

Aiken 2016 Statewide Runoff Audit Report

Aiken Ballot Audit Report  
 Election: 2016 Statewide Runoff  
 Audit Date: 09:43:20, Thu Jun 30, 2016

Prec Nber	Precinct Name	EL30A				Audit				Comments
		Total	Opt	iVo	Flash	iVo	Opt	Man	Delta	
0001	Aiken No. 1	117	0	117	0	117	0	0	0	
0002	Aiken No. 2	11	0	11	0	11	0	0	0	
0005	Aiken No. 5	46	0	46	0	46	0	0	0	
0006	Aiken No. 6	82	0	82	0	82	0	0	0	
0013	College Acre	61	0	61	0	61	0	0	0	
0016	Graniteville	60	0	60	0	60	0	0	0	
0020	Millbrook	199	0	199	0	199	0	0	0	
0035	Six Points No. 35	60	0	60	0	60	0	0	0	
0037	Talatha	6	0	6	0	6	0	0	0	
0038	Vaughan	20	0	20	0	20	0	0	0	
0041	Warrenton	42	0	42	0	42	0	0	0	
0047	Aiken No. 47	88	0	88	0	88	0	0	0	
0050	Breezy Hill	9	0	9	0	9	0	0	0	
0052	Levels No. 52	69	0	69	0	69	0	0	0	
0053	Hollow Creek	173	0	173	0	173	0	0	0	
0059	Pine Forest	14	0	14	0	14	0	0	0	
0060	Gem Lakes No 60	89	0	89	0	89	0	0	0	
0065	Sleepy Hollow 65	82	0	82	0	82	0	0	0	
0066	Hitchcock No. 66	118	0	118	0	118	0	0	0	
0069	Anderson Pond 69	159	0	159	0	159	0	0	0	
0070	Sandstone No. 70	55	0	55	0	55	0	0	0	
0072	Levels No. 72	27	0	27	0	27	0	0	0	
0076	South Aiken No. 76	114	0	114	0	114	0	0	0	
0077	Gem Lakes No. 77	173	0	173	0	173	0	0	0	
0079	Sandstone No. 79	29	0	29	0	29	0	0	0	
0083	Levels No 83	19	0	19	0	19	0	0	0	
Precincts Total:		1922	0	1922	0	1922	0	0	0	
0750	Absentee	132	28	104	0	104	28	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	0	0	0	0	0	0	0	0	
0950	Fail safe Provisional	0	0	0	0	0	0	0	0	
Virtual Precincts Total:		132	28	104	0	104	28	0	0	
Grand Total:		2054	28	2026	0	2026	28	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: 3  
 The following precincts have no ballots cast in them: Emergency, Fail safe, Provisional, Fail safe Provisional  
 This audit is complete and has no exceptions.

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

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EL30A Ivo Ballots	EL155 Ballots	EL152 Ballots	
2026 Delta from EL30A	2026 0 Delta from EL155	2026 0 0	
	Cast By Voter	2026	
	Cast By Poll Wkr	0	
	Blank Cast by PW	0	
	Cancelled Ballots	34	
	Wrong Ballot	0	
	Voter Left AB	0	(AB = After ballot selected by poll worker.)
	Voter Left BB	0	(BB = Before ballot selected by poll worker.)
	Voter Request	1	
	Printer Problem	0	
	Terminal Problem	8	
	Other Reason	25	

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

Note: The following machines(s) have audit records but no ballots were cast on them: 5121860, 5128135, 5129490, 5129756, 5131801, 5132133, 5133273, 5135788, 5137863, 5138035

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.

Aiken 2016 Statewide Runoff Audit Report

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 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 of 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.

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 Aiken Vote Level Audit Report  
 Election: 2016 Statewide Runoff  
 Audit Date: 09:43:42, Thu Jun 30, 2016

Precinct Number / Name Office	Candidate	Party	EL30A				Audit		Comments
			Total	Optical	iVo	Flash	iVo	Delta	
0001 Aiken No. 1									
State House of Representatives District 81	Bart Blackwell		62	0	62	0	62	0	
State House of Representatives District 81	K T Ruthven		55	0	55	0	55	0	

