absentee 06/03/2024 09:41:59	Ilts By Preci #: 8513090102		Brookings County, South State 06/
First Ballot Date Time: Last Ballot Date Time:	06/03/2024 09:05:53 06/03/2024 09:41:40	Total Sheets Processed: Total Ballots Cast: Blank Sheets Cast:	229 229 30
The state of the s	Contest	Votes	
REP County Commissione	r At Large		
(Vote For 2)		31	
Dave Miller		51	
Michael D. Bartley		33	
Doug Post		50	
	iver Votes	123	
U	nder Votes	336	
	Total	530	
REP Precinct Committeem	an Precinct-05		
(Vote For 1)		and the second	
Leon Pesall		5	
Jeremiah VanOverbeke		11	
Patrick Powers		15	
	ver Votes	5	
U	nder Votes	5	
	Total	41	
REP Precinct Committeem	an Precinct-12		
(Vote For 1)			
Donald L Jacobsma		5	
Regg Neiger		12	
	ver Votes	5	
Ur	ider Votes	10	
	Total	32	
REP Precinct Committeem Vote For 1)	an Precinct-15		
Ioshua Spilde		8	
ames Mitchell		10	
0	ver Votes	5	
Ur	der Votes	10	
	Total	33	
REP Precinct Committeewo	oman Precinct-05		
Cynthia "Cindy" Mydland			
		6	
Vancy Stewart	Notes	10	
	ver Votes	5	
Un	der Votes	20	
	Total	41	
REP Precinct Committeewo	man Precinct-15		

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1) The county did not test, due to programming issue, their plan is to manually convert those ballots to hand marked ballots for processing.

2024 – Brookings, SD on the right path

Detail Res	ults By Preci	iet	Brookings County, South Dakota
Machine ID: A Machi	ne #: 8513090102		State Primary
Absentee 06/03/2024 09:41:59			229
First Ballot Date Time:	06/03/2024 09:05:53	Total Sheets Processed: Total Ballots Cast:	229
ast Ballot Date Time:	06/03/2024 09:41:40	Blank Sheets Cast:	30
	Contest	Votes	
Vote For 1)		6	
Sara Spilde		12	
Marla Mitchell	Over Votes	5	
	Under Votes	10	
	Total	33	
DEM Presidential Candi	idate		
Vote For 1)		6	
Marianne Williamson		10	
Joseph R Biden Jr		15	
Dean Phillips		20	
Armando Perez-Serrato	Over Votes	5	
	Under Votes	5	
	Total	61	

In this Election, the Democrats have a separate ballot just for the Presidential Primary.

Here the Brookings County Auditor get high marks.

- 1) There are unique numbers for each candidate for President.
- 2) Over votes were tested.
- 3) Under Votes (blank ballots) were tested.

Areas for Improvement

1) Prime Number for one candidate in each race is not consistent.

It is known that there was an issue with the ExpressVote Ballots

1) The county did not test, due to programming issue, their plan is to manually convert those ballots to hand marked ballots for processing.

Gregory County, SD

In this Election, the Democrats have a separate ballot just for the Presidential Primary, both Parties have the Initiated Ballot Measure.

Here the Gregory County Auditor correctly

- 1) Used unique numbers for the Senate(R), President (D), IM races
- 2) Over votes were tested.
- 3) Under Votes (blank ballots) were tested.

Areas for Improvement

- 1) The House(R) race failed to have unique numbers for each option.
- 2) Prime Number for one candidate in each race is not consistent.

It is not noted if the ExpressVote Systems were properly tested here.

*A Hand Recount of the House race of this precinct is recommended due to improper test deck.

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REP State Senator. District 21 Number to Vote For	1		A
Number to vote For	1	and the second se	Qualon HH 111 (8)
Erin Tobin	15	1	Ovaraleg 17th 111 (8)
Mykala Voita	9		
Over Votes	4		CTALVARDON THE THE (D)
Under Votes	3		
Total Votes	31		Williamson III 3
			Biden Jr. THE THE II (12)
REP State Representative, Dist Number to Vote For	rict 21		01.0
Lee Qualm	8		Parez- Surrato MH II (7)
Marty Overweg	8 10		
Jim Haiverson Over Votes	8		Im - Yes THE THE THE THE THE THE ALL WE (29)
Under Votes	28		
			In . No the the the the the the the I (41)
Total Votes	62		
DEM Presidential Candidate			
Number to Vote For	1		Sa B II.
		*	89 Ballots
Marianne Williamson	3 12	The second second	(1 not counted- no stamp)
Joseph R Biden Jr Dean Phillips	4		in couries no aramps
Armando Perez-Sernato	7		and the second
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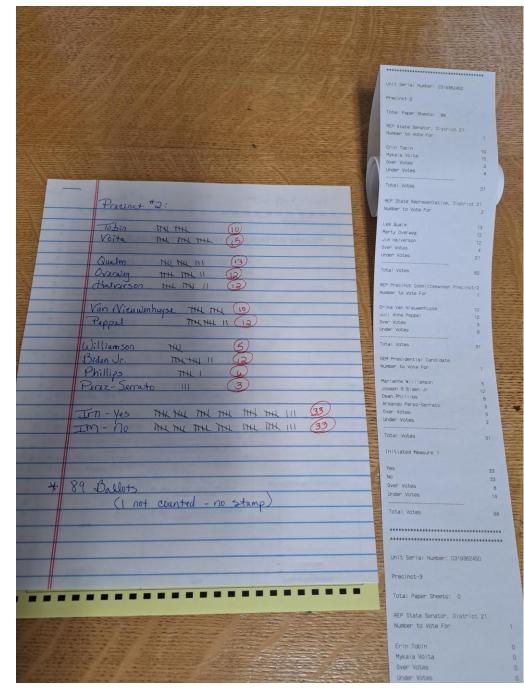
- 1) Used unique numbers for the Senate(R), President (D), and the Precinct Committee Race(R).
- 2) Over votes were tested.
- 3) Under Votes (blank ballots) were tested.

