

Bamberg Ballot Audit Report

Bamberg Ballot Audit Report
 Election: Democratic PPP
 Audit Date: 14:59:10, Thu Mar 3, 2016

Prec Nber	Precinct Name	EL30A				Audit				Comments
		Total	Opt	iVo	Flash	iVo	Opt	Man	Delta	
0001	Colston	20	0	20	0	20	0	0	0	
0002	Edisto	34	0	34	0	34	0	0	0	
0003	Ehrhardt	101	0	101	0	101	0	0	0	
0004	East Denmark	426	0	426	0	426	0	0	0	
0005	Govan	43	0	43	0	43	0	0	0	
0006	Hightowers Mill	8	0	8	0	8	0	0	0	
0007	Hunter's Chapel	36	0	36	0	36	0	0	0	
0008	Kearse	1	0	1	0	1	0	0	0	
0009	Little Swamp	4	0	4	0	4	0	0	0	
0010	Olar	54	0	54	0	54	0	0	0	
0011	South Bamberg	351	0	351	0	351	0	0	0	
0012	West Denmark	323	0	323	0	323	0	0	0	
0013	North Bamberg	183	0	183	0	183	0	0	0	
Precincts Total:		1584	0	1584	0	1584	0	0	0	
0750	Absentee	335	114	221	0	221	114	0	0	
0800	Emergency	0	0	0	0	0	0	0	0	
0850	Fail safe	5	0	5	0	5	0	0	0	
0900	Provisional	4	4	0	0	0	4	0	0	
0950	Fail safe Provisional	0	0	0	0	0	0	0	0	
Virtual Precincts Total:		344	118	226	0	226	118	0	0	
Grand Total:		1928	118	1810	0	1810	118	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: 11
 The following precincts have no ballots cast in them: Emergency, 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
1810	1810	1810
Delta from EL30A	0	0
	Delta from EL155	0
	Cast By Voter	1810

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Cast By Poll Wkr	0	
Blank Cast by PW	0	

Cancelled Ballots	6	

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	1	
Terminal Problem	3	
Other Reason	1	

Number of ADA audio enabled events in this election: 7

Precinct Number and Name	Machine	Date	Time
0004 East Denmark	5122713	02/23/2016	17:41:19
0005 Govan	5125406	02/23/2016	17:21:01
0005 Govan	5138089	02/23/2016	17:20:44
0006 Hightowers Mill	5125275	02/23/2016	17:38:34
0010 Olar	5136081	02/23/2016	17:32:24
0011 South Bamberg	5135585	02/23/2016	17:52:48
0850 Failsafe	5136535	01/19/2016	14:03:14

Election Date: 02/27/2016

In all but the Absentee Precinct events reported before election day are due to testing. Machines reported with precinct unknown had ADA Audio Enabled Events but no ballots were cast on them.

Note: The following machine(s) have audit records but no ballots were cast on them: 5127397
 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

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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 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.

Bamberg Vote Audit

Bamberg Vote Level Audit Report
 Election: Democratic PPP
 Audit Date: 14:59:43, Thu Mar 3, 2016

Precinct Number / Name Office	Candidate	Party	EL30A				Audit		Comments
			Total	Optical	iVo	Flash	iVo	Delta	
0001 Colston									
President District 6	Hillary Clinton		16	0	16	0	16	0	
President District 6	Martin O'Malley		0	0	0	0	0	* No Audit Data expected or found	
President District 6	Bernie Sanders		4	0	4	0	4	0	
President District 6	Willie Wilson		0	0	0	0	0	* No Audit Data expected or found	
0002 Edisto									
President District 6	Hillary Clinton		30	0	30	0	30	0	
President District 6	Martin O'Malley		0	0	0	0	0	* No Audit Data expected or found	
President District 6	Bernie Sanders		4	0	4	0	4	0	
President District 6	Willie Wilson		0	0	0	0	0	* No Audit Data expected or found	
0003 Ehrhardt									
President District 6	Hillary Clinton		90	0	90	0	90	0	
President District 6	Martin O'Malley		0	0	0	0	0	* No Audit Data expected or found	
President District 6	Bernie Sanders		9	0	9	0	9	0	
President District 6	Willie Wilson		1	0	1	0	1	0	
0004 East Denmark									
President District 6	Hillary Clinton		392	0	392	0	392	0	
President District 6	Martin O'Malley		1	0	1	0	1	0	
President District 6	Bernie Sanders		30	0	30	0	30	0	
President District 6	Willie Wilson		1	0	1	0	1	0	
0005 Govan									
President District 6	Hillary Clinton		41	0	41	0	41	0	
President District 6	Martin O'Malley		0	0	0	0	0	* No Audit Data expected or found	
President District 6	Bernie Sanders		2	0	2	0	2	0	
President District 6	Willie Wilson		0	0	0	0	0	* No Audit Data expected or found	
0006 Hightowers Mill									
President District 6	Hillary Clinton		8	0	8	0	8	0	
President District 6	Martin O'Malley		0	0	0	0	0	* No Audit Data expected or found	
President District 6	Bernie Sanders		0	0	0	0	0	* No Audit Data expected or found	
President District 6	Willie Wilson		0	0	0	0	0	* No Audit Data expected or found	
0007 Hunter's Chapel									
President District 6	Hillary Clinton		27	0	27	0	27	0	
President District 6	Martin O'Malley		0	0	0	0	0	* No Audit Data expected or found	
President District 6	Bernie Sanders		8	0	8	0	8	0	