Ai ken 2016 Statewi de Runoff Audi t Report

0002	Ai ken No. 2									
	State House of Representatives	Di strict	81	Bart Blackwell	8	0	8	0	8	0
	State House of Representatives	Di strict	81	K T Ruthven	3	0	3	0	3	0
0005	Ai ken No. 5									
	State House of Representatives	Di strict	81	Bart Blackwell	22	0	22	0	22	0
	State House of Representatives	Di strict	81	K T Ruthven	24	0	24	0	24	0
0006	Ai ken No. 6									
	State House of Representatives	Di strict	81	Bart Blackwell	44	0	44	0	44	0
	State House of Representatives	Di strict	81	K T Ruthven	38	0	38	0	38	0
0013	College Acre									
	State House of Representatives	Di strict	81	Bart Blackwell	11	0	11	0	11	0
	State House of Representatives	Di strict	81	K T Ruthven	50	0	50	0	50	0
0016	Grani tevi l l e									
	State House of Representatives	Di strict	81	Bart Blackwell	14	0	14	0	14	0
	State House of Representatives	Di strict	81	K T Ruthven	46	0	46	0	46	0
0020	Mill brook									
	State House of Representatives	Di strict	81	Bart Blackwell	122	0	122	0	122	0
	State House of Representatives	Di strict	81	K T Ruthven	75	0	75	0	75	0
0035	Six Points No. 35									
	State House of Representatives	Di strict	81	Bart Blackwell	24	0	24	0	24	0
	State House of Representatives	Di strict	81	K T Ruthven	36	0	36	0	36	0
0037	Tal atha									
	State House of Representatives	Di strict	81	Bart Blackwell	1	0	1	0	1	0
	State House of Representatives	Di strict	81	K T Ruthven	5	0	5	0	5	0
0038	Vaucl use									
	State House of Representatives	Di strict	81	Bart Blackwell	9	0	9	0	9	0
	State House of Representatives	Di strict	81	K T Ruthven	11	0	11	0	11	0
0041	Warrenvi l l e									
	State House of Representatives	Di strict	81	Bart Blackwell	18	0	18	0	18	0
	State House of Representatives	Di strict	81	K T Ruthven	24	0	24	0	24	0
0047	Ai ken No. 47									
	State House of Representatives	Di strict	81	Bart Blackwell	34	0	34	0	34	0
	State House of Representatives	Di strict	81	K T Ruthven	54	0	54	0	54	0
0050	Breezy Hi l l									
	State House of Representatives	Di strict	81	Bart Blackwell	4	0	4	0	4	0
	State House of Representatives	Di strict	81	K T Ruthven	5	0	5	0	5	0
0052	Level s No. 52									
	State House of Representatives	Di strict	81	Bart Blackwell	21	0	21	0	21	0
	State House of Representatives	Di strict	81	K T Ruthven	48	0	48	0	48	0

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0053	Hollow Creek										
State House of Representatives	District 81	Bart Blackwell	130	0	130	0	130	0			
State House of Representatives	District 81	K T Ruthven	43	0	43	0	43	0			
0059	Pine Forest										
State House of Representatives	District 81	Bart Blackwell	4	0	4	0	4	0			
State House of Representatives	District 81	K T Ruthven	10	0	10	0	10	0			
0060	Gem Lakes No 60										
State House of Representatives	District 81	Bart Blackwell	44	0	44	0	44	0			
State House of Representatives	District 81	K T Ruthven	45	0	45	0	45	0			
0065	Sleepy Hollow 65										
State House of Representatives	District 81	Bart Blackwell	40	0	40	0	40	0			
State House of Representatives	District 81	K T Ruthven	41	0	41	0	41	0			
0066	Hitchcock No. 66										
State House of Representatives	District 81	Bart Blackwell	44	0	44	0	44	0			
State House of Representatives	District 81	K T Ruthven	74	0	74	0	74	0			
0069	Anderson Pond 69										
State House of Representatives	District 81	Bart Blackwell	103	0	103	0	103	0			
State House of Representatives	District 81	K T Ruthven	56	0	56	0	56	0			
0070	Sandstone No. 70										
State House of Representatives	District 81	Bart Blackwell	26	0	26	0	26	0			
State House of Representatives	District 81	K T Ruthven	29	0	29	0	29	0			
0072	Levels No. 72										
State House of Representatives	District 81	Bart Blackwell	5	0	5	0	5	0			
State House of Representatives	District 81	K T Ruthven	22	0	22	0	22	0			
0076	South Aiken No. 76										
State House of Representatives	District 81	Bart Blackwell	64	0	64	0	64	0			
State House of Representatives	District 81	K T Ruthven	50	0	50	0	50	0			
0077	Gem Lakes No. 77										
State House of Representatives	District 81	Bart Blackwell	99	0	99	0	99	0			
State House of Representatives	District 81	K T Ruthven	74	0	74	0	74	0			
0079	Sandstone No. 79										
State House of Representatives	District 81	Bart Blackwell	18	0	18	0	18	0			
State House of Representatives	District 81	K T Ruthven	11	0	11	0	11	0			
0083	Levels No 83										
State House of Representatives	District 81	Bart Blackwell	4	0	4	0	4	0			
State House of Representatives	District 81	K T Ruthven	15	0	15	0	15	0			
0750	Absentee										
State House of Representatives	District 81	Bart Blackwell	67	15	52	0	52	0			
State House of Representatives	District 81	K T Ruthven	65	13	52	0	52	0			

A i k e n 2016 S t a t e w i d e R u n o f f A u d i t R e p o r t

0800	Emergency								
State House of Representatives	District 81	Bart Blackwell	0	0	0	0	*	No Audit Data expected or found	
State House of Representatives	District 81	K T Ruthven	0	0	0	0	*	No Audit Data expected or found	
0850	Fail safe								
State House of Representatives	District 81	Bart Blackwell	0	0	0	0	*	No Audit Data expected or found	
State House of Representatives	District 81	K T Ruthven	0	0	0	0	*	No Audit Data expected or found	
0900	Provisional								
State House of Representatives	District 81	Bart Blackwell	0	0	0	0	*	No Audit Data expected or found	
State House of Representatives	District 81	K T Ruthven	0	0	0	0	*	No Audit Data expected or found	
0950	Fail safe Provisional								
State House of Representatives	District 81	Bart Blackwell	0	0	0	0	*	No Audit Data expected or found	
State House of Representatives	District 81	K T Ruthven	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 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

