

Bamberg 2018 Statewide Primary Runoff Audit Report

Bamberg Ballot Audit Report  
 Election: 2018 Statewide Primary Runoff  
 Audit Date: 12:40:38, Thu Jun 28, 2018

Prec Nber	Precinct Name	EL30A							Audit				Comments
		Total	DS850	M650	DS200	M100	iVo	Flash	iVo	Opt	Man	Delta	
0001	Colston	5	0	0	0	0	5	0	5	0	0	0	
0002	Edisto	30	0	0	0	0	30	0	30	0	0	0	
0003	Ehrhardt	26	0	0	0	0	26	0	26	0	0	0	
0004	East Denmark	32	0	0	0	0	32	0	32	0	0	0	
0005	Govan	2	0	0	0	0	2	0	2	0	0	0	
0006	Hightowers Mill	4	0	0	0	0	4	0	4	0	0	0	
0007	Hunter's Chapel	8	0	0	0	0	8	0	8	0	0	0	
0008	Kearse	7	0	0	0	0	7	0	7	0	0	0	
0009	Little Swamp	17	0	0	0	0	17	0	17	0	0	0	
0010	Olar	18	0	0	0	0	18	0	18	0	0	0	
0011	South Bamberg	25	0	0	0	0	25	0	25	0	0	0	
0012	West Denmark	11	0	0	0	0	11	0	11	0	0	0	
0013	North Bamberg	49	0	0	0	0	49	0	49	0	0	0	
Precincts Total:		234	0	0	0	0	234	0	234	0	0	0	
0750	Absentee	6	0	0	0	2	4	0	4	0	2	0	
0800	Emergency	0	0	0	0	0	0	0	0	0	0	0	
0850	Fail safe	0	0	0	0	0	0	0	0	0	0	0	
0900	Provisional	0	0	0	0	0	0	0	0	0	0	0	
0950	Fail safe Provisional	0	0	0	0	0	0	0	0	0	0	0	
Virtual Precincts Total:		6	0	0	0	2	4	0	4	0	2	0	
Grand Total:		240	0	0	0	2	238	0	238	0	2	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: 1

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

Exception: Manual Entries found

Manual Entry Details:

Precinct	Candidate	Date	Hour	Min	Group	Old	New	Change	Tabulator	Comments
0750 Absentee	BALLOTS CAST - TOTAL	06-26	20	55pm	4	0	2	2	M100	Updated Successfully

#####  
 # This audit has exceptions. #  
 #####

Auditor's Note: Primary optical ballots were used and manual entries made.

Status of ERM Reports  
 EL30A is marked Official  
 EL45A is marked Official

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

EL30A Ivo Ballots	EL155 Ballots	EL152 Ballots
238	238	238
Delta from EL30A	0	0
	Delta from EL155	0
	Cast By Voter	238
	Cast By Poll Wkr	0
	Blank Cast by PW	0
	Cancelled Ballots	7
	Wrong Ballot	0
	Voter Left AB	0
	Voter Left BB	0
	Voter Request	0
	Printer Problem	0
	Terminal Problem	0
	Other Reason	7

(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: 5124855, 5125207, 5134232  
 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.

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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 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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 Bamberg Vote Level Audit Report  
 Election: 2018 Statewide Primary Runoff  
 Audit Date: 12:40:52, Thu Jun 28, 2018

Precinct Number / Name Office	Candidate	Party	EL30A					iVo	Flash	Audit		Comments
			Total	DS850	M650	DS200	M100			iVo	Delta	
0001 Colston REP - Governor	Henry McMaster		5	0	0	0	0	5	0	5	0	
REP - Governor Data expected.	John Warren		0	0	0	0	0	0	0	*	No Votes Cast	- No Audit

