

Edgefield 2016 Statewide Primary Audit Report

Edgefield Ballot Audit Report
 Election: 2016 Statewide Primary
 Audit Date: 12:31:19, Thu Jun 16, 2016

Prec Nber	Precinct Name	EL30A				Audit				Comments
		Total	Opt	iVo	Flash	iVo	Opt	Man	Delta	
0001	Edgefield No. 1	220	0	220	0	220	0	0	0	
0002	Edgefield No. 2	280	0	280	0	280	0	0	0	
0004	Johnston No. 1	123	0	123	0	123	0	0	0	
0005	Johnston No. 2	188	0	188	0	188	0	0	0	
0006	Trenton	119	0	119	0	119	0	0	0	
0007	Merriwether 1	276	0	276	0	276	0	0	0	
0008	Westside	223	0	223	0	223	0	0	0	
0009	Harmony	220	0	220	0	220	0	0	0	
0010	Northside	92	0	92	0	92	0	0	0	
0011	Brunson	76	0	76	0	76	0	0	0	
0012	Merriwether 2	310	0	310	0	310	0	0	0	
0013	Trenton 2	141	0	141	0	141	0	0	0	
Precincts Total:		2268	0	2268	0	2268	0	0	0	
0750	Absentee	277	44	233	0	233	44	0	0	
0800	Emergency	0	0	0	0	0	0	0	0	
0850	Fail safe	1	0	1	0	1	0	0	0	
0900	Provisional	0	0	0	0	0	0	0	0	
0950	Fail safe Provisional	0	0	0	0	0	0	0	0	
Virtual Precincts Total:		278	44	234	0	234	44	0	0	
Grand Total:		2546	44	2502	0	2502	44	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: 8
 The following precincts have no ballots cast in them: Emergency, Provisional, Fail safe Provisional
 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
2502	2502	2502
Delta from EL30A	0	0
	Delta from EL155	0
	Cast By Voter	2502
	Cast By Poll Wkr	0

Edgefield 2016 Statewide Primary Audit Report

Blank Cast by PW	0
Cancelled Ballots	23
Wrong Ballot	2
Voter Left AB	0
Voter Left BB	0
Voter Request	0
Printer Problem	0
Terminal Problem	6
Other Reason	15

(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: 5121119, 5127579, 5133049, 5135749
 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. Ocounting 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.

Edgefield 2016 Statewide Primary 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 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.

 Edgefield Vote Level Audit Report
 Election: 2016 Statewide Primary
 Audit Date: 12:31:33, Thu Jun 16, 2016

Precinct Number / Name Office	Candidate	Party	-----EL30A-----				-----Audit-----		Comments
			Total	Optical	iVo	Flash	iVo	Delta	
0001 Edgefield No. 1									
Init - State Senate Dist 25	Shane Massey		134	0	134	0	134	0	
Init - State Senate Dist 25	John Pettigrew		84	0	84	0	84	0	
Init - Solicitor Circuit 11	Rick Hubbard		120	0	120	0	120	0	
Init - Solicitor Circuit 11	Candice Lively		72	0	72	0	72	0	
Init - Solicitor Circuit 11	Larry Wedekind		16	0	16	0	16	0	

