

Charleston Ballot Audit Report

Charleston Ballot Audit Report

Election: Statee Senate District 45 Democratic Primary Runoff

Audit Date: 10:31:05, Thu Sep 17, 2015

Prec Nber	Precinct Name	EL30A				Audit				Comments
		Total	Opt	iVo	Flash	iVo	Opt	Man	Delta	
0174	Wadmalaw Island 1	51	0	51	0	51	0	0	0	
0175	Wadmalaw Island 2	104	0	104	0	104	0	0	0	
0440	Johns Island 1A	65	0	65	0	65	0	0	0	
0441	Johns Island 1B	73	0	73	0	73	0	0	0	
0444	Johns Island 3B	48	0	48	0	48	0	0	0	
0445	Johns Island 4	49	0	49	0	49	0	0	0	
0460	St Pauls 1	73	0	73	0	73	0	0	0	
0461	St Pauls 2A	52	0	52	0	52	0	0	0	
0462	St Pauls 2B	122	0	122	0	122	0	0	0	
0463	St Pauls 3	39	0	39	0	39	0	0	0	
0464	St Pauls 4	177	0	177	0	177	0	0	0	
0465	St Pauls 5	45	0	45	0	45	0	0	0	
0466	St Pauls 6	54	0	54	0	54	0	0	0	
Precincts Total:		952	0	952	0	952	0	0	0	
0750	Absentee	68	51	17	0	17	51	0	0	
0800	Emergency	0	0	0	0	0	0	0	0	
0850	Fail safe	0	0	0	0	0	0	0	0	
0900	Provisional	2	2	0	0	0	2	0	0	
Virtual Precincts Total:		70	53	17	0	17	53	0	0	
Grand Total:		1022	53	969	0	969	53	0	0	

NOTE: Any manual entries shown on this report are supported by the Manual Entry Log (EL68).

Auditor's Comments:

Total number of iVotronic ballots cast containing no votes: 6

The following precincts have no ballots cast in them: Emergency, Fail safe

This audit is complete and has no exceptions.

EL30A iVo to EL155 to EL152 Cross Check and Cancelled Ballots.

EL30A iVo Ballots	EL155 Ballots	EL152 Ballots
969	969	969
Delta from EL30A	0	0
	Delta from EL155	0
	Cast By Voter	968
	Cast By Poll Wkr	1

Charleston Ballot Audit Report

Blank Cast by PW	0
Cancelled Ballots	3
Wrong Ballot	1
Voter Left AB	0
Voter Left BB	0
Voter Request	1
Printer Problem	0
Terminal Problem	1
Other Reason	0

(AB = After ballot selected by poll worker.)
 (BB = Before ballot selected by poll worker.)

Number of audio (ADA) events in this election: 0

Note: The following machines(s) have audit records but no ballots were cast on them: ♀
 Because they do not have ballots cast, they cannot be matched to a precinct. This is not an issue as long as the EL30A Ivo Ballots, the EL155 Ballots and the EL152 Ballots match in the table immediately above.

How to read this report.

This is the ballot level report. It compares the number of ballots cast in the tabulation report, the EL30A with the number of ballots cast in the audit data.

The values read from the EL30A report are reported in four categories; Total, Optical (Opt), iVotronic (iVo) and Flash. None of these values on each line are calculated but parsed from the actual report. The total lines are the calculated sums of the individual precinct line values.

The Opt totals are the total number of ballots cast on paper ballots that were scanned into the optical scanner and transferred to the tabulation computer via memory stick or ZipDisk (depending on the type of device, M100 or M650 used to scan the ballots.) Optical totals should exist only in some but not all of the Virtual Precincts at the bottom of the table.

The iVo totals are the results gathered from the PEBs (Personal Electronic Ballot) which are used to open and close an iVotronic voting machine and, after the polls have closed, gather the ballots cast for transmission to the tabulation system.

The Flash totals are the totals that are read from the flash cards in the rare event that the ballots cannot be copied from the machine to the PEB or from the PEB to the tabulating machine.

The values on the Audit side come from the iVotronic audit data that is read from the flash cards as part of the audit process. That process combines the individual machine data into two master audit files, the EL155 Vote image log and the EL152 iVotronic event log. The EL155 contains a record of all the votes cast on a ballot. The vote images indicate the machine. Counting the number of asterisks in a precinct we get the number of ballots cast in that precinct. That number should always match the number in the iVo column on the EL30A side of the report.