Areas for Improvement

- 1) The House(R) and Initiated Ballot Measure races failed to have unique numbers for each option.
- 2) Prime Number for one candidate in each race is not consistent.

It is not noted if the ExpressVote Systems were properly tested here.

*A Hand Recount of the House and IM races of this precinct is recommended due to improper test deck.



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1	Unit Serial Number: 0319362450		
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	Total Paper Sheets: 126		Tobio MAL MAL II (12)
-	REP State Senator, District 21		
	Number to Vote For 1	-	Voita ITHLII
	Erin Tabin 12	-	
	Mykala Voita 7		Quality THE III (8)
	Over Votes 2 Under Votes 27		Overaleg ++++ 111 (8)
	Total Votes 48		Halvarson Mr Hull 12
	local totes		Williamson ITH 1 (4)
	REP State Representative, District 21 Number to Vote For 2		
	Lee Quaim B		Biden Jr. THE THE III 3
	Marty Overweg 8		
	Jis Halverson 12 Over Votes 4		Pariz-Sirrato III (3)
	Under Votes 84	A 10.7	To V NU XU XU WI AN 111 (23)
	Total Votes 96		In . Yes The The The Here The Here III (33)
	DEM Presidential Candidate		TM · NO MUTHUM THU THU THU THU THU THU
	Number to Vote For 1		TH TH HH I (1)
	Manianne Williamson 6		
	Dean Phillips 4		Los Aus
-	Armando Perez-Serrato 3 Over Votes 3	*	127 Ballots
	Under Votes 15	Repare	(1 not counted - no stamp)
	Total Votes 44	1.1.2	
	Initiated Measure 1		
	Yes 33 71		
	No Over Votes 10		
	Under Votes 12		
	Total Votes 126		
1.54	WE, THE UNDERSIGNED, DO HEREBY CERTIFY		
5			
	ACCURATE ACCOUNT OF ALL BALLOTS COUNTED AND THAT ALL COUNTERS WERE ZERO (0) WHEN		
	THE POLLS OFFICE AND THAT THE LAWS OF WAS HELD IN ACCORDANCE WITH THE LAWS OF THE STATE.		
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-	Election Official		
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	*** CHD OF REPORT ***		

What next?

- This is crucial evidence for voters and candidates.
- If we find any issues:
 - Could require retesting
 - Could compel a hand count of the elections for those races where the test decks did not properly test the equipment
 - Could require a 100% Post Election Audit
 - Could require discovery of the cast vote records and ballot images
 - Could point to incompetence and termination of election officials
 - Could result in lawsuits
 - Could result in Civil Rights Investigations
- Take good notes, consider writing an affidavit if you believe the issues you witness may impact the election.



Questions to Ask & Building the Evidence

- 1) Get the sample ballots from every precinct for each unique ballot design.
- 2) Ask if they fold the absentee ballots when mailing them out?
- 3) Ask if they tested the ExpressVote machines separately, ask for copies of reports?
- 4) Ask how many ExpressVote ballots they used for each precinct.
- 5) Evaluate if they tested enough ballots with folds, 10% is required (SD Rule <u>5:02:09:01.02</u>)
- 6) Ensure all tabulators are tested, get Test Deck Report(s) for each tabulator.
- 7) Ask for the Cast Vote Records (Minnehaha, Lincoln, Pennington and Davison only) *
- 8) Get the Ballot Images (Minnehaha, Lincoln, Pennington and Davison only) *

If they can not provide this, they have not proven they know how to use the election equipment, nor have they proven the systems are secure and ready for the election.

*NOTE: During Public Accuracy Tests, ask for Ballot Images and CVRs, since there is no identifying information of a voter issue here...so privacy is not an issue at all. (Voters do not fill out ballots for the test decks)



Questions for the Auditors

- Do you have the EAC Certificate?
- When was the last time you scanned the equipment for viruses?
- When was the battery replaced? Is it older than 3 years?
- When was the last time ES&S did maintenance?
- Did you backup the tabulator before maintenance was done?
- Do you have a logbook for the storage of tabulators, that notes who had access to the systems?