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REP - Attorney General	Todd Atwater	3	0	0	0	0	3	0	3	0
REP - Attorney General	Al an Wi l son	2	0	0	0	0	2	0	2	0
0002 Edi sto #####										
REP - Governor	Henry McMaster	26	0	0	0	0	26	0	26	0
REP - Governor	John Warren	3	0	0	0	0	3	0	3	0
REP - Attorney General	Todd Atwater	7	0	0	0	0	7	0	7	0
REP - Attorney General	Al an Wi l son	20	0	0	0	0	20	0	20	0
0003 Ehrhardt #####										
REP - Governor	Henry McMaster	20	0	0	0	0	20	0	20	0
REP - Governor	John Warren	6	0	0	0	0	6	0	6	0
REP - Attorney General	Todd Atwater	3	0	0	0	0	3	0	3	0
REP - Attorney General	Al an Wi l son	19	0	0	0	0	19	0	19	0
0004 East Denmark #####										
REP - Governor	Henry McMaster	20	0	0	0	0	20	0	20	0
REP - Governor	John Warren	12	0	0	0	0	12	0	12	0
REP - Attorney General	Todd Atwater	7	0	0	0	0	7	0	7	0
REP - Attorney General	Al an Wi l son	25	0	0	0	0	25	0	25	0
0005 Govan #####										
REP - Governor	Henry McMaster	2	0	0	0	0	2	0	2	0
REP - Governor	John Warren	0	0	0	0	0	0	0	* No Votes Cast - No Audi t	
Data expected.										
REP - Attorney General	Todd Atwater	0	0	0	0	0	0	0	* No Votes Cast - No Audi t	
Data expected.										
REP - Attorney General	Al an Wi l son	2	0	0	0	0	2	0	2	0
0006 Hightowers Mill #####										
REP - Governor	Henry McMaster	4	0	0	0	0	4	0	4	0
REP - Governor	John Warren	0	0	0	0	0	0	0	* No Votes Cast - No Audi t	
Data expected.										
REP - Attorney General	Todd Atwater	1	0	0	0	0	1	0	1	0
REP - Attorney General	Al an Wi l son	3	0	0	0	0	3	0	3	0
0007 Hunter's Chapel #####										
REP - Governor	Henry McMaster	8	0	0	0	0	8	0	8	0
REP - Governor	John Warren	0	0	0	0	0	0	0	* No Votes Cast - No Audi t	
Data expected.										
REP - Attorney General	Todd Atwater	2	0	0	0	0	2	0	2	0
REP - Attorney General	Al an Wi l son	6	0	0	0	0	6	0	6	0
0008 Kearse #####										
REP - Governor	Henry McMaster	6	0	0	0	0	6	0	6	0
REP - Governor	John Warren	1	0	0	0	0	1	0	1	0
REP - Attorney General	Todd Atwater	0	0	0	0	0	0	0	* No Votes Cast - No Audi t	
Data expected.										
REP - Attorney General	Al an Wi l son	6	0	0	0	0	6	0	6	0
0009 Little Swamp #####										
REP - Governor	Henry McMaster	12	0	0	0	0	12	0	12	0

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REP - Governor	John Warren	5	0	0	0	0	5	0	5	0
REP - Attorney General	Todd Atwater	7	0	0	0	0	7	0	7	0
REP - Attorney General	Al an Wi l son	9	0	0	0	0	9	0	9	0
0010 Ol ar #####										
REP - Governor	Henry McMaster	17	0	0	0	0	17	0	17	0
REP - Governor	John Warren	1	0	0	0	0	1	0	1	0
REP - Attorney General	Todd Atwater	10	0	0	0	0	10	0	10	0
REP - Attorney General	Al an Wi l son	6	0	0	0	0	6	0	6	0
0011 South Bamberg #####										
REP - Governor	Henry McMaster	22	0	0	0	0	22	0	22	0
REP - Governor	John Warren	3	0	0	0	0	3	0	3	0
REP - Attorney General	Todd Atwater	8	0	0	0	0	8	0	8	0
REP - Attorney General	Al an Wi l son	15	0	0	0	0	15	0	15	0
0012 West Denmark #####										
REP - Governor	Henry McMaster	7	0	0	0	0	7	0	7	0
REP - Governor	John Warren	4	0	0	0	0	4	0	4	0
REP - Attorney General	Todd Atwater	5	0	0	0	0	5	0	5	0
REP - Attorney General	Al an Wi l son	6	0	0	0	0	6	0	6	0
0013 North Bamberg #####										
REP - Governor	Henry McMaster	28	0	0	0	0	28	0	28	0
REP - Governor	John Warren	21	0	0	0	0	21	0	21	0
REP - Attorney General	Todd Atwater	15	0	0	0	0	15	0	15	0
REP - Attorney General	Al an Wi l son	32	0	0	0	0	32	0	32	0
0750 Absentee #####										
REP - Governor	Henry McMaster	5	0	0	0	2	3	0	3	0
***** Note: A manual entry was made in this precinct. There is no audit data for a manual entry. Expect no match in Audit data messages.										
REP - Governor	John Warren	1	0	0	0	0	1	0	1	0
REP - Attorney General	Todd Atwater	2	0	0	0	1	1	0	1	0
REP - Attorney General	Al an Wi l son	4	0	0	0	1	3	0	3	0
0800 Emergency #####										
REP - Governor	Henry McMaster	0	0	0	0	0	0	0	* No Votes Cast - No Audit Data expected.	
REP - Governor	John Warren	0	0	0	0	0	0	0	* No Votes Cast - No Audit Data expected.	
REP - Attorney General	Todd Atwater	0	0	0	0	0	0	0	* No Votes Cast - No Audit Data expected.	
REP - Attorney General	Al an Wi l son	0	0	0	0	0	0	0	* No Votes Cast - No Audit Data expected.	
0850 Fai l safe #####										
REP - Governor	Henry McMaster	0	0	0	0	0	0	0	* No Votes Cast - No Audit Data expected.	
REP - Governor	John Warren	0	0	0	0	0	0	0	* No Votes Cast - No Audit Data expected.	

