

Bamberg 2016 Statewide Primary Audit Report

Bamberg Ballot Audit Report
 Election: 2016 Statewide Primary
 Audit Date: 13:09:55, Thu Jun 16, 2016

Prec Nber	Precinct Name	EL30A				Audit				Comments
		Total	Opt	iVo	Flash	iVo	Opt	Man	Delta	
0001	Colston	23	0	23	0	23	0	0	0	
0002	Edisto	33	0	33	0	33	0	0	0	
0003	Ehrhardt	87	0	87	0	87	0	0	0	
0004	East Denmark	246	0	246	0	246	0	0	0	
0005	Govan	27	0	27	0	27	0	0	0	
0006	Hightowers Mill	12	0	12	0	12	0	0	0	
0007	Hunter's Chapel	41	0	41	0	41	0	0	0	
0008	Kearse	9	0	9	0	9	0	0	0	
0009	Little Swamp	8	0	8	0	8	0	0	0	
0010	Olar	36	0	36	0	36	0	0	0	
0011	South Bamberg	326	0	326	0	326	0	0	0	
0012	West Denmark	193	0	193	0	193	0	0	0	
0013	North Bamberg	234	0	234	0	234	0	0	0	
Precincts Total:		1275	0	1275	0	1275	0	0	0	
0750	Absentee	230	139	91	0	91	139	0	0	
0800	Emergency	0	0	0	0	0	0	0	0	
0850	Fail safe	2	0	2	0	2	0	0	0	
0900	Provisional	2	2	0	0	0	2	0	0	
0950	Fail safe Provisional	0	0	0	0	0	0	0	0	
Virtual Precincts Total:		234	141	93	0	93	141	0	0	
Grand Total:		1509	141	1368	0	1368	141	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: 12
 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
1368	1368	1368
Delta from EL30A	0	0
	Delta from EL155	0
	Cast By Voter	1367

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Cast By Poll Wkr	1	
Blank Cast by PW	0	

Cancelled Ballots	14	

Wrong Ballot	4	
Voter Left AB	0	(AB = After ballot selected by poll worker.)
Voter Left BB	0	(BB = Before ballot selected by poll worker.)
Voter Request	2	
Printer Problem	0	
Terminal Problem	4	
Other Reason	4	

Number of ADA audio enabled events in this election: 21

Precinct Number and Name	Machine	Date	Time
0001 Colston	5136535	06/06/2016	17:53:57
0002 Edisto	5126149	06/07/2016	18:03:32
0003 Ehrhardt	5125698	06/06/2014	17:50:49
0004 East Denmark	5126464	06/06/2016	18:00:41
0005 Govan	5121207	06/06/2016	17:57:16
0005 Govan	5123832	06/06/2016	18:04:42
0006 Hightowers Mill	5132195	06/06/2016	18:05:48
0007 Hunter's Chapel	5125275	06/06/2016	18:08:06
0008 Kearse	5123248	06/06/2016	18:09:50
0009 Little Swamp	5122212	06/06/2016	18:12:12
0009 Little Swamp	5121841	06/06/2016	18:14:30
0009 Little Swamp	5122212	06/06/2014	18:11:01
0011 South Bamberg	5138089	06/06/2016	18:18:46
0012 West Denmark	5136081	06/06/2014	18:13:39
0012 West Denmark	5136081	06/06/2014	18:13:16
0012 West Denmark	5136081	06/06/2014	18:13:23
0013 North Bamberg	5122695	06/06/2016	18:06:03
0850 Fail safe	5134232	05/15/2016	20:09:07
UNKN Unknown	5135585	05/15/2016	20:09:50
UNKN Unknown	5125199	06/06/2016	18:15:54
UNKN Unknown	5125199	06/06/2016	18:16:16

Election Date: 06/14/2016

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 machines(s) have audit records but no ballots were cast on them: 5123100, 5125199, 5135585
 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

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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. 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 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 Level Audit Report
 Election: 2016 Statewide Primary
 Audit Date: 13:10:22, Thu Jun 16, 2016

