

Greenville Ballot Audit Report

Greenville Ballot Audit Report

Prec Nber	Precinct Name	EL30A				Audit				Comments
		Total	Opt	iVo	Flash	iVo	Opt	Man	Delta	
0231	ALTAMONT FOREST	37	0	37	0	37	0	0	0	
0245	CLEAR CREEK	100	0	100	0	100	0	0	0	
0247	DARBY RIDGE	121	0	121	0	121	0	0	0	
0254	EBENEZER	191	0	191	0	191	0	0	0	
0262	FURMAN	165	0	165	0	165	0	0	0	
0269	JENNINGS MILL	190	0	190	0	190	0	0	0	
0275	MARIDELL	143	0	143	0	143	0	0	0	
0286	MOUNTAIN VIEW	261	0	261	0	261	0	0	0	
0307	SANDY FLAT	221	0	221	0	221	0	0	0	
0317	SLATER MARIETTA	231	0	231	0	231	0	0	0	
0325	SULPHUR SPRINGS	3	0	3	0	3	0	0	0	
0330	TIGERVILLE	262	0	262	0	262	0	0	0	
0334	TUBBS MOUNTAIN	244	0	244	0	244	0	0	0	
0365	TRAVELERS REST 1	192	0	192	0	192	0	0	0	
0366	TRAVELERS REST 2	129	0	129	0	129	0	0	0	
Precincts Total:		2490	0	2490	0	2490	0	0	0	
0750	ABSENTEE	38	6	32	0	32	6	0	0	
0800	PROVISIONAL	2	2	0	0	0	2	0	0	
0850	FAILSAFE	0	0	0	0	0	0	0	0	
0900	EMERGENCY	0	0	0	0	0	0	0	0	
Virtual Precincts Total:		40	8	32	0	32	8	0	0	
Grand Total:		2530	8	2522	0	2522	8	0	0	

Total number of iVotronic ballots cast containing no votes: 11

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

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

EL30A iVo Ballots	EL155 Ballots	EL152 Ballots
2522	2522	2522
Delta from EL30A	0	0
	Delta from EL155	0
	Cast By Voter	2522
	Cast By Poll Wkr	0
	Blank Cast by PW	0
	Cancelled Ballots	5
	Wrong Ballot	1
	Voter Left AB	0
	Voter Left BB	0

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

## Greenville Ballot Audit Report

Voter Request	0
Printer Problem	0
Terminal Problem	1
Other Reason	3

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 precince 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.

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

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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 nubmer ballots cast in the EL30A match the numbers in the EL155 and the EL152 report. Then there are some statistics pulled from the EL152 repor 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.

Greenville Vote Level Audit Report

Greenville Vote Audit

Precinct Number / Name Office	Candidate	Party	EL30A				Audit		Comments
			Total	Optical	iVo	Flash	iVo	Delta	
0231 ALTAMONT FOREST									
Init - SC House District 17	Mike Burns		20	0	20	0	20	0	
Init - SC House District 17	Chris Sullivan		17	0	17	0	17	0	
0245 CLEAR CREEK									
Init - SC House District 17	Mike Burns		23	0	23	0	23	0	
Init - SC House District 17	Chris Sullivan		77	0	77	0	77	0	
0247 DARBY RIDGE									
Init - SC House District 17	Mike Burns		44	0	44	0	44	0	
Init - SC House District 17	Chris Sullivan		77	0	77	0	77	0	
0254 EBENEZER									
Init - SC House District 17	Mike Burns		108	0	108	0	108	0	
Init - SC House District 17	Chris Sullivan		82	0	82	0	82	0	
0262 FURMAN									
Init - SC House District 17	Mike Burns		88	0	88	0	88	0	
Init - SC House District 17	Chris Sullivan		76	0	76	0	76	0	
0269 JENNINGS MILL									
Init - SC House District 17	Mike Burns		74	0	74	0	74	0	
Init - SC House District 17	Chris Sullivan		116	0	116	0	116	0	
0275 MARI DELL									
Init - SC House District 17	Mike Burns		79	0	79	0	79	0	
Init - SC House District 17	Chris Sullivan		63	0	63	0	63	0	
0286 MOUNTAIN VIEW									
Init - SC House District 17	Mike Burns		174	0	174	0	174	0	
Init - SC House District 17	Chris Sullivan		86	0	86	0	86	0	
0307 SANDY FLAT									
Init - SC House District 17	Mike Burns		119	0	119	0	119	0	
Init - SC House District 17	Chris Sullivan		100	0	100	0	100	0	
0317 SLATER MARIETTA									
Init - SC House District 17	Mike Burns		121	0	121	0	121	0	
Init - SC House District 17	Chris Sullivan		110	0	110	0	110	0	
0325 SULPHUR SPRINGS									
Init - SC House District 17	Mike Burns		2	0	2	0	2	0	
Init - SC House District 17	Chris Sullivan		1	0	1	0	1	0	
0330 TIGERVILLE									
Init - SC House District 17	Mike Burns		161	0	161	0	161	0	