		Bamberg	Vote	Audit				
President District 6	Willie Wilson	1	0	1	0	1	0	
0008 Kearsce								
President District 6	Hillary Clinton	1	0	1	0	1	0	
President District 6	Martin O'Malley	0	0	0	0	*	No Audit Data expected or found	
President District 6	Bernie Sanders	0	0	0	0	*	No Audit Data expected or found	
President District 6	Willie Wilson	0	0	0	0	*	No Audit Data expected or found	
0009 Little Swamp								
President District 6	Hillary Clinton	3	0	3	0	3	0	
President District 6	Martin O'Malley	0	0	0	0	*	No Audit Data expected or found	
President District 6	Bernie Sanders	1	0	1	0	1	0	
President District 6	Willie Wilson	0	0	0	0	*	No Audit Data expected or found	
0010 Olar								
President District 6	Hillary Clinton	46	0	46	0	46	0	
President District 6	Martin O'Malley	0	0	0	0	*	No Audit Data expected or found	
President District 6	Bernie Sanders	6	0	6	0	6	0	
President District 6	Willie Wilson	1	0	1	0	1	0	
0011 South Bamberg								
President District 6	Hillary Clinton	294	0	294	0	294	0	
President District 6	Martin O'Malley	0	0	0	0	*	No Audit Data expected or found	
President District 6	Bernie Sanders	52	0	52	0	52	0	
President District 6	Willie Wilson	1	0	1	0	1	0	
0012 West Denmark								
President District 6	Hillary Clinton	293	0	293	0	293	0	
President District 6	Martin O'Malley	1	0	1	0	1	0	
President District 6	Bernie Sanders	25	0	25	0	25	0	
President District 6	Willie Wilson	2	0	2	0	2	0	
0013 North Bamberg								
President District 6	Hillary Clinton	151	0	151	0	151	0	
President District 6	Martin O'Malley	0	0	0	0	*	No Audit Data expected or found	
President District 6	Bernie Sanders	31	0	31	0	31	0	
President District 6	Willie Wilson	0	0	0	0	*	No Audit Data expected or found	
0750 Absentee								
President District 6	Hillary Clinton	309	105	204	0	204	0	
President District 6	Martin O'Malley	0	0	0	0	*	No Audit Data expected or found	
President District 6	Bernie Sanders	25	9	16	0	16	0	
President District 6	Willie Wilson	1	0	1	0	1	0	
0800 Emergency								
President District 6	Hillary Clinton	0	0	0	0	*	No Audit Data expected or found	
President District 6	Martin O'Malley	0	0	0	0	*	No Audit Data expected or found	
President District 6	Bernie Sanders	0	0	0	0	*	No Audit Data expected or found	

		Bamberg Vote Audit			
President District 6	Willie Wilson	0	0	0	0 * No Audit Data expected or found
0850 Failsafe					
President District 6	Hillary Clinton	5	0	5	0 5 0
President District 6	Martin O'Malley	0	0	0	0 * No Audit Data expected or found
President District 6	Bernie Sanders	0	0	0	0 * No Audit Data expected or found
President District 6	Willie Wilson	0	0	0	0 * No Audit Data expected or found
0900 Provisional					
President District 6	Hillary Clinton	4	4	0	0 * All votes cast for this candidate * in this precinct are optical. * No Audit Data for optical.
President District 6	Martin O'Malley	0	0	0	0 * No Audit Data expected or found
President District 6	Bernie Sanders	0	0	0	0 * No Audit Data expected or found
President District 6	Willie Wilson	0	0	0	0 * No Audit Data expected or found
0950 Failsafe Provisional					
President District 6	Hillary Clinton	0	0	0	0 * No Audit Data expected or found
President District 6	Martin O'Malley	0	0	0	0 * No Audit Data expected or found
President District 6	Bernie Sanders	0	0	0	0 * No Audit Data expected or found
President District 6	Willie Wilson	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.

Bamberg Vote Audit

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

Bamberg EL30A45A Compare

Bamberg EL30A45A Comparison Report
 Election: Democratic PPP
 Audit Date: 14:59:56, Thu Mar 3, 2016

Office	Candidate	Party	EL30A				EL45A				Delta
			Tot	Opt	iVo	Flash	Tot	Opt	iVo	Flash	
President District 6	Hillary Clinton		1710	109	1601	0	1710	109	1601	0	0
President District 6	Martin O'Malley		2	0	2	0	2	0	2	0	0
President District 6	Bernie Sanders		197	9	188	0	197	9	188	0	0
President District 6	Willie Wilson		8	0	8	0	8	0	8	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.

Bamberg PEB Use Report
 Election: Democratic PPP
 Audit Date: 14:59:10, Thu Mar 3, 2016

Precinct	PEBs Used	Comments
Colston	147809	
Edisto	165305	
Ehrhardt	154551	
East Denmark	232592	
Govan	147006	
Hightowers Mill	145479	
Hunter's Chapel	144360	
Kearse	165296	
Little Swamp	147795	
Olar	243169	
South Bamberg	147806	
West Denmark	232460	
North Bamberg	147746	
Absentee	145526	
Failsafe	145526	

15 precincts processed

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

Bamberg PEBExceptionsReport

Bamberg PEB Exceptions Report
Election: Democratic PPP
Election date: 02/27/2016
Audit Date: 14:59:10, Thu Mar 3, 2016

iVo #	Op PEB	Open Time	Cl PEB	Close Time	Exception Type	Precinct - Ballots Cast
5136535	145526	02/04/2016 16:11:50	145526	02/27/2016 19:01:38	>>Open Date<<	Absentee - 221 Fail safe - 5
5136535	145526	02/04/2016 16:11:50	145526	02/27/2016 19:01:38	Open Time	Absentee - 221 Fail safe - 5

The following machines(s) have audit records but no ballots were cast on them: 5127397
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 Fail safe precinct machines are opened during the middle of the day several days before the election date of 02/27/2016. So it is normal for these machines to appear on this report with Open Date and Open Time exceptions.