Precinct Number / Name Office	Candidate	Party	EL30A				Audit		Comments
			Total	Optical	iVo	Flash	iVo	Delta	
0001 Colston									
DEM - State House of Representatives Dist 90	Justin Bamberg		18	0	18	0	18	0	
DEM - State House of Representatives Dist 90	Evert Comer Jr		4	0	4	0	4	0	
0002 Edisto									
DEM - State House of Representatives Dist 90	Justin Bamberg		27	0	27	0	27	0	
DEM - State House of Representatives Dist 90	Evert Comer Jr		6	0	6	0	6	0	
0003 Ehrhardt									
DEM - State House of Representatives Dist 90	Justin Bamberg		78	0	78	0	78	0	
DEM - State House of Representatives Dist 90	Evert Comer Jr		8	0	8	0	8	0	
0004 East Denmark									
DEM - State House of Representatives Dist 90	Justin Bamberg		134	0	134	0	134	0	
DEM - State House of Representatives Dist 90	Evert Comer Jr		112	0	112	0	112	0	
DEM - County Council District 4	Joe Guess Jr		52	0	52	0	52	0	
DEM - County Council District 4	Rufus Jamison Jr		38	0	38	0	38	0	
0005 Govan									
DEM - State House of Representatives Dist 90	Justin Bamberg		12	0	12	0	12	0	
DEM - State House of Representatives Dist 90	Evert Comer Jr		15	0	15	0	15	0	
0006 Hightowers Mill									
DEM - State House of Representatives Dist 90	Justin Bamberg		7	0	7	0	7	0	
DEM - State House of Representatives Dist 90	Evert Comer Jr		4	0	4	0	4	0	

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0007	Hunter's Chapel								
DEM - State House of Representatives	Dist 90	Justin Bamberg	32	0	32	0	32	0	
DEM - State House of Representatives	Dist 90	Evert Comer Jr	9	0	9	0	9	0	
0008	Kearse								
DEM - State House of Representatives	Dist 90	Justin Bamberg	4	0	4	0	4	0	
DEM - State House of Representatives	Dist 90	Evert Comer Jr	5	0	5	0	5	0	
0009	Little Swamp								
DEM - State House of Representatives	Dist 90	Justin Bamberg	6	0	6	0	6	0	
DEM - State House of Representatives	Dist 90	Evert Comer Jr	2	0	2	0	2	0	
0010	Olar								
DEM - State House of Representatives	Dist 90	Justin Bamberg	21	0	21	0	21	0	
DEM - State House of Representatives	Dist 90	Evert Comer Jr	15	0	15	0	15	0	
0011	South Bamberg								
DEM - State House of Representatives	Dist 90	Justin Bamberg	294	0	294	0	294	0	
DEM - State House of Representatives	Dist 90	Evert Comer Jr	27	0	27	0	27	0	
0012	West Denmark								
DEM - State House of Representatives	Dist 90	Justin Bamberg	114	0	114	0	114	0	
DEM - State House of Representatives	Dist 90	Evert Comer Jr	76	0	76	0	76	0	
DEM - County Council	District 4	Joe Guess Jr	29	0	29	0	29	0	
DEM - County Council	District 4	Rufus Jamison Jr	28	0	28	0	28	0	
0013	North Bamberg								
DEM - State House of Representatives	Dist 90	Justin Bamberg	213	0	213	0	213	0	
DEM - State House of Representatives	Dist 90	Evert Comer Jr	20	0	20	0	20	0	
DEM - County Council	District 4	Joe Guess Jr	1	0	1	0	1	0	
DEM - County Council	District 4	Rufus Jamison Jr	1	0	1	0	1	0	
0750	Absentee								
DEM - State House of Representatives	Dist 90	Justin Bamberg	197	129	68	0	68	0	
DEM - State House of Representatives	Dist 90	Evert Comer Jr	33	10	23	0	23	0	
DEM - County Council	District 4	Joe Guess Jr	9	1	8	0	8	0	
DEM - County Council	District 4	Rufus Jamison Jr	5	3	2	0	2	0	
0800	Emergency								
DEM - State House of Representatives	Dist 90	Justin Bamberg	0	0	0	0	0	0	0 * No Audit Data expected or found
DEM - State House of Representatives	Dist 90	Evert Comer Jr	0	0	0	0	0	0	0 * No Audit Data expected or found
DEM - County Council	District 4	Joe Guess Jr	0	0	0	0	0	0	0 * No Audit Data expected or found
DEM - County Council	District 4	Rufus Jamison Jr	0	0	0	0	0	0	0 * No Audit Data expected or found
0850	Fail safe								
DEM - State House of Representatives	Dist 90	Justin Bamberg	2	0	2	0	2	0	
DEM - State House of Representatives	Dist 90	Evert Comer Jr	0	0	0	0	0	0	0 * No Audit Data expected or found
DEM - County Council	District 4	Joe Guess Jr	0	0	0	0	0	0	0 * No Audit Data expected or found