		Greenville Vote Audit						
Init - SC House District 17	Chris Sullivan	100	0	100	0	100	0	
0334 TUBBS MOUNTAIN								
Init - SC House District 17	Mike Burns	158	0	158	0	158	0	
Init - SC House District 17	Chris Sullivan	83	0	83	0	83	0	
0365 TRAVELERS REST 1								
Init - SC House District 17	Mike Burns	117	0	117	0	117	0	
Init - SC House District 17	Chris Sullivan	75	0	75	0	75	0	
0366 TRAVELERS REST 2								
Init - SC House District 17	Mike Burns	76	0	76	0	76	0	
Init - SC House District 17	Chris Sullivan	52	0	52	0	52	0	
0750 ABSENTEE								
Init - SC House District 17	Mike Burns	19	2	17	0	17	0	
Init - SC House District 17	Chris Sullivan	19	4	15	0	15	0	
0800 PROVISIONAL								
Init - SC House District 17	Mike Burns	2	2	0	0	* All votes cast for this candidate in this precinct are optical. * No Audit Data for optical.		
Init - SC House District 17	Chris Sullivan	0	0	0	0	* No Audit Data expected or found		
0850 FAILSAFE								
Init - SC House District 17	Mike Burns	0	0	0	0	* No Audit Data expected or found		
Init - SC House District 17	Chris Sullivan	0	0	0	0	* No Audit Data expected or found		
0900 EMERGENCY								
Init - SC House District 17	Mike Burns	0	0	0	0	* No Audit Data expected or found		
Init - SC House District 17	Chris Sullivan	0	0	0	0	* No Audit Data expected or found		

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 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

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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. Ocounting 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

Greenville EL30A45A Compare

Greenville EL30A45A Comparison Report

Office	Candidate	Party	EL30A				EL45A				Delta
			Tot	Opt	iVo	Flash	Tot	Opt	iVo	Flash	
SC House District 17	Mike Burns		1385	4	1381	0	1385	4	1381	0	0
SC House District 17	Chris Sullivan		1134	4	1130	0	1134	4	1130	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.

Greenville PEB Use Report

Precinct	PEBs Used	Comments
ALTAMONT FOREST	138687	
CLEAR CREEK	151677	
DARBY RIDGE	139976	
EBENEZER	138738	
FURMAN	137736	
JENNINGS MILL	137638	
MARIDELL	137358	
MOUNTAIN VIEW	150665	
SANDY FLAT	154578	
SLATER MARIETTA	119948	
SULPHUR SPRINGS	137736	
TIGERVILLE	138519	
TUBBS MOUNTAIN	138687	
TRAVELERS REST 1	155743	
TRAVELERS REST 2	136887	
ABSENTEE	155471	

16 precincts processed

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.

PEBExceptionsReport

Greenville PEB Exceptions Report

iVo #	Op PEB	Open Time	Cl PEB	Close Time	Exception Type	Precinct - Ballots Cast
5125103	137638	02/05/2013 07:28:36	137638	02/05/2013 19:11:52	Open Time	JENNINGS MILL - 31
5126026	155471	01/28/2013 11:23:23	155471	02/05/2013 17:08:09	>>Open Date<<	ABSENTEE - 17
5126026	155471	01/28/2013 11:23:23	155471	02/05/2013 17:08:09	Open Time	ABSENTEE - 17
5126026	155471	01/28/2013 11:23:23	155471	02/05/2013 17:08:09	Close Time	ABSENTEE - 17
5132760	137638	02/05/2013 07:25:53	137638	02/05/2013 19:08:19	Open Time	JENNINGS MILL - 62
5138740	155471	01/28/2013 11:27:25	155471	02/05/2013 17:09:46	>>Open Date<<	ABSENTEE - 15
5138740	155471	01/28/2013 11:27:25	155471	02/05/2013 17:09:46	Open Time	ABSENTEE - 15
5138740	155471	01/28/2013 11:27:25	155471	02/05/2013 17:09:46	Close Time	ABSENTEE - 15

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.