

Berkeley 2017 State House Dist 99 Primary Audit Report

Berkeley Ballot Audit Report
 Election: 2017 State House Dist 99 Primary
 Audit Date: 10:44:08, Thu Nov 16, 2017

Prec Nber	Precinct Name	EL30A				Audit				Comments
		Total	Opt	iVo	Flash	iVo	Opt	Man	Delta	
0012	Daniel Island 1	208	0	208	0	208	0	0	0	
0013	Daniel Island 2	157	0	157	0	157	0	0	0	
0021	Hanahan 2	94	0	94	0	94	0	0	0	
0022	Hanahan 3	129	0	129	0	129	0	0	0	
0023	Hanahan 4	72	0	72	0	72	0	0	0	
0061	Daniel Island 3	166	0	166	0	166	0	0	0	
0062	Daniel Island 4	217	0	217	0	217	0	0	0	
0063	The Village	136	0	136	0	136	0	0	0	
0064	Yellow House	67	0	67	0	67	0	0	0	
0068	Hanahan 5	172	0	172	0	172	0	0	0	
0077	Foster Creek 2	141	0	141	0	141	0	0	0	
0078	Foster Creek 3	90	0	90	0	90	0	0	0	
0082	Sedgefield 2	0	0	0	0	0	0	0	0	
Precincts Total:		1649	0	1649	0	1649	0	0	0	
0750	Absentee	62	42	20	0	20	42	0	0	
0800	Emergency	1	1	0	0	0	1	0	0	
0850	Failsafe	0	0	0	0	0	0	0	0	
0900	Provisional	0	0	0	0	0	0	0	0	
0950	Failsafe Provisional	0	0	0	0	0	0	0	0	
Virtual Precincts Total:		63	43	20	0	20	43	0	0	
Grand Total:		1712	43	1669	0	1669	43	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: 4
 The following precincts have no ballots cast in them: Sedgefield 2, Failsafe, Provisional, Failsafe Provisional
 This audit is complete and has no exceptions.

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

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

EL30A iVo Ballots	EL155 Ballots	EL152 Ballots
1669	1669	1669
Delta from EL30A	0	0
	Delta from EL155	0
	Cast By Voter	1668

Berkeley 2017 State House Dist 99 Primary Audit Report

Cast By Poll Wkr	1
Blank Cast by PW	0

Cancelled Ballots	10

Wrong Ballot	1
Voter Left AB	0
Voter Left BB	1
Voter Request	1
Printer Problem	3
Terminal Problem	2
Other Reason	2

(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: 5120162, 5130401, 5137393
 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 a 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

Berkeley 2017 State House Dist 99 Primary Audit Report

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.

Berkeley Vote Level Audit Report
 Election: 2017 State House Dist 99 Primary
 Audit Date: 10:44:22, Thu Nov 16, 2017

Precinct Number / Name Office	Candidate	Party	EL30A				Audit		Comments
			Total	Optical	iVo	Flash	iVo	Delta	
0012 Daniel Island 1 #####	State House of Representative District 99 Jarrod Brooks		11	0	11	0	11	0	
	State House of Representative District 99 Nancy Mace		143	0	143	0	143	0	
	State House of Representative District 99 Shawn Pinkston		29	0	29	0	29	0	
	State House of Representative District 99 Mark Smith		24	0	24	0	24	0	
0013 Daniel Island 2 #####	State House of Representative District 99 Jarrod Brooks		40	0	40	0	40	0	
	State House of Representative District 99 Nancy Mace		68	0	68	0	68	0	
	State House of Representative District 99 Shawn Pinkston		28	0	28	0	28	0	
	State House of Representative District 99 Mark Smith		21	0	21	0	21	0	
0021 Hanahan 2 #####	State House of Representative District 99 Jarrod Brooks		10	0	10	0	10	0	