Edgefield 2016 Statewide Primary Audit Report

0002	Edgefield No. 2						
Init - State Senate Dist 25	Shane Massey	150	0	150	0	150	0
Init - State Senate Dist 25	John Pettigrew	129	0	129	0	129	0
Init - Solicitor Circuit 11	Rick Hubbard	129	0	129	0	129	0
Init - Solicitor Circuit 11	Candice Lively	99	0	99	0	99	0
Init - Solicitor Circuit 11	Larry Wedekind	32	0	32	0	32	0
0004	Johnston No. 1						
Init - State Senate Dist 25	Shane Massey	64	0	64	0	64	0
Init - State Senate Dist 25	John Pettigrew	59	0	59	0	59	0
Init - Solicitor Circuit 11	Rick Hubbard	61	0	61	0	61	0
Init - Solicitor Circuit 11	Candice Lively	44	0	44	0	44	0
Init - Solicitor Circuit 11	Larry Wedekind	7	0	7	0	7	0
0005	Johnston No. 2						
Init - State Senate Dist 25	Shane Massey	125	0	125	0	125	0
Init - State Senate Dist 25	John Pettigrew	62	0	62	0	62	0
Init - Solicitor Circuit 11	Rick Hubbard	112	0	112	0	112	0
Init - Solicitor Circuit 11	Candice Lively	64	0	64	0	64	0
Init - Solicitor Circuit 11	Larry Wedekind	9	0	9	0	9	0
0006	Trenton						
Init - State Senate Dist 25	Shane Massey	57	0	57	0	57	0
Init - State Senate Dist 25	John Pettigrew	61	0	61	0	61	0
Init - Solicitor Circuit 11	Rick Hubbard	76	0	76	0	76	0
Init - Solicitor Circuit 11	Candice Lively	33	0	33	0	33	0
Init - Solicitor Circuit 11	Larry Wedekind	8	0	8	0	8	0
0007	Merriwether 1						
Init - State Senate Dist 25	Shane Massey	176	0	176	0	176	0
Init - State Senate Dist 25	John Pettigrew	99	0	99	0	99	0
Init - Solicitor Circuit 11	Rick Hubbard	190	0	190	0	190	0
Init - Solicitor Circuit 11	Candice Lively	30	0	30	0	30	0
Init - Solicitor Circuit 11	Larry Wedekind	35	0	35	0	35	0
0008	Westside						
Init - State Senate Dist 25	Shane Massey	98	0	98	0	98	0
Init - State Senate Dist 25	John Pettigrew	124	0	124	0	124	0
Init - Solicitor Circuit 11	Rick Hubbard	142	0	142	0	142	0
Init - Solicitor Circuit 11	Candice Lively	48	0	48	0	48	0
Init - Solicitor Circuit 11	Larry Wedekind	24	0	24	0	24	0
0009	Harmony						
Init - State Senate Dist 25	Shane Massey	144	0	144	0	144	0
Init - State Senate Dist 25	John Pettigrew	73	0	73	0	73	0
Init - Solicitor Circuit 11	Rick Hubbard	137	0	137	0	137	0
Init - Solicitor Circuit 11	Candice Lively	66	0	66	0	66	0
Init - Solicitor Circuit 11	Larry Wedekind	13	0	13	0	13	0

Edgefield 2016 Statewide Primary Audit Report

0010	Northside							
Init - State Senate Dist 25	Shane Massey	41	0	41	0	41	0	
Init - State Senate Dist 25	John Pettigrew	50	0	50	0	50	0	
Init - Solicitor Circuit 11	Rick Hubbard	55	0	55	0	55	0	
Init - Solicitor Circuit 11	Candice Lively	30	0	30	0	30	0	
Init - Solicitor Circuit 11	Larry Wedekind	5	0	5	0	5	0	
0011	Brunson							
Init - State Senate Dist 25	Shane Massey	42	0	42	0	42	0	
Init - State Senate Dist 25	John Pettigrew	33	0	33	0	33	0	
Init - Solicitor Circuit 11	Rick Hubbard	35	0	35	0	35	0	
Init - Solicitor Circuit 11	Candice Lively	24	0	24	0	24	0	
Init - Solicitor Circuit 11	Larry Wedekind	9	0	9	0	9	0	
0012	Merriwether 2							
Init - State Senate Dist 25	Shane Massey	197	0	197	0	197	0	
Init - State Senate Dist 25	John Pettigrew	113	0	113	0	113	0	
Init - Solicitor Circuit 11	Rick Hubbard	179	0	179	0	179	0	
Init - Solicitor Circuit 11	Candice Lively	57	0	57	0	57	0	
Init - Solicitor Circuit 11	Larry Wedekind	44	0	44	0	44	0	
0013	Trenton 2							
Init - State Senate Dist 25	Shane Massey	52	0	52	0	52	0	
Init - State Senate Dist 25	John Pettigrew	88	0	88	0	88	0	
Init - Solicitor Circuit 11	Rick Hubbard	42	0	42	0	42	0	
Init - Solicitor Circuit 11	Candice Lively	75	0	75	0	75	0	
Init - Solicitor Circuit 11	Larry Wedekind	16	0	16	0	16	0	
0750	Absentee							
Init - State Senate Dist 25	Shane Massey	130	20	110	0	110	0	
Init - State Senate Dist 25	John Pettigrew	147	24	123	0	123	0	
Init - Solicitor Circuit 11	Rick Hubbard	130	15	115	0	115	0	
Init - Solicitor Circuit 11	Candice Lively	93	19	74	0	74	0	
Init - Solicitor Circuit 11	Larry Wedekind	19	5	14	0	14	0	
0800	Emergency							
Init - State Senate Dist 25	Shane Massey	0	0	0	0	0	0	* No Audit Data expected or found
Init - State Senate Dist 25	John Pettigrew	0	0	0	0	0	0	* No Audit Data expected or found
Init - Solicitor Circuit 11	Rick Hubbard	0	0	0	0	0	0	* No Audit Data expected or found
Init - Solicitor Circuit 11	Candice Lively	0	0	0	0	0	0	* No Audit Data expected or found
Init - Solicitor Circuit 11	Larry Wedekind	0	0	0	0	0	0	* No Audit Data expected or found
0850	Failsafe							
Init - State Senate Dist 25	Shane Massey	1	0	1	0	1	0	
Init - State Senate Dist 25	John Pettigrew	0	0	0	0	0	0	* No Audit Data expected or found
Init - Solicitor Circuit 11	Rick Hubbard	0	0	0	0	0	0	* No Audit Data expected or found
Init - Solicitor Circuit 11	Candice Lively	0	0	0	0	0	0	* No Audit Data expected or found