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REP - Attorney General Data expected.	Todd Atwater	0	0	0	0	0	0	0 * No Votes Cast - No Audit
REP - Attorney General Data expected.	Al an Wi l son	0	0	0	0	0	0	0 * No Votes Cast - No Audit
0900 Provi si onal REP - Governor	Henry McMaster	1	0	0	0	0	1	0 * No Match in Audit Data.
REP - Governor Data expected.	John Warren	0	0	0	0	0	0	0 * No Votes Cast - No Audit
REP - Attorney General Data expected.	Todd Atwater	0	0	0	0	0	0	0 * No Votes Cast - No Audit
REP - Attorney General	Al an Wi l son	1	0	0	0	0	1	0 * No Match in Audit Data.
0950 Fai l safe Provi si onal REP - Governor	Henry McMaster	0	0	0	0	0	0	0 * No Votes Cast - No Audit
Data expected.	John Warren	0	0	0	0	0	0	0 * No Votes Cast - No Audit
REP - Governor Data expected.	Todd Atwater	0	0	0	0	0	0	0 * No Votes Cast - No Audit
REP - Attorney General Data expected.	Al an Wi l son	0	0	0	0	0	0	0 * No Votes Cast - No Audit
REP - Attorney General Data expected.								

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

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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 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

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 Bamberg EL30A45A Comparison Report  
 Election: 2018 Statewide Primary Runoff  
 Audit Date: 12:41:3, Thu Jun 28, 2018

-----EL30A-----					-----EL45A-----											
Office	M100	iVo	Flash	Delta	Candidate	Party	Tot	DS850	M650	DS200	M100	iVo	Flash	Tot	DS850	M650
Governor	2	181	0	0	Henry McMaster		183	0	0	0	2	181	0	183	0	0
Governor	0	57	0	0	John Warren		57	0	0	0	0	57	0	57	0	0
Attorney General	1	69	0	0	Todd Atwater		70	0	0	0	1	69	0	70	0	0
Attorney General	0	155	0	0	Alan Wilson		156	0	0	0	1	155	0	156	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.

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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 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.

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Bamberg PEB Use Report  
Electi on: 2018 Statewide Primary Runoff  
Audit Date: 12:40:38, Thu Jun 28, 2018

Precinct	PEBs Used	Comments
Colston	145479	
Edisto	232599	
Ehrhardt	147806	
East Denmark	243169	
Govan	165291	
Hightowers Mill	144360	
Hunter's Chapel	147809	
Kearse	165305	
Little Swamp	165289	
Olar	147006	
South Bamberg	232460	
West Denmark	229234	
North Bamberg	147795	
Absentee	232460	177538 WARNING: 2 PEBs used to open/close machines.

14 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 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.

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Bamberg PEB Exceptions Report  
Election: 2018 Statewide Primary Runoff  
Election date: 2018-06-26  
Audit Date: 12:40:38, Thu Jun 28, 2018

iVo #	Op PEB	Open Time	Cl PEB	Close Time	Exception Type	Precinct - Ballots Cast
5122713	232460	2018-06-26 06:26:27	177538	2018-06-26 19:02:14	>>>0/C PEBs<<<	Absentee - 4

The following machines(s) have audit records but no ballots were cast on them: 5124855, 5125207, 5134232  
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 2018-06-26. So it is normal for these machines to appear on this report with Open Date and Open Time exceptions.