

Cherokee 2017 Congress 5 Runoff Audit Report

Cherokee Ballot Audit Report
 Election: 2017 Congress 5 Runoff
 Audit Date: 10:54:41, Thu May 18, 2017

Prec Nber	Precinct Name	EL30A				Audit				Comments
		Total	Opt	iVo	Flash	iVo	Opt	Man	Delta	
0001	Allens	70	0	70	0	70	0	0	0	
0002	Alma Mill	24	0	24	0	24	0	0	0	
0003	Anti och/Kings Ck	95	0	95	0	95	0	0	0	
0004	Ashworth	89	0	89	0	89	0	0	0	
0005	Blacksburg Ward No.	81	0	81	0	81	0	0	0	
0006	Blacksburg Ward No.	166	0	166	0	166	0	0	0	
0010	Draytonville	61	0	61	0	61	0	0	0	
0011	Ezells and Butler	77	0	77	0	77	0	0	0	
0012	Gaffney Ward No. 1	12	0	12	0	12	0	0	0	
0013	Gaffney Ward No. 2	20	0	20	0	20	0	0	0	
0014	Gaffney Ward No. 3	7	0	7	0	7	0	0	0	
0015	Gaffney Ward No. 4	73	0	73	0	73	0	0	0	
0016	Gaffney Ward No. 5	63	0	63	0	63	0	0	0	
0017	Gaffney Ward No. 6	103	0	103	0	103	0	0	0	
0018	Grassy Pond	161	0	161	0	161	0	0	0	
0019	Goucher and Thickett	57	0	57	0	57	0	0	0	
0020	Holly Grove and Buff	92	0	92	0	92	0	0	0	
0021	Limestone Mill	22	0	22	0	22	0	0	0	
0022	Littlejohn's and Sar	35	0	35	0	35	0	0	0	
0023	Macedonia	87	0	87	0	87	0	0	0	
0024	Morgan	58	0	58	0	58	0	0	0	
0025	Musgrove Mill	84	0	84	0	84	0	0	0	
0026	99 and Cherokee Fall	95	0	95	0	95	0	0	0	
0027	Pleasant Grove	32	0	32	0	32	0	0	0	
0028	Pleasant Meadows	16	0	16	0	16	0	0	0	
0030	Timber Ridge	75	0	75	0	75	0	0	0	
0031	White Plains	66	0	66	0	66	0	0	0	
0032	Wilkinsville and Met	45	0	45	0	45	0	0	0	
0033	Woods	83	0	83	0	83	0	0	0	
Precincts Total:		1949	0	1949	0	1949	0	0	0	
0750	Absentee	152	20	132	0	132	0	20	0	
0800	Emergency	0	0	0	0	0	0	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:		152	20	132	0	132	0	20	0	
Grand Total:		2101	20	2081	0	2081	0	20	0	

NOTE: Any manual entries shown on this report are supported by the Manual Entry Log (EL68).

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Auditor's Comments:

Total number of iVotronic ballots cast containing no votes: 7
 The following precincts have no ballots cast in them: Emergency, Failsafe, Provisional, Failsafe Provisional
 Exception: Manual Entries found
 Exception: Manual Entries found: They were required because paper ballots from the primary were used in the runoff

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

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

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

EL30A iVo Ballots	EL155 Ballots	EL152 Ballots
2081	2081	2081
Delta from EL30A	0	0
	Delta from EL155	0
	Cast By Voter	2080
	Cast By Poll Wkr	1
	Blank Cast by PW	0
	Cancelled Ballots	15
	Wrong Ballot	1
	Voter Left AB	0
	Voter Left BB	0
	Voter Request	0
	Printer Problem	2
	Terminal Problem	3
	Other Reason	9

(AB = After ballot selected by poll worker.)
 (BB = Before ballot selected by poll worker.)

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

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

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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 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

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validate the poll worker's choice.

Cherokee Vote Level Audit Report
 Election: 2017 Congress 5 Runoff
 Audit Date: 10:55:56, Thu May 18, 2017