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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

Aiken EL30A45A Comparison Report  
 Election: 2016 Statewide Runoff  
 Audit Date: 9:43:57, Thu Jun 30, 2016

Office	Candidate	Party	EL30A				EL45A				Delta
			Tot	Opt	iVo	Flash	Tot	Opt	iVo	Flash	
State House of Representatives District 81	Bart Blackwell		1042	15	1027	0	1042	15	1027	0	0
State House of Representatives District 81	K T Ruthven		1009	13	996	0	1009	13	996	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.

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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.

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Aiken PEB Use Report

Electi on: 2016 Statewide Runoff

Audit Date: 09:43:20, Thu Jun 30, 2016

Precinct	PEBs Used	Comments
Aiken No. 1	151589	
Aiken No. 2	137790	
Aiken No. 5	151176	
Aiken No. 6	139214	
College Acre	138275	
Graniteville	138720	
Millbrook	138011	
Six Points No. 35	151358	
Talatha	137816	
Vaughan	150197	
Warrenville	151951	
Aiken No. 47	148505	
Breezy Hill	150369	
Levels No. 52	151823	
Hollow Creek	148543	
Pine Forest	151160	
Gem Lakes No 60	150022	
Sleepy Hollow 65	139954	
Hitchcock No. 66	151716	
Anderson Pond 69	139408	
Sandstone No. 70	139240	
Levels No. 72	148657	
South Aiken No. 76	148535	
Gem Lakes No. 77	151598	
Sandstone No. 79	138402	
Levels No 83	150075	
Absentee	151271	

27 precincts processed

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

How to read this report.

This is the PEB Used report. It lists the precincts found in the Audit data and lists all

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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.

Aiken PEB Exceptions Report  
 Election: 2016 Statewide Runoff  
 Election date: 06/28/2016  
 Audit Date: 09:43:20, Thu Jun 30, 2016

iVo #	Op PEB	Open Time	Cl PEB	Close Time	Exception Type	Precinct - Ballots Cast
5129490	151271	06/21/2016 10:37:21	151271	06/28/2016 19:09:05	>>Open Date<<	>>>No Ballots<<<
5129490	151271	06/21/2016 10:37:21	151271	06/28/2016 19:09:05	Open Time	>>>No Ballots<<<
5129520	139214	05/28/2016 06:32:56	139214	05/28/2016 19:25:46	>>Open Date<<	Aiken No. 6 - 69
5129520	139214	05/28/2016 06:32:56	139214	05/28/2016 19:25:46	>>Close Date<<	Aiken No. 6 - 69
5129967	150197	06/28/2016 07:32:25	150197	06/28/2016 19:10:06	Open Time	Vaucluse - 7
5130335	151271	06/21/2016 10:35:54	151271	06/28/2016 19:06:50	>>Open Date<<	Absentee - 3
5130335	151271	06/21/2016 10:35:54	151271	06/28/2016 19:06:50	Open Time	Absentee - 3
5131094	148657	06/28/2016 07:14:33	148657	06/28/2016 19:04:19	Open Time	Levels No.72 - 11
5131801	150369	06/28/2016 07:08:43	150369	06/28/2016 19:07:30	Open Time	>>>No Ballots<<<
5136431	151176	05/28/2016 06:57:31	151176	05/28/2016 19:46:17	>>Open Date<<	Aiken No. 5 - 38
5136431	151176	05/28/2016 06:57:31	151176	05/28/2016 19:46:17	>>Close Date<<	Aiken No. 5 - 38
5138035	151271	06/21/2016 10:38:57	151271	06/28/2016 19:09:07	>>Open Date<<	>>>No Ballots<<<
5138035	151271	06/21/2016 10:38:57	151271	06/28/2016 19:09:07	Open Time	>>>No Ballots<<<
5140458	148657	06/28/2016 07:09:02	148657	06/28/2016 19:07:45	Open Time	Levels No.72 - 2
5140540	148657	06/28/2016 07:20:11	148657	06/28/2016 19:01:41	Open Time	Levels No.72 - 14
5190183	151271	06/21/2016 10:34:03	151271	06/28/2016 19:06:17	>>Open Date<<	Absentee - 101
5190183	151271	06/21/2016 10:34:03	151271	06/28/2016 19:06:17	Open Time	Absentee - 101
5190210	151176	06/28/2016 07:01:38	151176	06/28/2016 19:56:34	Open Time	Aiken No. 5 - 2

The following machines(s) have audit records but no ballots were cast on them: 5121860, 5128135, 5129490, 5129756, 5131801, 5132133, 5133273, 5135788, 5137863, 5138035

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

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- 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 06/28/2016. So it is normal for these machines to appear on this report with Open Date and Open Time exceptions.