Edgefield 2016 Statewide Primary Audit Report

Init - Solicitor Circuit 11	Larry Wedekind	1	0	1	0	1	0
0900 Provisional							
Init - State Senate Dist 25	Shane Massey	0	0	0	0	*	No Audit Data expected or found
Init - State Senate Dist 25	John Pettigrew	0	0	0	0	*	No Audit Data expected or found
Init - Solicitor Circuit 11	Rick Hubbard	0	0	0	0	*	No Audit Data expected or found
Init - Solicitor Circuit 11	Candice Lively	0	0	0	0	*	No Audit Data expected or found
Init - Solicitor Circuit 11	Larry Wedekind	0	0	0	0	*	No Audit Data expected or found
0950 Failsafe Provisional							
Init - State Senate Dist 25	Shane Massey	0	0	0	0	*	No Audit Data expected or found
Init - State Senate Dist 25	John Pettigrew	0	0	0	0	*	No Audit Data expected or found
Init - Solicitor Circuit 11	Rick Hubbard	0	0	0	0	*	No Audit Data expected or found
Init - Solicitor Circuit 11	Candice Lively	0	0	0	0	*	No Audit Data expected or found
Init - Solicitor Circuit 11	Larry Wedekind	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 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 candidates. That number should always match the number of votes cast

Edgefield 2016 Statewide Primary Audit Report

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

 Edgefield EL30A45A Comparison Report
 Election: 2016 Statewide Primary
 Audit Date: 12:33:31, Thu Jun 16, 2016

Office	Candidate	Party	EL30A				EL45A				Delta
			Tot	Opt	iVo	Flash	Tot	Opt	iVo	Flash	
State Senate Dist 25	Shane Massey		1411	20	1391	0	1411	20	1391	0	0
State Senate Dist 25	John Pettigrew		1122	24	1098	0	1122	24	1098	0	0
Solicitor Circuit 11	Rick Hubbard		1408	15	1393	0	1408	15	1393	0	0
Solicitor Circuit 11	Candice Lively		735	19	716	0	735	19	716	0	0
Solicitor Circuit 11	Larry Wedekind		238	5	233	0	238	5	233	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 precinct 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

Edgefield 2016 Statewide Primary Audit Report

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.

Edgefield PEB Use Report
Electi on: 2016 Statewide Primary
Audit Date: 12:31:19, Thu Jun 16, 2016

Precinct	PEBs Used	Comments
Edgefield No. 1	153605	
Edgefield No. 2	155111	
Johnston No. 1	153515	
Johnston No. 2	154687	
Trenton	154670	
Merriwether 1	154507	
Westside	154961	
Harmony	154016	
Northside	153865	
Brunson	154152	
Merriwether 2	153873	
Trenton 2	154903	
Absentee	153884	
Fail safe	153884	

14 precincts processed

The following precinct(s) have no ballots cast in them: Emergency, Provisional, Fail safe Provisional
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.

Edgefield 2016 Statewide Primary Audit 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.

Edgefield PEB Exceptions Report
Election: 2016 Statewide Primary
Election date: 06/14/2016
Audit Date: 12:31:19, Thu Jun 16, 2016

iVo #	Op PEB	Open Time	Cl PEB	Close Time	Exception Type	Precinct - Ballots Cast
5114603	153884	05/16/2016 08:50:12	153884	06/14/2016 19:08:08	>>Open Date<<	Absentee - 4
5114603	153884	05/16/2016 08:50:12	153884	06/14/2016 19:08:08	Open Time	Absentee - 4
5116780	153884	05/16/2016 08:47:07	153884	06/14/2016 19:03:12	>>Open Date<<	Absentee - 182
						Fail safe - 1
5116780	153884	05/16/2016 08:47:07	153884	06/14/2016 19:03:12	Open Time	Absentee - 182
						Fail safe - 1
5123607	153884	05/16/2016 08:48:04	153884	06/14/2016 19:03:31	>>Open Date<<	Absentee - 38
5123607	153884	05/16/2016 08:48:04	153884	06/14/2016 19:03:31	Open Time	Absentee - 38
5125728	153884	05/16/2016 08:44:27	153884	06/14/2016 19:05:19	>>Open Date<<	Absentee - 9
5125728	153884	05/16/2016 08:44:27	153884	06/14/2016 19:05:19	Open Time	Absentee - 9

The following machines(s) have audit records but no ballots were cast on them: 5121119, 5127579, 5133049, 5135749
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

Edgefield 2016 Statewide Primary Audit Report

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 06/14/2016. So it is normal for these machines to appear on this report with Open Date and Open Time exceptions.