Precinct Number / Name Office	Candidate	Party	EL30A				Audit		Comments
			Total	Optical	iVo	Flash	iVo	Delta	
0001 Aliens #####									
U. S. House of Rep District 5	Ral ph Norman	(REP)	49	0	49	0	49	0	
U. S. House of Rep District 5	Tommy Pope	(REP)	20	0	20	0	20	0	
0002 Alma Mill #####									
U. S. House of Rep District 5	Ral ph Norman	(REP)	19	0	19	0	19	0	
U. S. House of Rep District 5	Tommy Pope	(REP)	5	0	5	0	5	0	
0003 Antioch/Kings Ck #####									
U. S. House of Rep District 5	Ral ph Norman	(REP)	62	0	62	0	62	0	
U. S. House of Rep District 5	Tommy Pope	(REP)	33	0	33	0	33	0	
0004 Ashworth #####									
U. S. House of Rep District 5	Ral ph Norman	(REP)	53	0	53	0	53	0	
U. S. House of Rep District 5	Tommy Pope	(REP)	35	0	35	0	35	0	
0005 Blacksburg Ward No. 1 #####									
U. S. House of Rep District 5	Ral ph Norman	(REP)	55	0	55	0	55	0	
U. S. House of Rep District 5	Tommy Pope	(REP)	25	0	25	0	25	0	
0006 Blacksburg Ward No. 2 #####									
U. S. House of Rep District 5	Ral ph Norman	(REP)	118	0	118	0	118	0	
U. S. House of Rep District 5	Tommy Pope	(REP)	48	0	48	0	48	0	
0010 Draytonville #####									
U. S. House of Rep District 5	Ral ph Norman	(REP)	42	0	42	0	42	0	
U. S. House of Rep District 5	Tommy Pope	(REP)	19	0	19	0	19	0	
0011 Ezells and Butler #####									
U. S. House of Rep District 5	Ral ph Norman	(REP)	55	0	55	0	55	0	
U. S. House of Rep District 5	Tommy Pope	(REP)	22	0	22	0	22	0	
0012 Gaffney Ward No. 1 #####									
U. S. House of Rep District 5	Ral ph Norman	(REP)	8	0	8	0	8	0	
U. S. House of Rep District 5	Tommy Pope	(REP)	4	0	4	0	4	0	

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0013	Gaffney Ward No. 2	U. S. House of Rep Di strict 5	Ral ph Norman	(REP)	8	0	8	0	8	0
		U. S. House of Rep Di strict 5	Tommy Pope	(REP)	12	0	12	0	12	0
0014	Gaffney Ward No. 3	U. S. House of Rep Di strict 5	Ral ph Norman	(REP)	4	0	4	0	4	0
		U. S. House of Rep Di strict 5	Tommy Pope	(REP)	3	0	3	0	3	0
0015	Gaffney Ward No. 4	U. S. House of Rep Di strict 5	Ral ph Norman	(REP)	42	0	42	0	42	0
		U. S. House of Rep Di strict 5	Tommy Pope	(REP)	31	0	31	0	31	0
0016	Gaffney Ward No. 5	U. S. House of Rep Di strict 5	Ral ph Norman	(REP)	37	0	37	0	37	0
		U. S. House of Rep Di strict 5	Tommy Pope	(REP)	26	0	26	0	26	0
0017	Gaffney Ward No. 6	U. S. House of Rep Di strict 5	Ral ph Norman	(REP)	57	0	57	0	57	0
		U. S. House of Rep Di strict 5	Tommy Pope	(REP)	46	0	46	0	46	0
0018	Grassy Pond	U. S. House of Rep Di strict 5	Ral ph Norman	(REP)	82	0	82	0	82	0
		U. S. House of Rep Di strict 5	Tommy Pope	(REP)	79	0	79	0	79	0
0019	Goucher and Thicketty	U. S. House of Rep Di strict 5	Ral ph Norman	(REP)	35	0	35	0	35	0
		U. S. House of Rep Di strict 5	Tommy Pope	(REP)	22	0	22	0	22	0
0020	Holly Grove and Buffalo	U. S. House of Rep Di strict 5	Ral ph Norman	(REP)	65	0	65	0	65	0
		U. S. House of Rep Di strict 5	Tommy Pope	(REP)	27	0	27	0	27	0
0021	Limestone Mill	U. S. House of Rep Di strict 5	Ral ph Norman	(REP)	7	0	7	0	7	0
		U. S. House of Rep Di strict 5	Tommy Pope	(REP)	15	0	15	0	15	0
0022	Littlejohn's and Sarratt'	U. S. House of Rep Di strict 5	Ral ph Norman	(REP)	23	0	23	0	23	0
		U. S. House of Rep Di strict 5	Tommy Pope	(REP)	12	0	12	0	12	0
0023	Macedonia	U. S. House of Rep Di strict 5	Ral ph Norman	(REP)	53	0	53	0	53	0
		U. S. House of Rep Di strict 5	Tommy Pope	(REP)	34	0	34	0	34	0
0024	Morgan	U. S. House of Rep Di strict 5	Ral ph Norman	(REP)	39	0	39	0	39	0
		U. S. House of Rep Di strict 5	Tommy Pope	(REP)	19	0	19	0	19	0