Charleston Ballot Audit Report

Optical ballots do not have electronically readable audit files. So if the audit data iVotronic total does not match the EL30A Total value, the auditor is prompted to read the paper report from the optical scanner and enter the total ballots cast into the auditing program.

If the sum of the audit iVotronic and Optical ballots cast still do not match the EL30A total value, then the audit software reads the EL68 Manual Entry log for any changes made in that precinct to either the iVo or Opt totals by the CEC staff. It displays any manual entries to the auditor for inclusion into the totals. If accepted by the auditor these entries are automatically added to the Man column from the Manual Entry log.

Finally, the audit software calculates the Delta value which should be zero unless the sum of the iVo, the Opt and the Man do not match the EL30A Total column. If the Delta is greater than zero then audit data is missing. A comment will be placed on that line in the report indicating missing audit data. If the Delta value is less than zero then there are more ballots in the audit data than there are in the tabulated data and a comment will be placed on that line in the report.

Wherever possible, the audit system will attempt to indicate where the difference is by displaying the iVotronic machine numbers and the number of ballots cast on that machine that exist in the audit data. In the case of missing tabulated data, it might be possible to identify a machine that has the same number of ballots cast as the delta value and that number and ballot count will be highlighted with a < sign. If there is a non zero Delta value there will be an entry by the auditor explaining the variance.

Finally, there is a EL30A iVo to EL155 to EL152 Cross Check and Cancelled Ballots table in the report. This table should indicate that the number ballots cast in the EL30A match the numbers in the EL155 and the EL152 report. Then there are some statistics pulled from the EL152 report that indicate how many ballots were cast by the voter and the number cast by the poll worker. Lastly the number of ballots that were cancelled and the reason they were cancelled. It should be noted that the reason cancelled is chosen from a pull down menu presented to the poll worker when a ballot is cancelled, there is no way to validate the poll worker's choice.

Charleston Vote Audit

Charleston Vote Level Audit Report
 Election: State Senate District 45 Democratic Primary Runoff
 Audit Date: 10:31:33, Thu Sep 17, 2015

Precinct Number / Name Office	Candidate	Party	EL30A				Audit		Comments
			Total	Optical	iVo	Flash	iVo	Delta	
0174 Wadmalaw Island 1 State Senate District 45 State Senate District 45	Kenneth F Hodges Margie Bright Matthews		16 35	0 0	16 35	0 0	16 35	0 0	
0175 Wadmalaw Island 2 State Senate District 45 State Senate District 45	Kenneth F Hodges Margie Bright Matthews		43 61	0 0	43 61	0 0	43 61	0 0	
0440 Johns Island 1A State Senate District 45 State Senate District 45	Kenneth F Hodges Margie Bright Matthews		36 29	0 0	36 29	0 0	36 29	0 0	
0441 Johns Island 1B State Senate District 45 State Senate District 45	Kenneth F Hodges Margie Bright Matthews		37 36	0 0	37 36	0 0	37 36	0 0	
0444 Johns Island 3B State Senate District 45 State Senate District 45	Kenneth F Hodges Margie Bright Matthews		21 26	0 0	21 26	0 0	21 26	0 0	
0445 Johns Island 4 State Senate District 45 State Senate District 45	Kenneth F Hodges Margie Bright Matthews		24 24	0 0	24 24	0 0	24 24	0 0	
0460 St Pauls 1 State Senate District 45 State Senate District 45	Kenneth F Hodges Margie Bright Matthews		47 25	0 0	47 25	0 0	47 25	0 0	
0461 St Pauls 2A State Senate District 45 State Senate District 45	Kenneth F Hodges Margie Bright Matthews		28 23	0 0	28 23	0 0	28 23	0 0	
0462 St Pauls 2B State Senate District 45 State Senate District 45	Kenneth F Hodges Margie Bright Matthews		78 43	0 0	78 43	0 0	78 43	0 0	