Berkeley 2017 State House Dist 99 Primary Audit Report

State House of Representative	District 99	Nancy Mace	55	0	55	0	55	0
State House of Representative	District 99	Shawn Pinkston	9	0	9	0	9	0
State House of Representative	District 99	Mark Smith	20	0	20	0	20	0
0022 Hanahan 3 #####								
State House of Representative	District 99	Jarrold Brooks	11	0	11	0	11	0
State House of Representative	District 99	Nancy Mace	78	0	78	0	78	0
State House of Representative	District 99	Shawn Pinkston	26	0	26	0	26	0
State House of Representative	District 99	Mark Smith	14	0	14	0	14	0
0023 Hanahan 4 #####								
State House of Representative	District 99	Jarrold Brooks	7	0	7	0	7	0
State House of Representative	District 99	Nancy Mace	39	0	39	0	39	0
State House of Representative	District 99	Shawn Pinkston	13	0	13	0	13	0
State House of Representative	District 99	Mark Smith	12	0	12	0	12	0
0061 Daniel Island 3 #####								
State House of Representative	District 99	Jarrold Brooks	15	0	15	0	15	0
State House of Representative	District 99	Nancy Mace	67	0	67	0	67	0
State House of Representative	District 99	Shawn Pinkston	59	0	59	0	59	0
State House of Representative	District 99	Mark Smith	25	0	25	0	25	0
0062 Daniel Island 4 #####								
State House of Representative	District 99	Jarrold Brooks	23	0	23	0	23	0
State House of Representative	District 99	Nancy Mace	99	0	99	0	99	0
State House of Representative	District 99	Shawn Pinkston	59	0	59	0	59	0
State House of Representative	District 99	Mark Smith	36	0	36	0	36	0
0063 The Village #####								
State House of Representative	District 99	Jarrold Brooks	29	0	29	0	29	0
State House of Representative	District 99	Nancy Mace	69	0	69	0	69	0
State House of Representative	District 99	Shawn Pinkston	13	0	13	0	13	0
State House of Representative	District 99	Mark Smith	25	0	25	0	25	0
0064 Yellow House #####								
State House of Representative	District 99	Jarrold Brooks	4	0	4	0	4	0
State House of Representative	District 99	Nancy Mace	43	0	43	0	43	0
State House of Representative	District 99	Shawn Pinkston	6	0	6	0	6	0
State House of Representative	District 99	Mark Smith	14	0	14	0	14	0
0068 Hanahan 5 #####								
State House of Representative	District 99	Jarrold Brooks	3	0	3	0	3	0
State House of Representative	District 99	Nancy Mace	117	0	117	0	117	0
State House of Representative	District 99	Shawn Pinkston	14	0	14	0	14	0
State House of Representative	District 99	Mark Smith	37	0	37	0	37	0
0077 Foster Creek 2 #####								
State House of Representative	District 99	Jarrold Brooks	12	0	12	0	12	0
State House of Representative	District 99	Nancy Mace	74	0	74	0	74	0
State House of Representative	District 99	Shawn Pinkston	17	0	17	0	17	0
State House of Representative	District 99	Mark Smith	38	0	38	0	38	0