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0025	Musgrove Mill	#####								
U. S.	House of Rep District 5	Ral ph Norman	(REP)	44	0	44	0	44	0	
U. S.	House of Rep District 5	Tommy Pope	(REP)	40	0	40	0	40	0	
0026	99 and Cherokee Falls	#####								
U. S.	House of Rep District 5	Ral ph Norman	(REP)	56	0	56	0	56	0	
U. S.	House of Rep District 5	Tommy Pope	(REP)	39	0	39	0	39	0	
0027	Pleasant Grove	#####								
U. S.	House of Rep District 5	Ral ph Norman	(REP)	16	0	16	0	16	0	
U. S.	House of Rep District 5	Tommy Pope	(REP)	16	0	16	0	16	0	
0028	Pleasant Meadows	#####								
U. S.	House of Rep District 5	Ral ph Norman	(REP)	12	0	12	0	12	0	
U. S.	House of Rep District 5	Tommy Pope	(REP)	3	0	3	0	3	0	
0030	Timber Ridge	#####								
U. S.	House of Rep District 5	Ral ph Norman	(REP)	52	0	52	0	52	0	
U. S.	House of Rep District 5	Tommy Pope	(REP)	22	0	22	0	22	0	
0031	White Plains	#####								
U. S.	House of Rep District 5	Ral ph Norman	(REP)	54	0	54	0	54	0	
U. S.	House of Rep District 5	Tommy Pope	(REP)	12	0	12	0	12	0	
0032	Wilkinsville and Metcal f	#####								
U. S.	House of Rep District 5	Ral ph Norman	(REP)	30	0	30	0	30	0	
U. S.	House of Rep District 5	Tommy Pope	(REP)	15	0	15	0	15	0	
0033	Woods	#####								
U. S.	House of Rep District 5	Ral ph Norman	(REP)	43	0	43	0	43	0	
U. S.	House of Rep District 5	Tommy Pope	(REP)	40	0	40	0	40	0	
0750	Absentee	#####								
U. S.	House of Rep District 5	Ral ph Norman	(REP)	80	15	65	0	65	0	
U. S.	House of Rep District 5	Tommy Pope	(REP)	70	5	65	0	65	0	
0800	Emergency	#####								
U. S.	House of Rep District 5	Ral ph Norman	(REP)	0	0	0	0	0	*	No Audit Data expected or found
U. S.	House of Rep District 5	Tommy Pope	(REP)	0	0	0	0	0	*	No Audit Data expected or found
0850	Fail safe	#####								
U. S.	House of Rep District 5	Ral ph Norman	(REP)	0	0	0	0	0	*	No Audit Data expected or found
U. S.	House of Rep District 5	Tommy Pope	(REP)	0	0	0	0	0	*	No Audit Data expected or found
0900	Provi si onal	#####								
U. S.	House of Rep District 5	Ral ph Norman	(REP)	0	0	0	0	0	*	No Audit Data expected or found
U. S.	House of Rep District 5	Tommy Pope	(REP)	0	0	0	0	0	*	No Audit Data expected or found

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0950  Failsafe Provisional #####
U.S. House of Rep District 5      Ralph Norman      (REP)      0      0      0      0 * No Audit Data expected or found
U.S. House of Rep District 5      Tommy Pope        (REP)      0      0      0      0 * No Audit Data expected or found
There was no unmatched audit data
    
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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 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.

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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

 Cherokee EL30A45A Comparison Report
 Election: 2017 Congress 5 Runoff
 Audit Date: 10:56:5, Thu May 18, 2017

Office	Candidate	Party	EL30A				EL45A				Delta
			Tot	Opt	iVo	Flash	Tot	Opt	iVo	Flash	
U. S. House of Rep District 5	Ralph Norman	(REP)	1300	15	1285	0	1300	15	1285	0	0
U. S. House of Rep District 5	Tommy Pope	(REP)	794	5	789	0	794	5	789	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.

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Cherokee PEB Use Report
 Election: 2017 Congress 5 Runoff
 Audit Date: 10:54:41, Thu May 18, 2017

Precinct	PEBs Used	Comments
Allens	148685	
Alma Mill	148815	
Anti och/Ki ngs Ck	150538	
Ashworth	148651	
Bl acksburg Ward No.	148689	138361
Draytonville	148805	
Ezells and Butler	150250	WARNING: 2 PEBs used to open/close machines.
Gaffney Ward No. 1	195672	
Gaffney Ward No. 2	150930	
Gaffney Ward No. 3	148738	
Gaffney Ward No. 4	155224	
Gaffney Ward No. 5	150083	
Gaffney Ward No. 6	148673	
Grassy Pond	148653	
Goucher and Thickett	150397	
Holly Grove and Buff	151394	
Li mestone Mill	150744	
Li ttlejohn' s and Sar	148785	
Macedonia	148672	
Morgan	148882	
Musgrove Mill	148974	
99 and Cherokee Fall	148779	
Pl easant Grove	150249	
Pl easant Meadows	150189	
Timber Ri dge	148732	
Whi te Pl ai ns	148958	
Wi lki nsvi lle and Met	150894	
Woods	150770	
Absentee	150840	

29 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.

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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.

Cherokee PEB Exceptions Report
Election: 2017 Congress 5 Runoff
Election date: 05/16/2017
Audit Date: 10:54:41, Thu May 18, 2017

iVo #	Op PEB	Open Time	Cl PEB	Close Time	Exception Type	Precinct - Ballots Cast
5120318	150840	05/05/2017 16:41:10	150840	05/16/2017 19:02:03	>>Open Date<<	Absentee - 83
5120318	150840	05/05/2017 16:41:10	150840	05/16/2017 19:02:03	Open Time	Absentee - 83
5134086	150840	05/05/2017 16:44:33	150840	05/16/2017 19:05:37	>>Open Date<<	Absentee - 49
5134086	150840	05/05/2017 16:44:33	150840	05/16/2017 19:05:37	Open Time	Absentee - 49

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 05/16/2017. So it is normal for these machines to appear on this report with Open Date and Open Time exceptions.