Charleston Vote Audit

0463	St Pauls 3							
State Senate District 45		Kenneth F Hodges	22	0	22	0	22	0
State Senate District 45		Margie Bright Matthews	17	0	17	0	17	0
0464	St Pauls 4							
State Senate District 45		Kenneth F Hodges	118	0	118	0	118	0
State Senate District 45		Margie Bright Matthews	58	0	58	0	58	0
0465	St Pauls 5							
State Senate District 45		Kenneth F Hodges	28	0	28	0	28	0
State Senate District 45		Margie Bright Matthews	17	0	17	0	17	0
0466	St Pauls 6							
State Senate District 45		Kenneth F Hodges	35	0	35	0	35	0
State Senate District 45		Margie Bright Matthews	19	0	19	0	19	0
0750	Absentee							
State Senate District 45		Kenneth F Hodges	53	43	10	0	10	0
State Senate District 45		Margie Bright Matthews	14	7	7	0	7	0
0800	Emergency							
State Senate District 45		Kenneth F Hodges	0	0	0	0	* No Audit Data expected or found	
State Senate District 45		Margie Bright Matthews	0	0	0	0	* No Audit Data expected or found	
0850	Fail safe							
State Senate District 45		Kenneth F Hodges	0	0	0	0	* No Audit Data expected or found	
State Senate District 45		Margie Bright Matthews	0	0	0	0	* No Audit Data expected or found	
0900	Provisional							
State Senate District 45		Kenneth F Hodges	1	1	0	0	* All votes cast for this candidate in this precinct are optical.	
							* No Audit Data for optical.	
State Senate District 45		Margie Bright Matthews	1	1	0	0	* All votes cast for this candidate in this precinct are optical.	
							* No Audit Data for optical.	

There was no unmatched audit data.

How to read this report.

This is the vote level report. It compares the number of votes cast for each candidate in the tabulation report with the number of ballots cast in the audit data for each candidates in each

Charleston Vote Audit

precinct.

The tabulated values as read from the EL30A report are reported in four categories; Total, Optical (Opt), iVotronic (iVo) and Flash. None of these values on each line are calculated but parsed from the actual report. In the EL30A report all Write-in votes are added together and reported as one candidate name - Write-in. The EL30A does not report individual Write-in candidates.

The Opt totals are the total number of votes cast on paper ballots that were scanned into the optical scanner and transferred to the tabulation computer via memory stick or ZipDisk (depending on the type of device, M100 or M650 used to scan the ballots.) Optical totals should exist only in some but not all of the Virtual Precincts at the bottom of the table.

The iVo totals are the results gathered from the PEBs (Personal Electronic Ballot) which are used to open and close an iVotronic voting machine and, after the polls have closed, gather the ballots cast for transmission to the tabulation system.

The Flash totals are the totals that are read from the flash cards in the rare event that the ballots cannot be copied from the machine to the PEB or from the PEB to the tabulating machine.

The values on the Audit side come from the iVotronic audit data that is read from the flash cards as part of the audit process. That process combines the individual machine data into a master audit file, the EL155 Vote image log.

The EL155 contains a record of all the votes cast on a ballot. The vote images indicate the machine counting the number of times a candidate name for a contest appears in a precinct we get the number of votes cast in that precinct for that candidate. That number should always match the number of votes cast for that candidate in that contest in the iVo column on the EL30A side of the report.

Optical ballots do not have electronically readable audit files. So if the audit data iVotronic total votes does not match the EL30A iVo value one of two things will occur. The first is if the iVotronic tabulated is zero and the Total tabulated votes match the tabulated Optical votes the following comment is made in the Audit side of the report; All votes cast for this candidate in this precinct are optical No Audit Data for optical, or secondly, if the iVotronic total is not zero, a notation indicating which data Audit data. In the event a candidate or the combined Write-in candidates did not receive any votes in a precinct the EL30A will report a zero vote count. If there are no votes for this candidate in a precinct in the audit data, the following comment will be placed into the audit report by the auditing software; No Audit Data expected or found.

Finally the audit software will search the audit data for any votes that were not found on the EL30A report. If it finds some, it will report those vote totals by contest, candidate name and precinct. if it does not find any unmatched audit data it will report; There was no unmatched audit data

Charleston EL30A45A Compare

Charleston EL30A45A Comparison Report
 Election: State Senate District 45 Democratic Primary Runoff
 Audit Date: 10:33:7, Thu Sep 17, 2015

Office	Candidate	Party	EL30A				EL45A				Delta
			Tot	Opt	iVo	Flash	Tot	Opt	iVo	Flash	
State Senate District 45	Kenneth F Hodges		587	44	543	0	587	44	543	0	0
State Senate District 45	Margie Bright Matthews		428	8	420	0	428	8	420	0	0

How to read this report.

This is EL30A EL45A Crosscheck Report. It sums each candidates vote totals in each precinct in the EL30A Precinct Detail Report and compares it to the EL45A Election Summary Report that contains the tabulated total for each candidate in the county.