Berkeley 2017 State House Dist 99 Primary Audit Report

0078	Foster Creek 3	State House of Representative District 99	Jarro d Brooks	16	0	16	0	16	0
		State House of Representative District 99	Nancy Mace	43	0	43	0	43	0
		State House of Representative District 99	Shawn Pinkston	16	0	16	0	16	0
		State House of Representative District 99	Mark Smith	15	0	15	0	15	0
0082	Sedgefield 2	State House of Representative District 99	Jarro d Brooks	0	0	0	0	* No Audit Data expected or found	
		State House of Representative District 99	Nancy Mace	0	0	0	0	* No Audit Data expected or found	
		State House of Representative District 99	Shawn Pinkston	0	0	0	0	* No Audit Data expected or found	
		State House of Representative District 99	Mark Smith	0	0	0	0	* No Audit Data expected or found	
0750	Absentee	State House of Representative District 99	Jarro d Brooks	3	1	2	0	2	0
		State House of Representative District 99	Nancy Mace	35	25	10	0	10	0
		State House of Representative District 99	Shawn Pinkston	14	10	4	0	4	0
		State House of Representative District 99	Mark Smith	9	6	3	0	3	0
0800	Emergency	State House of Representative District 99	Jarro d Brooks	0	0	0	0	* No Audit Data expected or found	
		State House of Representative District 99	Nancy Mace	0	0	0	0	* No Audit Data expected or found	
		State House of Representative District 99	Shawn Pinkston	1	1	0	0	* All votes cast for this candidate in this precinct are optical.	
								* No Audit Data for optical.	
		State House of Representative District 99	Mark Smith	0	0	0	0	* No Audit Data expected or found	
0850	Failsafe	State House of Representative District 99	Jarro d Brooks	0	0	0	0	* No Audit Data expected or found	
		State House of Representative District 99	Nancy Mace	0	0	0	0	* No Audit Data expected or found	
		State House of Representative District 99	Shawn Pinkston	0	0	0	0	* No Audit Data expected or found	
		State House of Representative District 99	Mark Smith	0	0	0	0	* No Audit Data expected or found	
0900	Provisional	State House of Representative District 99	Jarro d Brooks	0	0	0	0	* No Audit Data expected or found	
		State House of Representative District 99	Nancy Mace	0	0	0	0	* No Audit Data expected or found	
		State House of Representative District 99	Shawn Pinkston	0	0	0	0	* No Audit Data expected or found	
		State House of Representative District 99	Mark Smith	0	0	0	0	* No Audit Data expected or found	
0950	Failsafe Provisional	State House of Representative District 99	Jarro d Brooks	0	0	0	0	* No Audit Data expected or found	
		State House of Representative District 99	Nancy Mace	0	0	0	0	* No Audit Data expected or found	
		State House of Representative District 99	Shawn Pinkston	0	0	0	0	* No Audit Data expected or found	
		State House of Representative District 99	Mark Smith	0	0	0	0	* No Audit Data expected or found	

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.

Berkeley 2017 State House Dist 99 Primary Audit Report

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 a 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 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

 Berkeley EL30A45A Comparison Report
 Election: 2017 State House Dist 99 Primary
 Audit Date: 10:44:30, Thu Nov 16, 2017

Office	Candidate	Party	EL30A				EL45A				Delta
			Tot	Opt	iVo	Flash	Tot	Opt	iVo	Flash	

Berkeley 2017 State House Dist 99 Primary Audit Report

State House of Representative District 99	Jarrold Brooks	184	1	183	0	184	1	183	0	0
State House of Representative District 99	Nancy Mace	930	25	905	0	930	25	905	0	0
State House of Representative District 99	Shawn Pinkston	304	11	293	0	304	11	293	0	0
State House of Representative District 99	Mark Smith	290	6	284	0	290	6	284	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 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.

Berkeley PEB Use Report
 Election: 2017 State House Dist 99 Primary
 Audit Date: 10:44:08, Thu Nov 16, 2017

Precinct	PEBs Used	Comments
Daniel Island 1	144688	
Daniel Island 2	144688	
Hanahan 2	155752	
Hanahan 3	145903	
Hanahan 4	197181	
Daniel Island 3	144688	
Daniel Island 4	144688	
The Village	118431	

Berkeley 2017 State House Dist 99 Primary Audit Report

Yellow House	118431
Hanahan 5	145903
Foster Creek 2	142634
Foster Creek 3	119509
Absentee	144748

13 precincts processed

The following precinct(s) have no ballots cast in them: Sedgefield 2, 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.

 Berkeley PEB Exceptions Report
 Election: 2017 State House Dist 99 Primary
 Election date: 11/14/2017
 Audit Date: 10:44:08, Thu Nov 16, 2017

iVo #	Op PEB	Open Time	Cl PEB	Close Time	Exception Type	Precinct - Ballots Cast
5124136	144748	10/16/2017 13:43:58	144748	11/14/2017 19:03:37	>>Open Date<<	Absentee - 8
5124136	144748	10/16/2017 13:43:58	144748	11/14/2017 19:03:37	Open Time	Absentee - 8
5127604	144748	10/16/2017 13:42:25	144748	11/14/2017 19:03:20	>>Open Date<<	Absentee - 12
5127604	144748	10/16/2017 13:42:25	144748	11/14/2017 19:03:20	Open Time	Absentee - 12

The following machines(s) have audit records but no ballots were cast on them: 5120162, 5130401, 5137393
 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

Berkeley 2017 State House Dist 99 Primary Audit Report

- 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 11/14/2017. So it is normal for these machines to appear on this report with Open Date and Open Time exceptions.