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DEM - County Council District 4	Rufus Jamison Jr	0	0	0	0 * No Audit Data expected or found
0900 Provisional					
DEM - State House of Representatives Dist 90	Justin Bamberg	1	1	0	0 * All votes cast for this candidate * in this precinct are optical. * No Audit Data for optical.
DEM - State House of Representatives Dist 90	Evert Comer Jr	1	1	0	0 * All votes cast for this candidate * in this precinct are optical. * No Audit Data for optical.
DEM - County Council District 4	Joe Guess Jr	0	0	0	0 * No Audit Data expected or found
DEM - County Council District 4	Rufus Jamison Jr	0	0	0	0 * No Audit Data expected or found
0950 Failsafe Provisional					
DEM - State House of Representatives Dist 90	Justin Bamberg	0	0	0	0 * No Audit Data expected or found
DEM - State House of Representatives Dist 90	Evert Comer Jr	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

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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 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

 Bamberg EL30A45A Comparison Report
 Election: 2016 Statewide Primary
 Audit Date: 13:13:1, Thu Jun 16, 2016

Offi ce	Candi date	Party	EL30A				EL45A				Del ta
			Tot	Opt	iVo	Fl ash	Tot	Opt	iVo	Fl ash	
State House of Representatives Dist 90	Justin Bamberg		1160	130	1030	0	1160	130	1030	0	0
State House of Representatives Dist 90	Evert Comer Jr		337	11	326	0	337	11	326	0	0
County Council District 4	Joe Guess Jr		91	1	90	0	91	1	90	0	0
County Council District 4	Rufus Jamison Jr		72	3	69	0	72	3	69	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

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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

Electi on: 2016 Statewi de Pri mary

Audi t Date: 13:09:55, Thu Jun 16, 2016

Preci nct	PEBs Used	Comments
Col ston	144360	
Edi sto	165291	
Ehrhardt	145479	
East Denmark	147809	
Govan	165299	
Hightowers Mill	165305	
Hunter' s Chapel	232478	
Kearse	232460	
Little Swamp	145489	
Olar	147795	
South Bamberg	177538	
West Denmark	145526	
North Bamberg	147806	
Absentee	147006	
Fail safe	147006	

15 precincts processed

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

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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 PEB Exceptions Report
Election: 2016 Statewide Primary
Election date: 06/14/2016
Audit Date: 13:09:55, Thu Jun 16, 2016

iVo #	Op PEB	Open Time	Cl PEB	Close Time	Exception Type	Precinct - Ballots Cast
5121841	145489	06/14/2016 07:00:56	145489	06/14/2016 19:10:23	Open Time	Little Swamp - 1
5134232	147006	05/17/2016 12:16:50	147006	06/14/2016 19:01:21	>>Open Date<<	Absentee - 91 Fail safe - 2
5134232	147006	05/17/2016 12:16:50	147006	06/14/2016 19:01:21	Open Time	Absentee - 91 Fail safe - 2
5135585	147006	05/17/2016 12:17:52	147006	06/14/2016 19:03:48	>>Open Date<<	>>>No Ballots<<<
5135585	147006	05/17/2016 12:17:52	147006	06/14/2016 19:03:48	Open Time	>>>No Ballots<<<

The following machine(s) have audit records but no ballots were cast on them: 5123100, 5125199, 5135585
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.

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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.