The values read from the EL30A report are reported in four categories; Total, Optical (Opt), iVotronic (iVo) and Flash. None of these values on each line are calculated but parsed from the actual report. The total lines are the calculated sums of the individual precince line values.

The Opt totals are the total number of votes cast on paper ballots that were scanned into the optical scanner and transferred to the tabulation computer via memory stick or ZipDisk (depending on the type of device, M100 or M650 used to scan the ballots.) Optical totals should exist only in some but not all of the Virtual Precincts at the bottom of the table.

The iVo totals are the results gathered from the PEBs (Personal Electronic Ballot) which are used to open and close an iVotronic voting machine and, after the polls have closed, gather the ballots cast for transmission to the tabulation system.

The Flash totals are the totals that are read from the flash cards in the rare event that the ballots cannot be copied from the machine to the PEB or from the PEB to the tabulating machine.

The values read from the EL45A report are reported in same four categories; Total, Optical (Opt), iVotronic (iVo) and Flash as the EL30A. Like the EL30A they are parsed from the actual EL45A report. The summary candidate totals are compared against the calculated sums for each candidate from, the EL30A report. Each of the values in each line on the EL30A side must match the same value on the EL45A side and the Delta value must be zero.

Charleston PEBUsed

Charleston PEB Use Report

Election: State Senate District 45 Democratic Primary Runoff

Audit Date: 10:31:05, Thu Sep 17, 2015

Precinct	PEBs Used	Comments
Wadmalaw Island 1	156646	
Wadmalaw Island 2	156646	
Johns Island 1A	157228	
Johns Island 1B	157228	
Johns Island 3B	156546	
Johns Island 4	156498	
St Pauls 1	156555	
St Pauls 2A	155939	
St Pauls 2B	155939	
St Pauls 3	156553	
St Pauls 4	165963	
St Pauls 5	153051	
St Pauls 6	153051	
Absentee	156786	

14 precincts processed

The following precinct(s) have no ballots cast in them: Emergency, Failsafe
Note: if there are no ballots cast in a precinct the machines in that precinct cannot be identified so these precinct(s) will not appear in this report.

How to read this report.

This is the PEB Used report. It lists the precincts found in the Audit data and lists all the PEBs that were used by the poll workers to open and close the iVotronic machines in that precinct.

If more than one PEB is used to open and close all the iVotronic machines in a precinct, then the County Election Commission must read ALL the PEBs used in that precinct to assure that they have collected all the ballots from that precinct. A county whose report shows a precinct that has machines open or closed by more than one PEB should double check the Ballot Audit Report against the iVotronic paper tapes and the Poll Book to make sure that all the ballots have been collected and tabulated.

Charleston PEBExceptionsReport

Charleston PEB Exceptions Report

Election: State Senate District 45 Democratic Primary Runoff

Election date: 09/15/2015

Audit Date: 10:31:05, Thu Sep 17, 2015

iVo #	Op PEB	Open Time	Cl PEB	Close Time	Exception Type	Precinct - Ballots Cast
5133037	156786	09/04/2015 16:36:22	156786	09/15/2015 19:02:42	>>Open Date<<	Absentee - 17
5133037	156786	09/04/2015 16:36:22	156786	09/15/2015 19:02:42	Open Time	Absentee - 17

The following machines(s) have audit records but no ballots were cast on them: ♀
Because they do not have ballots cast, they cannot be matched to a precinct.

How to read this report.

This is the PEB Exceptions Report. It checks for the following conditions in the iVotronic Event Log;

- 1: A machine that was opened and closed by different PEBs
- 2: A Machine that was not opened on Election Date - could be either an absentee or test machine
- 3: A Machine that was not closed on Election Date - could have had problem closing
- 4: A Machine that was not opened by 7 am - note most Absentee machines will show up here
- 5: A Machine that was closed before 7pm - polls close at 7 PM
- 6: A Machine that was not closed ever.
- 7: A machine that has no ballots cast on it.

Each of the events above detected are reported on a separate line, each line contains the following information:
iVotronic machine number, Opening PEB Number, Open Time, Closing PEB Number, Closing Time, the Exception Type and the Precinct and the Ballots Cast on that machine.

Absentee and Failsafe precinct machines are opened during the middle of the day several days before the election date of 09/15/2015. So it is normal for these machines to appear on this report with Open Date and Open Time exceptions.